Medicare Advantage Medical Policy

Blue Cross Blue Shield Blue Care Network of Michigan

Nonprofit corporations and independent licensees of the Blue Cross and Blue Shield Association

Medicare Advantage Medical Drug Policy References and Summary of Evidence

Medicare Advantage Plans

Medicare Plus Blue℠

BCN Advantage℠

Effective Date: 08/26/2026

Description

This document contains information regarding Blue Cross Blue Shield of Michigan (BCBSM)/Blue Care Network (BCN) Medicare Part B (medical) drugs requiring prior authorization and/or step therapy. For medical procedures, refer to the Medicare Coverage Database and BCBSM's medical policies for applicable coverage policies.

Related Medical Coverage Policies

1. This policy document is meant to be used alongside the Blue Cross and BCN: Procedure codes for which providers must request prior authorization with the following websites:
    a. Medicare Coverage Database Search (website to search for National and Local Coverage Determinations and Coverage Articles [NCD, NCA, LCD, and LCAs]: https://www.cms.gov/medicare-coverage-database/new-search/search.aspx
    b. Medical Drug and Step Therapy Prior Authorization List for Medicare Plus Blue and BCN Advantage members

***Note: Coverage and approval duration may differ for Medicare Part B members based on any applicable criteria outlined in Local Coverage Determinations (LCD) or National Coverage Determinations (NCD) as determined by Center for Medicare and Medicaid Services (CMS). See the CMS website at http://www.cms.hhs.gov/. Determination of coverage of Part B drugs is based on medically accepted indications which have supported citations included or approved for inclusion determined by CMS approved compendia.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Drug Policy Hyperlink Index

Search the index:

Click anywhere in this document and press Ctrl+F. Type the drug or policy name, then select the matching result from this index or within the document.

Tip: If you do not find the brand name, try searching the generic name or part of the policy title.

Alphabet quick-jump links: A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z

A

- Abecma® (idecabtagene vicleucel)
- Adakveo® (crizanlizumab-tmca)
- Adrabetadex injection
- Adstiladrin® (nadofaragene firadenovec-vncg)
- Adzynma (ADAMTS13, recombinant-krhn)
- Aflibercept Products
    - Aflibercept-yszy
    - AhzantiveTM (aflibercept-mrbb)
    - EnzeevuTM (aflibercept-abzv)
    - Eydenzelt® (aflibercept-boav)
    - Eylea® (aflibercept)
    - Eylea® HD (aflibercept)
    - OpuvizTM (aflibercept-yszy)
    - PavbluTM (aflibercept-ayyh)
    - YesafiliTM (aflibercept-jbvf)
- Alpha – 1 Proteinase Inhibitors
    - Aralast NP® (alpha-1 proteinase inhibitor)
    - Glassia™ (alpha-1 proteinase inhibitor)
    - Prolastin®-C (alpha-1 proteinase inhibitor)
    - Prolastin®-C Liquid (alpha-1 proteinase inhibitor)
    - Zemaira® (alpha-1 proteinase inhibitor)
- AmtagviTM (lifileucel)
- Amvuttra™ (vutrisiran)
- Anktiva® (nogapendekin alfa inbakicept-pmln)
- Arcalyst® (rilonacept)
- Atezolizumab Products
    - Tecentriq® (atezolizumab)
    - Tecentriq HybrezaTM (atezolizumab and hyaluronidase-tqjs)

- Aucatzyl® (obecabtagene autoleucel)
- AvlayahTM (tividenofusp alfa-eknm)

B

- Bavencio® (avelumab)
- Benlysta® (belimumab)
- Beovu® (brolucizumab-dbll)
- Bevacizumab Policy
  - Alymsys® (bevacizumab-maly)
  - Avastin® (bevacizumab)
  - Avzivi® (bevacizumab-tnjn)
  - Jobevne™ (bevacizumab-nwgd)
  - Mvasi™ (bevacizumab-awwb)
  - Vegzelma® (bevacizumab-adcd)
  - Zirabev™ (bevacizumab-bvzr)
- Bimzelx® (bimekizumab-bkzx)
- Blenrep (belantamab mafodotin-blmf)
- Botulinum Toxin Type A
  - Botox® (onabotulinumtoxinA)
  - Daxxify® (daxibotulinumtoxinA)
  - Dysport® (abobotulinumtoxinA)
  - Xeomin® (incobotulinumtoxinA)
- Botulinum Toxin Type B Injection
- Breyanzi® (lisocabtagene maraleucel)

C

- Calcitonin Gene Related Peptide (CGRP) Antagonists
- CarvyktiTM (ciltacabtagene autoleucel)
- CasgevyTM (exagamglogene autotemcel)
- Cimzia® (certolizumab pegol)
- Cinqair® (reslizumab)
- Colony Stimulating Factors (CSFs)
  - Armlupeg (pegfilgrastim-unne)
  - Ennumo™ (pegfilgrastim-pccg)
  - Filkri® (filgrastim-laha)
  - Fulphila™ (pegfilgrastim-jmbd)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Fylnetra ® (pegfilgrastim-pbbk)
- Granix® (tbo-filgrastim)
- Leukine® (sargramostim)
- Neulasta® (pegfilgrastim)
- Neulasta On-Pro® (pegfilgrastim)
- Neupogen® (filgrastim)
- Nivestym™ (filgrastim-aafi)
- Nypozi™ (filgrastim-txid)
- Nyvepria™ (pegfilgrastim-apgf)
- ReleukoTM (filgrastim-ayow)
- RolvedonTM (eflapegrastim-xnsxt)
- Ryzneuta® (efbemalenograstim alfa-vuxw)
- Stimufend® (pegfilgrastim-fpgk)
- Udenyca™ (pegfilgrastim-cbqv)
- Udenyca OnbodyTM (pegfilgrastim-cbqv)
- Zarxio® (filgrastim-sndz)
- ZiextenzoTM (pegfilgrastim-bmez)

- ColumviTM (glofitamab-gxbm)
- CoselaTM (trilaciclib)
- Cosentyx® IV (secukinumab)
- Crysvita® (burosumab-twza)

D

- Denosumab Products
  - AukelsoTM (denosumab-kyqq)
  - Bildyos® (denosumab nxxp)
  - Bilprevda® (denosumab-nxxp)
  - Bomyntra® (denosumab-bnht)
  - Boncresa™ (denosumab-mobz)
  - BosayaTM (denosumab-kyqq)
  - Conexxence® (denosumab-bnht)
  - Denosumab-bbdz
  - Denosumab-bmwo
  - Denousmab-bnht
  - Denosumab-dssb

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Enoby™ (denosumab- qbde)
- Jubbonti® (denosumab-bbdz)
- Jubereq® (denosumab-desu)
- Osenvelt® (denosumab-bmwo)
- Ospomyv™ (denosumab-dssb)
- Osvyrti® (denosumab-desu)
- Oziltus™ (denosumab-mobz)
- Ponlimsi™ (denosumab-adet)
- Prolia® (denosumab)
- Stoboclo® (denosumab-bmwo)
- Wyost® (denosumab-bbdz)
- Xgeva® (denosumab)
- Xbryk™ (denosumab-dssb)
- Xtrenbo™ (denosumab- qbde)

- Doruxapapogene ralaplasmid injection
- Duchenne Muscular Dystrophy Class Policy
  - Amondys 45TM (casimersen)
  - Exondys 51® (eteplirsen)
  - ViltepsoTM (viltolarsen)
  - Vyondys 53TM (golodirsen)

E

- Eculizumab Products
  - BkemvTM (eculizumab-aeeb)
  - Epysqli® (eculizumab-aagh)
  - Soliris® (eculizumab)
- Efgartigimod Products
  - Vyvgart® (efgartigimod alfa-fcab)
  - Vyvgart® Hytrulo (efgartigimod alfa and hyaluronidase-qvfc)
- ElevidysTM (delandistrogene moxeparvovec-rokl)
- ElrexfioTM (elranatamab-bcmm)
- EmpaveliTM (pegcetacoplan)
- Empliciti® (elotuzumab)
- EnceltoTM (revakinagene taroretcel-lwey)
- Enhertu® (fam-trastuzumab deruxtecan-nxki)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- EnjaymoTM (sutimlimab)
- Entyvio® IV (vedolizumab)
- Enzyme Replacement Therapy for Fabry Disease
  - Elfabrio® (pegunigalsidase alfa-iwxj)
  - Fabrazyme® (agalsidase beta)
- Enzyme Replacement Therapy for Gaucher's Disease
  - Cerezyme® (imiglucerase)
  - Elelyso® (taliglucerase)
  - Vpriv® (velaglucerase alfa)
- Enzyme Replacement Therapy for Mucopolysaccharidosis (MPS)
  - Aldurazyme® (laronidase)
  - AvlayahTM (tividenofusp alfa-eknm)
  - Elaprase® (idursulfase)
  - Mepsevii™ (vestronidase alfa-vjbk)
  - Naglazyme® (galsulfase)
  - Vimizim™ (elosulfase alfa)
- Enzyme Replacement Therapy for Pompe Disease
  - Lumizyme® (alglucosidase alfa)
  - Nexviazyme® (avalglucosidase alfa-ngpt)
  - PombilitiTM (cipaglucosidase alfa-atga)
- EpkinlyTM (epcoritamab-bysp)
- Evenity® (romosozumab-aqqg)
- EvkeezaTM (evinacumab-dgnb)
- Exdensur™ (depemokimab-ulaa)

F

- FasenraTM (benralizumab)

G

- Gamifant® (emapalumab-lzsg)
- Garetosmab intravenous injection
- Gazyva® (obinutuzumab)
- General Drug Utilization Management Policy
- Givlaari® (givosiran)
- Golimumab Products
  - Simponi ARIA® (golimumab)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Immgolis INTRI™ (golimumab-sldi)

H

- Hemgenix® (etranacogene dezaparvovec-drlb)
- Hemophilia Class Policy
  - Advate
  - Adynovate
  - Afstyla
  - Alhemo
  - Alphanate
  - AlphaNine SD
  - Alprolix
  - Altuviiio
  - BeneFIX
  - Coagadex
  - Corifact
  - Eloctate
  - Esperoct
  - Feiba
  - Hemlibra
  - Hemofil M
  - Humate-P
  - Hympavzi
  - Idelvion
  - Ixinity
  - Jivi
  - Koate
  - Kogenate FS
  - Kovaltry
  - Mononine
  - Novoeight
  - NovoSeven RT
  - Nuwiq
  - Profilnine
  - Qfitlia

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Rebinyn
- Recombinate
- Rixubis
- Sevenfact
- Tretten
- Vonvendi
- Wilate
- Xyntha

- Herceptin HylectaTM (trastuzumab and hyaluronidase-oysk)
- Hereditary Angioedema Medications
  - Berinert® (c1 esterase inhibitor, human)
  - CinryzeTM (c1 esterase inhibitor, human)
  - Firazyr® (icatibant acetate)
  - Kalbitor® (ecallantide)
  - RuconestTM (c1 esterase inhibitor, recombinant)
- Hyaluronic Acid Intra-Articular Injections
  - Durolane
  - Euflexxa
  - Gel-One
  - Gelsyn-3
  - GenVisc 850
  - Hyalgan
  - Hymovis
  - Monovisc
  - Orthovisc
  - Supartz, FX
  - Synojoynt
  - Synvisc
  - Synvisc–One
  - Triluron
  - TriVisc

I

- Ilaris® (canakinumab)
- IlumyaTM (tildrakizumab-asmn)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- ImaavyTM (nipocalimab-aahu)
- ImdelltraTM (tarlatamab-dlle)
- Imfinzi™ (durvalumab)
- Imjudo® (tremelimumab-actl)
- Immune Globulin Replacement Therapy Medication Use Guidelines
  - AlygloTM (immune globulin intravenous (human-stwk) 10%)
  - AscenivTM (immune globulin (human– slra))
  - Bivigam® (immune globulin (human) 10%)
  - Carimune® NF (immune globulin (human))
  - Cutaquig® (immune globulin (human– hipp))
  - CuvitruTM (SC only) (immune globulin (human) 20%)
  - Flebogamma® DIF (immune globulin (human) 5% & 10%)
  - GamaSTAN® S/D (IM) (immune globulin (human))
  - Gammagard® Liquid (IV & SC) (immune globulin (human) 10%)
  - Gammagard Liquid ERC® (immune globulin (human) 10%)
  - Gammagard® S/D (immune globulin (human))
  - GammakedTM (IV & SC) (immune globulin (human) 10%)
  - Gammaplex® (immune globulin (human))
  - Gamunex®-C (IV & SC) (immune globulin (human) 10%)
  - Hizentra® (SC only) (immune globulin (human) 20%)
  - HyQvia® (SC only) (immune globulin (human) 10% with recombinant human hyaluronidase)
  - Octagam® (immune globulin (human))
  - Panzyga® (immune globulin (human– ifas))
  - Privigen® (immune globulin (human) 10%)
  - Qivigy® (immune globulin (human-kthm) 10%)
  - Xembify® (immune globulin (human–klhw))
  - Yimmugo® (IV only) (immune globulin (human-dira))
- Infliximab Policy
  - Avsola™ (infliximab-axxq)
  - Inflectra® (infliximab-dyyb)
  - Ixifi™ (infliximab-qbtx)
  - Infliximab (Remicade®)
  - Infliximab-abda
  - Renflexis® (infliximab-abda)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Zymfentra® (infliximab-dyyb)
- Injectable Antiemetic Products
  - Akynzeo® (fosnetupitant and palonosetron)
  - Aprepitant Injectable Emulsion
  - Cinvanti® (aprepitant)
  - FocinvezTM (fosaprepitant)
  - NavitruxTM (fosaprepitant)
  - Sustol® (granisetron) (subcutaneous formulation)
- InlexzoTM (gemcitabine)
- Intravenous Iron Replacement
  - Feraheme® (ferumoxytol)
  - Generic Ferrlect® (sodium ferric gluconate complex)
  - INFeD (iron dextran)
  - Injectafer® (ferric carboxymaltose)
  - Monoferric® (ferric derisomaltose)
  - Venofer® (iron sucrose)
- IzervayTM (avacincaptad pegol)

J

- Jemperli (dostarlimab-gxly)

K

- Kadcyla® (ado-trastuzumab emtansine)
- Kanuma™ (sebelipase alfa)
- KebilidiTM (eladocagene exuparvovec-tneq)
- KhapzoryTM (levoleucovorin)
- KisunlaTM (donanemab-azbt)
- Kresladi™ (marnetegragene autotemcel)
- Krystexxa® (pegloticase)
- KymriahTM (tisagenlecleucel)

L

- Lamzede® (velmanase alfa-tycv)
- LantidraTM (donislecel-jujn)
- Leqembi (lecanemab-irmb) - HCPCS: J0174
- Libtayo® (cemiplimab-rwlc)
- Loargys (pegzilarginase-nbln)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- LoqtorziTM (toripalimab-tpzi)
- LumvoaTM (veligrotug-vvze)
- Luxturna® (voretigene neparvovec-rzyl)
- LyfgeniaTM (lovotibeglogene autotemcel)
- LynozyficTM (linvoseltamab-gcpt)

M

- MargenzaTM (margetuximab-cmkb)
- Medical Benefit Oncology Drug Class Policy
  - Avgemsi™ (gemcitabine)
  - Alimta® (pemetrexed)
  - Aphexda (motixafortide)
  - Avopef™(etoposide)
  - Axtle (pemetrexed)
  - Beizray™ (docetaxel)
  - Bizengri® (zenocutuzumab-zbco)
  - Boruzu® (bortezomib)
  - Danyelza® (naxitamab-gqgk)
  - Cyramza® (ramucirumab)
  - Darzalex® (daratumumab)
  - Darzalex FasPro® (daratumumab and hyaluronidase-fihj)
  - Datroway® (datopotamab deruxtecan-dlnk)
  - Decnupaz (pivekimab sunirine-pvzy)
  - Docivyx® (docetaxel)
  - Elahere® (mirvetuximab soravtansine-gynx)
  - Elzonris® (tagraxofusp-erzs)
  - Emrelis™ (telisotuzumab vedotin-tllv)
  - Erbitux® (cetuximab)
  - Evdi (trabectedin)
  - Favlyxa™ (fluorouracil)
  - Frindovyx™ (cyclophosphamide)
  - Fyarro™ (sirolimus protein-bound particles)
  - Jelmyto® (mitomycin)
  - Kimmtrak® (tebentafusp-tebn)
  - Kyxata™ (carboplatin)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Lymphir™ (denileukin diftitox-cxdl)
- Padcev® (enfortumab vedotin-ejfv)
- Pemetrexed
- Pemfexy™ (pemetrexed)
- Pemrydi RTU® (pemetrexed)
- Polivy® (polatuzumab vedotin-piiq)
- Rybrevant® (amivantamab-vmjw)
- Rybrevant Faspro® (amivantamab and hyaluronidase-lpuj)
- Sarclisa® (isatuximab-irfc)
- Sarclisa Escena (isatuximab-irfc)
- Tivdak® (tisotumab vedotin-tftv)
- Trodelvy® (sacituzumab govitecan-hziy)
- Vivimusta® (bendamustine)
- Vykoura™(leucovorin calcium)
- Vyloy® (zolbetuximab-clzb)
- Yondelis® (trabectedin)
- Ziihera® (zanidatamab-hrii)
- Zusduri™ (mitomycin)
- Zynlonta® (loncastuximab tesirine-lpyl)

• Medications for Multiple Sclerosis
- BriumviTM (ublituximab-xiiy)
- Lemtrada® (alemtuzumab)
- Ocrevus® (ocrelizumab)
- Ocrevus Zunovo™ (ocrelizumab and hyaluronidase-ocsq)

• Mim8 (denecimig) injection
• Monjuvi® (tafasitamab-cxix)
• Monsunetuzumab Products
- LunsumioTM (mosunetuzumab-axgb)
- Lunsumio VELOTM (mosunetuzumab-axgb)

N

• Nab-Paclitaxel; Paclitaxel Protein-Bound Particles
• Nanoencapsulated Sirolimus plus Pegadricase (NASP) intravenous injection
• Natalizumab Products
- Tyruko® (natalizumab-sztn)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

    - Tysabri® (natalizumab)
- Nebulizers for Chronic Obstructive Pulmonary Disease
    - Formoterol fumarate (Perforomist®)
    - Yupelri® (revefenacin)
- Niktimvo™ (axatilimab-csfr)
- Nivolumab Products
    - Opdivo® (nivolumab)
    - Opdivo QvantigTM (nivolumab and hyaluronidase-nvhy)
- Nplate® (romiplostim)
- Nucala® (mepolizumab)
- Nulibry® (fosdenopterin)

O

- OhtuvayreTM (ensifentrine)
- Omalizumab Products
    - Omalizumab-igec
    - Omlyclo® (omalizumab-igec)
    - Xolair ® (omalizumab)
- Omisirge® (omidubicel-onlv)
- Omvoh™ IV (mirikizumab-mrkz)
- Onasemnogene abeparvovec Products
    - Itvisma® (onasemnogene abeparvovec-brve)
    - Zolgensma® (onasemnogene abeparvovec)
- Onivyde® (liposomal irinotecan)
- Onpattro® (patisiran)
- OpdualagTM (nivolumab and relatlimab-rmbw)
- Orencia® (abatacept)
- OtarmeniTM (lunsotogene parvec-cwha)
- Oxlumo® (lumasiran)

P

- PapzimeosTM (zopapogene imadenovec-drba)
- PasatruTM (garetosmab-grts)
- Pembrolizumab Products
    - Keytruda® (pembrolizumab)
    - Keytruda Qlex (pembrolizumab and berahyaluronidase alfa-pmph)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Pertuzumab Products
  - Perjeta® (pertuzumab)
  - Poherdy® (pertuzumab-dpzb)
- PhesgoTM (pertuzumab, trastuzumab and hyaluronidase–zzxf)
- PiaSky® (crovalimab-akkz)
- PluvictoTM (lutetium Lu 177 vipivotide tetraxetan)
- Poteligeo® (mogamulizumab-kpkc intravenous injection)
- Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Inhibitors
- Pulmonary Arterial Hypertension Products
  - Flolan® (epoprostenol)
  - Remodulin® (treprostinil)
  - Tyvaso® (treprostinil)
  - Uptravi® (selexipag)
  - Veletri® (epoprostenol)
  - Winrevair™ (sotatercept-csrk)

Q

- QalsodyTM (tofersen)

R

- Radicava® (edaravone)
- Ranibizumab Policy
  - ByoovizTM (ranibizumab-nuna)
  - CimerliTM (ranibizumab-eqrn)
  - Lucentis® (ranibizumab)
  - Nufymco® (ranibizumab-leyk)
  - Ranibizumab-nuna
  - RanluspecTM (ranibizumab-hkdz)
  - SusvimoTM (ranibizumab)
- Reblozyl® (luspatercept-aamt)
- Rebyota® (fecal microbiota, live-jslm)
- Rituximab Class Policy
  - RiabniTM (rituximab-arrx)
  - Rituxan® (rituximab)
  - Rituxan Hycela® (rituximab and hyaluronidase human)
  - RuxienceTM (rituximab-pvvr)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- TruximaTM (rituximab-abbs)
- RivflozaTM (nedosiran)
- RoctavianTM (valoctocogene roxaparvovec)
- Ryoncil® (remestemcel-L)
- Ryplazim® (plasminogen)
- Rystiggo® (rozanolixizumab-noli)
- RyteloTM (imetelstat)

S

- SaphneloTM (anifrolumab-fnia)
- Scenesse® (afamelanotide injectable implant)
- Skyrizi™ (risankizumab-rzaa)
  - Skyrizi SC
  - Skyrizi IV
- Spevigo® (spesolimab-sbvo)
- Spinraza® (nusinersen)
- SyfovreTM (pegcetacoplan)

T

- TalveyTM (talquetamab-tgvs)
- TecartusTM (brexucabtagene autoleucel)
- Tecelra® (afamitresgene autoleucel)
- TepezzaTM (teprotumumab-trbw)
- Tevimbra® (tislelizumab-jsgr)
- TezspireTM (tezepelumab-ekko)
- Tocilizumab Products
  - Actemra® (tocilizumab)
  - Avtozma® (tocilizumab-anoh)
  - Tocilizumab-aazg
  - Tocilizumab-anoh
  - Tofidence™ (tocilizumab-bavi)
  - Tyenne™ (tocilizumab-aazg)
- Trastuzumab Class Policy
  - Herceptin® (trastuzumab)
  - HercessiTM (trastuzumab-strf)
  - Herzuma® (trastuzumab-pkrb)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- KanjintiTM (trastuzumab-anns)
- Ogivri™ (traztuzumab-dkts)
- Ontruzant® (trastuzumab-dttb)
- Trastuzumab-pkrb
- TrazimeraTM (trastuzumab-qyyp)

- Tregzi™ (allogeneic regulatory T cell immunotherapy with HSPC and T cells-vldq)
- Tremfya® IV (guselkumab)
- Trogarzo® (ibalizumab-ulyk)
- TzieldTM (teplizumab-mzwv)

U

- Ultomiris® (ravulizumab)
- UnloxcytTM (cosibelimab-ipdl)
- UpliznaTM (inebilizumab)
- Ustekinumab Products
  - Imuldosa™ (ustekinumab-srlf)
  - Otulfi™ (ustekinumab-aauz)
  - Pyzchiva® (ustekinumab-ttwe)
  - Selarsdi™ (ustekinumab-aekn)
  - Starjemza (ustekinumab-hmny)
  - Stelara® (ustekinumab)
  - Steqeyma® (ustekinumab-stba)
  - Ustekinumab
  - Ustekinumab-aauz
  - Ustekinumab-aekn
  - Ustekinumab-auub
  - Ustekinumab-srlf
  - Ustekinumab-stba
  - Ustekinumab-ttwe
  - Wezlana™ (ustekinumab-auub)
  - Yesintek™ (ustekinumab-kfce)

V

- VabysmoTM (faricimab-svoa)
- Vectibix® (panitumumab)
- VeopozTM (pozelimab-bbfg)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- VyjuvekTM (beremagene geperpavec-svdt)

W

- Wainua™ (eplontersen)
- WaskyraTM (etuvetidigene autoemcel)

X

- XenpozymeTM (olipudase alfa-rpcp)

Y

- Yartemlea® (narsoplimab-wuug)
- Yervoy® (ipilimumab)
- YescartaTM (axicabtagene ciloleucel)

Z

- ZevaskynTM (prademagene zamikeracel)
- Zilganersen injection
- Zilretta® (triamcinolone acetonide extended-release)
- ZinplavaTM (bezlotoxumab)
- Zynteglo® (betibeglogene autotemcel)
- ZynyzTM (retifanlimab-dlwr)

Abecma® (idecabtagene vicleucel)
HCPCS: Q2055

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes
Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Abecma is a B-cell maturation antigen (BCMA)-directed genetically modified autologous T-cell immunotherapy indicated for the treatment of adult patients with relapsed or refractory multiple myeloma after two or more prior lines of therapy, including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody.

- Safety and efficacy for use as third-line therapy in relapsed or refractory multiple myeloma was established in the KarMMa-3 trial, an open-label, phase 3 study of 386 patients with replased/refractory multiple myeloma who had received at least two prior lines of therapy that included an immunomodulatory agent, a proteasome inhibitor and an anti-CD38 antibody. The study excluded patients with an ECOG score of 2 or greater, a creatinine clearance of less than or equal to 45 mL/minute, alanine aminotransferase greater than 2.5 times upper limit of normal, and left ventricular ejection fraction less than 45%. Patients were also excluded if absolute neutrophil count less than 1000 cells/mm^3 and platelet count less than 75,000/mm^3. Patients were required to have measurable disease. The primary endpoint was progression free survival (PFS). The median PFS was 13.3 months in the Abecma group compared with 4.4 months in the standard-regimen group (hazard ratio for disease progression or death, 0.49; 95% confidence interval: 0.38, 0.65; p-value < 0.001). A response occurred in 71% of the patients in the Abecma group and in 42% of those in the standard-regimen group (p-value < 0.001); a complete response occurred in 39% and 5%, respectively.

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- While use of Abecma has not been established in patients with a creatinine clearance of less than 45 mL/minute, other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Abecma should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 mL/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. While Abecma has only been studied in patients with a LVEF greater than or equal to 45%, there is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Abecma should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Abecma [prescribing information]. Summit, NJ: Celgene Corporation, a Bristol-Myers Squibb Company; November 2025.
2. National Comprehensive Cancer Network. Multiple myeloma (Version 5.2026). 2026 Jan 9. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on March 1, 2026.
3. Munshi NC, Anderson Jr LD, Shah N, et al. Idecabtagene vicleucel in relapsed and refractory multiple myeloma. NEJM. 2021 Feb 25; 384 (8): 705 - 16.
4. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 6, 2022.
5. Rodriguez-Otero P, Ailawadhi S, Arnulf B, et al. Ide-cel or standard regimens in relapsed and refractory multiple myeloma. NEJM. 2023 March 16; 388: 1002 – 14.

Policy History		
#	Date	Change Description
1.9	Effective Date: 06/01/2026 P&T Date: 04/16/2026	Updated to remove no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, liver function testing, platelet counts, no secondary malignancies, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, and no clinically significant CNS disease. Also added requirements of no active infection, no prior allogenic stem cell transplant, no prior autologous stem cell transplant within 12 weeks, and updated the approval length to 6 months
1.8	Effective Date: 06/05/2025	Updated to change the provider portal from Audaire Health to the appropriate provider portal
1.7	Effective Date: 06/06/2024	Updated to include the new indication for use as third line therapy
1.6	Effective Date: 10/12/2023	Updated to include preliminary criteria to allow use as third line therapy
1.5	Effective Date: 06/08/2023	Updated to require physicians provide clinical outcomes data using the Audaire Health platform
1.4	Effective Date: 08/04/2022	Updated to align criteria across all CAR-T policies
1.3	Effective Date: 08/12/2021	New policy This policy replaces previously approved criteria that was embedded in Chimeric Antigen Receptor-T Cell Class policy which will be retired

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 05/06/2021</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 04/20/2021</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 04/05/2021</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Adakveo® (crizanlizumab-tmca)
HCPCS: J0791

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Sickle cell disease (SCD) is a recessive hemolytic anemia caused by a mutation in the β-globin gene. It is characterized by the formation of sickle hemoglobin (HbS). HbS is less soluble and less elastic than fetal hemoglobin (HbF) or normal adult hemoglobin (HbA). The disease involves multicellular adhesion between sickled red blood cells, white blood cells, platelets, and endothelial cells resulting in vaso-occlusive crises (VOCs). VOCs are the hallmark of SCD and are experienced by approximately 70% of patients. They are recurring, unpredictable, painful events that decrease organ function with complications including stroke, pneumonia, vision loss, pulmonary hypertension, leg ulcers, and sepsis. VOCs are often treated as an emergency requiring acute care and are the number one reason patients with SCD visit the emergency room or are hospitalized.

- Hydroxyurea is a ribonucleotide reductase inhibitor which increases the amount of circulating HbF in the body and has been a mainstay of therapy. It also has been shown to lower the number of circulating leukocytes and reticulocytes altering the expression of adhesion molecules; raise red blood cell (RBC) volume; and improve cellular deformability and rheology, all of which contribute to a decrease in VOCs. The 2014 National Heart, Lung, and Blood Institute Evidence-Based Management of Sickle Cell Disease Guidelines recommend the use of hydroxyurea for the following patient populations:

    - In adults with SCD who have three or more sickle cell-associated moderate to severe pain crises in a 12-month period
    - In adults with SCD who have sickle cell-associated pain that interferes with daily activities and quality of life
    - In adults with SCD who have a history of severe and/or recurrent acute coronary syndrome
    - In adults with SCD who have severe symptomatic chronic anemia that interferes with daily activities or quality of life
    - In infants 9 months of age and older, children, and adolescents with SCD, offer treatment with hydroxyurea regardless of clinical severity to reduce complications
    - In adults and children with SCD who have chronic kidney disease and are taking erythropoietin

- The guidelines recommend starting hydroxyurea at a dose of 15 mg/kg/day for adults and increasing the dose by 5 mg/kg/day every 8 weeks to a maximum dose of 35 mg/kg/day. A clinical response to therapy may take 3 – 6 months. Therefore, a 6 month trial on the maximum tolerated dose is required prior to considering discontinuation due to treatment failure, whether due to lack of adherence or failure to respond to therapy.

- Adakveo is a monoclonal antibody that is indicated to reduce the frequency of VOCs in adults and pediatric patients aged 16 years and older with sickle cell disease. It binds to P-selectin and blocks interactions between endothelial cells, platelets, RBCs, and leukocytes. P-selectin plays a role in the formation of the multicellular aggregates that lead to VOCs.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The efficacy of Adakveo was evaluated in the SUSTAIN trial, a randomized, multicenter, placebo-controlled, double-blind trial of 198 patients with sickle cell disease of any genotype and a history of 2 - 10 VOCs in the previous 12 months. Patients were excluded if they were receiving long-term red blood cell transfusions. The primary endpoint was the annual rate of VOCs leading to a healthcare visit. Acute chest syndrome, hepatic sequestration, splenic sequestration, and priapism (requiring a visit to a medical facility) were also considered VOCs. Patients receiving Adakveo 5 mg/kg, had a lower median annual rate of VOC compared to those receiving placebo (1.63 vs. 2.98, p-value = 0.01) indicating a 45.3% lower rate with Adakveo. Thirty-six percent of patients treated with Adakveo did not experience a VOC compared to 17% in the placebo arm. The median time to first VOC from randomization was 4.1 months vs. 1.4 months in the Adakveo and placebo arm, respectively.

References:

1. Adakveo [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals Corp; June 2024.
2. Ataga KI, Kutlar A, Kanter J, et al. Crizanlizumab for the prevention of pain crises in sickle cell disease. New Engl J Med. 2017; 376 (5): 429 – 439.
3. Ogedegbe HO. Sickle cell disease: an overview. Laboratory Medicine. 2002; 33(7): 515 – 543.
4. Yale SH, Nagib N, & Guthrie T. Approach to the vaso-occlusion crisis in adults with sickle cell disease. Am Fam Physician. 2000; 61(5): 1349 – 1356.
5. Kanter J & Kruse-Jarres R. Management of sickle cell disease from childhood through adulthood. Blood Rev. 2013; 27(6): 279 – 287.
6. Brousseau DC, Panepinto JA, Nimmer M, et al. The number of people with sickle-cell disease in the United States: national and state estimates. Am J Hematol. 2010; 85(1): 77 – 78.
7. National Heart, Lung, and Blood Institute. Evidence-based management of sickle cell disease: expert panel report, 2014. Available at: https://www.nhlbi.nih.gov/sites/default/files/publications/56-364NFULL.pdf. Accessed on: October 4, 2020.

Policy History		
#	Date	Change Description
1.9	Effective Date: 12/4/2025	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 12/12/2024	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 12/14/2023	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 12/01/2022	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 12/09/2021	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 12/03/2020	Updated to include a trial and failure of hydroxyurea, the trial and failure of preferred products statement, and updated the approval duration to 1 year

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 03/16/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 02/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 01/02/2020</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/05/2019</td><td>New full drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Adrabetadex injection
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- NPC is a rare genetic disease that results in progressive neurological symptoms and organ dysfunction
- It is caused by changes in either the NPC1 or NPC2 gene and affects the necessary transport of cholesterol and other lipids within a cell
- As a result, these cells do not function as they should, ultimately causing organ damage
- Infantile-onset NPC refers to NPC in infants and children who first experience neurological symptoms between 0 and 6 years of age
- Earlier neurological onset is associated with more rapid progression and poorer prognosis
- Children with infantile-onset NPC can experience delayed or missed development milestones, loss of previously acquired skills, sudden and temporary loss of muscle tone, clumsiness. and vertical supranuclear gaze palsy
- On average, individuals affected by this devastating disease only live for about 13 years
- Disease management in NPC centers around supportive care which includes physical therapy, gastrostomy tube placement, and the use of medications to treat seizures, dystonia, and cataplexy
- The 2018 Consensus Clinical Management Guidelines for Niemann-Pick Disease Type C recommend the consideration of miglustat for all patients with NPC and neurological manifestations of the disease
- Miglustat should be started prior to a patient experiencing neurological symptoms as they may remain asymptomatic for years
- Miglustat has been shown to decrease lipid storage, improve endosomal uptake, and normalize lipid trafficking in B lymphocytes, however, clinical trials have not shown statistically significant improvement or stability with the use of miglustat in NPC patients
- Guidelines have yet to be updated with Aqneursa or Miplyffa

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Beren Therapeutics. FDA grants breakthrough therapy designation to investigational drug adrabetadex for individuals with infantile-onset niemann-pick disease type C. 2025 Dec 9. Available at: https://www.berentx.com/news/adrabetadex-receives-breakthrough-designation-by-fda. Accessed on April 9, 2026.
2. Clinicaltrials.gov. Adrabetadex to treat niemann-pick type C1 (NPC1) disease (NCT04958642). Available at: https://clinicaltrials.gov/study/NCT04958642?tab=researcher. Accessed on April 9, 2026.
3. Clinicaltrials.gov. VTS-270 to treat niemann-pick type C1 (NPC1) disease (NCT02534844). Available at: https://clinicaltrials.gov/study/NCT02534844?term=NCT02534844&viewType=Card&rank=1&tab=researcher. Accessed on April 9, 2026.
4. Clinicaltrials.gov. Niemann-pick type C treatment with adrabetadex for symptoms of brain and nervous system (NCT03643562). Available at: https://clinicaltrials.gov/study/NCT03643562?term=NCT03643562&viewType=Card&rank=1. Accessed on April 9, 2026.
5. Clinicaltrials.gov. Open-label study of VTS-270 in participants with neurologic manifestations of niemann-pick type C1 (NCT03879655). Available at: https://clinicaltrials.gov/study/NCT03879655?term=NCT03879655&viewType=Card&rank=1&tab=researcher. Accessed on April 9, 2026.
6. Porter F, Keller L, Jiao L, et al. O02: survival, clinical, and biomarker data support the efficacy of intrathecal adrabetadex in niemann-pick disease type C. Genetics Med. 2026; 4 (1): 104287.
7. Mengel E, Patterson M, Guenther S, et al. Efficacy results from a 12-month double-blind randomized trial of arimoclomol for the treatment of niemann-pick disease type C – presenting a rescored 4-domain NPC clinical severity scale. Available at: https://zevra.com/wp-content/uploads/WORLD-2025-Poster-Arimoclomol-R4DNPCCSS.pdf. Accessed on April 9, 2026.
8. National Organization of Rare Disorders. Niemann Pick disease type C. 2024 Sept 25. Available at: https://rarediseases.org/rare-diseases/niemann-pick-disease-type-c/. Accessed on April 9, 2026.
9. Geberhiwot T, Moro A, Dardis A, et al. Consensus clinical management guidelines for Niemann-Pick disease type C. Orphanet J Rare Dis. 2018 April 6; 13 (50): https://doi.org/10.1186/s13023-018-0785-7.
10. Patterson MC, Clayton P, Gissen P, et al. Recommendations for the detection and diagnosis of Niemann-Pick disease type C. 2017 Oct 24; 7 (6): 499 – 511.
11. Patterson MC, Hendriksz CJ, Walterfang M, et al. Recommendations for the diagnosis and management of Niemann–Pick disease type C: an update. 2012 July; 106 (3): 330 – 44.

Policy History

#	Date	Change Description
1.0	Effective Date: 06/11/2026	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Adstiladrin® (nadofaragene firadenovec-vncg)
HCPCS: J9029

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bladder cancer is one of the more common forms of cancer. Approximately 75% - 80% of newly diagnosed bladder cancers are classified as NMIBC – a type of cancer that has grown through the lining of the bladder but hasn't yet invaded the muscle layer. This type of cancer is associated with high rates of recurrence (between 30 to 80%) and the risk of progression to invasive and metastatic disease.

- Treatment and care of patients with high-risk NMIBC, including those with CIS, often involves removing the tumor followed by BCG bladder instillation therapy to reduce the risk of recurrence. Few effective treatment options exist for patients who develop BCG-unresponsive disease. The failure to achieve a complete response, or the disappearance of all signs of cancer as seen on cystoscopy, biopsied tissue, and urine, is associated with an increased risk of death or a disease-worsening event.

- Adstiladrin is a non-replicating adenoviral vector-based gene therapy indicated for the treatment of adult patients with high-risk BCG-unresponsive NMIBC with CIS with or without papillary tumors. It offers an additional treatment option in a historically limited space.

- The 2025 National Comprehensive Cancer Network Bladder Cancer Treatment Guidelines recommend TURBT for staging followed by a single dose of intravesicular mitomycin or gemcitabine as the first step in treatment. Following the tumor evaluation, if the tumor is considered high-grade, BCG is the preferred adjuvant therapy and intravesicular mitomycin or gemcitabine provide additional options to those who aren't candidates for BCG therapy. BCG is typically given weekly for 6 weeks at induction followed by maintenance of 3 weekly instillations at month 3, 6, 12, 18, 24, 30, and 36. Two 6-week BCG induction courses should be completed before the patient is considered non-responsive to the therapy. If patients have had recurrence or are considered non-responsive to BCG therapy, cystectomy, Keytruda®, Anktiva®, or Adstiladrin are currently recommended as second-line therapies.

- Safety and efficacy were evaluated in CS-003, an open-label, multicenter, single-arm trial in 157 adults with BCG-unresponsive, high-risk, NMIBC with CIS with or without papillary tumors following transurethral resection, of whom 98 were considered evaluable for response. BCG-unresponsive high-risk NMIBC was defined as persistent disease following adequate BCG therapy, disease recurrence after an initial tumor-free state following adequate BCG therapy, or T1 disease following a single induction course of BCG. Adequate BCG was defined as the administration of at least five of six doses of an initial induction course plus either at least two of three doses of maintenance therapy or at least two of six doses of a second induction course. Patients were excluded from the trial if they had an ECOG score greater than 2 or had concomitant upper tract urothelial carcinoma or urothelial carcinoma within the prostatic urethra. All visible papillary tumors were resected and those with persistent T1 disease on TURBT should undergo an additional re-TURBT within 14 to 60 days prior to beginning therapy. Patients received Adstiladrin once every three months for up to 12 months, until unacceptable toxicity, or recurrent high-grade NMIBC. Overall, 51% of enrolled patients using Adstiladrin therapy achieved a complete response and median duration of response was 9.7 months. Forty-six percent of responding patients remained in complete response for at least one year.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Adstiladrin [prescribing information]. Kastrup, Denmark: Ferring Pharmaceuticals; October 2025.
2. Boorjian SA, Alemozaffar M, Konet BR, et al. Intravesical nadofaragene firadenovec gene therapy for BCG-unresponsive non-muscle-invasive bladder cancer: a single-arm, open-label, repeat-dose clinical trial. Lancet Oncol. 2021 Jan; 22 (1): 107 - 17.
3. National Comprehensive Cancer Network. Bladder cancer (Version 3.2025). 2025 Dec 19. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed on March 1, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 04/16/2026</td><td>Updated to include the provider portal statement and the statement that all newly approved indications will be reviewed on a case by case basis until reviewed by the P&T committee</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/12/2026</td><td>Updated to clarify BCG unresponsive disease requirements</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>Updated to remove requirements that all visible papillary tumors must be resected and those with persistent T1 disease on transurethral resection of bladder tumor (TURBT) should undergo an additional re-TURBT within 14 to 60 days prior to beginning Adstiladrin and patient must not have concomitant upper tract urothelial carcinoma or urothelial carcinoma within the prostatic urethra</td></tr>
<tr><td>1.2</td><td>Effective Date: 10/12/2023</td><td>Updated to include a urologist as part of the prescriber requirements</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/01/2023</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
02/02/2023</td>
<td>New policy - replaces previously approved preliminary criteria
UM medical management system update for BCBSM and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Adzynma (ADAMTS13, recombinant-krhn)
HCPCS: J7171

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Congenital thrombotic thrombocytopenic purpura (cTTP) is an autosomal recessive disorder caused by biallelic mutations on the ADAMTS13 gene. It is characterized by less than 10% ADAMTS13 enzyme activity and the accumulation of ultra-large von Willebrand factor (VWF). The buildup of ultra-large VWF multimers leads to uncontrolled platelet aggregation, platelet adhesion, and abnormal clotting in the small blood vessels. cTTP often causes seemingly mild and nonspecific symptoms such as lethargy, headache, loss of concentration, and abdominal discomfort. In many patients, symptoms are ongoing without a clear time of onset or resolution. Thrombocytopenia and microangiopathic hemolytic anemia can occur, but neurologic symptoms can occur without thrombocytopenia or anemia, and thrombocytopenia may occur without apparent hemolysis. Acute, severe exacerbations are uncommon but may be life-threatening without appropriate treatment. Exacerbations of the disease can be triggered during the neonatal period, pregnancy, infections, or surgeries although none of these has to occur for an acute attack to happen.

- The 2020 International Society on Thrombosis and Haemostasis (ISTH) good practice statements for the clinical care of patients with thrombotic thrombocytopenic purpura (TPP) state TTP should be considered in individuals presenting with thrombocytopenia and microangiopathic hemolytic anemia. cTTP should be suspected in individuals with any of the following presentations: severe neonatal hyperbilirubinemia, recurrent thrombocytopenia in a child or young adult, transient neurologic symptoms of stroke in a child or young adult, embolic stroke of undetermined source, or new onset TTP and absence of an ADAMTS13 inhibitor. Once suspected, patients should be tested for decreased ADAMTS13 enzyme activity, and if the enzymatic activity is less than 10% of normal without ADAMTS13 antibodies, genetic testing showing biallelic mutations in the ADAMTS13 gene will be confirmatory of cTPP.

- The standard of care for cTTP up until now has been plasma transfusions. Plasma transfusions allow for rapid replacement of ADAMTS13 during an acute attack and can be used prophylactically to minimize the risk of future attacks. The main complications of plasma infusion are allergic reactions. These may be treated or prevented using antihistamines. If allergic reactions are severe, other therapies, such as, a plasma-derived factor VIII concentrate that contains ADAMTS13 may be used.

- Adzynma provides an additional treatment option for cTTP. It is a human recombinant ADAMTS13 indicated for prophylactic or on demand enzyme replacement therapy (ERT) in adult and pediatric patients with cTTP.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy of Adzynma were evaluated in a Phase III, randomized, controlled, open-label, crossover, trial of 46 patients with cTTP. Patients were randomized to receive 6 months of treatment with either 40 IU/kg Adzynma or plasma-based therapies during the first period of the trial and then crossed over to receive the other treatment for 6 months during the second period. The mean annualized event rate of thrombocytopenia manifestations was 2.0 for patients receiving Adzynma (9 of 37 patients) compared to 4.44 in patients receiving plasma-based therapies (19 of 38 patients). Pharmacokinetic results showed patients (n = 23) receiving 40 IU/kg Adzynma IV achieved a four- to five-fold increase in ADAMTS13 enzyme activity after a single infusion compared to plasma-based therapies.

- Adzynma has not been studied and there is no data to support use in combination with other medications or treatment modalities used to treat cTTP.

References:

1. Adzynma [prescribing information]. Lexington, MA: Takeda Pharmaceuticals U.S.A., Inc.; June 2024.
2. Kremer Hovinga JA & George JN. Hereditary thrombotic thrombocytopenic purpura. NEJM. 2019 Oct 24; 381 (17): 1653 – 62.
3. Alwan F, Vendramin C, Liesner R, et al. Characterization and treatment of congenital thrombotic thrombocytopenic purpura. Blood. 2019 Apr 11; 133 (15): 1644 - 51.
4. Borogovac A & George JN. Stroke and myocardial infarction in hereditary thrombotic thrombocytopenic purpura: similarities to sickle cell anemia. Blood Adv. 2019; 3 (23): 3973 - 6.
5. Hamroun A, Prouteau C, & Provôt F. Hereditary thrombotic thrombocytopenic purpura. NEJM. 2020 Jan 23; 382 (4): 392 - 3.
6. Page EE, Kremer Hovinga JA, Terrell DR, et al. Thrombotic thrombocytopenic purpura: diagnostic criteria, clinical features, and long-term outcomes from 1995 through 2015. Blood Adv. 2017 Apr 6; 1 (10): 590 - 600.
7. Zheng XL, Vesely SK, Cataland SR, et al. ISTH guidelines for treatment of thrombotic thrombocytopenic purpura. J Thromb Haemost. 2020 Oct; 18: 2496 – 502.
8. Clinicaltrials.gov. A study of BAX 930 in children, teenagers, and adults born with thrombotic thrombocytopenic purpura (TTP) (NCT03393975). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03393975. Accessed on November 13, 2023.
9. Clinicaltrials.gov. A study of TAK-755 in participants with congenital thrombotic thrombocytopenic purpura (NCT04683003). Available at: https://classic.clinicaltrials.gov/ct2/show/study/NCT04683003. Accessed on November 13, 2023.

Policy History		
#	Date	Change Description
1.4	Effective Date: 12/4/2024	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 12/12/2024	Annual review of criteria was performed, no changes were made
1.2	Effective Date: 03/01/2024	UM medical management system update for MAPPO and BCNA

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td></td><td>
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
<tr><td>1.1</td><td>Effective Date: 12/14/2023</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 11/30/2023</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Aflibercept Products

Aflibercept-yszy - HCPCS: Q5153
Ahzantive™ (aflibercept-mrbb) **- HCPCS: Q5150**
Enzeevu™ (aflibercept-abzv) **- HCPCS: Q5149**
Eydenzelt® (aflibercept-boav) **- HCPCS: Q5170**
Eylea® (aflibercept) **- HCPCS: J0178**
Eylea® HD (aflibercept) **- HCPCS: J0177**
Opuviz™ (aflibercept-yszy) **- HCPCS: Q5153**
Pavblu™ (aflibercept-ayyh) **- HCPCS: Q5147**
Yesafili™ (aflibercept-jbvf) **- HCPCS: Q5155**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Intravitreal injections of anti-vascular endothelial growth factor (VEGF) have been widely used by ophthalmologists to treat a variety of ocular diseases. They are injected directly into the eye to prevent the formation of new blood vessels and reduce blood vessel leakage and inflammation. Eylea is currently approved to treat the following indications: diabetic macular edema (DME), diabetic retinopathy (DR), macular edema due to retinal vein occlusion (RVO), neovascular (wet) age related macular degeneration (AMD), and ROP. Eylea HD is currently approved for use in wet AMD, DME, and DR. Ahzantive, Opuviz, Pavblu, and Yesafili are approved for use in wet AMD, RVO, DME, and DR. Enzeevu is approved for use in wet AMD.

- Age-related Macular Degeneration

    - Age-related macular degeneration is a degenerative disease of the macula that results primarily in loss of central vision. Wet AMD is characterized by growth of abnormal vessels into the subretinal space. These abnormal blood vessels leak leading to collections of subretinal fluid and/or blood beneath the retina. The 2024 American Academy of Ophthalmologists (AAO) Age-Related Macular Degeneration Preferred Practice Pattern Guidelines recommend observation and early detection, antioxidant vitamin and mineral supplements, and intravitreal injections of anti-VEGF agents for the management of wet AMD. Guidelines recommend Eylea, Avastin®, VabysmoTM, or Lucentis® for treatment. The guidelines have not been updated with Beovu®, Byooviz™, and Susvimo™.

- Diabetic retinopathy and Diabetic Macular Edema

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- DR and DME are common complications and the ocular manifestations of end-organ damage in diabetes mellitus. The 2024 AAO Diabetic Retinopathy Preferred Practice Pattern Guidelines state the goals of therapy for DR and DME include improvement or stabilization of visual function, improvement in vision-related quality of life, and optimal control of blood glucose, blood pressure, and other metabolic risk factors. Patients should always be treated with anti-VEGF therapy if they have severe non-proliferative DR or proliferative DR with center-involved macular edema. In cases of mild to moderate non-proliferative DR with center-involved macular edema, patients should also receive intravitreal injections. The guidelines support the use of Lucentis, Eylea, Vabysmo, and Avastin. AAO recommendations were based on trials comparing Eylea, Avastin, and Lucentis to focal laser treatment. All trials showed that treatment with VEGF inhibitors resulted in statistically and clinically significant improvements in visual acuity in patients with DME after one to two years compared to laser treatment.

- Retinal Vein Occlusion

  - Retinal vein occlusion occurs when there is partial or complete obstruction of a retinal vein. Vision loss can occur with RVO and is associated with macular ischemia or edema, retinal hemorrhages, vitreous hemorrhage, or epiretinal membrane formation. The 2024 AAO Retinal Vein Occlusions Preferred Practice Pattern Guidelines recommend anti-VEGF therapy as first-line treatment for macular edema caused by RVO. The guidelines support the use of Lucentis, Eylea, and Avastin. The guidelines state VEGF inhibitors, Eylea, Avastin, and Lucentis, are more effective than sham injection or laser therapy in maintaining or improving visual acuity in patients with macular edema secondary to RVO.

- There are very few randomized control trials that assess the efficacy of one anti-VEGF therapy over another. Of the two that are available, Avastin, Eylea, and Lucentis were all shown to be non-inferior to each other, and because of this, choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability. However, a 2015 study conducted by Wells, et al. did show Eylea was superior to Avastin therapy when patients had a visual acuity of less than or equal to 20/50. In addition, a sub-cohort analysis of the YOSEMITE and RHINE trials showed Vabysmo demonstrated BCVA gains similar to aflibercept, while demonstrating numerically greater improvements in anatomic outcomes at years 1 and 2. Therefore, in these scenarios Avastin should not be used prior to Eylea or Vabysmo.

- Retinopathy of Prematurity

  - ROP is a developmental vascular proliferative disorder that occurs in the retina of preterm infants with incomplete retinal vascularization and is an important cause of severe visual impairment in childhood. There have been over 50 different risk factors identified for development of ROP. The most common are low birth weight and low gestational age. ROP typically begins approximately 34 weeks post-menstrual age (PMA), although it may be seen as early as 30 to 32 weeks. It advances irregularly until 40 to 45 weeks PMA but resolves spontaneously in the majority of infants. Ocular outcome is typically poor in infants with severe untreated ROP. Among untreated eyes, poor structural outcomes occurred in 3.1% of eyes, and poor Snellen visual acuity occurred in 5.1% of eyes.

  - Pathogenesis is thought to occur in two steps. First, an initial injury caused by factors such as hypotension, hypoxia, or hyperoxia, with free radical formation, injures newly developing blood vessels and disrupts normal angiogenesis. Following this disruption, vessels either resume normal growth or new vessels grow abnormally out from the retina into the vitreous. Increased permeability of these abnormal new vessels can result in retinal edema and hemorrhage. Abnormal fibrovascular tissue may develop along with the neovascularization and later contract, producing traction on the retina. In some severe cases, this results in retinal distortion or retinal detachment. However, in most instances, the abnormal vascular tissue regresses with little residual effect.
  - The International Classification for Retinopathy of Prematurity (ICROP) provides a uniform approach to documenting the extent and severity of disease. Four features are evaluated:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Zone: describes the disease location on the retinal surface in relation to the disc, from the central zone (I) to the outer crescent (zone III)
  - Stage: describes the severity from mildest disease (flat white line of demarcation (stage 1)) to most severe (total retinal detachment (stage 5))
  - Extent: described by dividing the retinal surface in 12 sections, similar to hours of a clock
  - Presence or absence of plus disease, the most important indicator of disease severity. Pre-plus disease is an intermediate state between normal posterior pole vessels and plus disease. Plus disease is characterized by abnormal dilation and tortuosity of the posterior pole vessels.

- Treatment is initiated when the infant develops high-risk pre-threshold ROP, also called type I ROP. Type I ROP is defined as any of the following:
  - Any stage ROP with plus disease in zone I
  - Stage 3 ROP without plus disease in zone I
  - Stage 2 or 3 ROP with plus disease in zone II
- Treatment may consist of retinal ablative therapy with laser photocoagulation or intravitreal injection of an anti-VEGF agent. Eylea is the only FDA approved anti-VEGF for ROP although Avastin and Lucentis have also been used off-label for this patient population. The choice between the two treatment modalities is largely based on the experience and preference of the treating ophthalmologist and the preferences of the patient's caregiver. Treatment should be undertaken as soon as is practicable and, generally, should not be delayed beyond 72 hours following diagnosis.
- Approval of Eylea for ROP was based on data from two randomized, global, Phase III trials, FIREFLEYE (n = 113) and BUTTERFLEYE (n = 120), which compared Eylea to laser photocoagulation in infants with ROP. Patients had to have a maximum gestational age of 32 weeks or a maximum birth weight of 1500 grams. They also had to weigh greater than 800 grams on the day of treatment. Patients also had to meet criteria for type I ROP. Eylea did not meet the goal of noninferiority to laser treatment at 52 weeks in either trial, although about 80% of infants treated with Eylea achieved an absence of active ROP in each trial.
- For patients who fail to achieve ROP regression with the initial therapy and for those in whom vision-threatening ROP recurs, further therapy generally consists of a second treatment using either the same modality or a different modality. Some studies have reported recurrence in as many as one-quarter of treated patients. Reported recurrence rates vary considerably depending on the timing of treatment, the laser treatment technique, the specific anti-VEGF agent and dose used, and/or the definition used to identify recurrence. Patients should meet the type I RO definition to be considered for retreatment.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Eylea [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; October 2024.
2. Eylea HD [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; October 2024.
3. Avastin [prescribing information]. South San Francisco, CA: Genentech, Inc.; January 2021.
4. Yesafili [prescribing information]. Cambridge, MA: Biocon Biologics Inc.; May 2024.
5. Opuviz [prescribing information]. Cambridge, MA: Biogen MA Inc.; May 2024.
6. Ahzantive [prescribing information]. Planegg, Germany: Formycon AG; June 2024.
7. Enzeevu [prescribing information]. Princeton, NJ: Sandoz Inc.; August 2024.
8. Pavblu [prescribing information]. Thousand Oaks, CA: Amgen, Inc.; August 2024.
9. Eydenzelt [prescribing information]. Jersey City, NJ: Celltrion USA, Inc.; October 2025.
10. Flaxel CJ, Adelman RA, Bailey ST, et al. Age-related macular degeneration preferred practice pattern. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/age-related-macular-degeneration-ppp. Accessed on August 12, 2025.
11. Tufail A, Patel PJ, Egan C, et al. Bevacizumab for neovascular age related macular degeneration (ABC Trial): multicentre randomized double masked study. BMJ. 2010; 340: c2459.
12. Zhand H, Liu ZL, Sun P, et al. Intravitreal bevacizumab for treatment of macular edema secondary to central retinal vein occlusion: eighteen-month results of a prospective trial. J Ocul Pharmacol Ther. 2011 Dec; 27 (6): 615 - 21.
13. Ghanem AA, El- Kannishy AM, El- Wehidy AS, et al. Intravitreal bevacizumab (avastin) as an adjuvant treatment in cases of neovascular glaucoma. Middle East Afr J Ophthalmol. 2009; 16: 75 - 9.
14. Michaelides M, Kaines A, Hamilton R, et al. A prospective randomized trial of intravitreal bevacizumab or laser therapy in the management of diabetic macular edema (BOLT Study). Amer Acad Ophth. 2010 Mar; 117 (6): 1078 – 86.
15. Korobelnik JF, Do D, Scmidt-Erfurth U, et al. Intravitreal aflibercept for diabetic macular edema. Ophthalmology. 2014 Nov; 121 (11): 2247 – 54.
16. Wells JA, Glassman AR, Ayala AR, et al. Aflibercept, bevacizumab, or ranibizumab for diabetic macular edema. NEJM. 2015 March 26; 372 (13): 1193 – 203.
17. Sarwar S, Clearfield E, Soliman MK, et al. Aflibercept for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2016 Feb 8; 2: CD011346. PMID: 26857947.
18. Vedula SS & Krzystolik MG. Antiangiogenic therapy with anti-vascular endothelial growth factor modalities for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2008(2):CD005139. PMID: 18425911 6.
19. Solomon SD, Lindsley K, Vedula SS, et al. Anti-vascular endothelial growth factor for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2019 Mar 4; 3: CD005139. PMID: 30834517.
20. Kim SJ, Lim JI, Bailey ST, et al. Diabetic retinopathy preferred practice pattern. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/diabetic-retinopathy-ppp. Accessed on August 12, 2025.
21. Kovach JL, Bailey ST, Kim SJ, et al. Retinal vein occlusions preferred practice pattern. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/retinal-vein-occlusions-ppp. Accessed on August 12, 2025.
22. Clinicaltrials.gov. Randomized, controlled, multi-center study to assess the efficacy, safety, and tolerability of intravitreal aflibercept compared to laser photocoagulation in patients with retinopathy of prematurity. Available at: https://clinicaltrials.gov/ct2/show/NCT04101721. Accessed on February 15, 2023.
23. Stahl A, Sukgen EA, Wu WC, et al. Effect of intravitreal aflibercept vs laser photocoagulation on treatment success of retinopathy of prematurity: the FIREFLEYE randomized clinical trial. JAMA. 2022 Jul 26; 328 (4): 348 - 59.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

24. Good WV. Final results of the Early Treatment for Retinopathy of Prematurity (ETROP) randomized trial. Trans Am Ophthalmol Soc. 2004; 102: 233 – 48.
25. Jhaveri CD, Glassman AR, Ferris FL, et al. Aflibercept monotherapy or bevacizumab first for diabetic macular edema. NEJM. 2022 Aug 25; 387: 692 – 703.
26. Clinicaltrials.gov. Randomized, double-masked, active-controlled, phase 3 study of the efficacy and safety of high dose aflibercept in patients with neovascular age-related macular degeneration (NCT04423718). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04423718. Accessed on August 22, 2023.
27. Clinicaltrials.gov. Study of a high-dose aflibercept in participants with diabetic eye disease (PHOTON) (NCT04429503). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04429503. Accessed on August 22, 2023.

Policy History		
#	Date	Change Description
3.3	Effective Date: 02/12/2026	Annual review of criteria was performed, no changes were made
3.2	Effective Date: 12/04/2025	Updated to include Eydenzelt
3.1	Effective Date: 10/27/2025	UM medical management system update for MAPPO and BCNA for Aflibercept-yszy
3.0	Effective Date: 10/20/2025	UM medical management system update for BCBS and BCN for Eydenzelt
2.9	Effective Date: 10/09/2025	Updated to include aflibercept-yszy
2.8	Effective Date: 10/01/2025	UM medical management system update for MAPPO and BCNA for Yesafil
2.7	Effective Date: 08/01/2025	UM medical management system update for MAPPO and BCNA for Opuviz
2.6	Effective Date: 05/01/2025	UM medical management system update for MAPPO and BCNA for Ahzantive, Enzeevu, Pavblu
2.5	Effective Date: 10/03/2024	Updated to add Enzeevu and Pavblu
2.4	Effective Date: 09/05/2024	UM medical management system update for BCBS and BCN for Pavblu
2.3	Effective Date: 08/29/2024	UM medical management system update for BCBS and BCN for Enzeevu
2.2	Effective Date: 08/08/2024	Updated to add Ahzantive, Opuviz, and Yesafili and the statement that biosimilars will be approved for all indications of the innovator product when criteria is met
2.1	Effective Date: 07/18/2024	UM medical management system update for BCBS and BCN for Ahzantive
2.0	Effective Date: 06/06/2024	UM medical management system update for BCBS and BCN for Opuviz and Yesafili

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.9	Effective Date: 02/08/2024	Updated to remove the step through Vabysmo on Eylea HD for the Medicare line of business
1.8	Effective Date: 10/15/2023	UM medical management system update for MAPPO and BCNA for Eylea HD
1.7	Effective Date: 10/12/2023	Updated to add Eylea HD and a step through Eylea and/or Vabysmo prior to the use of Eylea HD when using every 8 week dosing for Medicare. The name of the policy was changed from Eylea to Aflibercept.
1.6	Effective Date: 09/07/2023	UM medical management system update for BCBS and BCN for Eylea HD
1.5	Effective Date: 08/10/2023	Updated to not require step through Byooviz for all indications
1.4	Effective Date: 06/08/2023	Updated to not require step through Byooviz for DME when vision is worse than 20/50
1.3	Effective Date: 04/06/2023	New policy. This policy replaces previously approved criteria that was embedded in the Intravitreal Injections for Retinal Conditions Policy which is being split into individual drug policies and retired. The authorization period was updated from up to 1 year to at least 60 days and up to 1 year, a step through Byooviz was added, and the indication for retinopathy of prematurity was added.
1.2	Effective Date: 01/01/2020	UM medical management system update for BCBS for Eylea
1.1	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Eylea
1.0	Effective Date: 11/08/2012	UM medical management system update for BCN for Eylea

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Alpha – 1 Proteinase Inhibitors

Aralast NP® (alpha-1 proteinase inhibitor) **- HCPCS: J0256**
Glassia™ (alpha-1 proteinase inhibitor) **- HCPCS: J0257**
Prolastin®-C (alpha-1 proteinase inhibitor) **- HCPCS: J0256**
Prolastin®-C Liquid (alpha-1 proteinase inhibitor) **- HCPCS: J0256**
Zemaira® (alpha-1 proteinase inhibitor) **- HCPCS: J0256**

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Alpha-1 antitrypsin deficiency (AATD) is a rare autosomal recessive genetic disorder that results in decreased production of alpha-1 antitrypsin (AAT) protein (also referred to as alpha-1 proteinase inhibitor), or production of abnormal types of the protein that are functionally deficient. AAT inhibits the neutrophil elastase enzyme from degrading elastin tissues in the lung. Deficiency leads to early onset of severe pulmonary emphysema in adults, which leads to a decline in lung function (FEV_1), exacerbation of symptoms, decline in ability to function, and even death. Replacement therapies have not been shown to prevent or reverse emphysema in AATD; however, data has shown that treatment of symptomatic patients with low serum levels of AAT due to congenital deficiencies of this enzyme will slow the progression of disease.

- Intravenous augmentation therapy with AAT is the most direct and efficient means of elevating serum AAT levels, with the goal of slowing progression of emphysema. Guidelines from the Global Initiative for Chronic Obstructive Lung Disease (GOLD; 2025) and the Medical and Scientific Advisory Committee of the Alpha-1 Foundation (2016) recommend augmentation therapy as most suitable for never or ex-smokers with AATD, emphysema, and an FEV_1 of 35-60% predicted. Patients must have an AAT genetic variant consistent with severe AAT deficiency (Pi*ZZ, Pi*Z null, Pi* (null) (null)) and a low serum level of AAT below the protective threshold (ie <11 µmol/L via ELISA or <57 mg/dL via nephelometry or < 80 mg/dL via radial immunodiffusion). Though available literature on augmention therapy primarily focuses on patients with the ZZ genotype, people with the Z/null or null/null genotypes are also usually assessed for augmention therapy as they have even lower plasma AAT levels.

- Clinically evident emphysema may not be evident in AAT deficient patients with higher FEV_1 values, and evidence that augmentation therapy confers benefit (e.g., slowed rate of FEV_1 decline and decreased mortality) is stronger for individuals with moderate airflow obstruction (e.g., FEV_1 35–60% predicted) than for those with severe (e.g., $FEV_1 \leq 35\%$ predicted) or mild (e.g., $FEV_1 \geq 50$–60% predicted) airflow obstruction. For those with lung disease related to AATD and an $FEV_1 > 65\%$ predicted, discussion with each individual regarding potential benefits of reducing lung function decline is recommended, with consideration of the cost of therapy and lack of evidence for such a benefit.

- The FDA has approved the use of four AAT products derived from human plasma: Glassia, Prolastin, Zemaira, and Aralast; available guidelines do not differentiate between products. These agents are administered intravenously at an FDA approved dose of 60 mg/kg once weekly. All products require administration by a healthcare professional; however, Glassia may be self-administered by the patient/caregiver after appropriate training. Studies support that weekly infusions at this dose maintain AAT levels in the serum and epithelial lining fluid above protective thresholds (i.e. >11 µmol/L via ELISA or >57 mg/dL via nephelometry or >80 mg/dL via radial immunodiffusion) throughout the week and over long-term. Minimal data is available describing improved clinical outcomes; therefore, outside of restoration of serum

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

AAT levels, therapeutic response and efficacy can be evaluated via surrogate outcome measures including stability or improvement in FEV_1 and other pulmonary function testing, reductions in exacerbations, and reductions in daily symptoms.

- All AAT products appear to be similar in biologic activity for slowing emphysema progression in AATD. No evidence is available suggesting clinically meaningful differences in safety and/or efficacy between the available products. One trial is available comparing Prolastin and Aralast which showed equivalent results. No published trials comparing Zemaira to another alpha-1 proteinase inhibitor product are available. However, data within FDA product labeling describes a comparison of Zemaira and Prolastin which showed equivalent results. In one unpublished, randomized, controlled study comparing Glassia to Prolastin in fifty patients with congenital AATD and clinical signs and symptoms of emphysema, Glassia met pre-specified criteria for non-inferiority; however, no clinical endpoints were assessed.

- The administration of alpha-1 proteinase inhibitors (human) increases plasma levels of alpha-1 proteinase inhibitors, and levels of functionally active alpha-1 proteinase inhibitors in the lung are increased proportionately. However, long-term controlled clinical trials that evaluate the effect of chronic replacement therapy with alpha-1 proteinase inhibitor on the development or progression of emphysema in patients with congenital AATD have not yet been performed. The slow and progressive nature of the disease, as well as estimates of the sample size required of this rare disorder render the ability to conduct such trials very challenging. Nonetheless, studies to monitor the long-term effects are continuing as part of the post-approval process. FDA-required Phase IV clinical trials are currently being conducted

References:

1. Prolastin-C Liquid package insert. Research Triangle Park, NC: Grifols Therapeutics; September 2017. Available at: https://www.fda.gov/downloads/BiologicsBloodVaccines/UCM209676.pdf. Accessed January 4, 2018.
2. Aralast package insert. Westlake Village, CA: Baxalta US Inc.; March 2017. Available at: http://www.shirecontent.com/PI/PDFs/ARALASTNP_USA_ENG.pdf. Accessed February 14, 2018.
3. Zemaira package insert. Kankakee, IL: CSL Behring LLC; September 2015. Available at: http://labeling.cslbehring.com/PI/US/Zemaira/EN/Zemaira-Prescribing-Information.pdf. Accessed February 14, 2018.
4. Glassia package insert. Beit Kama, Negev, Israel: Kamada, Ltd. June 2017. Available at: http://www.shirecontent.com/PI/PDFs/GLASSIA_USA_ENG.pdf. Accessed February 14, 2018.
5. Abboud RT, Ford GT, Chapman KR. Emphysema in alpha-1 antitrypsin deficiency: does replacement therapy affect outcome? Treat Respir Med, 2005; 4(1):1-8.
6. American Thoracic Society/European Respiratory Society Statement: Standards for the diagnosis and management of individuals with alpha-1 antitrypsin deficiency. Am J Respir Crit Care Med, 2003; 168:818-900.
7. Louie SG, Sclar DA, Gill MA. Aralast: a new alpha1-protease inhibitor for treatment of alpha-antitrypsin deficiency. Ann Pharmacother. 2005 Nov; 39(11):1861-9.
8. Sandhaus RA, Turino G, et al. A1-Antitrypsin augmentation therapy for PI*MZ heterozygotes. Chest, 2008; 134:831-4.
9. Wencker M et al. Longitudinal follow-up of patients with alpha-1 protease inhibitor deficiency before and during therapy with IV alpha-1 protease inhibitor. Chest. March 2001; 119: 737-44.
10. Janciauskiene S, Ferrarotti I, Laenger F, Jonigk D, and Luisetti M. Clinical utility gene card for: α-1 antitrypsin deficiency. European Journal of Human Genetics.2011; 19. Available at: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3083625/. Accessed January 22, 2014.
11. Brantly, ML, Campos M, Cross C, Goodman K, et al. The Diagnosis and Management of Alpha-1 Antitrypsin Deficiency in the Adult. Chronic Obstr Pulm Dis. 2016; 3(3); 668-682. Available at: https://journal.copdfoundation.org/jcopdf/id/1115/The-Diagnosis-and-Management-of-Alpha-1-Antitrypsin-Deficiency-in-the-Adult. Accessed 3/6/2019.
12. Brantly ML, Lascano JE, Shahmohammadi A. Intravenous Alpha-1 Antitrypsin Therapy for Alpha-1 Antitrypsin Deficiency: The current State of Evidence. Chronic Obstr Pulm Dis. 2019; 6(1): 100-114. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6373587/. Accessed 3/6/2019.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

13. Stoller JK, Aboussouan LS. A review of Alpha-1 Antitrypsin Deficiency. Am J Respir Crit Care Med. 2012; 185(3): 246-59. Available at: https://www.atsjournals.org/doi/full/10.1164/rccm.201108-1428CI?url_ver=Z39.88-2003&rfr_id=ori%3Arid%3Acrossref.org&rfr_dat=cr_pub%3Dpubmed. Accessed on 3/6/2019.
14. Global Initiative for Chronic Obstructive Lung Disease (GOLD). Global Strategy for the Diagnosis, Management and Prevention of Chronic Obstructive Pulmonary Disease: 2025 Report. www.goldcopd.org (Accessed on January 31, 2025).
15. Stoller JK. Treatment of alpha-1 antitrypsin deficiency. In: UpToDate, Post, TW (Ed), Waltham, MA, 2023.

Policy History		
#	Date	Change Description
2.7	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.5	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 04/06/2023	Annual review of criteria was performed, no changes were made
2.3	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.
2.2	Effective Date: 04/08/2021	Criteria updates as follows: 1. Clarified serum AAT levels to account for different methods of measurement 2. Removed criteria stating Glassia can be self-administered and added to background information 3. Updated trial and failure of preferred language to standard verbiage 4. Updated quantity limit language 5. Changed authorization period from 6 months initial/1 year renewal to 1 year 6. Changed renewal criteria to standard verbiage
2.1	Effective Date: 04/16/2020	Annual Review
2.0	Effective Date: 05/09/2019	Added documentation of PFT, reduction in exacerbations, or reduction of daily symptoms to renewal criteria
1.9	Effective Date: 05/03/2018	New dosage form for Prolastin-C Liquid added
1.8	Effective Date: 02/08/2018	Annual review of Medical Policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for BCNA and MAPPO for Aralast, Glassia, and Prolastin-C

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.6</td><td>Effective Date: 02/09/2017</td><td>Criteria Update for Glassia Self-Administration</td></tr>
<tr><td>1.5</td><td>Effective Date: 11/05/2015</td><td>Criteria Update</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/01/2015</td><td>UM medical management system update for Aralast, Glassia, Prolastin-C, and Zemaira

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 02/01/2015</td><td>UM medical management system update for Aralast, Glassia, Prolastin-C, and Zemaira

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 05/08/2014</td><td>Criteria Update</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.1	Effective Date: 08/09/2012	Criteria Update
1.0	Effective Date: 10/2010	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Amtagvi™ (lifileucel)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

- Tumor infiltrating lymphocyte (TIL) therapy is a type of treatment the utilizes the body's own immune system to fight cancer. The immune system naturally creates TIL cells that can recognize distinctive markers on the surface of cancer cells and launch an attack. To make TIL therapy, a patient's TIL cells are collected from a portion of their resected tumor and then expanded outside the body before being infused back into the patient. Once the body is resupplied with TIL cancer-fighting immune cells, tumor cells are attacked and killed.

- TIL therapy has not been studied when given following prior treatment with any TIL therapy or following any other genetically-modified TIL therapy.

- Due to the risk of treatment-related deaths, prolonged severe cytopenia, severe infection, cardiopulmonary impairment, and kidney impairment, TIL therapy is only allowed to be given at certified inpatient treatment centers. The labeling requires patients be monitored for side effects in an intensive care facility and that specialists be available.

- Amtagvi is a tumor-derived autologous T-cell immunotherapy indicated for the treatment of adult patients with unresectable or metastatic melanoma previously treated with a PD-1 blocking antibody, and if BRAF V600 mutation positive, a BRAF inhibitor with or without a MEK inhibitor.

- Safety and efficacy were established in the C-144-01 trial, a phase II, open-label, single-arm, multicenter study in patients with advanced melanoma who had progressed following a PD-1 inhibitor and BRAF ± MEK targeted agents if indicated. The primary efficacy analysis set included 82 patients who received Amtagvi, among these, 9 patients received Amtagvi at a dose less than 7.5×10^9 viable cells and did not achieve an objective response. Amtgavi was produced from harvested tumor specimens with an average manufacturing time of 23 days and median time to infusion of 34 days. Patients received a non-myeloablative lymphodepletion regimen, a single infusion of Amtagvi, and up to six doses of high-dose interleukin-2. The study excluded patients with an ECOG score of greater than 1, a creatinine clearance of less than or equal to 40 mL/minute, hemoglobin less than 9.0 g/dL, and left ventricular ejection fraction less than 45%. Patients were also excluded if they had an absolute neutrophil count less than 1000 cells/mm^3, platelet count less than 100,000/mm^3, symptomatic and/or untreated brain metastases, history of another primary malignancy that has not been in remission for at least 3 years prior to consideration of Amtagvi, infection that is uncontrolled or requires IV or long-term oral antimicrobial therapy, a detectable HIV, hepatitis B or C viral load, or any primary immunodeficiency. Patients were required to have at least one measurable, resectable lesion that is a minimum of 1.5 cm in diameter post-resection. The primary endpoints included objective response rate (ORR) and duration of response (DoR). The ORR was 31.5% (95% CI: 21.1, 43.4) with 3 complete responses (CR) and 20 partial responses (PR). The median time to initial response was 1.5 months with the median DoR not reached after 18.6 months.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Amtagvi [prescribing information]. Philadelphia, PA: Iovance Biotherapeutics Manufacturing LLC; September 2025.
2. Liu A. FDA approves Iovance's Amtagvi as first T-cell therapy for a solid tumor. 2024 Feb 17. Available at: https://www.fiercepharma.com/pharma/fda-approves-iovances-amtagvi-first-cell-therapy-solid-tumor. Accessed on February 19, 2024.
3. Chesney J, Lewis KD, Kluger H, et al. Efficacy and safety of lifileucel, a one-time autologous tumor-infiltrating lymphocyte (TIL) cell therapy, in patients with advanced melanoma after progression on immune checkpoint inhibitors and targeted therapies: pooled analysis of consecutive cohorts of the C-144-01 study. J ImmunoTher Cancer. 2022; 10: e005755.
4. National Comprehensive Cancer Network. Melanoma: cutaneous (Version 1.2026). 2026 Feb 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on March 1, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 06/01/2026

P&T Date: 04/16/2026</td><td>Updated to remove requirement for absolute neutrophil count, hemoglobin, platelet count, liver function tests, history of another primary malignancy, uncontrolled infection or infection requiring long term antibiotics, HIV, hepatitis B or C infection, and any primary immunodeficiency. Also added requirements of no active infection, no prior allogenic stem cell transplant, no prior autologous stem cell transplant within 12 weeks, and updated the approval length to 6 months</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/10/2025</td><td>Annual review – no changes to the policy were made at this time</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/11/2024</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/01/2024</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 02/29/2024</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/08/2024</td><td>Preliminary Drug Review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Amvuttra™ (vutrisiran)
HCPCS: J0225

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Amvuttra is a transthyretin (TTR) silencer indicated for the treatment of polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults, and for the treatment of cardiomyopathy of wild-type or hereditary transthyretin-mediated amyloidosis in adults to reduce cardiovascular mortality, cardiovascular hospitalizations, and urgent heart failure visits.

- Transthyretin amyloidosis (ATTR) is a progressive, life-threatening disorder characterized by the deposition of amyloid fibrils composed of TTR, a plasma transport protein for thyroxine and vitamin A that is predominantly produced by the liver and to a lesser extent by the choroid plexus and in retinal cells.

- In ATTR, TTR misfolds, causing it to aggregate into amyloid fibrils that accumulate in organs, nerves, and tissues. The buildup of these amyloid deposits results in progressive dysfunction at the site of deposition. Amyloid deposition can occur in the heart, gastrointestinal tract, kidneys, thyroid, salivary glands, eyes, peripheral nervous system, and central nervous system. The phenotype is driven by deposition site and may be predominantly cardiac, neurologic, or mixed.

- There are two types of ATTR: hereditary (hATTR), or variant, which is due to inherited mutations of the TTR gene that cause misfolding of the tetramer subunits, and wild-type, which occurs in the presence of a normal TTR gene, is typically associated with aging, and is most often diagnosed in men 65 years and older. In wild-type ATTR, TTR typically only deposits in the heart and manifests as cardiac symptoms. hATTR, in contrast, may be predominantly neuropathic, cardiomyopathy, or a mixed phenotype characterized by both.

- hATTR with polyneuropathy (hATTR-PN)

    - hATTR-PN is the most common neurologic manifestation. Without treatment, patients will have progressive neuropathy and disability ultimately resulting in death within 10-15 years of disease onset.

    - Patients with hATTR-PN may present with peripheral neuropathy (sensory and motor; tingling or increased pain in the hands, feet and/or arms, loss of feeling in the hands and/or feet, numbness or tingling in the wrists, carpal tunnel syndrome, loss of ability to sense temperature, difficulty with fine motor skills, weakness in the legs, difficulty walking), autonomic neuropathy (e.g., orthostasis, abnormal sweating, dysautonomia [constipation and/or diarrhea, nausea, vomiting, anorexia, early satiety]), GI impairment, cardiomyopathy, nephropathy, or ocular deposition. Most hATTR-PN cases, however, are classified as neuropathic.

    - Amyloid deposition induces a length-dependent peripheral neuropathy beginning in the lower limbs with symptoms like toe discomfort due to numbness and spontaneous pain. Continued aggregation of amyloid on the nerve fibers contributes to sensory loss extending upwards toward the proximal lower limbs as motor deficits and impaired sensations occur. Walking becomes increasingly difficult as balance and gait are affected. Neuropathic pain transitions to a burning

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

sensation worsening at night. Over time, sensory deficit extends to the upper limbs, forearms, fingers and trunk and motor deficit follows with the same length dependent progression. At this stage, potentially life-threatening autonomic dysfunction is present manifesting as orthostatic hypotension, anhidrosis, neurogenic bladder, disturbances of gastrointestinal motility, and sexual impotence.

- Cardiac disease may occur in approximately 50% of patients with hATTR-PN. Ocular involvement is also common, including vitreous opacity, dry eye, glaucoma, and pupillary disorder.

- A rarer presentation of hATTR is leptomeningeal and meningovascular amyloidosis, often with concomitant vitreous opacity (oculoleptomeningeal amyloidosis). Several mutations have reportedly been linked to this type of hATTR, though it may also manifest in more advanced cases of *Val30MET*-mutated hATTR-PN.

    - Central nervous system symptoms include stroke, subarachnoid hemorrhage, dementia, ataxia, seizures, and sensorineural hearing loss.

    - The source of mutant TTR in (oculo)leptomeningeal and meningovascular amyloidosis is thought to be the choroid plexus and retinal cells versus the liver. As such, ocular and meningovascular manifestations are commonly seen after liver transplantation because the source of mutant TTR is left unaffected.

    - To date, no treatments have been proven to be beneficial for the treatment of (oculo)leptomeningeal and meningovascular amyloidosis.

- The 2013 guideline of transthyretin-related hereditary amyloidosis for clinicians recommends that the most reliable diagnostic approach involves genetic testing and tissue biopsy to confirm the presence of active amyloid formation. Genetic testing is needed to document the TTR gene mutations; if testing is normal, a diagnosis of hATTR is excluded.

- Options for hATTR-PN treatment are limited. Treatment strategies include removing the source of mutant TTR, inhibiting TTR formation, stabilizing the TTR molecule, and therapy directed at removing the amyloid deposits. Regardless of the choice of treatment, the 2013 guidelines and published expert opinion from 2024 recommend treatment initiation as soon as possible after diagnosis to slow or halt disease progression. The best outcomes have been shown in patients diagnosed at younger ages and/or without advanced disease.

- For hATTR-PN, our best treatment option historically had been orthoptic liver transplant, which removes the source of mutant TTR and was considered the gold standard for hATTR-PN treatment early in the course of disease. In hATTR-PN, the liver is the primary source of mutant TTR; transplantation eliminates approximately 95% of the production of mutant TTR and may slow or halt disease progression outside of the brain and/or eyes, though nerve function rarely improves post-transplant. Transplant does not effectively prevent cardiomyopathy, however, and is not recommended for patients with late stage hATTR-PN or leptomeningeal disease. With later stages of hATTR-PN and cardiomyopathy, there are concerns of disease progression due to deposition of wild-type TTR from the transplanted liver on the preexisting amyloid from the variant TTR

- Numerous disease-modifying therapeutics are now available for hATTR-PN, including Amvuttra (vutrisiran), Onpattro® (patisiran), and Wainua® (eplontersen). Guidelines have not yet been updated to include Amvuttra, Onpattro, Tegsedi, and Wainua specifically; however, they do note that early detection is critical and patients with early-stage disease should be treated with any approved drugs as they become available and as the patient's disease state meets drug indications, independent of liver transplant plans.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Amvuttra, Onpattro, and Wainua are FDA-approved for the treatment of polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults. Wainua autoinjector is FDA approved to be administered by the patient or caregiver, while a healthcare provider is required for Amvuttra, Onpattro, and Wainua prefilled syringe administration per approved labeling. To date, there is no literature supporting the use of one product over another, nor is there support for the use of any of these products together or in combination with other therapies approved for ATTR. The 2024 expert opinion does not offer recommendations on choice of specific treatment due to the lack of direct comparison trials and advises that clinicians consider the efficacy and safety considerations, in addition to any comorbidities and personal preferences around ease of use for an individual patient.

- Amvuttra is a small interfering ribonucleic acid agent (siRNA) targeting TTR that silences a portion of RNA involved in causing the disease. Amvuttra is designed to deliver the drug directly into the liver to interfere with RNA production of an abnormal form of TTR, ultimately reducing accumulation of amyloid deposits in peripheral nerves.

    - In the pivotal phase 3 HELIOS-A trial, Amvuttra demonstrated better outcomes on measures of polyneuropathy including muscle strength, sensation (pain, temperature, numbness), reflexes and autonomic symptoms (blood pressure, heart rate, digestion) compared to an external placebo group from patisiran's pivotal APOLLO trial. Amvuttra-treated patients also scored better on assessments of walking, nutritional status, and the ability to perform activities of daily living. Amvuttra also demonstrated non-inferiority in serum TTR reduction relative to the within-study patisiran reference group, which showed results consistent to the Amvrutta-treated group throughout the study.

    - In clinical trials, Amvuttra was only evaluated in patients with a baseline polyneuropathy disability (PND) score $\leq$IIIb, which equates to a familial amyloidotic polyneuropathy (FAP) stage of 1 or 2. The PND score (range 0-IV) stages disease based on walking ability, while the FAP stage (stage 0-3) assesses the patient's level of ambulation and the severity/progression of neuropathy. Amvuttra was not evaluated in patients with baseline PND score of IV which, like FAP stage 3, designates patients with late-stage, significantly advanced disease who are wheelchair-bound or bedridden, therefore clinical trials do not support use in this patient population with advanced disease.

    - Patients who received prior TTR-lowering treatment and those with a history of liver transplant were also excluded from clinical trials of Amvuttra. There is no literature to support that patients who received a liver transplant would experience benefit from treatment with Amvuttra as they would not be expected to produce mutated TTR post-transplant.

- ATTR with cardiomyopathy (ATTR-CM)

    - Patients with ATTR-CM are typically males aged 65 years or older. The condition may be inherited or occur sporadically sans inheritance pattern due to wild-type (or normal) TTR.

    - In ATTR-CM, the left ventricle ejection fraction is normal or only mildly reduced and coupled with ventricular hypertrophy. Amyloid deposition commonly affects the conduction system as well, leading to bundle branch block and on occasion atrioventricular and sinoatrial block. Pacemaker implantation is often required. Typical signs and symptoms include dyspnea, lower extremity edema, elevated jugular venous pressure, hepatic congestion, and ascites. In more advanced disease, signs and symptoms of low cardiac output may also occur (e.g., diminished pulse pressure and capillary refill). ATTR-CM progresses rapidly, with a life expectancy of 3 to 5 years from diagnosis, depending on the subtype.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Clinical suspicion for cardiac amyloidosis includes left ventricular wall thickening (thickness ≥ 14 mm) in conjunction with fatigue, dyspnea, or edema, especially in the context of discordance between wall thickness on echocardiogram and ECG voltage, and in the context of aortic stenosis, heart failure with preserved ejection fraction (HFpEF), or extracardiac manifestations such as bilateral carpal tunnel syndrome, lumbar/cervical spinal stenosis, spontaneous biceps tendon rupture, hip or knee replacement, and autonomic or sensory polyneuropathy. Extracardiac manifestations often precede cardiac involvement by many years, with nearly 80% of individuals with ATTR-CM having preceding orthopedic interventions of the shoulder, hip, or knee, carpal tunnel syndrome, spinal stenosis, trigger finger, or biceps tendon rupture due to extracardiac TTR amyloid deposition.

- The 2025 American College of Cardiology Concise Clinical Guidance on transthyretin cardiac amyloidosis evaluation and management provides the most up to date recommendations for the diagnosis and treatment of patients with cardiac amyloidosis.

- In patients with the above features, it is critical to differentiate between amyloid light chain cardiomyopathy (AL-CM) and ATTR-CM. Per the 2025 guidance, this is done by screening for the presence of serum and urine monoclonal light chains. AL-CM can be ruled out by obtaining a monoclonal light chain screen assessing serum free light chain (sFLC) concentration and serum and urine immunofixation electrophoresis (IFE); a combination of these three tests has a 99% sensitivity for detecting amyloid light chain amyloidosis. If no monoclonal light chains are detected then AL-CM is excluded and technetium-labeled bone scintigraphy is performed to confirm the presence of ATTR-CM. Scans may be positive even in AL-CM; therefore, a bone scintigraphy scan alone cannot distinguish ATTR-CM from AL-CM without concomitant light-chain testing.

- Endomyocardial biopsy is an additional, though more invasive, option for diagnosis and is recommended in situations where there is high clinical suspicion of ATTR-CM in patients with abnormal monoclonal light chain screening, high clinical suspicion of ATTR-CM in patients with negative or questionable scintigraphy results, or in the event cardiac scintigraphy is not available. Amyloid deposits detected on biopsy are then identified, or typed, by mass spectrometry, immunoelectron microscopy or immunohistochemistry to determine whether the precursor protein is TTR.

- If ATTR-CM is identified, genetic sequencing of the TTR gene is performed to determine if the patient has hereditary or wild-type disease. This differentiation is important in triggering genetic counseling, screening family members, and potentially identifying appropriate pharmacologic therapies.

- For patients with confirmed ATTR-CM, either hereditary or wild-type, with a clinical history of heart failure and exhibiting NYHA class I-III symptoms, the 2025 guidance recommends initiation of disease-modifying therapies for ATTR-CM. To date, two transthyretin stabilizers (tafamidis and acoramidis) and one transthyretin silencer (vutrisiran) have been approved by the FDA for ATTR-CM. Transthyretin stabilizers stabilize TTR to prevent it from misfolding and subsequently creating amyloid deposits, while transthyretin silencers degrade TTR mRNA in hepatocytes to reduce the production of TTR. These therapies prevent but do not reverse amyloid deposition and any related end-organ damage; therefore, their greatest benefit is anticipated when administered early in the disease course.

- The 2025 guidance does not recommend one ATTR-CM therapy over another and instead advises that the choice of ATTR-CM treatment should be based on individualized factors such as cost, access, and patient or provider preference. Available clinical data does not justify the use of combination therapy with either two TTR stabilizers or a combination of a TTR silencer and stabilizer

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In the pivotal Phase III HELIOS-B clinical trial, 645 patients with either wild-type or hereditary ATTR-CM and a history of heart failure (NYHA Class I-III) received either Amvuttra or placebo once every 3 months for up to 36 months. Patients with NYHA Class IV or high-risk Class III (i.e., NT-proBNP level>3,000 pg/mL and eGFR <45 mL/min/1.73m^2 of body-surface area), or a PND of IIIa, IIIb, or IV (indicating a cane or stick is needed to walk, or that a patient is wheelchair-bound) were excluded. At baseline, 40% of patients were established on tafamidis, and participants were permitted to initiate open-label tafamidis during the study. Treatment with Amvuttra led to significant reduction in the risk of all-cause mortality and recurrent cardiovascular events compared to placebo in the overall and monotherapy populations of 28% and 33%, respectively.

- Though HELIOS-B represents the most robust data currently available on concurrent TTR silencer and TTR stabilizer use, the trial was not designed to determine the differences between monotherapy and combination therapy. Therefore, there is insufficient evidence to distinguish the net health benefit among the drugs when used as monotherapy or to support the use of combination therapy in ATTR-CM. Additionally, there is no literature to date supporting the use of Amvuttra in combination with other therapies approved for ATTR, such as Onpattro, Wainua, or Attruby.

References:

1. Amvuttra (prescribing information). Cambridge, MA: Alnylam Pharmaceuticals, Inc.; March 2025.
2. Ando Y, Coelho T, Berk JL, et al. Guideline of transthyretin-related hereditary amyloidosis for clinicians. Orphanet Journal of Rare Diseases. 2013;8:31. Doi: 10.1186/1750-1172-8-31.
3. Gillmore JD, et al. Efficacy and Safety of Acoramidis in Transthyretin Amyloid Cardiomyopathy. N Engl J Med 2024;390:132-42. DOI: 10.1056/NEJMoa2305434
4. Heidenreich PA, Bozkurt B, et al. 2022 AHA/ACC/HFSA Guideline for the Management of Heart Failure: A Report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. Circulation 2022; 145:e895-e1032
5. IPD Analytics. Payer & Provider Insights. December 2020. Accessed February 21, 2022. https://www.ipdanalytics.com.
6. IPD Analytics. The Evolving Treatment Paradigm of Transthyretin-Related Amyloidosis. November 2021. Accessed February 21, 2022. https://www.ipdanalytics.com.
7. Karam C, et al. Diagnosis and treatment of hereditary transthyretin amyloidosis with polyneuropathy in the United States: Recommendations from a panel of experts. Muscle Nerve. 2024 Mar;69(3):273-287. doi: 10.1002/mus.28026. Epub 2024 Jan 4. PMID: 38174864.
8. Kittleson M, Ruberg F, et al. 2023 ACC Expert Consensus Decision Pathway on Comprehensive Multidisciplinary Care for the Patient With Cardiac Amyloidosis. J Am Coll Cardiol. 2023 Mar, 81 (11) 1076–1126.https://doi.org/10.1016/j.jacc.2022.11.022
9. Kittleson, M, Ambardekar, A. et al. Transthyretin Cardiac Amyloidosis Evaluation and Management: 2025 ACC Concise Clinical Guidance. JACC. Published online Oct. 31, 2025.
10. Manufacturer PowerPoint presentation. HELIOS-A Phase 3 Study of Vutrisiran Full 9-Month Results. https://www.alnylam.com/wp-content/uploads/2021/04/HELIOS-A-9-mo-results_conf-call-slides_FINAL.pdf. April 19, 2021. Accessed February 21, 2022.
11. Manufacturer press release. Alnylam announces FDA approval of Amvuttra (vutrisiran), an RNAi therapeutic for the treatment of the polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults. https://www.businesswire.com/news/home/20220603005487/en/Alnylam-Announces-FDA-Approval-of-AMVUTTRA%E2%84%A2-vutrisiran-an-RNAi-Therapeutic-for-the-Treatment-of-the-Polyneuropathy-of-Hereditary-Transthyretin-Mediated-Amyloidosis-in-Adults. June 13, 2022. Accessed June 14, 2022.
12. Manufacturer Press Release. Alnylam Website. Alnylam Presents Positive 18-Month Results from HELIOS-A Phase 3 Study of Investigational Vutrisiran in Patients with hATTR Amyloidosis with Polyneuropathy. https://investors.alnylam.com/press-release?id=26396. January 21, 2022. Accessed February 21, 2022.
13. Maurer, Mathew S., et al. Addressing common questions encountered in the diagnosis and management of cardiac amyloidosis. Circulation 135.14 (2017): 1357-1377.
14. Pfizer. How Vyndamax Works. Accessed on January 8, 2025. https://vyndamax.pfizerpro.com/about-vyndamax/how-vyndamax-works

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

15. Protocol for: Gillmore JD, Judge DP, Cappelli F, et al. Efficacy and safety of acoramidis in transthyretin amyloid cardiomyopathy. N Engl J Med 2024;390:132-42. DOI: 10.1056/NEJMoa2305434
16. Sekijima Y, Yoshida K, Tokudo T, et al. Familial Transthyretin Amyloidosis. Gene Reviews [internet]. Available at: https://www.ncbi.nlm.nih.gov/books/NBK1194/. Accessed February 21, 2022.
17. Tess DA, et al. (2022) Relationship of binding-site occupancy, transthyretin stabilization and disease modification in patients with tafamidis-treated transthyretin amyloid cardiomyopathy. Amyloid, 30(2), 208-219. https://doi.org/10.1080/13506129.2022.2145876

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 07/27/2026

P&T Date: 06/11/2026</td><td>Removed criteria requiring trial and failure, contraindication, or intolerance to a transthyretin stabilizer indicated for ATTR-CM to instead leverage the trial and failure of preferred criterion for enforcing step therapy requirement</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/05/2025</td><td>Added criteria for new ATTR-CM indication

Reworded diagnosis criteria for clarity to align with approved labeling

Removed hATTR-PN criteria preventing use with NYHA class >2 since Amvuttra can now be used for cardiomyopathy in patients beyond class 2

Removed criteria preventing use with previous liver transplant to align with management for other ATTR therapies</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/10/2023</td><td>Annual review of criteria performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/08/2022</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 08/04/2022</td><td>New Policy</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 07/28/2022</td>
<td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Anktiva® (nogapendekin alfa inbakicept-pmln)
HCPCS: J9028

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bladder cancer is one of the more common forms of cancer. Approximately 75% - 80% of newly diagnosed bladder cancers are classified as NMIBC – a type of cancer that has grown through the lining of the bladder but hasn't yet invaded the muscle layer. This type of cancer is associated with high rates of recurrence (between 30 to 80%) and the risk of progression to invasive and metastatic disease.

- Treatment and care of patients with high-risk NMIBC, including those with CIS, often involves removing the tumor followed by BCG bladder instillation therapy to reduce the risk of recurrence. Few effective treatment options exist for patients who develop BCG-unresponsive disease. The failure to achieve a complete response, or the disappearance of all signs of cancer as seen on cystoscopy, biopsied tissue, and urine, is associated with an increased risk of death or a disease-worsening event.

- Anktiva is an interleukin-15 (IL-15) receptor agonist indicated with BCG for the treatment of adult patients with BCG-unresponsive nonmuscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors.

- The 2026 National Comprehensive Cancer Network Bladder Cancer Treatment Guidelines recommend TURBT for staging followed by a single dose of intravesicular mitomycin or gemcitabine as the first step in treatment. Following the tumor evaluation, if the tumor is considered high-grade, BCG is the preferred adjuvant therapy and intravesicular mitomycin or gemcitabine provide additional options to those who aren't candidates for BCG therapy. BCG is typically given weekly for 6 weeks at induction followed by maintenance of 3 weekly instillations at month 3, 6, 12, 18, 24, 30, and 36. Two 6-week BCG induction courses should be completed before the patient is considered non-responsive to the therapy. If patients have had recurrence or are considered non-responsive to BCG therapy, cystectomy, Keytruda®, or Adstiladrin® are currently recommended as second-line therapies.

- Safety and efficacy were evaluated in QUILT-3.032 trial, a single-arm, multicenter trial in 77 adults with BCG-unresponsive, high-risk, NMIBC with CIS with or without Ta/T1 papillary disease following transurethral resection. BCG-unresponsive high-risk NMIBC was defined as persistent or recurrent CIS within 12 months of receiving adequate BCG therapy, recurrent high-grade Ta/T1 disease within 6 months of completion of adequate BCG therapy, or T1 high-grade disease at the first evaluation following an induction BCG course alone. Adequate BCG was defined as the administration of at least five of six doses of an initial induction course plus either at least two of three doses of maintenance therapy or at least two of six doses of a second induction course. If patients experienced failure of BCG therapy during induction, they must have gotten at least 5 of six doses of the initial induction course. Patients were excluded from the trial if they had an ECOG score greater than 2 or had concomitant upper tract urothelial carcinoma or urothelial carcinoma within the prostatic urethra. All visible papillary tumors were resected and those with persistent T1 disease on TURBT should undergo an additional re-TURBT prior to beginning therapy. Patients received 400 mcg Anktiva with BCG weekly for 6 consecutive weeks during the induction treatment period and then once a week every 3 weeks at 4, 7, 10, 13, and 19 months for patients with no or low grade disease. Patients with persistent CIS or high grade Ta disease at 3 months were eligible to receive a second induction course. Patients with ongoing complete response at 25 months were eligible to receive additional instillations once a week every 3 weeks at months 25, 31, and 37. Overall, 62% of subjects experienced a complete response rate with 58% having a response lasting for at least a year and 40% for at least two years.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Anktiva [prescribing information]. Culver City, CA: Altor BioScience, LLC; April 2024.
2. Clinicaltrials.gov. A multicenter clinical trial of intravesical Bacillus Calmette-Guerin (BCG) in combination with ALT-803 (N-803) in patients with BCG unresponsive high grade non-muscle invasive bladder cancer (NCT03022825). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03022825. Accessed on April 23, 2024.
3. National Comprehensive Cancer Network. Baldder cancer (Version 1.2026). 2026 March 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed on April 2, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 06/11/2026</td><td>Updated to include the provider portal statement</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed - no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/01/2025</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/06/2024</td><td>New Policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Arcalyst® (rilonacept)
HCPCS: J2793

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Arcalyst is an interleukin(IL)-1β blocker indicated for the treatment of
  - Adults and children 12 years of age and older with Cryopyrin-Associated Periodic Syndromes (CAPS), including Familial Cold Autoinflammatory Syndrome (FCAS) and Muckle-Wells Syndrome (MWS)
  - Maintenance of remission of deficiency of interleukin-1 receptor antagonist (DIRA) in adults and pediatric patients weighing at least 10 kg
  - Treatment of recurrent pericarditis (RP) and reduction in risk of recurrence in adults and children 12 years and older

- Cryopyrin-Associated Periodic Syndromes
  - CAPS are a group of rare genetic diseases affecting approximately 200 to 300 people in the United States, attributed to a specific genetic mutation. There are two types of CAPS recognized that affect the majority of patients.
    - FCAS patients have recurrent intermittent episodes of fever and rash that primarily follow natural, artificial (e.g., air conditioning), or both types of generalized cold exposure.
    - MWS patients have chronic fever and rash that may wax and wane in intensity. Symptoms are sometimes exacerbated by generalized cold exposure. This syndrome may be associated with deafness or amyloidosis.
  - The diagnosis of CAPS is confirmed by genetic testing for NALP3 mutations, however, in some patients, the mutation is not detectable for various reasons. In patients with no detectable NALP3 mutations, diagnostic criteria include raised inflammatory markers (C-reactive protein [CRP] and serum amyloid A) plus at least two of six typical CAPS manifestations which include urticaria-like rash, cold-triggered episodes, sensorineural hearing loss, musculoskeletal symptoms, chronic aseptic meningitis, and skeletal abnormalities.
  - Ilaris® (canakinumab) is another IL-1β blocker indicated for the treatment of CAPS. Both products appear to have similar efficacy. Ilaris has a more convenient dosing regimen and is indicated for a younger age population (4 years old).

- Deficiency of Interleukin-1 Receptor Antagonist
  - DIRA is a very rare genetic autoinflammatory syndrome that presents in the first days of life. The distinctive features are inflammatory changes in the skin and bone in the absence of fever. All affected children develop a pustular rash in which there may be discrete crops of pustules or a severe generalized pustular eruption that may resemble generalized pustular psoriasis. All patients will also develop inflammation in the bones, which causes painful movement, joint swelling, and characteristic changes on x-ray. Patients may also present with fetal distress, mouth lesions, hepatosplenomegaly, generalized ichthyosis-like changes, pitting and separation of the nail from the nail bed, stomatitis, and conjunctivitis. If left untreated, patients may die of multisystem organ failure.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Diagnosis of DIRA is confirmed through genetic testing for IL1RN mutations. DIRA is an autosomal recessive anti-inflammatory disease and therefore, patients should have two mutations of the IL1RM gene to exhibit symptoms. The double mutation causes an absence of interleukin-1–receptor antagonist allowing unopposed action of interleukin-1 resulting in systemic inflammation with skin and bone involvement.
- Kineret has been used as a first-line agent for the treatment of DIRA since the disease's discovery and can be used for induction and maintenance of remission. Arcalyst has only been studied to maintain remission following induction with Kineret. There are no head to head trials to show Arcalyst is superior to Kineret once remission is reached, as such, since patients must start therapy with Kineret, it is reasonable to continue therapy with it unless an adverse reaction or contraindication is experienced.

- Recurrent Pericarditis
  - Recurrent pericarditis refers to a syndrome in which acute pericarditis recurs after the agent inciting the original acute attack has disappeared or has ceased to be active. It is diagnosed with a documented first episode of acute pericarditis, a symptom-free interval of 4 – 6 weeks or longer, and evidence of subsequent recurrence of pericarditis, such as: chest pain, pericardial rub, fever, electocardiogarm changes, new or worsening pericardial effusion, and/or elevated markers of inflammation. The recurrence rate after an initial episode of pericarditis ranges from 15% to 30%.
  - The 2015 European Society of Cardiology Guidelines for the Diagnosis and Management of Pericardial Diseases recommend therapy be targeted at the underlying etiology in patients with an identified cause with aspirin or NSAIDs remaining the mainstay of therapy. Colchicine is recommended on top of standard anti-inflammatory therapy to improve the therapeutic response, improve remission rates, and prevent recurrences.
  - In cases of incomplete response to aspirin/NSAIDs and colchicine, treatment guidelines state corticosteroids may be used, but they should be added at low to moderate doses to aspirin/NSAIDs and colchicine as triple therapy. Corticosteroids should not replace these other therapies and should be used to achieve better control of symptoms. Corticosteroids at low to moderate doses should be avoided if infections cannot be excluded and should be restricted to patients with specific indications, such as, systemic inflammatory diseases, post-pericardiotomy syndromes, or pregnancy, or those with NSAID contraindications. Although corticosteroids provide rapid control of symptoms, they favor chronicity, more recurrences, and side effects. If corticosteroids are used, they should be tapered slowly. A critical threshold for recurrences is a 10 – 15 mg/day dose of prednisone or equivalent. In cases of recurrence, every effort should be made not to increase the dose or to reinstate corticosteroids.
  - After obtaining a complete response, tapering should be done with a single class of drug at a time before colchicine is gradually discontinued. Recurrences are possible after discontinuation of each drug. Each tapering should be attempted only if symptoms are absent and C-reactive protein (CRP) is normal.
  - Kineret has been shown to reduce the risk of further recurrences in patients with recurrent pericarditis. In the AIRTRIP trial, 21 patients with at least three episodes of recurrent pericarditis were treated with Kineret for two months. After two months, and following resolution of pericarditis symptoms, patients were randomized in a double-blind fashion to continue Kineret or switch to placebo for six months or until symptoms recurred. After a median follow-up of 14 months, patients in the Kineret group had significantly fewer recurrences (18% versus 90%) and greater symptom-free survival compared with patients receiving placebo. Patients treated with Kineret were able to wean off of corticosteroids.
  - Safety and efficacy of Arcalyst was established in the RHAPSODY trial, a Phase III, double-blind, placebo-controlled, randomized withdrawal study of 86 patients with symptomatic pericarditis recurrence. Patients were included if they were presenting with at least their third episode of pericarditis at screening and had been on stable doses of aspirin/NSAIDs, colchicine, and/or glucocorticoids for at least 3 days prior to Arcalyst administration. Patients were excluded if

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

they pericarditis secondary to tuberculosis, post-thoracic blunt trauma, myocarditis, systemic autoimmune diseases, or neoplastic, purulent, or radiation etiologies. The primary efficacy endpoint was time to first adjudicated pericarditis recurrence based on pain, CRP and clinical signs in the event-driven withdrawal period. Of the 61 subjects randomized, 23 (74%) in the placebo arm had a recurrence compared with 2 (7%) in the rilonacept arm who temporarily discontinued treatment for 1 – 3 doses. The median time-to-recurrence on rilonacept could not be estimated because too few events occurred and was 8.6 weeks (95% CI 4.0, 11.7) on placebo with a hazard ratio of 0.04 ($p < 0.0001$). The median time to treatment response was 5 days with a 97% treatment response rate. In addition, patients receiving Arcalyst had a 96% reduction in the risk of a recurrent pericarditis event.

- Arcalyst and Kineret are IL-1 inhibitors that have been studied in the treatment of recurrent pericarditis. Guidelines do not recommend the use of one agent over another and there are no head to head trials comparing the efficacy of Arcalyst and Kineret for the indication; therefore, use of Kineret provides the best value.
- Arcalyst has not been studied in combination with other biologic medications, such as Kineret, for use in recurrent pericarditis. Due to lack of evidence for combination use, Arcalyst should not be used in combination with other biologics for recurrent pericarditis.

References:

1. Arcalyst [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc. May 2021.
2. Nigrovic, PA. Cryopyrin-associated periodic syndromes and related disorders. UpToDate, Waltham, MA, 2020.
3. Padeh, YC. Hyperimmunoglobulin D Syndrome: Management. UpToDate, Waltham, MA, 2020.
4. Kuemmerle-Deschner JB, Ozen S, Tyrrell PN, et al. Diagnostic criteria for cryopyrin-associated periodic syndrome (CAPS). Ann Rheum Dis. 2017; 76 (6): 942.
5. Aksentijevich I, Masters SL, Ferguson PJ, et al. An autoinflammatory disease with deficiency of the interleukin-1–receptor antagonist. NEJM. 2009 June 4; 360: 2426 – 37.
6. Dyall-Smith D. Deficiency of the interleukin-1 receptor antagonist. 2011. Available at: https://dermnetnz.org/topics/deficiency-of-the-interleukin-1-receptor-antagonist-dira/. Accessed on January 5, 2021.
7. Gabay C, Lamacchia C, & Palmer G. IL-1 pathways in inflammation and human diseases. Nat Rev Rheumatol. 2010; 6: 232 – 41.
8. Goldbach-Mansky R & Kastner DL. Autoinflammation: the prominent role of IL-1 in monogenic autoinflammatory diseases and implications for common illnesses. J Allergy Clin Immunol. 2009; 124: 1141 – 9.
9. Autoinflammatory Alliance. Deficiency of IL-1 receptor antagonist (IL-1RA) known as DIRA. 2017. Available at: http://autoinflammatory.org/dira.php. Accessed on January 5, 2021.
10. Garg M, de Jesus AA, Chapelle D, et al. Rilonacept maintains long-term inflammatory remission in patients with deficiency of the IL-1 receptor antagonist. JCI Insight. 2017 Aug 17; 2 (16): e94838.
11. Adler Y, Charron P, Imazio M, et al. 2015 ESC guidelines for the diagnosis and management of pericardial diseases. European Heart J. 2015; 36: 2921 – 64.
12. Klein AL, Imazio M, Cremer P, et al. Phase 3 trial of interleukin-1 trap rilonacept in recurrent pericarditis. NEJM. 2021; 384: 31 – 41.
13. Brucato A, Imazio M, Gattorno M, et al. Effect of anakinra on recurrent pericarditis among patients with colchicine resistance and corticosteroid dependence: the AIRTRIP randomized clinical trial. JAMA. 2016; 316 (18): 1906.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.8</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 10/03/2024</td><td>Removed criteria preventing combination use with other biologic medications used for recurrent pericarditis, such as, Kineret and added “Not to be used in combination with other biologics or targeted DMARDs for the same indication” criteria</td></tr>
<tr><td>1.6</td><td>Effective Date: 06/06/2024</td><td>Updated to include criteria not allowing use with other biologic agents for recurrent pericarditis</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/08/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/09/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 09/13/2021</td><td>PA added to MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/10/2021</td><td>Updated to add new indication of recurrent pericarditis</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/04/2021</td><td>Updated to add new indication of deficiency of IL-1 receptor antagonist</td></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2020</td><td>New policy – previous criteria for Arcalyst was part of the CAPS policy which will be retired.

Updates were made to previous criteria as part of the annual review process.
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		BCN	No
		MAPPO	No
		BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Atezolizumab Products

Tecentriq® (atezolizumab) **- HCPCS: J9022**
Tecentriq Hybreza™ (atezolizumab and hyaluronidase-tqjs) **- HCPCS: J9024**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tecentriq and Tecentriq Hybreza are a programmed death receptor-1 (PD-L1)-blocking antibodies indicated for the following:
  - As adjuvant treatment following resection and platinum-based chemotherapy for adult patients with Stage II to IIIA non-small cell lung cancer (NSCLC) whose tumors have PD-L1 expression on ≥ 1% of tumor cells, as determined by an FDA-approved test
  - For the first-line treatment of adult patients with metastatic NSCLC whose tumors have high PD-L1 expression (PD-L1 stained ≥ 50% of tumor cells [TC ≥ 50%] or PD-L1 stained tumor-infiltrating immune cells [IC] covering ≥ 10% of the tumor area [IC ≥ 10%]), as determined by an FDA approved test, with no EGFR or ALK genomic tumor aberrations
  - In combination with bevacizumab, paclitaxel, and carboplatin, for the first-line treatment of adult patients with metastatic non-squamous NSCLC with no EGFR or ALK genomic tumor aberrations
  - In combination with paclitaxel protein-bound and carboplatin for the first-line treatment of adult patients with metastatic non-squamous NSCLC with no EGFR or ALK genomic tumor aberrations
  - For the treatment of adult patients with metastatic NSCLC who have disease progression during or following platinum-containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for NSCLC harboring these aberrations prior to receiving Tecentriq.
  - In combination with carboplatin and etoposide, for the first-line treatment of adult patients with extensive-stage small cell lung cancer (ES-SCLC)
  - In combination with lurbinectedin, for the maintenance treatment of adult patients with ES-SCLC whose disease has not progressed after first-line induction therapy with Tecentriq or Tecentriq Hybreza, carboplatin, and etoposide
  - In combination with bevacizumab for the treatment of patients with unresectable or metastatic hepatocellular carcinoma (HCC) who have not received prior systemic therapy
  - In combination with cobimetinib and vemurafenib for the treatment of patients with BRAF V600 mutation-positive unresectable or metastatic melanoma

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - For the treatment of adult and pediatric patients 2 years of age and older with unresectable or metastatic alveolar soft part sarcoma (ASPS)

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- There are no studies to support use of Tecentriq or Tecentriq Hybreza following failure. NCCN treatment guidelines also do not recommend use of Tecentriq, Tecentriq Hybreza, or other PD-L1 checkpoint inhibitors following a previous failure.

- Tecentriq and Tecentriq Hybreza have not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Tecentriq [prescribing information]. South San Francisco, CA: Genentech, Inc.; March 2026.
2. Tecentriq Hybreza [prescribing information]. South San Francisco, CA: Genentech, Inc.; November 2025.
3. Rosenberg JE, Hoffman-Censits J, Powles T, et al. Atezolizumab in patients with locally advanced and metastatic urothelial carcinoma who have progressed following treatment with platinum-based chemotherapy: a single-arm, multicenter, phase 2 trial. Lancet. 2016; 387: 1909 - 20.
4. F Barlesi, K Park, F Ciardiello, et al. Atezolizumab versus docetaxel in patients with previously treated non-small-cell lung cancer (OAK): a phase 3, open-label, multicenter randomized controlled trial. Lancet. 2017 Jan; 2127: 255 – 65.
5. Balar AV, Galsky MD, Rosenberg JE et al. Atezolizumab as first line treatment in cisplatin ineligible advanced and metastatic urothelial carcinoma: a single arm, multicenter, phase 2 trial. Lancet. 2017; 389: 67 – 76.
6. National Comprehensive Cancer Network. Melanoma: cutaneous (Version 2.2026). 2026 April 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on April 23, 2026.
7. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 5.2026). 2026 March 13. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on April 23, 2026.
8. National Comprehensive Cancer Network. Small cell lung cancer (Version 2.2026). 2025 Sept 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/sclc.pdf. Accessed on April 23, 2026.
9. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 1.2026). 2026 March 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on April 23, 2026.
10. National Comprehensive Cancer Network. Soft tissue sarcoma (Version 3.2026). 2026 March 12. Available at: https://www.nccn.org/professionals/physician_gls/pdf/sarcoma.pdf. Accessed on April 23, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
2.4	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
2.3	Effective Date: 07/21/2025 P&T Date: 06/05/2025	Updated to only allow 24 months of therapy for metastatic non-small cell lung cancer and added the trial and failure of preferred products statement
2.2	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Tecentriq Hybreza
2.1	Effective Date: 10/03/2024	Updated to include Tecentriq Hybreza. The name of the policy was changed from Tecentriq to Atezolizumab Products.
2.0	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
1.9	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time
1.8	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 02/04/2021	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 02/06/2020	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 02/14/2019	Update to include the expanded indication for non-squamous NSCLC and updated to include FDA approved indications and NCCN recommendations
1.4	Effective Date: 02/01/2019	UM medical management system update for BCBS, MAPPO, and BCNA for Tecentriq
1.3	Effective Date: 11/01/2018	Indication revision for metastatic urothelial carcinoma
1.2	Effective Date: 11/09/2017	Expanded indication for metastatic urothelial cancer
1.1	Effective Date: 05/04/2017	Expanded indication: NSCLC
1.0	Effective Date: 02/09/2017	New Drug Review UM medical management system update for BCN for Tecentriq

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Aucatzyl® (obecabtagene autoleucel)
HCPCS: Q2058

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Aucatzyl is indicated for the treatment of adult patients with relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL).

- Safety and efficacy for use in acute lymphoblastic leukemia were established in the FELIX trial, a multicenter, phase II trial of 112 adult patients with relapsed or refractory ALL. If patients were Philadelphia chromosome positive they had to be intolerant to a tyrosine kinase inhibitor (TKI), had failed 2 previous lines of treatment with any TKI or 1 line of a second-generation TKI, or had a contraindication to a TKI. Patients with prior allogeneic SCT within 100 days of therapy, any active central nervous system malignancy, ECOG performance status of 2 or greater, or active serious infection were excluded. The primary end point was complete response (CR) and CR with incomplete count recovery (CRi). Secondary end points included event-free survival, overall survival (OS), safety, and duration of response (DOR). Of the 65 patients evaluable for efficacy, 27 patients (42%; 95% CI: 29%, 54%) achieved CR within 3 months. The median duration of CR achieved within 3 months was 14.1 months (95% CI: 6.1, not reached).

- Use of Aucatzyl required adequate kidney function. Other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Aucatzyl should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 ml/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. There is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Aucatzyl should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.

- Provider portal platforms allow the capture of clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Aucatzyl [prescribing information]. Gaithersburg, MD: Autolus Inc.; February 2026.
2. Clinicaltrials.gov. A study of CD19 targeted CAR-T cell therapy in adult patients with relapsed or refractory b-cell acute lymphoblastic leukemia (NCT04404660). Available at: https://clinicaltrials.gov/study/NCT04404660. Accessed on November 11, 2024.
3. National Comprehensive Cancer Network. Acute lymphoblastic leukemia (Version 2.2025). 2025 June 27. Available at: https://www.nccn.org/professionals/physician_gls/pdf/all.pdf. Accessed on March 1, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date:
06/01/2026

P&T Date:
04/16/2026</td><td>Updated to remove no diagnosis of Burkitt's lymphoma, no graft versus host disease, liver function test, no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, and no clinically significant CNS disease. Also added requirements of no active infection, must be administered at a certified treatment center, and updated the approval length to 6 months</td></tr>
<tr><td>1.3</td><td>Effective Date:
12/04/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date:
12/12/2024</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.1</td><td>Effective Date:
11/21/2024</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 10/03/2024	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Avlayah™ (tividenofusp alfa-eknm)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- MPSII is an X-linked recessive lysosomal storage disorder caused by a mutation on the I2S gene
- It is characterized by lysosomal accumulation of undegraded heparan and dermatan sulfate due to a deficiency of the enzyme iduronate-2-sulfatase
- Signs, symptoms, and severity can vary greatly among MPSII patients due to the multisystem nature of the disease
- The most common symptoms include coarsened facial features, an enlarged head, an enlarged tongue, hypertrophic tonsils and adenoids, irregularly shaped teeth, recurrent otitis media, hepatosplenomegaly, abdominal and/or inguinal hernias, thickened pebbled skin, and short stature
- The disorder occurs in approximately 1 in 100,000 to 1 in 170,000 male births
- The American College of Medical Genetics 2011 guidelines state MPSII should be confirmed through serum assay showing a decrease of iduronate-2-sulfatase activity
- Once shown the patient has a decrease in enzyme activity, a genetic test should be performed which should show a mutation in the I2S gene
- Both tests must be demonstrative of disease for the diagnosis to be confirmed
- Enzyme replacement is the standard of care in MPSII
- Elaprase the only FDA approved enzyme replacement therapy for patients with MPSII
- Initiation of enzyme replacement therapy should be done based on the judgement of the treating physician and parents should be counselled on the inability to reverse the cognitive deficits of the disease

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Kang J. Tividenofusp alfa gets priority review for hunter syndrome. 2025 July 23. Available at: https://www.neurologyadvisor.com/news/tividenofusp-alfa-gets-priority-review-for-hunter-syndrome/. Accessed on October 16, 2025.
2. Biospace.com. Denali Therapeutics announces U.S. FDA breakthrough therapy designation granted to tividenofusp alfa for the treatment of Hunter syndrome (MPS II). 2025 Jan 9. Available at: https://www.biospace.com/press-releases/denali-therapeutics-announces-u-s-fda-breakthrough-therapy-designation-granted-to-tividenofusp-alfa-for-the-treatment-of-hunter-syndrome-mps-ii. Accessed on October 16, 2025.
3. Clinicaltrials.gov. A study of tividenofusp alfa (DNL310) in pediatric participants with Hunter syndrome (NCT04251026). Available at: https://clinicaltrials.gov/study/NCT04251026?term=DNL310&rank=1#xd_co_f=MGNkOGY2NjktMml2NC00ZTNjLWE1MTEtNjYzMTM4MmViOTZi~. Accessed on October 16, 2025.
4. National Organization for Rare Disorders. Mucopolysaccharidosis type II. 2019 Sept 6. Available at: https://rarediseases.org/rare-diseases/mucopolysaccharidosis-type-ii-2/. Accessed on October 16, 2025.
5. Lehman TJ, Miller N, Norquist B, et al. Diagnosis of the mucopolysaccharidosis. Rheumatology. 2011; 50: v41 – v48.
6. Valayannaopoulos V & Wijburg F. Therapy for mucopolysaccharidosis. Rheumatology. 2011 Dec 1; 50 (Suppl 5): v49 - v59.
7. Cimaz R & La Torre F. Mucopolysaccharidoses. Curr Rheumatol Rep. 2014; 16 (389): 1 - 9.
8. Wang RW, Bodamer OA, Watson MS, et al. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genetic Med. 2011 May; 13 (3): 457 – 484.
9. Scarpa M, Almássy Z, Beck M, et al. Mucopolysaccharidosis type II: European recommendations for the diagnosis and multidisciplinary management of a rare disease. Orphanet J of Rare Dis. 2011; 6: 72 – 90.
10. McBride KL, Berry SA, Braverman N, et al. Treatment of mucopolysaccharidosis type II (Hunter syndrome): a Delphi derived practice resource of the American College of Medical Genetics and Genomics (ACMG). Gen Med. 2020 August 3; 22: 1735 – 42.

Policy History		
#	Date	Change Description
1.0	Effective Date: 12/04/2025	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Bavencio® (avelumab)
HCPCS: J9023

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bavencio is a programmed death ligand-1 (PD-L1) blocking antibody indicated for the treatment of adults and pediatric patients 12 years and older with metastatic Merkel cell carcinoma (MCC); for patients with locally advanced or metastatic urothelial carcinoma (UC) who have disease progression during or following platinum-containing chemotherapy or have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy; as maintenance therapy in UC for those who have not progressed with first-line platinum-containing chemotherapy; and for first-line treatment, in combination with axitinib, for patients with advanced renal cell carcinoma (RCC).

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- There are no studies to support use of Bavencio following failure. NCCN treatment guidelines also do not recommend use of Bavencio or other PD-L1 checkpoint inhibitors following a previous failure.
- Bavencio has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants

References:

1. Bavencio [prescribing information]. New York, NY: EMD Serono and Pfizer; June 2025.
2. Kaufman HL, Russell J, Hamid O, et al. Avelumab in patients with chemotherapy-refractory metastatic Merkel cell carcinoma: a multicenter, single-group, open-label, phase 2 trial. Lancet Oncol. 2016;17:1374-1385.
3. National Comprehensive Cancer Network. Merkel cell carcinoma (Version 2.2026). 2025 Oct 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mcc.pdf. Accessed December 9, 2025.
4. National Comprehensive Cancer Network. Bladder cancer (Version 2.2025). 2025 Oct 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed December 9, 2025.
5. Apolo AB, Infante JR, Balmanoukian A, et al. Avelumab, an anti-programmed death-ligand 1 antibody, in patients with refractory metastatic urothelial carcinoma: results from a multicenter, Phase Ib study. J Clin Oncol. 2017 April 4.
6. UpToDate (database online). Staging and Treatment of Merkel Cell Carcinoma. Waltham, MA; Wolters Kluwer, Inc.; 2017. Available at: http://www.uptodate.com. Accessed July 28, 2017.
7. Cairns P. Renal cell carcinoma. Cancer Biomark. 2011; 9 (1-6): 461 – 473.
8. National Comprehensive Cancer Network. Kidney cancer (Version 1.2026). 2025 July 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf. Accessed December 9, 2025.
9. Motzer RJ, Penkov K, Hannen J, et al. Avelumab plus axitinib versus sunitinib for advanced renal cell carcinoma. NEJM. 2019; 380: 1103 – 1115.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.1</td><td>Effective Date: 02/12/2026</td><td>Updated criteria to align with standard PD-L1 criteria</td></tr>
<tr><td>2.0</td><td>Effective Date: 02/13/2025</td><td>Annual review – no changes to the policy were made at this time</td></tr>
<tr><td>1.9</td><td>Effective Date: 02/08/2024</td><td>Annual review – no changes to the policy were made at this time</td></tr>
<tr><td>1.8</td><td>Effective Date: 02/02/2023</td><td>Updated approval length to allow for FDA recommended dosing for at least 60 days</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/04/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/12/2021</td><td>Annual review – no changes to the policy were made at this time</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/01/2021</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.4</td><td>Effective Date: 08/13/2020</td><td>Added new indication of maintenance therapy for advanced or metastatic urothelial carcinoma</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/15/2019</td><td>Added new indication of renal cell carcinoma</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.0</td><td>Effective Date: 04/01/2017</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*besp

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Benlysta® (belimumab)
HCPCS: J0490

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Benlysta is indicated for the treatment of patients aged 5 years and older with active, autoantibody-positive, systemic lupus erythematosus (SLE) who are receiving standard therapy and adult patients with active lupus nephritis who are receiving standard therapy.

- The efficacy of Benlysta has not been evaluated in patients with severe active central nervous system lupus. Severe active central nervous system lupus was defined as seizures, psychosis, organic brain syndrome, cerebrovascular accident, cerebritis, or CNS vasculitis requiring therapeutic intervention within the previous 60 days before initiation of Benlysta in the clinical trials. Use of Benlysta in patients with this condition is not recommended.

- Use of Benlysta also has not been studied in combination with other biologics and is not recommended.

- Seropositivity was defined in the clinical trials by 2 positive ANA titers (≥ 1:80) or anti-dsDNA antibodies (≥ 30 IU/mL) on different days. The 2019 EULAR/ACR classification system for SLE allow ANA levels to be used as a qualifier for SLE, however, because ANA can elevate transiently and also be a marker for other diagnoses, a second confirmatory test must be done to confirm seropositivity. While other classification systems exist to define lupus, these systems do not ensure patients are seropositive as they only have to meet a certain number of criterion for diagnosis. Those criterion may or may not include positive tests for elevated ANA or anti-dsDNA titers.

- Both the intravenous and subcutaneous formulation of Benlysta were studied in phase III, multicenter, randomized, placebo-controlled trials of patients with active, autoantibody-positive SLE. The intravenous formulations were assessed in the BLISS-76 and BLISS-52 trials and the subcutaneous formulation in the BLISS-SC trial. All trials included seropositive patients who were stable and maintained on standard therapy throughout the study. People with severe lupus nephritis or severe CNS lupus were excluded. Subjects were required to have a SELENA-SLEDAI score greater than 6 in the intravenous trials and greater than 8 in the subcutaneous trials. All studies primary endpoints were the SLE Responder Index (SRI4) response rate at week 52. The SRI4 is a composite index requiring a 4-point reduction in the SELENA–SLEDAI score, no worsening (increase from baseline) in the physician's global assessment (on a 0 – 10-cm visual analog scale), and no new British Isles Lupus Assessment Group (BILAG) A organ domain score or 2 new BILAG B organ domain scores at week 52 compared with baseline. In all studies, the Benlysta treatment arms showed statistical significance versus placebo for the primary endpoint.

- The use of Benlysta in patients with active lupus nephritis was studied in the BLISS-LN trial, a phase III, multinational, multicenter, randomized, double-blind, placebo-controlled study of 448 patients. The trial included seropositive patients who were stable and maintained on standard therapy throughout the study. Patients had biopsy proven lupus nephritis showing active lesions prior to study entry. Patients with a GFR of less than 30 ml/min/1.73 m^2 of body surface area (BSA) were excluded. The study met its primary endpoint demonstrating that a statistically significant greater number of patients achieved primary efficacy renal response (PERR) at 104 weeks when treated with Benlysta plus standard therapy compared to placebo plus standard therapy (43% vs 32%, odds ratio (95% CI) 1.55 (1.04, 2.32), p-value = 0.0311). Statistical

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

significance compared to placebo across all four major secondary endpoints was achieved, including complete renal response and time to renal-related event or death. The safety results are consistent with the known safety profile of Benlysta.

- The 2025 EULAR guidelines recommend kidney biopsy for SLE patients showing any sign of kidney involvement including glomerular hematuria and/or cellular casts, proteinuria greater than 0.5 g/24 hours, spot urine protein-to-creatine ratio (UPCR) greater than 500 mg/g, or unexplained decrease in glomerular filtration rate. The 2003 International Society of Nephrology/Renal Pathology Society (ISN/RPS) classification still represents the gold standard for assessment of kidney biopsy in LN. Patients with class III focal lupus nephritis, class IV diffuse lupus nephritis with or without coexisting class V membranous lupus nephritis, or pure class V lupus nephritis were included in the BLISS-LN trial.

- The 2020 EULAR guidelines recommend use of hydroxychloroquine in all patients with the use of glucocorticoids to treat flares. The goal of therapy is for patients to get into remission or a state of low disease activity. If hydroxychloroquine use is still resulting in disease flare, use of immunosuppressants should be considered. The guidelines state Benlysta should be considered in patients who have failed hydroxychloroquine in combination with glucocorticoids and immunosuppressants.

References:

1. Benlysta [prescribing information]. Rockville, MD: Human Genome Sciences, Inc.; June 2025.
2. Navarra SV, Guzmán RM, Gallacher AE, et al. Efficacy and safety of belimumab in patients with active systemic lupus erythematosus: a randomised, placebo-controlled, phase 3 trial. The Lancet 2011; 377 (9767): 721-731.
3. Wallace DJ, Stohl W, Furie RA, et al. A phase II, randomized, double-blind, placebo- controlled, dose-ranging study of belimumab in patients with active systemic lupus erythematosus. Arthritis Rheum 2009; 61 (9): 1168-1178.
4. The American College of Rheumatology response criteria for systemic lupus erythematosus clinical trials: measures of overall disease activity. Arthritis Rheum 2004; 50 (11): 3418-3426.
5. Specialty Pharmacy Combined Capacity Report #16 Benlysta (belimumab). Technology Evaluation Center. BCBSA.
6. Houssiau, Frederic, et al. Azathioprine versus mycophenolate mofetil for long-term immunosuppression in lupus nephritis: results from the MAINTAIN Nephritis Trial. Ann Rheum Dis 2010; 69: 2083–2089.
7. Rho, Young, et al. Drugs to Treat Systemic Lupus Erythematosus: Relationship between Current Use and Cardiovascular Risk Factors. Arch Drug Info 2008; 1: 23-28.
8. Mak, Anselm, et al. Mycophenolate mofetil is as efficacious as, but safer than, cyclophosphamide in the treatment of proliferative lupus nephritis: a meta-analysis and meta regression. J of Rheumatology 2009; 48: 944-952.
9. Haubitz, Marion. New and emerging treatment approaches to lupus. Biologics: Targets & Therapy 2010: 4 263-271.
10. Moore, Andrew R, and Derry Sheena. Systematic review and meta-analysis of randomized trials and cohort studies of mycophenolate mofetil in lupus nephritis. Arthritis Research & Therapy. 2006, 8: R182. Available at: http://arthritis-research.com/content/8/6/R182
11. Yildirim-Toruner, C and Diamond, B. “Current and Novel Therapeutics in Treatment of SLE”. J Allergy Clin Immunol. 2011 February; 127 (2): 303-314.
12. Fortin, Paul R. “Steroid-Sparing Effects of Methotrexate in Systemic Lupus Erythematosus: A Double-Blind, Randomized, Placebo-Controlled Trial”. American College of Rheumatology 2008; 59: 1796-1804.
13. Zhu, Bin, et al. “Mycophenolate mofetil in induction and maintenance therapy of severe lupus nephritis: a meta-analysis of randomized controlled trials”. Nephrol Dial Transplant 2007; 22: 1933-1942.
14. Finnish Medical Society Duodecim. Systemic lupus erythematosus (SLE). In: EBM Guidelines. Evidence-Based Medicine [Internet]. Helsinki, Finland: Wiley Interscience. John Wiley & Sons; 2007 Feb 20 [Various].

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

15. The Regence Group. Medical Policy for Benlysta. September 2011.
16. Stohl W, Schwarting A, Okada M, et al. Efficacy and safety of subcutaneous belimumab in systemic lupus erythematosus: a fifty-two-week randomized, double-blind placebo controlled study (BLISS-SC). Arthritis Rheumatol. 2017 May; 69 (5): 1016-1027.
17. Furie R, Petri M, Zamani O, et al. A phase III, randomized, placebo-controlled study of belimumab, a monoclonal antibody that inhibits B lymphocyte stimulator, in patients with systemic lupus erythematosus. Arthritis Rheum. 2011 Dec; 63 (12): 3918-30.
18. Aringer M, Costenbader K, Daikh D, et al. 2019 european league against rheumatism/american college of rheumatology classification criteria for systemic lupus erythematosus. Arthritis Rheumatol. 2019 Sept; 71 (9): 1400 – 12.
19. Tunnicliffe DJ, Singh-Grewal D, Kim S, at al. Diagnosis, monitoring, and treatment of systemic lupus erythematosus: a systematic review of clinical practice guidelines. 2015 Oct; 67 (10): 1440 – 52.
20. Furie R, Rovin BH, Houssiau F, et al. Two-year, randomized, controlled trial of belimumab in lupus nephritis. NEJM. 2020 Spet 17; 383 (12): 1117 – 28.
21. Fanouriakis A, Kostopoulou M , Cheema K, et al. 2025 update of the Joint European League Against Rheumatism and European Renal Association– European Dialysis and Transplant Association (EULAR/ ERA–EDTA) recommendations for the management of lupus nephritis. Ann Rheum Dis. 2026; 85 (1): 75 –90.
22. Weening JJ, D'Agati VD, Schwartz MM, et al. The classification of glomerulonephritis in systemic lupus erythematosus revisited. Kidney Int. 2004; 65: 521 – 30.

Policy History		
#	Date	Change Description
2.5	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made
2.3	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
2.2	Effective Date: 06/08/2023	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 06/09/2022	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 06/10/2021	Updated to remove not to be used with cyclophosphamide
1.9	Effective Date: 02/04/2021	Updated to add new indication for use in lupus nephritis
1.8	Effective Date: 06/11/2020	Updated policy to not allow use with other biologic medications and add the trial and failure of preferred products statement
1.7	Effective Date: 06/06/2019	Updated for new FDA approved age requirements
1.6	Effective Date: 02/14/2019	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 02/08/2018	Added SQ formulation

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 05/04/2017</td><td>Updated Medicare disclaimer</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/11/2016</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 01/22/2013</td><td>UM medical management system update for BCBSM and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 05/10/2012</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Beovu® (brolucizumab-dbll)
HCPCS: J0179

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Intravitreal injections of anti-vascular endothelial growth factor (VEGF) have been widely used by ophthalmologists to treat a variety of ocular diseases. They are injected directly into the eye to prevent the formation of new blood vessels and reduce blood vessel leakage and inflammation. Beovu is an anti-VEGF currently indicated for the treatment of neovascular (wet) age-related macular degeneration (AMD) and diabetic macular edema (DME).

- Age-related Macular Degeneration

    - Age-related macular degeneration is a degenerative disease of the macula that results primarily in loss of central vision. Wet AMD is characterized by growth of abnormal vessels into the subretinal space. These abnormal blood vessels leak leading to collections of subretinal fluid and/or blood beneath the retina. The 2024 American Academy of Ophthalmologists (AAO) Age-Related Macular Degeneration Preferred Practice Pattern Guidelines recommend observation and early detection, antioxidant vitamin and mineral supplements, and intravitreal injections of anti-VEGF agents for the management of wet AMD. Guidelines recommend Eylea™, Avastin®, Vabysmo™, or Lucentis for treatment. The guidelines have not been updated with Beovu®, Byooviz, and Susvimo.

- Diabetic Macular Edema

    - Diabetic retinopathy and DME are common complications and the ocular manifestations of end-organ damage in diabetes mellitus. The 2025 AAO Diabetic Retinopathy Preferred Practice Pattern Guidelines state the goals of therapy for DR and DME include improvement or stabilization of visual function, improvement in vision-related quality of life, and optimal control of blood glucose, blood pressure, and other metabolic risk factors. Patients should always be treated with anti-VEGF therapy if they have severe non-proliferative DR or proliferative DR with center-involved macular edema. In cases of mild to moderate non-proliferative DR with center-involved macular edema, patients should also receive intravitreal injections. The guidelines support the use of Lucentis, Eylea, Vabysmo, and Avastin. AAO recommendations were based on trials comparing Eylea, Avastin, and Lucentis to focal laser treatment. All trials showed that treatment with VEGF inhibitors resulted in statistically and clinically significant improvements in visual acuity in patients with DME after one to two years compared to laser treatment.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Beovu [prescribing information]. East Hanover, NJ: Novartis Pharmaceutical Corp.; July 2024.
2. Avastin [prescribing information]. South San Francisco, CA: Genentech, Inc.; September 2022.
3. Vemulakonda A, Bailey ST, Kim SJ, et al. Age-related macular degeneration preferred practice pattern. Ophthalmology. 2025 Feb. Available at: file:///C:/Users/e131093/Downloads/Age-Related%20Macular%20Degeneration%20PPP_Dec%202025.pdf. Access on April 13, 2026.
4. Tufail A, Patel PJ, Egan C, et al. Bevacizumab for neovascular age related macular degeneration (ABC Trial): multicentre randomized double masked study. BMJ. 2010; 340: c2459.
5. Dugel PU, Koh A, Ogura Y, et al. HAWK and HARRIER: phase 3, multicenter, randomized, double-masked trials of brolucizumab for neovascular age-related macular degeneration. Ophthalmology. 2020 Jan; 127 (1): 72-84.
6. Vedula SS & Krzystolik MG. Antiangiogenic therapy with anti-vascular endothelial growth factor modalities for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2008(2):CD005139. PMID: 18425911 6.
7. Solomon SD, Lindsley K, Vedula SS, et al. Anti-vascular endothelial growth factor for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2019 Mar 4; 3: CD005139. PMID: 30834517.
8. Jhaveri CD, Glassman AR, Ferris FL, et al. Aflibercept monotherapy or bevacizumab first for diabetic macular edema. NEJM. 2022 Aug 25; 387: 692 – 703.
9. Kim SJ, Lin JI, Bailey ST, et al. Diabetic retinopathy preferred practice pattern. Ophthalmology. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/diabetic-retinopathy-ppp. Accessed on April 13, 2026.

Policy History		
#	Date	Change Description
1.7	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 06/08/2023	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 04/06/2023	New policy. This policy replaces previously approved criteria that was embedded in the Intravitreal Injections for Retinal Conditions Policy which is being split into individual drug policies and retired. The authorization period for Beovu was updated from up to 1 year to at least 60 days and up to 1 year

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 02/03/2020</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/15/2019</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Bevacizumab Policy

Alymsys® (bevacizumab-maly) **- HCPCS: Q5126**
Avastin® (bevacizumab) **- HCPCS: J9035**
Avzivi® (bevacizumab-tnjn) **- HCPCS: J3590**
Jobevne™ (bevacizumab-nwgd) **- HCPCS: J9035**
Mvasi™ (bevacizumab-awwb) **- HCPCS: Q5107**
Vegzelma® (bevacizumab-adcd) **- HCPCS: Q5129**
Zirabev™ (bevacizumab-bvzr) **- HCPCS: Q5118**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bevacizumab and its biosimilars are monoclonal antibodies that bind to and inhibit the activity of vascular endothelial growth factor (VEGF). Bevacizumab is approved for the following indications:
  - In combination with intravenous fluorouracil-based chemotherapy for first- or second-line treatment of patients with metastatic colorectal cancer (mCRC)
  - In combination with fluoropyrimidine-irinotecan- or fluoropyrimidine-oxaliplatin-based chemotherapy for second-line treatment of patients with mCRC who have progressed on a first-line bevacizumab-containing regimen
  - In combination with carboplatin and paclitaxel for first-line treatment of patients with unresectable, locally advanced, recurrent or metastatic non–squamous non–small cell lung cancer (NSCLC)
  - The treatment of recurrent glioblastoma (GBM) in adults
  - In combination with interferon alfa for the treatment of metastatic renal cell carcinoma (mRCC)
  - In combination with paclitaxel and cisplatin or paclitaxel and topotecan for the treatment of patients with persistent, recurrent, or metastatic cervical cancer
  - In combination with carboplatin and paclitaxel followed by bevacizumab as a single agent for the treatment of patients with stage III or IV epithelial ovarian, fallopian tube, or primary peritoneal cancer following initial surgical resection
  - In combination with paclitaxel, pegylated liposomal doxorubicin, or topotecan for the treatment of patients with platinum-resistant recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer who received no more than 2 prior chemotherapy regimens

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In combination with carboplatin and paclitaxel or with carboplatin and gemcitabine followed by bevacizumab as a single agent for the treatment of patients with platinum-sensitive recurrent epithelial ovarian, fallopian tube, or primary peritoneal cancer

- In combination with atezolizumab for the treatment of patients with unresectable or metastatic hepatocellular carcinoma (HCC) who have not received prior systemic therapy

- While not specifically indicated for ocular conditions, bevacizumab has been used off-label for years to treat multiple eye disorders including macular degeneration, macular edema, and diabetic retinopathy. Bevacizumab has the same mechanism of action as the other therapies for these diseases and its use is guideline supported.

- NCCN guidelines state an FDA approved biosimilar can be substituted for Avastin. The guidelines do not specify what biosimilars are appropriate for a specific tumor type which allows for use of any of the biosimilars to be used for any indication the innovator product is FDA approved for.

References:

1. Avastin [prescribing information]. South San Francisco, CA: Genentech, Inc.; September 2022.
2. Mvasi [prescribing information]. Thousand Oaks, CA: Amgen, Inc.; June 2025.
3. Avzivi [prescribing information]. Guangzhou, Guangdong Province, China: Bio-Thera Solutions, Ltd.; December 2023.
4. Approved Drugs: "FDA approves bevacizumab in combination with chemotherapy for ovarian cancer". U.S. Food & Drug Administration. June 13, 2018. Accessed on: September 5th, 2018. Available from: https://www.fda.gov/Drugs/InformationOnDrugs/ApprovedDrugs/ucm610664.htm
5. Gynecologic Oncology Group (GOG)- 0218 (ClinicalTrials.gov identifier NCT00262847)
6. Zirabev [prescribing information]. New York, NY: Pfizer, Inc.; August 2024.
7. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 1.2026). 2026 March 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on April 13, 2026.
8. National Comprehensive Cancer Network. Biliary tract cancers (Version 1.2026). 2026 March 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/btc.pdf. Accessed on April 13, 2026.
9. National Comprehensive Cancer Network. Colon cancer (Version 2.2026). 2026 April 7. Available from: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed April 13, 2026.
10. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 5.2026). 2026 March 13. Available from: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed April 13, 2026.
11. National Comprehensive Cancer Network. Central nervous system cancers (Version 3.2025). 2025 Dec 5. Available from: https://www.nccn.org/professionals/physician_gls/pdf/cns.pdf. Accessed April 13, 2026.
12. National Comprehensive Cancer Network. Cervical cancer (Version 2.2026). 2025 Nov 10. Available from: https://www.nccn.org/professionals/physician_gls/pdf/cervical.pdf. Accessed April 13, 2026.
13. National Comprehensive Cancer Network. Kidney cancer (Version 1.2026). 2025 July 24. Available from: https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf. Accessed April 13, 2026.
14. National Comprehensive Cancer Network. Ovarian cancer including fallopian tube cancer and primary peritoneal cancer (Version 4.2026). 2026 April 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/ovarian.pdf. Accessed on April 13, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

15. Alymsys [prescribing information]. Bridgewater, NJ: Amneal Pharmaceuticals LLC; April 2022.
16. Vegzelma [prescribing information]. Incheon, Republic of Korea: Celltrion, Inc.; February 2023.

Policy History		
#	Date	Change Description
3.3	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
3.2	Effective Date: 03/04/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Jobevne
3.1	Effective Date: 06/05/2025	Updated to include Jobevne
3.0	Effective Date: 02/13/2025	Annual review of criteria was performed, no changes were made
2.9	Effective Date: 04/01/2024	UM medical management system update for MAPPO and BCNA for Avzivi
2.8	Effective Date: 02/08/2024	Updated to include Avzivi
2.7	Effective Date: 01/01/2024	UM medical management system update for BCBS and BCN for Avzivi
2.6	Effective Date: 12/14/2023	Annual review of criteria was performed, no changes were made
2.5	Effective Date: 03/09/2023	UM medical management system update to Vegzelma for BCBS and BCN
2.4	Effective Date: 03/01/2023	UM medical management system update to Vegzelma for MAPPO and BCNA
2.3	Effective Date: 12/01/2022	Updated to include Vegzelma and reflect an authorization period of at least 60 days
2.2	Effective Date: 06/09/2022	Updated to include Alymsys and change approval length to allow for FDA recommended dosing or up to 6 months at a time
2.1	Effective Date: 08/12/2021	Updated to remove the ophthalmologist requirement when used for ocular indications and the criteria for initiation of use 28 days after wound healing
2.0	Effective Date: 04/01/2021	UM medical management system update to Avastin for BCBS, BCN, MAPPO, and BCNA
1.9	Effective Date: 08/13/2020	Updated to include the new indication of hepatocellular carcinoma
1.8	Effective Date: 03/16/2020	UM medical management system update to Zirabev for MAPPO and BCNA

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.7	Effective Date: 01/01/2020	UM medical management system update to Mvasi for MAPPO and BCNA
1.6	Effective Date: 12/05/2019	Updated criteria to remove taxane requirement with use in mCRC per guidelines and FDA labeling
1.5	Effective Date: 08/15/2019	Updated criteria to allow use when aligned with NCCN guideline recommendations category 1 and 2A and added Zirabev
1.4	Effective Date: 11/01/2018	New Indication Update
1.3	Effective Date: 05/03/2018	Added Mvasi and changed name of policy to Bevacizumab
1.2	Effective Date: 05/04/2017	New Indication Update
1.1	Effective Date: 11/10/2016	Annual Review of Medical Policy
1.0	Effective Date: 05/07/2015	New Policy

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Bimzelx® (bimekizumab-bkzx)
HCPCS: J3590; C9399

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bimzelx is an interleukin (IL)-17A and IL-17F inhibitor approved to treat:
- Moderate to severe plaque psoriasis (PsO) in adults who are candidates for systemic therapy or phototherapy.
- Adults with active psoriatic arthritis (PsA)
- Adults with active non-radiographic axial spondyloarthritis (NRAS) with objective signs of inflammation
- Adults with active ankylosing spondylitis (AS)
- Adults with moderate to severe hidradenitis suppurativa (HS)
- Other drugs in this class (Cosentyx®, Taltz®, Siliq®) only target IL-17A.
- Psoriasis
- PsO is a chronic, painful and life-altering immune-mediated disease which predominantly manifests with skin and joint involvement. Patients may also experience significant cardiovascular and psychological comorbidities. Approximately 2% of U.S. adults are affected by psoriasis (men and women equally), and it can occur at any age. Approximately 90% of psoriasis-affected patients have plaque psoriasis, which is characterized by well-defined round or oval plaques that vary in size and often coalesce. The severity of psoriasis is defined as: mild = less than 3% of body affected; moderate = 3-10% of body affected; and severe being more than 10% of the body affected.
- Per the 2020 Joint American Academy of Dermatology - National Psoriasis Foundation (AAD-NPF) guidelines of care for the management and treatment of PsO with topical therapy and alternative medicine modalities for PsO severity measures: topical corticosteroids provide a high efficacy and good safety option for patients with localized disease. They are generally recommended as first-line therapy. Choice of steroid potency may depend on severity, location, patient preference, and patient age, while the duration of treatment may vary with steroid potency, location and severity of disease often ranging from 2-12 weeks. Therapeutic regimens may include 2-4 weeks with a topical steroid applied twice daily, followed by a maintenance regimen where topical steroids are alternated with a steroid-sparing topical agent. Treatment with topical steroids for over 12 weeks is recommended under careful supervision by a physician.
- Per the 2019 Joint AAD-NPF Foundation guidelines of care for the management and treatment of PsO with phototherapy: phototherapy serves as a reasonable and effective treatment option for patients requiring more than topical medications and/or those wishing to avoid systemic medications or simply seeking an adjunct to a failing regimen. Guidelines also state that the majority of patients with mild-to-moderate disease have adequate disease control with topical therapies and phototherapy alone.
- Per the 2020 Joint AAD-NPF guidelines of care for the management and treatment of PsO with systemic nonbiologic therapies: many oral medications, including methotrexate, cyclosporine, and acitretin, have been used for decades to treat psoriasis, each with its own benefits and risks. Most work by

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

targeting the immune system, whereas others, such as acitretin, work predominantly by decreasing keratinocyte hyperproliferation, thus restoring the normal epidermal differentiation. Both methotrexate and cyclosporine are category A guideline recommendations for the treatment of moderate to severe PsO in adults and for severe, recalcitrant PsO, respectively. Studies examining the use of methotrexate and cyclosporine in PsO showed the primary efficacy endpoints met within 12-16 weeks. Acitretin is a category B guideline recommendation as monotherapy for plaque psoriasis, with full treatment response expected within 3-6 months.

- Per the 2019 Joint AAD-NPF guidelines of care for the management and treatment of PsO with biologics: biologic agents, as monotherapy or combined with other topical or systemic medications, have a high benefit-to-risk ratio. Tumor necrosis factor inhibitors (TNFi) and inhibitors of IL-12/IL-23, IL-23, and IL-17 have a category "A" recommendation as a monotherapy treatment option for adult patients with moderate-to-severe plaque PsO. Guidelines do not recommend one product over another and note the similar efficacy seen across biologics within the same class. Use of products with the lowest net cost therefore provide the greatest value.
- The guidelines have not been updated to include Bimzelx. Additionally, there are no published, robust studies to support the use of more than one biologic product or targeted DMARD in combination.
- Psoriatic Arthritis
- PsA is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.
- Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis:
- All recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.
- In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.
- If PsA remains active despite OSM therapy, switching to a tumor necrosis factor inhibitor (TNFi), an IL-17 inhibitor (IL-17i), or an IL-12/23i is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. Additional treatment options include Orencia (abatacept) and Xeljanz (tofacitinib). The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis
- Ankylosing Spondylitis and Non-Radiographic Axial Spondyloarthritis
- Axial spondyloarthritis, comprising AS and NRAS, is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.
- The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with nonsteroidal anti-inflammatory drugs (NSAIDS), treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Cosentyx® (secukinumab) or Taltz (ixekizumab) is recommended over the use of a second TNFi in patients

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

- Hidradenitis Suppurativa
- Hidradenitis suppurativa (HS) also known as acne inversa, is a chronic, inflammatory, recurrent, debilitating skin disease of the hair follicle that usually presents after puberty with painful, deep-seated, inflamed lesions in the apocrine gland-bearing areas of the body, most commonly the axillae, inguinal and anogenital regions.
- Per the 2019 North American clinical management guidelines for hidradenitis suppurativa: A publication from the United States and Canadian Hidradenitis Suppurativa Foundations Part II: Topical, intralesional, and systemic medical management:
- Systemic antibiotics have been a mainstay of HS treatment for decades, with many regimens reported. Tetracyclines are recommended in mild-to-moderate HS for a 12-week course or as long-term maintenance when appropriate. Clindamycin and rifampin in combination is effective as a second-line treatment for mild-to-moderate disease or as a first-line or adjunct treatment in severe disease. Moxifloxacin, metronidazole, and rifampin in combination are recommended as second- or third-line treatment in moderate-to-severe disease. Dapsone may be effective as maintenance therapy.
- For moderate to severe disease (i.e., inflammatory lesions with skin tunnels or scarring; Hurley stage II or III disease) that is unresponsive to at least one oral antibiotic, biologic therapy may be indicated. Adalimumab was the first systemic biologic FDA approved for moderate to severe HS and is recommended by the 2019 guidelines to improve disease severity and quality of life in patients with moderate to severe HS. The guidelines have not been updated to include other biologics approved for HS, including bimekizumab and secukinumab.

References:

1. Bimzelx [prescribing information]. Smyrna, GA: UCB, Inc.; November 2024.
2. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy [published correction appears in J Am Acad Dermatol. 2020 Mar;82(3):780]. J Am Acad Dermatol. 2019;81(3):775-804. doi:10.1016/j.jaad.2019.04.042
3. Elmets CA, Korman NJ, Prater EF, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures [published online ahead of print, 2020 Jul 30]. J Am Acad Dermatol. 2020;S0190-9622(20)32288-X. doi:10.1016/j.jaad.2020.07.087
4. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
5. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072.
6. Singh JA, Guyatt G, Ogdie A, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis & Rheumatology. 2018; 0(0): 1-28. https://www.rheumatology.org/Portals/0/Files/PsA-Guideline-Early-View-Version.pdf

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

7. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613
8. Alikhan A, Sayed C, et al. North American clinical management guidelines for hidradenitis suppurativa: A publication from the United States and Canadian Hidradenitis Suppurativa Foundations: Part I: Diagnosis, evaluation, and the use of complementary and procedural management. J Am Acad Dermatol. 2019 Jul;81(1):76-90. doi: 10.1016/j.jaad.2019.02.067. Epub 2019 Mar 11. PMID: 30872156; PMCID: PMC9131894.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 12/12/2024</td><td>Added criteria for the following new indications: psoriatic arthritis, non-radiographic axial spondyloarthritis, ankylosing spondylitis, and hidradenitis suppurativa</td></tr>
<tr><td>1.2</td><td>Effective Date: 10/03/2024</td><td>Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/12/2024</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/14/2023</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blenrep (belantamab mafodotin-blmf)
HCPCS: J9053

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Blenrep is a BCMA-directed antibody and microtubule inhibitor conjugate indicated in combination with bortezomib and dexamethasone for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least two prior lines of therapy, including a proteasome inhibitor and an immunomodulatory agent.

- There are no studies and NCCN guidelines do not support use of Blenrep following failure in a previous line of therapy or after failure of another BCMA-directed antibody microtubule inhibitor conjugate.

References:

1. Blenrep [prescribing information]. Durham, NC: GlaxoSmithKline; October 2025.
2. National Comprehensive Cancer Network. Multiple myeloma (Version 2.2026). 2025 July 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on October 27, 2025.
3. Hungria V, Robak P, Hus M, et al. Belantamab mafodotin plus bortezomib and dexamethasone in patients with relapsed or refractory multiple myeloma (DREAMM-7): updated overall survival analysis from a global, randomised, open-label, phase 3 trial. Lancet Onc. 2025 August; 26 (8): 1067 – 80.

Policy History

#	Date	Change Description
1.1	Effective Date: 08/12/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	Yes
BCN	Yes
MAPPO	Yes
BCNA	Yes

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 12/04/2025</td>
<td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Botulinum Toxin Type A

Botox® (onabotulinumtoxinA) **- HCPCS: J0585**
Daxxify® (daxibotulinumtoxinA) **- HCPCS: J0589**
Dysport® (abobotulinumtoxinA) **- HCPCS: J0586**
Xeomin® (incobotulinumtoxinA) **- HCPCS: J0588**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Botulinum toxin is a neurotoxin that is injected into a muscle to cause temporary paralysis of that muscle through the inhibition of acetylcholine release from peripheral cholinergic nerve endings. There are three commercial botulinum toxin type A products available: Botox (onabotulinumtoxinA), Dysport (abobotulinumtoxinA), and Xeomin (incobotulinumtoxinA). These agents differ in their manufacturing, isolation and purification processes and utilize different Clostridium batches.

- At comparable doses, the botulinum toxin A can be considered therapeutically equated. Data are limited and one botulinum toxin A product is not considered superior to the others. Botulinum toxin A products are not interchangeable and require medical expertise to convert patients from one formulation to another.

Appendix 1: International Headache Society Classification of Chronic Migraine Headache

A. Headache (tension-type or migraine) on 15 or more days per month for at least 3 months.*
B. Occurring in a patient who has had at least 5 attacks fulfilling criteria for a migraine without an aura
C. On 8 or more days per month for at least 3 months headache has fulfilled criteria for pain and associated symptoms of migraine without aura in either or both of criteria 1 or 2 below:
    1. At least two of the following criteria a), b), c) and d) below are met:
        a) Unilateral location
        b) Pulsating quality
        c) Moderate or severe pain intensity
        d) Aggravation by or causing avoidance of routine physical activity
    2. Treated and relived by triptan(s) or ergot before the expected development of the above symptoms.
D. No medication overuse and not attributed to another causative disorder

© 2012 RegenceRx. All rights reserved

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Appendix 2: Medications for Abortive Migraine Treatment

Class	Common Examples
Triptans	Imitrex® (sumatriptan), Maxalt®, Zomig®, Amerge® (naratriptan), Axert®, Frova®, Relpax®
Analgesics	Aspirin, acetaminophen
Non-steroidal Anti-inflammatory Drugs	Motrin® (ibuprofen), Naprosyn® (naproxen), Relafen® (nabumetone), Voltaren® (diclofenac), Orudis® (ketoprofen), Clinoril® (sulindac), Toradol®(ketorolac)

Appendix 3: Medications for Prophylaxis of Migraines

Class	Accepted Examples
Anticonvulsants	Depakote® (divalproex), Depakene® (sodium valproate), Topamax® (topiramate), Tegretol® (carbamazepine)
ACE inhibitor or Angiotensin Receptor Blocker	Zestril® (lisinopril), Atacand® (candesartan)
Beta Blockers	Inderal® (propranolol), Lopressor® (metoprolol), Tenormin® (atenolol), Corgard® (nadolol), Blocadren® (timolol), Bystolic® (nebivolol), Visken®(pindolol)
Calcium Channel Blockers	Procardia® (nifedipine), Cardizem® (diltiazem), Calan® (verapamil)
Antidepressants	Elavil® (amitriptyline), Effexor® (venlafaxine)
CGRP inhibitors	Nurtec ODT (rimegepant), Qulipta (atogepant), Aimovig (erenumab), Ajovy (fremanezumab), Emgality (galcanezumab), Vyepti (eptinezumab)

References:

1. J0585 Botulinum Toxin Type A, Medicare Part B Newsletter #178, December 1999, p. 6.
2. Botulinum-A Toxin, BlueCross BlueShield Association Medical Policy #5.01.05, 10/2008.
3. Botox® (onabotulinumtoxinA) [package insert]. Allergan, Inc., Irvine, CA. September 2019.
4. Simpson DM. "Clinical trials of botulinum toxin in the treatment of spasticity." *Muscle Nerve Suppl 1997*; 6: S169-75
5. Bhakta BB, et al. "Impact of botulinum toxin type A on disability and career burden due to arm spasticity after stroke: a randomized double-blind placebo-controlled trial." *J Neurol Neurosurg Psychiatry 2000*; Aug (2):217-21.
6. Lagalla G, et al. "Post-stroke spasticity management with repeated botulinum toxin injections in upper limb." *Am J Phys Med Rehabil 2000*; Jul-Aug; 79:377-84, 391-4.
7. Smith SJ, et al. "A double-blind placebo-controlled study of botulinum toxin in upper limb spasticity after stroke or head injury." *Clin Rehabil 2000*; Feb 14:5-13.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Bianchi L, et al. "Quantitative analysis of the pendulum test: application to multiple sclerosis patients treated with botulinum toxin." *Func Neurol 1999*; Apr-Jun; 14(2): 79-92.
9. Brisinda G, et al. "A comparison of injections of botulinum toxin and topical nitroglycerin ointment for the treatment of chronic anal fissures." *New Eng J Med* 1999; 341:65-69.
10. Giorgio M, et al. "Botulinum toxin injections in the internal anal fissure for treatment of chronic anal fissure long term results after two different dosage regimens." *Annals of Surgery 1998*; 228:1-10
11. Treatment of Hyperhidrosis, BlueCross BlueShield Association Policy #8.01.19, 8/2009.
12. Schulte-Mattler WJ, et al. "Treatment of tension type headache and botulinum toxin: a pilot study." *Eur J Med Res 1999*; May 26;4:183-6.
13. Davis D, et al. "Significant improvement of stiff-person syndrome after paraspinal injection of botulinum toxin A." *Mov Disord 1993*; July; 8:371-3.
14. The cosmetic use of botulinum toxin, *The Medical Letter*. Vol 41(1057) July 16, 1999;63-4.
15. USP DI® and Advice for Patient, Botulinum Toxin Type A, Revised 01/24/2001.
16. Maria G, et al. "A comparison of botulinum toxin and saline for the treatment of chronic anal fissure." *N Eng J Med 1998*;338:217-20.
17. Jost WH. "One hundred cases of anal fissure treated with botulinum toxin." *Dis Colon Rectum 1997*;40:1029-32.
18. Brisinda G, et al. "A comparison of injections of botulinum toxin and topical nitroglycerin ointment for the treatment of chronic anal fissure." *N Engl J Med 1999*;3:341:365-9.
19. Vazzi MF, et al. "Botulinum toxin versus pneumatic dilatation in the treatment of achalasia: A randomized trial."*Gut 1999*;44:231-9.
20. Laskawi R, et al. "Up-to-date report of botulinum A toxin for the treatment in patients with gustatory sweating." *Laryngoscope 1998*;108:381-4.
21. Schnider P, et al. "Double blind trial of botulinum A toxin for the treatment of focal hyperhidrosis of the palms."*Br J Dermatol 1997*;136:548-52.
22. Shelley WB, et al. "Botulinum toxin therapy for palmar hyperhidrosis." *J Am Acad Dermatol 1998*;38:227-9.
23. Naumann M, et al. "Focal hyperhidrosis. Effective treatment with intracutaneous botulinum toxin." *Arch Dermatol 1998*;134:301-4.
24. Levit F. "Treatment of hyperhidrosis by tap water ionophoresis." *Cutis 1980*; 26:192-4.
25. Schachor D, et al. "Endoscopic transthoracic sympathectomy in the treatment of primary hyperhidrosis." *Arch Surg 1994*;129:241-4.
26. 1996 BlueCross BlueShield Association, TEC Assessment; Tab 6.
27. Rollnik JD, et al. "Treatment of tension type headache with botulinum toxin type A: a double-blind placebo controlled study." *Headache 2000*;40:300-5.
28. Brin MF, et al. "Botox for migraine: double-blind, placebo-controlled region-specific evaluation." *Cephalalgia 2000*;20:421-22.
29. Silberstein S, et al. "Botulinum toxin type A as a migraine preventive treatment." *Headache 2000*;40:445-50.
30. Marras C, et al. "Botulinum toxin for simple motor tics. A randomized, double-blind, controlled clinical trial."*Neurology 2001*;56:605-10.
31. Foster L, et al. "Botulinum toxin A and chronic low back pain." *Neurology 2001*;56:1290-3.
32. Brin MF, et al. "A randomized double-masked, controlled trial of botulinum toxin type A in essential hand tremor." *Neurology 2001*;56:1523-8.
33. Foster L, et al. "Botulinum toxin A and chronic low back pain. A randomized, double-blind study." *Neurology 2001*;56:1290-3.
34. Yuen EC, et al" Entrapment and other focal neuropathies." *Neurol Clin 1999*;617-31.
35. Brashear A, et al. "Intramuscular injection of botulinum toxin for the treatment of wrist and finger spasticity after a stroke." *N Engl J Med 2002*;347:395-400.
36. BlueCross BlueShield Association Technology Evaluation Center Bulletin, Volume 19, Number 3, November 11, 2002, pp. 1-5.
37. Giannantoni A, et al. "Intravesical resiniferatoxin versus botulinum-A toxin injections for neurogenic detrusor overactivity: a prospective randomized study." *J Urol 2004*;172:240-3.
38. Riccabona M, et al. "Botulinum-A toxin injection into the detrusor: a safe alternative in the treatment of children with myelomeningocele with detrusor hyperreflexia." *J Urol 2004*;171(2 pt 1):845-8.
39. Smith CP, et al. "Botulinum toxin in urology: evaluation using and evidence-based medicine approach." *NCP Urol 2004*;1:31-7.
40. Mancini F, et al. "Double-blind, placebo-controlled study to evaluate the efficacy and safety of botulinum toxin type A in the treatment of drooling in parkinsonism." *Mov Disord 2003*;18:685-8.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

41. Lipp A, et al. "A randomized trial of botulinum toxin A for treatment of drooling." *Neurology 2003*;61:1279-81.
42. Schulte-Mattler WJ, et al. "Treatment of chronic tension-type headache with botulinum toxin A: a randomized, double-blind, placebo-controlled multicenter study." *Pain 2004*;109:110-4.
43. Ondo WG, et al. "Botulinum toxin A for chronic daily headache: a randomized, placebo-controlled, parallel design study." *Cephalalgia 2004*:24:60-5.
44. Padberg M, et al. "Treatment of chronic tension-type headache with botulinum toxin: a double-blind, placebo- controlled clinical trial." *Cephalalgia 2004*;24:675-80.
45. Unal M, et al. "Effect of botulinum toxin A on nasal symptoms in patients with allergic rhinitis: a double-blind, placebo-controlled clinical trial. *ACTA Otolaryngol 2003*;123:1060-3.
46. Adler C, et al. "Botulinum toxin type A for treating voice tremor." *Arch Neurol 2004*;61:1416-20.
47. Godevenos D, et al. "The treatment of chronic anal fissure with botulinum toxin." *Acta Chir Belg. 2004*;104:577-80.
48. Schurch B, et al. "Botulinum toxin type A is a safe and effective treatment for neurogenic urinary incontinence: results of a single treatment, randomized, placebo controlled 6-month study." *J Urol. 2005*;174(1):196-200.
49. Cannito MP, et al. "Perceptual analyses of spasmodic dysphonia before and after treatment." *Arch Otolaryngol Head Neck Surg. 2004*;130(12):1393-9.
50. Babcock MS, et al. "Treatment of pain attributed to plantar fasciitis with botulinum toxin A: a short-term, randomized, placebo-controlled, double-blind study." *Am J Phys Med Rehabil. 2005*;84(9):649-54.
51. Wong SM, et al. "Treatment of lateral epicondylitis with botulinum toxin: a randomized, double-blind, placebo- controlled trial." *Ann Intern Med. 2005*;143(11):793-7.
52. Lacy BE, et al. "The treatment of diabetic gastroparesis with botulinum toxin injection of the pylorus." *Diabetes Care. 2004*;27(10):2341-7.
53. Garcia-Compean D, et al. "Endoscopic injection of botulinum toxin in the gastric antrum for the treatment of obesity. Results of a pilot study." *Gastroenterol Clin Biol. 2005*;29(8-9):789-91.
54. Mathew NT, et al. "Botulinum toxin type A (BOTOX) for the prophylactic treatment of chronic daily headache: a randomized, double-blind, placebo-controlled trial." *Headache. 2005*;45(4):293-307.
55. Silberstein SD, et al. "Botulinum toxin type A for the prophylactic treatment of chronic daily headache: a randomized, double-blind, placebo-controlled trial." *Mayo Clin Proc. 2005*;80(9):1126-37.
56. Evers S, et al. "Botulinum toxin A in the prophylactic treatment of migraine--a randomized, double-blind, placebo-controlled study." *Cephalalgia. 2004*;24(10):838-43.
57. Lasgalla G, et al. Botulinum toxin type A for drooling in Parkinson's Disease: a double-blind, randomized placebo-controlled study. *Movement Disorders*. 2006;21(5):704-06.
58. Park DS, et al. Evaluation of short term clinical effects and presumptive mechanism of botulinum toxin type A as a treatment modality of benign prostatic hyperplasia. *Yonsei Med J*. 2006;47(5):706-14.
59. Qerama E, et al. A double-blind, controlled study of botulinum toxin A in chronic myofascial pain. *Neurology*. 2006;67:241-45.
60. Ferrante FM, et al. Evidence against trigger point injection technique for the treatment of cervicothoracic myofascial pain with botulinum toxin type A. *Anesthesiology*. 2005;103:377-83.
61. Cohen JL, et al. Botulinum toxin type A in the treatment of dermatochalasis: an open-label, randomized, dose- comparison study. *Journal of Drugs in Dermatology*. 2006;5:596-606.
62. Gui D, et al. Effect of botulinum toxin antral injection on gastric emptying and weight reduction in obese patients: a pilot study. *Aliment Pharmacol Ther*. 2006;23:675-80.
63. Abbott JA, et al. Botulinum toxin type A for chronic pain and pelvic floor spasm in women. *Obstet Gynecol* 2006;108:915-23.
64. Fruehauf H, et al. Efficacy and safety of botulinum toxin A injection compared with topical nitroglycerin ointment for the treatment of chronic anal fissure: a prospective randomized study. *Am J Gastroenterol* 2006;101:2107-12.
65. Elkind AH, et al. A series of three sequential, randomized, controlled studies of repeated treatments with botulinum toxin type A for migraine prophylaxis. The *Journal of Pain*. 2006;7:688-96.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

66. Jabbari B, et al. Treatment of refractory, chronic low back pain with botulinum neurotoxin A: an open-label, pilot study. *Pain Medicine*. 2006;7:260-4.
67. Ney JP, et al. Treatment of chronic low back pain with successive injections of botulinum toxin A over 6 months. *Clin J Pain*. 2006;22:363-9.
68. Kajbafzadeh AM, et al. Intravesical injection of botulinum toxin type A: management of neuropathic bladder and bowel dysfunction in children with myelomeningocele. *Urology*. 2006;68:1091-7.
69. American Gastroenterological Association Technical Review on the Management of Hepatitis C. *Gastro* 2006;130:231-64.
70. Stedman's medical dictionary. 27th ed. Baltimore: Lippincott Williams & Wilkins;2000. p 1662.
71. National Institute of Neurological Disorders and Stroke [homepage on the internet]. Bethesda, MD. Updated October 4, 2011. Available from: http://www.ninds.nih.gov/disorders/spasticity/spasticity.htm?css=print. Accessed: February 7, 2012.
72. Botulinum Toxin Types A and B. Medicare Medical Policy, B2002.20 RI, May 1, 2006.
73. Liu HT et al. Intravesical botulinum toxin A injections plus hydrodistention can reduce nerve growth factor production and control bladder pain in interstitial cystitis. *Urology* 2007;70 (3): 463 – 468.
74. Lowe NJ, et al. Botulinum toxin type A in the treatment of primary axillary hyperhidrosis: a 52-week multicenter double-blind, randomized, placebo-controlled study of efficacy and safety. *J Am Acad Dermatol* 2007;56:604-11.
75. Foschi D, et al. Treatment of morbid obesity by intraparietogastric administration of botulinum toxin: a randomized, double-blind, controlled study. *International Journal of Obesity* 2007;31:707-12.
76. Relja M et al. A multicentre, double-blind, randomized, placebo-controlled, parallel group study of multiple treatments of botulinum toxin type A for the prophylaxis of episodic migraine headaches. *Cephalgia* 2007;27:492-503.
77. Aurora SK, et al. Botulinum toxin type A prophylactic treatment of episodic migraine: a randomized, double- blind, placebo-controlled exploratory study. *Headache* 2007;47:486-99.
78. Yoon SJ, et al. Low-dose botulinum toxin type A for the treatment of refractory piriformis syndrome. *Pharmacotherapy* 2007; 27(5):657-65).
79. Jordan SE, et al. Selective botulinum chemodenervation of the scalene muscles for treatment of neurogenic thoracic outlet syndrome. *Ann Vasc Surg*. 2000 Jul;14(4):365-9.
80. Hauser SL, Josephson SA, Harrison TR, Kasper DL, English JD, Braunwald E, Fauci AS, Engstrom JW, Longo DL, editors. *Harrison's Neurology in Clinical Medicine*. 16th ed. New York: McGraw-Hill Professional; 2006.
81. Arts J, Holvoet L, Caenepeel P, Bisschops R, Sifrim D, et al. Clinical trial: a randomized-controlled crossover study of intrapyloric injection of botulinum toxin in gastroparesis. *Aliment Pharmacol Ther*. 2007;26(9):1251-8.
82. Friedenberg FK, Palit A, Parkman HP, Hanlon A, Nelson DB. Botulinum toxin A for the treatment of delayed gastric emptying. *Am J Gastroenterol*. 2008;103(2):416-23.
83. Silberstein SD, Göbel H, Jensen R, Elkind AH, Degryse R, et al. Botulinum toxin type A in the prophylactic treatment of chronic tension-type headache: a multicentre, double-blind, randomized, placebo-controlled, parallel- group study. *Cephalalgia*. 2006;26(7):790-800.
84. Straube A, Empl M, Ceballos-Baumann A, Tölle T, Stefenelli U, et al.; Dysport Tension-Type Headache Study Group. Pericranial injection of botulinum toxin type A (Dysport) for tension-type headache - a multicentre, double- blind, randomized, placebo controlled study. *Eur J Neurol*. 2008;15(3):205-13.
85. Report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Assessment: Botulinum neurotoxin in the treatment of autonomic disorders and pain (an evidence-based review). *Neurology*. 2008;70:1707-14. Available at www.neurology.org.
86. Hayton MJ, Santini AJ, Hughes PJ, Frostick SP, Trail IA, et al. Botulinum toxin injection in the treatment of tennis elbow. A double-blind, randomized, controlled, pilot study. *J Bone Joint Surg Am*. 2005;87(3):503-7.
87. Keizer SB, Rutten HP, Pilot P, Morré HH, v Os JJ, et al. Botulinum toxin injection versus surgical treatment for tennis elbow: a randomized pilot study. *Clin Orthop Relat Res*. 2002;(401):125-31.
88. Karacalar A, Yilmaz N, Bilgici A, Baş B, Akan H. Botulinum toxin for the treatment of temporomandibular joint disk disfigurement: clinical experience. *J Craniofac Surg*. 2005 May;16(3):476-81.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

89. Ziegler CM, Haag C, Mühling J. Treatment of recurrent temporomandibular joint dislocation with intramuscular botulinum toxin injection. *Clin Oral Investig*. 2003;7(1):52-5.
90. Freund BJ, Schwartz M. Relief of tension-type headache symptoms in subjects with temporomandibular disorders treated with botulinum toxin-A. *Headache*. 2002;42(10):1033-7.
91. von Lindern JJ. Type A botulinum toxin in the treatment of chronic facial pain associated with temporo- mandibular dysfunction. *Acta Neurol Belg*. 2001;101(1):39-41.
92. Brashear A, Truong B, Charles D, et al. A randomized, double-blind, placebo-controlled study of intramuscular BOTOX® for the treatment of cervical dystonia [abstract]. *Mov Disord* 1998;13:276.
93. Festen S, Gisbertz SS, van Schaagen F, Gerhards MF. Blinded randomized clinical trial of botulinum toxin versus isosorbide dinitrate ointment for treatment of anal fissure. Br J Surg. 2009;96(12):1393-9.
94. Aurora SK, Dodick DW, Turkel CC, DeGryse RE, Silberstein SD, et al. OnabotulinumtoxinA for treatment of chronic migraine: Results from the double-blind, randomized, placebo-controlled phase of the PREEMPT 1 trial. Cephalalgia. 2010;30(7):793-803.95.
95. Diener HC, Dodick DW, Aurora SK, Turkel CC, DeGryse RE, et al. OnabotulinumtoxinA for treatment of chronic migraine: Results from the double-blind, randomized, placebo-controlled phase of the PREEMPT 2 trial. Cephalalgia. 2010;30(7):804-814.
96. Silberstein SD. Practice parameter: Evidence-based guidelines for migraine headache (an evidence-based review): Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology. 2000;55:754.
97. International Headache Society (IHS) [page on the internet]. IHS Classification ICHD-II (revised criteria). Available at :http://ihs-classification.org/en/02_klassifikation/05_anhang/01.05.01_anhang.html. Accessed on 2/7/2012.
98. © 2013 RegenceRx -. Botulinum toxin type A injection. May 2013.
99. Jackson JL, Kuriyama A, Hayashino Y. Botulinum toxin A for prophylactic treatment of migraine and tension headaches in adults: a meta-analysis. JAMA. 2012;307:1736-45.
100. Badgett R, Massey A. Review: Prophylactic botulinum toxin A reduces frequency of chronic migraine headaches in adults. Ann Intern Med. 2012;157:JC2-10.
101. Albanese A. Terminology for preparations of botulinum neurotoxins: what a difference a name makes. JAMA. 2012;305:89-90.
102. Wohlfarth K, Schwandt I, Wegner F, et al. Biological activity of two botulinum toxin type A complexes (Dysport and Botox) in volunteers: a double-blind, randomized, dose-ranging study, J Neur. 2008;255:1932-9.
103. Dysport (abotbotulinumtoxinA) [package insert] Wrexham, LL 13 9UF, UK; Ispen Biopharmaceuticals. Inc; September 2017.
104. Xeomin (incobotulinumtoxinA) [package insert] Dessau-Rosslau, Germany; Merz Group Services GmbH; December 2015.
105. S.D.Silberstein,S. Holland, F. Freitage, *et al*. Evidence-based guideline update: Pharmacologic treatment for episodic migraine prevention in adults: Report of the Quality Standards Subcommittee of the American Academy of Neurology and the American Headache Society. Neurology 2012; 78;1337-1345.
106. Press Release. Ipsen Announces FDA Approval of Dysport® (abobotulinumtoxinA) for Injection for the Treatment of Lower Limb Spasticity in Children Aged Two and Older. Available at: http://www.ipsen.com/wp-content/uploads/2016/08/PR-Approval-Dysport-US-PLL.pdf. Accessed on 10/10/2016.
107. Press Release. Ipsen Announces FDA Approval of Dysport® (abobotulinumtoxinA) for Injection for the Treatment of lower Limb Spasticity in Adults. Available at: https://www.ipsen.com/media/press-relases/ipsen-announces-fda-approval-dysport-abobotulinumtoxina-treatment-lower-limb-spasticity-adults/. Accessed on 10/6/2017.
108. Purwar B, Khullar V. Use of Botulinum Toxin for Chronic Pelvic Pain. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5384509/. Accessed on 10/6/2017
109. Xeomin® (incobotulinumtoxinA) [prescribing information]. Merz Pharmaceuticals, LLC., Raleigh, NC. July 2018.
110. Lucas E. Medical Management of Neurogenic Bladder for Children and Adults: A Review. Top Spinal Cord Inj Rehabil. 2019;25(3):195-204. doi:10.1310/sci2503-195

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

111. Rawashdeh YF, et al. International Children's Continence Society's Recommendations for Therapeutic Intervention in Congenital Neuropathic Bladder and Bowel Dysfunction in Children. Neurourol Urodynam. 31:615–620, 2012.
112. Gormley, E. Ann, Lightner, Deborah J. Burgio, Kathryn L., et al. Diagnosis and treatment of overactive bladder (non-neurogenic) in adults: American Urological Association (AUA)/Society of Urodynamics, Female Pelvic Medicine & Urogenital Reconstruction (SUFU) guideline. April 2019. Available at: https://www.auanet.org/guidelines/overactive-bladder-(oab)-guideline.
113. Hsu FC, Weeks CE, Selph SS, et al. Updating the evidence on drugs to treat overactive bladder: a systematic review. Int Urogynecol J. 2019;30:1603-1617.
114. Melo-Carrillo A, Strassman AM, Nir RR, et al. Fremanezumab-A Humanized Monoclonal Anti-CGRP Antibody-Inhibits Thinly Myelinated (Aδ) But Not Unmyelinated (C) Meningeal Nociceptors. J Neurosci. 2017;37(44):10587-10596. doi:10.1523/JNEUROSCI.2211-17.2017
115. Daxxify [prescribing information] Newark CA. Revance Therapeutics, Inc. August 2023
116. Skármeta, N. P., Espinoza-Mellado, P., & Chana, P. (2018). Orofacial Dystonia and Other Oromandibular Movement Disorders. InTech. doi: 10.5772/intechopen.78607
117. Muysoms FE, Miserez M, Berrevoet F, Campanelli G, Champault GG, Chelala E, Dietz UA, Eker HH, El Nakadi I, Hauters P, Hidalgo Pascual M, Hoeferlin A, Klinge U, Montgomery A, Simmermacher RK, Simons MP, Smietański M, Sommeling C, Tollens T, Vierendeels T, Kingsnorth A. Classification of primary and incisional abdominal wall hernias. Hernia. 2009 Aug;13(4):407-14. doi: 10.1007/s10029-009-0518-x. Epub 2009 Jun 3. PMID: 19495920; PMCID: PMC2719726.
118. Timmer, A.S., Claessen, J.J.M., Atema, J.J. *et al.* A systematic review and meta-analysis of technical aspects and clinical outcomes of botulinum toxin prior to abdominal wall reconstruction. *Hernia* **25**, 1413–1425 (2021). https://doi.org/10.1007/s10029-021-02499-1
119. Burger JWA, Luijendijk RW, Hop WCJ, Halm JA, Verdaasdonk EGG, Jeekel J. Long-term followup of a randomized controlled trial of suture versus mesh repair of incisional hernia. Ann Surg. 2004;240(4):578-83-5. doi:00000658-200410000-000 03 [pii]
120. Holihan JL, Askenasy EP, Greenberg JA, et al. Component Separation vs. Bridged Repair for Large Ventral Hernias: A Multi-Institutional Risk-Adjusted Comparison, Systematic Review, and Meta-Analysis. Surg Infect. 2016;17(1):17-26. doi:10.1089/sur.2015.124.
121. Booth JH, Garvey PB, Baumann DP, et al. Primary fascial closure with mesh reinforcement is superior to bridged mesh repair for abdominal wall reconstruction. J Am Coll Surg. 2013;217 (6):999-1009. doi:10.1016/j.jamcollsurg. 2013.08.015
122. Ibarra-Hurtado TR, Nuño-Guzmán CM, Echeagaray-Herrera JE, Robles-Vélez E, de Jesús González-Jaime J. Use of Botulinum Toxin Type A Before Abdominal Wall Hernia Reconstruction. World J Surg. 2009;33(12):2553-2556. doi:10.1007/s00268-009-02 03-3.
123. Zielinski MD, Goussous N, Schiller HJ, Jenkins D. Chemical components separation with botulinum toxin A: a novel technique to improve primary fascial closure rates of the open abdomen. Hernia. 2013;17(1):101-107. doi:10.1007/s10029-012-0995- 1.
124. Ibarra-Hurtado TR, Nuño-Guzmán CM, Miranda-Díaz AG, Troyo-Sanromán R, Navarro-Ibarra R, Bravo-Cuéllar L. Effect of botulinum toxin type A in lateral abdominal wall muscles thickness and length of patients with midline incisional hernia secondary to open abdomen management. Hernia. 2014;18(5):647-652. doi:10.1007/s10029-014-1280- 2.
125. Farooque F, Jacombs ASW, Roussos E, et al. Preoperative abdominal muscle elongation with botulinum toxin A for complex incisional ventral hernia repair. ANZ J Surg. 2016;86(1-2):79-83. doi:10.1111/ans.13258.
126. Elstner KE, Jacombs ASW, Read JW, et al. Laparoscopic repair of complex ventral hernia facilitated by pre-operative chemical component relaxation using Botulinum Toxin A. Hernia. 2016;20(2):209-219. doi:10.1007/s10029-016-1478- 6.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
3.9	Effective Date: 10/09/2025	Updated criteria to specify that functional impairment has been “observed”.
3.8	Effective Date: 04/10/2025	Updated incontinence to specify urinary incontinence and included treatment for complex and large or recurring ventral/abdominal hernia prior to abdominal wall reconstruction
3.7	Effective Date: 10/03/2024	Updated to include criteria for orofacial/ormandibular dystonia with documentation of abnormal or repetitive movements of the jaw
3.6	Effective Date: 06/01/2024	UM medical management system removal for MAPPO and BCNA for Xeomin
3.5	Effective Date: 12/18/2023	UM medical management system update for MAPPO and BCNA for Daxxify
3.4	Effective Date: 11/30/2023	UM medical management system update for BCBS and BCN for Daxxify
3.3	Effective Date: 10/12/2023	Added Daxxify to policy
3.2	Effective Date: 08/10/2023	Annual Review
3.1	Effective Date: 08/04/2022	Updated Appendix 3 to include CGRP inhibitors
3.0	Effective Date: 12/09/2021	Removed prescriber requirements and rebound headache criteria for migraine to align with CGRP inhibitor criteria.
2.9	Effective Date: 04/08/2021	Updated criteria sections for: • Migraine headache: removed not to be used in combination with CGRP criteria • NDO: updated verbiage to state t/f two anticholinergics or other agents • OAB: Aligned criteria with Rx benefit by requiring t/f two agents for OAB Included expert opinion outreach regarding migraine combination therapy.
2.8	Effective Date: 04/16/2020	Updated to reflect trial of only two agents required and the rebound headaches require preventative steps before Botox therapy
2.7	Effective Date: 12/05/2019	Updated to add new indication
2.6	Effective Date: 11/07/2019	Annual Review of Medical Policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.5</td><td>Effective Date: 11/01/2018</td><td>Added: have had sialorrhea due to Parkinsons disease on policy, however now FDA has officially approved Xeomin for use in chronic sialorrhea
Removed: pelvic floor spasms from section A of coverage criteria where no step therapy was required and allow it in only one place on policy where we require step therapy with at least 2 other therapeutic alternatives
Added: trial and failure of mirabegron in overactive bladder</td></tr>
<tr><td>2.4</td><td>Effective Date: 02/08/2018</td><td>Added:
Criteria and dosing for pelvic floor spasms Dosing for Xeomin in upper limb spasticity
Criteria and dosing for Dysport in lower limb spasticity</td></tr>
<tr><td>2.3</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>2.2</td><td>Effective Date: 02/09/2017</td><td>Added new indication lower limb spasticity in pediatrics Modified Xeomin dosing language in cervical dystonia</td></tr>
<tr><td>2.1</td><td>Effective Date: 12/01/2016</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>2.0</td><td>Effective Date: 11/10/2016</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.9</td><td>Effective Date: 05/05/2016</td><td>Added new indication of lower limb spasticity</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/13/2015</td><td>Added new indication of upper limb spasticity</td></tr>
<tr><td>1.7</td><td>Effective Date: 05/07/2015</td><td>Added language for chronic migraines that conditions that are contributing to chronic migraines must be treated</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date:
02/12/2015</td><td>Added that the trial of alternatives for migraines needs to be at least 2 months. Changed initial approval for 6 months, renewal to 1 year for migraines. This is in response to a letter from Dr</td></tr>
<tr><td>1.5</td><td>Effective Date:
08/14/2014</td><td>Updated criteria, medication list for prophylactic medications</td></tr>
<tr><td>1.4</td><td>Effective Date:
10/24/2013</td><td>Updated criteria, (OAB), updated abortive therapies</td></tr>
<tr><td>1.3</td><td>Effective Date:
05/02/2013</td><td>Updated criteria, extended approval duration</td></tr>
<tr><td>1.2</td><td>Effective Date:
01/22/2013</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date:
11/08/2012</td><td>Revised Policy and Updated Criteria Botulinum A and B products separated; Botulinum A products therapeutically</td></tr>
<tr><td>1.0</td><td>Effective Date:
11/10/2011</td><td>New Policy or Criteria Update
- Custom/clinical formulary: N/A
- Part D: Specialty B vs D
- Part D Formulary Chapter: Central Nervous System: Miscellaneous CNS</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Botulinum Toxin Type B Injection

Myobloc® (rimabotulinumtoxinB)
HCPCS: J0587

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- There are four botulinum neurotoxins marketed in the United States; 3 types A and 1 type B brands.
- Botulinum neurotoxins are produced by different biological manufacturing processes, obtained by different isolation and purification techniques and derived from different *Clostridium* batches.
- FDA labeling indicates that units of rimabotulinumtoxinB cannot be compared to or converted into units of any other botulinum toxin. Therefore, the efficacy, dosing and safety of rimabotulinumtoxinB cannot be based on extrapolation from other studies using other botulinum toxin serotypes.
- Use of botulinum toxin (all serotypes) for treatment of wrinkles or other cosmetic conditions is considered not medically necessary.
- Results from three clinical studies support the efficacy of rimabotulinumtoxinB in reducing neck pain and the severity of the abnormal head position associated with cervical dystonia or spasmodic torticollis in patients previously responsive to BTX-A or those patients who no longer respond to BTX-A.
    - Cervical dystonia (or spasmodic torticollis) is characterized by involuntary contractions of the neck muscles resulting in twisting and repetitive movements, and/or abnormal postures.
- Anatomically guided injections of rimabotulinumtoxinB into the parotid and submandibular glands appear to effectively improve sialorrhea without causing dysphagia in patients with Parkinson's disease. A small trial in 20 subjects demonstrated a similar effect in patients with amyotrophic lateral sclerosis (ALS). A small trial in 26 subjects demonstrated a decrease in frequency and severity of sialorrhea in children with cerebral palsy who received a 3,000 MU injection of rimabotulinumtoxinB into the salivary glands.
- Use of botulinum toxic type B in other conditions
    - There are four pilot studies of 20 subjects each that investigate rimabotulinumtoxinB for use in palmer hyperhidrosis, axillary hyperhidrosis, refractory detrusor overactivity, and carpal tunnel syndrome. The evidence from these trials is of poor quality. Larger, well-designed trials are necessary to confirm the results.
    - Additional pilot studies, case reports and observational studies have suggested potential benefit of rimabotulinumtoxinB in the treatment of spasmodic dystonia, axillary hyperhidrosis, upper limb spasticity following stroke, spastic movement disorders in children and arm dystonia in children with cerebral palsy. The evidence from these trials is of poor quality. Larger, well-designed clinical trials are needed to assess safety and efficacy of rimabotulinumtoxinB in these conditions.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. LewMF et al. Botulinum toxin type B: a double-blind, placebo-controlled, safety and efficacy study in cervical dystonia. Neurology 1997;49:701-7.
2. ComellaCL et al. Teaching tape for the motor section of the Toronto Western Spasmodic TorticollisScale. MovDisord 1997;12(4):570-5.
3. Brashear A et al. Safety and efficacy of NeuroBloc (botulinumtoxin type B) in type A-responsive cervical dystonia. Neurology 1999;53:1439-46.
4. Brin MF et al. Safety and efficacy of NeuroBloc (botulinum toxin type B) in type A-resistant cervical dystonia. Neurology 1999;53:1431-8.
5. Baumann L et al. A double-blinded, randomized, placebo-controlled pilot study of the safety and efficacy of Myobloc® (botulinum toxin type B)-purified neurotoxin complex for the treatment of crow's feet: a double-blinded, placebo-controlled trial. DermatolSurg2003;29(5):508-15.
6. OndoWG, Hunter C, Moore W. A double-blind placebo-controlled trial of botulinum toxin B for sialorrhea in Parkinson's disease. Neurology 2004;62(1):37-40.
7. Myobloc® (botulinum toxin type B) [package insert]. Solstice Neurosciences, Inc., South San Francisco, CA. August 2009.
8. Baumann L, et al. Double-blind, randomized, placebo-controlled pilot study of the safety and efficacy of Myobloc (botulinum toxin type B) for the treatment of palmar hyperhidrosis. Dermatol Surg. 2005;31(3):263-70.
9. Baumann L, et al. Pilot study of the safety and efficacy of Myobloc (botulinum toxin type B) for treatment of axillary hyperhidrosis. Int J Dermatol. 2005;44(5):418-24.
10. Ghei M, et al. Effects of botulinum toxin B on refractory detrusor overactivity: a randomized, double-blind, placebo controlled, crossover trial. J Urol. 2005;174:1873-7.
11. Breuer B, Sperber K, Wallenstein S, et al. Clinically significant placebo analgesic response in a pilot trial of botulinum B in patients with hand pain and carpal tunnel syndrome. Pain Medicine 2006;7:16-24.
12. Botulinum Toxin Types A and B, Medicare Medical Policy, B2002.20R1; 5/2006.
13. Hirst GR et al. Botulinum toxin B is not an effective treatment of refractory overactive bladder. Urology 2007;69:69-73.
14. Sataloff RT et al. Botulinum toxin type B for the treatment of spasmodic dysphonia: a case report. Journal of Voice 2002; 16(3):422-24.
15. Dressler D et al. Botulinum toxin type B for treatment of axillary hyperhidrosis. J Neurol 2002; 249:1729-32.
16. Brashear A et al. Treatment with botulinum toxin type B for upper limb spasticity. Arch Phys Med Rehabil 2003;84:103-07.
17. Lagalla G, Millevolte M, Capecci M, Provinciali L, Ceravolo MG. Long-lasting benefits of botulinum toxin type B in Parkinson's disease-related drooling. J Neurol. 2009 Apr;256(4):563-7. Epub 2009 Apr 23.
18. Jackson CE, Gronseth G, Rosenfeld J, Barohn RJ, Dubinsky R, et al.; Muscle Study Group. Randomized double-blind study of botulinum toxin type B for sialorrhea in ALS patients. Muscle Nerve. 2009;39(2):137-43.
19. Schwerin A et al. Botulinum toxin B treatment in children with spastic movement disorders: a pilot study. Pediatric Neurology 2003; 31:109-13.
20. Sanger TD et al. Botulinum toxin type B improves the speed Journal of Child Neurology 2007; 22(1):116-22.
21. Hauser SL, Josephson SA, Harrison TR, Kasper DL, English JD, Braunwald E, Fauci AS, Engstrom JW, Longo DL, editors. Harrison's Neurology in Clinical Medicine. 16th ed. New York: McGraw-Hill Professional; 2006.
22. Basciani M, Di Rienzo F, Fontana A, Copetti M, Pellegrini F, Intiso D. Botulinum toxin type B for sialorrhea in children with cerebral palsy: a randomized trial comparing three doses. Dev Med Child Neurol. 2011 Jun;53(6):559-64.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

23. Albanese A. Terminology for preparations of botulinum neurotoxins: what a difference a name makes. JAMA. 2012;305:89-90.
24. Myobloc® (rimabotulinumtoxinB) [package insert]. Solstice Neurosciences, LLC., Louisville, KY. August 2019.

Policy History		
#	Date	Change Description
2.7	Effective Date: 12/4/2025	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 12/12/2024	Annual review of criteria was performed, no changes were made
2.5	Effective Date: 12/14/2023	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 12/01/2022	Updated to include trial and failure of preferred products statement
2.3	Effective Date: 10/06/2022	Annual review of criteria was performed, no changes were made
2.2	Effective Date: 10/07/2021	Annual review of criteria was performed, no changes were made
2.1	Effective Date; 10/08/2020	Annual Review
2.0	Effective Date: 11/7/2019	Update new indication for chronic sialorrhea
1.9	Effective Date: 05/08/2019	Annual Review of Medical Policy
1.8	Effective Date: 05/03/2018	Annual Review of Medical Policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.6</td><td>Effective Date: 05/04/2017</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/01/2016</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 02/11/2016</td><td>Updated criteria for cervical dystonia and spasmodic torticollis to include functional impairment as a requirement</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/12/2015</td><td>Updated time frames (initial 6 months, continuation 1 year). This was due to a letter written from Dr Saper.</td></tr>
<tr><td>1.2</td><td>Effective Date: 05/02/2013</td><td>Updated criteria, extended authorization period</td></tr>
<tr><td>1.1</td><td>Effective Date: 01/22/2013</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 11/08/2012	New Policy –separated from Botulinum Toxin A - Custom/clinical formulary: N/A - Part D: Specialty B vs D - Part D Formulary Chapter: Central Nervous System: Miscellaneous CNS - Recommended criteria and QL

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Breyanzi® (lisocabtagene maraleucel)
HCPCS: Q2054

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.

- Breyanzi is indicated for the treatment of adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma (DLBCL) not otherwise specified (including DLBCL arising from indolent lymphoma), high-grade B-cell lymphoma, primary mediastinal large B-cell lymphoma, and follicular lymphoma grade 3B. Breyanzi is not indicated for the treatment of patients with primary central nervous system lymphoma. Breyanzi is also indicated for the treatment of adult patients with relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) who have received at least 2 prior lines of therapy, including a Bruton tyrosine kinase (BTK) inhibitor and a B-cell lymphoma 2 (BCL-2) inhibitor; adult patients with relapsed or refractory follicular lymphoma (FL) who have received 2 or more prior lines of systemic therapy; adult patients with relapsed or refractory mantle cell lymphoma (MCL) who have received at least 2 prior lines of systemic therapy, including a BTK inhibitor; and adult patients with relapsed or refractory marginal zone lymphoma (MZL) who have received at least 2 prior lines of systemic therapy.

- Safety and efficacy as third-line therapy were established in the TRANSCEND trial, an open-label, multicenter, single-arm study of 268 patients with relapsed or refractory large B-cell Non-Hodgkin's lymphoma. Subjects must have been treated with an anthracycline and rituximab (or other CD20-targeted agent) and have relapsed or refractory disease after at least 2 lines of systemic therapy or after allogeneic HSCT. For patients who received previous CD19-targeted therapy, CD19-positive lymphoma confirmed on a biopsy had to be confirmed since completing the prior CD19-targeted therapy. Patients were excluded from the study if they had an ECOG performance status of greater than 2, a creatinine clearance less than 30 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, left ventricular ejection fraction (LVEF) less than 40%, active CNS involvement by primary malignancy, history of another primary malignancy that has not been in remission for at least 2 years prior to consideration of CAR-T therapy, had active infection, or the presence of graft-vs-host disease. The primary endpoints were complete response (CR) rate and duration of response (DOR). Seventy-three percent of patients achieved a response (95% CI: 67% - 80%), including 54% who experienced CR (95% CI: 47% - 61%) and 19% who achieved a partial response (PR; 95% CI: 14% - 26%). Median duration of response was 16.7 months in all responders (95% CI: 5.3 – not reached (NR)). For

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

patients who achieved a CR, median duration of response was not reached (95% CI: 16.7 – NR). For patients achieving a PR, median duration of response was 1.4 months (95% CI: 1.1 – 2.2). Of 104 patients treated with Breyanzi who achieved a CR, 65% had remission lasting at least six months and 62% had remission lasting at least nine months.

- Safety and efficacy as second-line therapy were established in the TRANSFORM trial, a randomized, open-label, parallel-group, multicenter study of 184 patients with relapsed or refractory large B-cell Non-Hodgkin's lymphoma. Subjects must have been treated with an anthracycline and rituximab (or other CD20-targeted agent) and have relapsed or refractory disease after first-line therapy. Patients were excluded from the study if they had an ECOG performance status of greater than 1, a creatinine clearance less than 45 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, LVEF less than 40%, active CNS involvement by primary malignancy, history of another primary malignancy that has not been in remission for at least 2 years prior to consideration of CAR-T therapy, or had active infection. The primary endpoint was event free survival (EFS). Breyanzi significantly improved median EFS compared with standard therapy (10.1 months vs. 2.3 months; HR = 0.34; p-value < 0.0001) and also significantly increased median progression free survival (PFS) (14.8 months vs. 5.7 months; HR = 0.4; p-value = 0.0001). Sixty-six percent of patients assigned Breyanzi achieved complete response to therapy compared with 39% of patients assigned standard treatment (p-value < 0.0001).

- Safety and efficacy for use in CLL or SLL were established in the TRANSCEND-CLL 004, a phase 1/2, open-label, multicenter study of 65 patients with relapsed or refractory CLL or SLL who had received at least 2 prior lines of therapy including a BTK inhibitor and a BCL-2 inhibitor. Patients were excluded from the study if they had an ECOG performance status of greater than 1, a creatinine clearance less than 30 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, LVEF less than 40%, active CNS involvement by primary malignancy, history of another primary malignancy that has not been in remission for at least 2 years prior to consideration of CAR-T therapy, or had active infection. Of the evaluable patients, 45% and 20% achieved overall and complete responses, respectively. Of 13 MRD-evaluable patients, 100% and 92% achieved undetectable MRD in blood and marrow, respectively.

- Safety and efficacy for use in FL were established in the TRANSCEND-FL trial, a phase II, open-label, multicenter, single-arm study of 94 patients with relapsed or refractory FL following at least 2 prior lines of therapy including an anti-CD20 monoclonal antibody and an alkylating agent. Patients must have had measurable disease. Patients were excluded from the study if they had an ECOG performance status of greater than 1, a creatinine clearance less than 30 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, LVEF less than 40%, active CNS involvement by primary malignancy, history of another primary malignancy that has not been in remission for at least 2 years prior to consideration of CAR-T therapy, or had active infection. The primary endpoint was overall response rate (ORR). The ORR was 95.7% (95% CI: 89.5–98.8). The CR rate was 73.4% (95% CI: 63.3–82.0). The median DOR was not reached after a median follow-up of 16.8 months.

- Safety and efficacy for use in MCL were established in the TRANSCEND-MCL trial, a phase II, open-label, multicenter, single-arm study of 68 patients with relapsed or refractory MCL who had received at least two prior lines of therapy including a BTK inhibitor, an alkylating agent, and an anti-CD20 agent. Patients must have had measurable disease. Patients were excluded from the study if they had an ECOG performance status of greater than 1, a creatinine clearance less than 30 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, LVEF less than 40%, active CNS involvement by primary malignancy, history of another primary malignancy that has not been in remission for at least 2 years prior to consideration of CAR-T therapy, or had active infection. The primary endpoint was ORR. The ORR was 85.3% (95% CI: 74.6, 92.7) and 67.6% (95% CI: 55.2, 78.5) achieved a CR. The median DOR was 13.3 months (95% CI: 6.0, 23.3) with a median follow-up of 22.2 months (95% CI: 16.7, 22.8).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy for use in MZL were established in the TRANSCEND-MZL trial, a phase II, open-label, multicenter, single-arm study of 77 patients with relapsed or refractory MZL who had received at least two prior lines of therapy, including an anti-CD20 antibody and an alkylating agent, or who relapsed after hematopoietic stem cell transplant (HSCT). Patients must have had measurable disease. Patients were excluded from the study if they had an ECOG performance status of greater than 1, a creatinine clearance less than 30 mL/min, alanine aminotransferase greater than 5 times the upper limit of normal, LVEF less than 40%, active CNS involvement by primary malignancy, or had active infection. The primary endpoint was ORR. The ORR was 95.5% (95% CI: 87.3, 99.1) and 62.1% (95% CI: 49.3, 73.8) achieved a CR. The median DOR was not reached (95% CI: 25.59, NR).

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- A provider portal platform is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Breyanzi [prescribing information]. Bothell, WA: Bristol Myers Squibb; February 2026.
2. National Comprehensive Cancer Network. B-cell lymphomas (Version 2.2026). 2026 March 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on March 3, 2026.
3. Lee DW et al. Current concepts in the diagnosis and management of cytokine release syndrome. Blood. 2014 Jul 10; 124 (2): 188 - 195.
4. Abramson JS, Palomba ML, Gordon LI, et al. Lisocabtagene maraleucel for patients with relapsed or refractory large B-cell lymphomas (TRANSCEND NHL 001): a multicenter seamless design study. Lancet. 2020 Sep 19; 396 (10254): 839 – 52.
5. Clinicaltrials.gov. A phase 1, multicenter, open-label study of JCAR017, CD19-targeted chimeric antigen receptor (CAR) t-cells, for relapsed and refractory (R/R) b-cell non-hodgkin lymphoma (NHL) (NCT02631044). Available at: https://clinicaltrials.gov/ct2/show/NCT02631044. Accessed on February 8, 2021.
6. Cheson BD, Fisher RI, Barrington SF, et al. Recommendations for initial evaluation, staging, and response assessment of hodgkin and non-hodgkin lymphoma: the lugano classification. J Clin Oncol. 2014 Sep 20; 32 (27): 3059 – 68.
7. Clinicaltrials.gov. A global randomized multicenter phase 3 trial of JCAR017 compared to standard of care in adult subjects with high-risk, second-line, transplant-eligible relapsed or refractory aggressive b-cell Non-hodgkin lymphomas (TRANSFORM) (NCT03575351). Available at: https://clinicaltrials.gov/ct2/show/NCT03575351. Accessed on May 31, 2022.
8. Amorosi D. Liso-cel significantly improves outcomes in second-line DLBCL. 2021 Dec 11. Available at: https://www.healio.com/news/hematology-oncology/20211211/lisocel-significantly-improves-outcomes-in-secondline-dlbcl. Accessed on May 21, 2022.
9. Healio.com. FDA grants priority review to Breyanzi for second-line treatment of large B-cell lymphoma. 2022 Feb 17. Available at: https://www.healio.com/news/hematology-oncology/20220217/fda-grants-priority-review-to-breyanzi-for-secondline-treatment-of-large-bcell-lymphoma. Accessed on May 31, 2022.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

10. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 6, 2022.
11. National Comprehensive Cancer Network. Chronic lymphocytic leukemia/small lymphocytic lymphoma (Version 2.2026). 2026 Dec 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cll.pdf. Accessed on March 3, 2026.
12. Siddiqi T, Soumerai JD, Dorritie KA, et al. Phase 1 TRANSCEND CLL 004 study of lisocabtagene maraleucel in patients with relapsed/refractory CLL or SLL. Blood. 2022 Mar 24; 139 (12): 1794 - 1806.
13. Clinicaltrials.gov. Study evaluating safety and efficacy of JCAR017 in subjects with relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL) (NCT03331198). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03331198. Accessed on December 18, 2023.
14. Bristol Myers Squibb. Bristol Myers Squibb announces TRANSCEND CLL 004 trial of Breyanzi (lisocabtagene maraleucel) met primary endpoint of complete response rate in patients with relapsed or refractory chronic lymphocytic leukemia. 2023 Jan 26. Available at: https://news.bms.com/news/corporate-financial/2023/Bristol-Myers-Squibb-Announces-TRANSCEND-CLL-004-Trial-of-Breyanzi-lisocabtagene-maraleucel-Met-Primary-Endpoint-of-Complete-Response-Rate-in-Patients-with-Relapsed-or-Refractory-Chronic-Lymphocytic-Leukemia/default.aspx. Accessed on December 18, 2023.
15. Clinicaltrials.gov. A study to evaluate the efficacy and safety of JCAR017 in adult subjects with relapsed or refractory indolent b-cell non-hodgkin lymphoma (TRANSCEND FL) (NCT04245839). Available at: https://clinicaltrials.gov/study/NCT04245839. Accessed on December 8, 2025.

Policy History		
#	Date	Change Description
2.3	Effective Date: 04/16/2026	Updated to remove no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, liver function testing, platelet counts, no secondary malignancies, no GVHD, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, and no clinically significant CNS disease. For FL, removed requirements for no prior allogenic HSCT, no transformed FL, and no histological grade 3b FL. Also added requirements of no active infection, and updated the approval length to 6 months
2.2	Effective Date: 02/12/2026	Updated to include the new indication for use in marginal zone lymphoma
2.1	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 10/03/2024	Updated criteria under CLL and SLL indication to read no central nervous system involvement of the malignancy and no second malignancies in addition to CLL or SLL if the second malignancy has required therapy in the last 3 years or is not in complete remission
1.9	Effective Date: 06/06/2024	Updated to include new indications for use in relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL), follicular lymphoma (FL), and mantle cell lymphoma (MCL)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.8</td><td>Effective Date: 02/08/2024</td><td>Updated to add preliminary criteria for use in relapsed or refractory chronic lymphocytic leukemia (CLL) or small lymphocytic lymphoma (SLL)</td></tr>
<tr><td>1.7</td><td>Effective Date: 06/08/2023</td><td>Updated to require physicians provide clinical outcomes data using the Audaire Health platform</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/04/2022</td><td>Updated to align criteria across all CAR-T policies and include new indication for use as second-line therapy in DLBCL</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/09/2022</td><td>Updated to add preliminary criteria for use as second-line therapy in DLBCL</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/14/2022</td><td>Updated to remove CD19 requirement as NCCN guidelines state CAR-T can work without being positive for CD19 disease</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/12/2021</td><td>New policy - this policy replaces previously approved criteria that was embedded in Chimeric Antigen Receptor-T Cell Class policy which will be retired</td></tr>
<tr><td>1.2</td><td>Effective Date: 03/15/2021</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/08/2021</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
02/11/2021</td>
<td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Calcitonin Gene Related Peptide (CGRP) Antagonists

Vyepti® (eptinezumab-jjmr)
HCPCS: J3032

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Migraines affect 38 million people throughout the United States causing a significant decrease in quality of life and a large economic burden. An estimated 36 billion dollars are spent due to health care and loss of productivity costs. There is a large subset of migraine sufferers that are candidates for migraine prevention, but only a small portion of those candidates actually utilize these medications. Numerous drug classes have been studied for the prevention of migraine. The most recent guidelines published by the American Academy of Neurology in 2018 have shown efficacy for migraine prevention among antiepileptic drugs, antidepressants, antihypertensives, triptans (short term use for menstrually related migraines (MRM)), and botulinum toxin. In addition to drug therapy, neuromodulation and biobehavioral therapy have shown efficacy for the preventive and acute treatment of migraine.

- Guidelines suggest that there is no standard first line agent for the prevention of migraines; however, it does classify the agents by level of efficacy. Level A medications are those with established efficacy, Level B are probably effective, Level C are possibly effective, Level U are inadequate or conflicting data to support use, and Other are established as possibly or probably ineffective. There are many medications that are considered level A, as they have shown efficacy in >2 Class I trials. Divalproex sodium, sodium valproate, topiramate, metoprolol, propranolol, timolol, frovatriptan (short-term prophylaxis for treatment of MRM), and onabotulinumtoxinA are all Level A medications.

- Current abortive treatment options for migraines includes analgesics (such as NSAIDs), triptans and ergot alkaloids. Use of the latter is limited due to uncertainty of clear effectiveness and undesirable side effects. Reyvow® (lasmiditan), a first in class drug, was recently approved and is expected to be used in patients who are not candidates for triptans.

- Calcitonin gene related peptide (CGRP) antagonists are the first agents on the market that have a clearly understood mechanism of action in migraine prophylaxis. CGRP is the most potent endogenous vasodilator. Commonly, migraine sufferers present with elevated serum levels of CGRP even on non-migraine days. Inhibiting this pathway by binding to either the CGRP peptide itself or the CGRP receptor has proven to be an effective method in preventing migraine attacks in both episodic and chronic migraine.

- The American Headache Society publishes guidelines on all types of headache disorders including migraines. The most recent guidelines were published in 2018 and speak to the acute treatment and prophylaxis of migraines, both episodic and chronic. These guidelines incorporate CGRP antagonists for migraine therapy, which were

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

absent from guidelines in previous years, as second line and adjunctive therapies for migraine prophylaxis in adults. The American Headache Society published guidelines for the treatment of cluster headache in 2016, however, these current guidelines do not include CGRP antagonists. The American Headache Society Consensus Statement: Update on integrating new migraine treatments into clinical practice from June 2021 continues to recommend adequate trials of established acute and/or preventive treatments before initiating use of newer migraine-specific acute and preventive therapies, in part to due to cost considerations, and no published evidence supports or refutes this hierarchical approach

Appendix 1: Medications for Prophylaxis of Migraines

Class	Accepted Examples
Anticonvulsants	Depakote® (divalproex), Depakene® (sodium valproate), Topamax® (topiramate), Tegretol® (carbamazepine)
ACE inhibitor or Angiotensin Receptor Blocker	Zestril® (lisinopril), Atacand® (candesartan)
Beta Blockers	Inderal® (propranolol), Lopressor® (metoprolol), Tenormin® (atenolol), Corgard® (nadolol), Blocadren® (timolol), Bystolic® (nebivolol), Visken®(pindolol)
Calcium Channel Blockers	Procardia® (nifedipine), Cardizem® (diltiazem), Calan® (verapamil)
Antidepressants	Elavil® (amitriptyline), Effexor® (venlafaxine)
Botulinum Toxin	OnabotulinumtoxinA

Appendix 2: Pediatric Medications for Prophylaxis of Migraines[1]

Class	Accepted Examples
Anticonvulsants	Topamax® (topiramate), Depakote® (divalproex sodium), Depakene® (valproic acid) (carbamazepine)
Antihistamine	Periactin® (cyproheptadine)
Beta Blockers	Inderal® (propranolol)
Calcium Channel Blockers	Calan® (verapamil)
Antidepressants	Elavil® (amitriptyline)
Botulinum Toxin	OnabotulinumtoxinA

[1]Per the American Headache Society Preventive Therapy for Adolescents with Migraine – April 2021

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Lipton RB, Bigal ME, Diamond M, Freitag F, Reed ML, Stewart WF; The American Migraine Prevalence and Prevention Advisory Group. Migraine prevalence, disease burden, and the need for preventive therapy. Neurology 2007; 68:343-349.
2. Silberstein SD, Holland S, Freitag F, Dodick DW, Argoff C, Ashman E. Evidence-based guideline update: pharmacologic treatment for episodic migraine prevention in adults: report of the Quality Standards Subcommittee of the American Academy of Neurology and the American Headache Society. Neurology 2012; 78: 1337– 1345
3. Estemalik E., Tepper S.; Preventive treatment in migraine and the new US guidelines. Neuropsychiatric Disease Treatment. 2013; 9:709-720.
4. Migraine Facts-Migraine Research foundation. Retrieved from http://migraineresearchfoundation.org/about-migraine/migraine-facts.
5. Sun, H, Dodick, DW, Silberstein, S et al. Safety and efficacy of AMG 334 for prevention of episodic migraine: a randomised, double-blind, placebo-controlled, phase 2 trial. Lancet Neurol. 2016; 15: 382–390.
6. Amgen Presents First-Of-Its-Kind Data At AAN Annual Meeting Reinforcing Robust And Consistent Efficacy Of Aimovig™ (erenumab) For Migraine Patients With Multiple Treatment Failures. Thousand Oaks, CA: Amgen Inc. and East Hanover, NJ: Novartis Pharmaceuticals Corporation; April 17, 2018. Available at: www.amgen.com. Accessed on June 22, 2018.
7. Dodick D, Ashina M, Kudrow D, et al. A phase 3, randomised, double-blind, placebo-controlled study to evaluate the efficacy and safety of erenumab in migraine prevention: primary results of the arise trial. Journal of Neurology, Neurosurgery & Psychiatry. 2017;88(5):e1.63-e1. doi:10.1136/jnnp-2017-316074.63.
8. Goadsby PJ, Reuter U, Bonner J, et al. Phase 3, randomised, double-blind, placebo-controlled study to evaluate the efficacy and safety of erenumab (amg 334) in migraine prevention: primary results of the strive trial. Journal of Neurology, Neurosurgery & Psychiatry. 2017;88(5):e1.62-e1. doi:10.1136/jnnp-2017-316074.62.
9. Aimovig™ injection [prescribing information]. Thousand Oaks, CA: Amgen; May 2021
10. Ajovy™ [prescribing information] North Wales, PA: Teva Pharmaceuticals USA. September 2021
11. Emgality™ [prescribing information] Indianapolis, IN: Eli Lilly and Company. December 2019
12. Robbins, M. S., Starling, A. J., Pringsheim, T. M., Becker, W. J. and Schwedt, T. J. (2016), Treatment of Cluster Headache: The American Headache Society Evidence-Based Guidelines. Headache: The Journal of Head and Face Pain, 56: 1093-1106. doi:10.1111/head.12866
13. FDA press release-Emgality for episodic CH. Retrieved from https://www.fda.gov/news-events/press-announcements/fda-approves-first-treatment-episodic-cluster-headache-reduces-frequency-attacks
14. The International Classification of Headache Disorders, 3rd edition. Headache Classification Committee of the International Headache Society. 2018. Vol. 38(1) 1-211 DOI: 10.1177/0333102417738202
15. Digre KB. The American Headache Soceity Position Statement on Integrating New Migraine Treatments into Clinical Practice. The Journal of Head and Face Pain. 2018; doi: 10.1111/head.13456
16. Ubrelvy (ubrogepant) [prescribing information] Madison, NJ: Allergan. March 2021
17. Vyepti [prescribing information]. Bothell, WA: Lundbeck Seattle BioPharmaceuticals, Inc.; September 2021.
18. Digre KB. The american headache society position statement on integrating new migraine treatments into clinical practice. J Head & Face Pain. 2018; doi: 10.1111/head.13456. Available at: https://headachejournal.onlinelibrary.wiley.com/doi/epdf/10.1111/head.13456. Accessed on: November 13, 2019.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

19. Silberstein SD, Holland S, Freitag F, at al. Evidence-based guideline update: pharmacologic treatment for episodic migraine prevention in adults. Neurology. Apr 2012; 78 (17): 1337 – 1345.
20. Clinicaltrials.gov. A parallel group, double-blind, randomized, placebo-controlled phase 3 trial to evaluate the efficacy and safety of ALD403 administered intravenously in patients with chronic migraine. (NCT02974153) Available at: https://clinicaltrials.gov/ct2/show/study/NCT02974153?intr=%22ALD403%22+OR+%22Eptinezumab%22&draw=2&rank=2. Accessed on: February 27, 2020.
21. Alder Biopharmaceuticals Press Release. Alder biopharmaceuticals presents new six month data for eptinezumab demonstrating improvement in efficacy in PROMISE 2 phase 3 trial for chronic migraine. June 29, 2018. Available at: https://investor.alderbio.com/news-releases/news-release-details/alder-biopharmaceuticalsr-presents-new-six-month-data. Accessed on: November 12, 2019.
22. Hoffman, M. Can eptinezumab make its mark in the migraine markplace. April 18, 2019. Available at: https://www.neurologylive.com/clinical-focus/can-eptinezumab-make-mark-migraine-marketplace. Accessed on: November 12, 2019.
23. Hribar C. Migraine statistics. migraine.com June 2019. Available at: https://migraine.com/migraine-statistics. Accessed on: February 27, 2019.
24. Nurtec ODT (reimegepant) [prescribing information]. New Haven, CT. Biohaven Pharmaceuticals Inc.; May 2021.
25. Manufacturer press release. Available at: https://www.biohavenpharma.com/investors/news-events/press-releases/02-27-2020 Accessed March 2, 2020.
26. Preliminary Medication Review: New Molecular Entity. Antimigraine Agents: Other. Reyvow (lasmiditan)[Eli Lilly and Company] October 2019.
27. ICER: Acute Treatments for Migraine. Final Evidence Report. February 25, 2020.
28. May A. Cluster headache: Treatment and prognosis. UpToDate. https://www.uptodate.com/contents/cluster-headache-treatment-and-prognosis [accessed July 31, 2020].
29. Melo-Carrillo A, Strassman AM, Nir RR, et al. Fremanezumab-A Humanized Monoclonal Anti-CGRP Antibody-Inhibits Thinly Myelinated (Aδ) But Not Unmyelinated (C) Meningeal Nociceptors. J Neurosci. 2017;37(44):10587-10596. doi:10.1523/JNEUROSCI.2211-17.2017
30. Ailani, J, Burch, RC, Robbins, MS; the Board of Directors of the American Headache Society. The American Headache Society Consensus Statement: Update on integrating new migraine treatments into clinical practice. Headache. 2021; 61: 1021– 1039. https://doi.org/10.1111/head.14153
31. Qulipta (atogepant) [prescribing information]. Madison, NJ: Allergan. October 2021.

Policy History		
#	Date	Change Description
2.3	Effective Date: 10/09/2025	Updated criteria to reflect appropriate pediatric alternatives in Appendix 2 due to Ajovy's pediatric indication update.
2.2	Effective Date: 08/07/2025	Removed required HA day criteria
2.1	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
1.9	Effective Date:	Updated to include Zavzpret

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td>04/06/2023</td><td></td></tr>
<tr><td>1.8</td><td>Effective Date: 12/01/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 12/09/2021</td><td>Update to include Qulipta and remove prescriber requirement and rebound headache criteria</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/12/2021</td><td>Update due to Nurtec ODT's prevent indication</td></tr>
<tr><td>1.5</td><td>Effective Date: 04/08/2021</td><td>Removed criteria "not to be used in combination with botulinum toxin type A"</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/13/2020</td><td>Updated Appendix 5 from acute episodic cluster headache therapies to prophylaxis episodic cluster headach therapies, affecting criteria requirements for Emgality's cluster headache diagnosis.</td></tr>
<tr><td>1.3</td><td>Effective Date: 07/01/2020</td><td>UM medical management system update for BCBSM
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 05/28/2020</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 04/16/2020</td><td>New full drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Carvykti™ (ciltacabtagene autoleucel)
HCPCS: Q2056

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.
- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.
- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.
- Carvykti is a B-cell maturation antigen (BCMA)-directed genetically modified autologous T-cell immunotherapy indicated for the treatment of adult patients with relapsed or refractory multiple myeloma after four or more prior lines of therapy, including an immunomodulatory agent, a proteasome inhibitor, and an anti-CD38 monoclonal antibody.
- Safety and efficacy for use as second-line therapy in relapsed or refractory multiple myeloma that is lenalidomide-refractory was established in the CARTITUDE-4 trial, an open-label, randomized, phase 3 study of 419 patients who received one to three prior lines of therapy, including a proteasome inhibitor (PI) and immunomodulatory agent (IMiD). The study excluded patients with a creatinine clearance of less than or equal to 40 mL/minute and an alanine aminotransferase greater than or equal to 3 times upper limit of normal. Patients were also excluded if absolute neutrophil count less than 1,000 cells/mm^3 and platelet count less than 75,000/mm^3. Patients were required to have measurable disease. The primary endpoint was progression free survival (PFS). At a median follow-up of 15.9 months, a 74% (HR = 0.26; 95% CI: 0.18, 0.38; p-value < 0.0001) reduction in the risk of disease progression or death was observed in patients randomized to the Carvykti arm compared to standard of care (SOC) treatments. Among patients in the Carvykti arm, median PFS was not reached and in the SOC arm, median PFS was 11.8 months. PFS at 12 months for patients in the Carvykti arm and SOC arm was 76% (95% CI: 69, 81) and 49% (95% CI: 42, 55), respectively. At the data cut-off, patients randomized to the Carvykti arm achieved an 85% overall response rate (ORR) and 73% achieved a complete response (CR) or better. Among patients in the SOC arm, the ORR was 67% and CR or better was 22%.
- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).
- While use of Carvykti has not been established in patients with a creatinine clearance of less than 40 mL/minute, other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Carvykti should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 ml/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. While Carvykti has only been studied in patients with a LVEF greater than or equal to 45%, there is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Carvykti should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.
- A provider portal that is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Carvykti [prescribing information]. Horsham, PA: Janssen Biotech, Inc.; October 2025.
2. Berdeja JG, Madduri D, Usmani SZ, et al. Ciltacabtagene autoleucel, a B-cell maturation antigen-directed chimeric antigen receptor T-cell therapy in patients with relapsed or refractory multiple myeloma (CARTITUDE-1): a phase 1b/2 open-label study. Lancet. 2021 Jul 24; 398 (10297): 314 - 24.
3. Berdeja JG, Madduri D, Usmani SZ, et al. Ciltacabtagene autoleucel, a B-cell maturation antigen-directed chimeric antigen receptor T-cell therapy in patients with relapsed or refractory multiple myeloma (CARTITUDE-1): a phase 1b/2 open-label study. Lancet. 2021 June 24. Available at: http://dx.doi.org/10.1016/S0140-6736(21)00933-8. Accessed on March 2, 2022.
4. National Comprehensive Cancer Network. Multiple myeloma (Version 5.2026). 2026 Jan 9. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on March 3, 2026.
5. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 6, 2022.
6. Clinicaltrials.gov. A study comparing JNJ-68284528, a CAR-T therapy directed against B-cell maturation antigen (BCMA), versus pomalidomide, bortezomib and dexamethasone (PVd) or daratumumab, pomalidomide and dexamethasone (DPd) in participants with relapsed and lenalidomide-refractory multiple myeloma (CARTITUDE-4) (NCT04181827). Available at: https://clinicaltrials.gov/study/NCT04181827. Accessed on December 18, 2023.
7. Janssen. Carvykti (ciltacabtagene autoleucel) reduces risk of disease progression or death by 74 percent in earlier-line multiple myeloma treatment in the landmark phase 3 CARTITUDE-4 study. 2023 June 5. Available at: https://www.janssen.com/carvyktir-ciltacabtagene-autoleucel-reduces-risk-disease-progression-or-death-74-percent-earlier. Accessed on December 18, 2023.

Policy History		
#	Date	Change Description
1.8	Effective Date: 06/01/2026 P&T Date: 04/16/2026	Updated to remove no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, liver function testing, platelet counts, no secondary malignancies, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, and no clinically significant CNS disease. Also added requirements of no active infection, no prior allogenic stem cell transplant, no prior autologous stem cell transplant within 12 weeks, must be given at a certified treatment center, and updated the approval length to 6 months

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 06/05/2025</td><td>Updated to change the provider portal from Audaire Health to the appropriate provider portal</td></tr>
<tr><td>1.6</td><td>Effective Date: 06/06/2024</td><td>Updated to include the new indication for use as second-line therapy for relapsed or lenalidomide-refractory multiple myeloma</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/08/2024</td><td>Updated to include preliminary criteria for use as second-line therapy for relapsed or lenalidomide-refractory multiple myeloma</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/08/2023</td><td>Updated to require physicians provide clinical outcomes data using the Audaire Health platform</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/04/2022</td><td>Updated to align criteria across all CAR-T policies</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/14/2022</td><td>New Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 03/24/2022</td><td>UM medical management system update for BCBSM and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 03/07/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Casgevy™ (exagamglogene autotemcel)
HCPCS: J3392

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Casgevy is an autologous genome edited hematopoietic stem cell-based gene therapy indicated for the treatment of patients 12 years and older with sickle cell disease (SCD) with recurrent vaso-occlusive crises (VOCs) and transfusion-dependent β-thalassemia (TDT).

- Sickle cell disease
  - Sickle cell disease is a recessive hemolytic anemia caused by a mutation in the β-globin gene. It is characterized by the formation of sickle hemoglobin (HbS). HbS is less soluble and less elastic than fetal hemoglobin (HbF) or normal adult hemoglobin (HbA). The disease involves multicellular adhesion between sickled red blood cells, white blood cells, platelets, and endothelial cells resulting in vaso-occlusive crises (VOCs). VOCs are the hallmark of SCD and are experienced by approximately 70% of patients. They are recurring, unpredictable, painful events that decrease organ function with complications including stroke, pneumonia, vision loss, pulmonary hypertension, leg ulcers, and sepsis. VOCs are often treated as an emergency requiring acute care and are the number one reason patients with SCD visit the emergency room or are hospitalized.

  - Hydroxyurea is a ribonucleotide reductase inhibitor which increases the amount of circulating HbF in the body and has been a mainstay of therapy. It also has been shown to lower the number of circulating leukocytes and reticulocytes altering the expression of adhesion molecules; raise red blood cell (RBC) volume; and improve cellular deformability and rheology, all of which contribute to a decrease in VOCs. The 2014 National Heart, Lung, and Blood Institute Evidence-Based Management of Sickle Cell Disease Guidelines recommend the use of hydroxyurea for the following patient populations:
    - In adults with SCD who have three or more sickle cell-associated moderate to severe pain crises in a 12-month period
    - In adults with SCD who have sickle cell-associated pain that interferes with daily activities and quality of life
    - In adults with SCD who have a history of severe and/or recurrent acute coronary syndrome
    - In adults with SCD who have severe symptomatic chronic anemia that interferes with daily activities or quality of life
    - In infants 9 months of age and older, children, and adolescents with SCD, offer treatment with hydroxyurea regardless of clinical severity to reduce complications
    - In adults and children with SCD who have chronic kidney disease and are taking erythropoietin
- The guidelines recommend starting hydroxyurea at a dose of 15 mg/kg/day for adults and increasing the dose by 5 mg/kg/day every 8 weeks to a maximum dose of 35 mg/kg/day. A clinical response to therapy may take 3 – 6 months. Therefore, a 6 month trial on the maximum tolerated dose is required prior to considering discontinuation due to treatment failure, whether due to lack of adherence or failure to respond to therapy. Guidelines have not yet been updated to include recommendations for use of gene therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy for use in SCD were evaluated in the Phase III CLIMB-121 trial, a single arm, multicenter study of 31 patients 18 to 35 years of age with severe SCD and documented βS/βS or βS/β0 genotype. Severe SCD was defined by the occurrence of at least 2 of the following events each year during the 2-year period before screening, while receiving appropriate supportive care (pain management plan, hydroxyurea if indicated): an acute pain event that requires a visit to a medical facility and administration of pain medications (opioids or intravenous [IV] non-steroidal anti-inflammatory drugs [NSAIDs]) or RBC transfusions; acute chest syndrome (ACS), as indicated by the presence of a new pulmonary infiltrate associated with pneumonia-like symptoms, pain, or fever; priapism lasting greater than 2 hours; and/or splenic sequestration. Participants could not have any of the following: positive presence of HIV-1 or HIV-2, hepatitis B, or hepatitis C; white blood cell count less than 3×10^9/L or platelet count less than 50×10^9/L not related to hypersplenism; advanced liver disease defined as alanine transferase greater than 3 times the upper limit of normal, total bilirubin greater than 2 times the upper limit of normal, baseline prothrombin time 1.5 times the upper limit of normal, or history of cirrhosis, any evidence of bridging fibrosis, or active hepatitis; prior treatment with an allogenic stem cell transplant; and prior or current malignancy or immunodeficiency disorder. The primary endpoint was the proportion of VOC-free responders, defined as patients who did not experience any protocol-defined severe VOCs for at least 12 consecutive months within the first 24 months after Casgevy infusion. The proportion of patients who did not require hospitalization due to severe VOCs for at least 12 consecutive months within the 24-month evaluation period was also assessed. The median (min, max) time to the last RBC transfusion was 19 (11, 52) days following Casgevy infusion. The proportion of VOC-free responders was 93.5% (29/31, 98% one-sided CI: 77.9%, 100.0%). The 29 VOC-free responders did not experience a protocol defined severe VOC during the evaluation period with a median duration of 22.2 months at the time of the interim analysis. One VOC-free responder, after initially achieving a response, experienced an acute pain episode meeting the definition of a severe VOC at month 22.8 requiring a 5-day hospitalization; this patient was reported to have a parvovirus B19 infection at the time. Of the 31 patients evaluable for VOC-free response, one patient was not evaluable for hospitalization-free response; the remaining 30 patients achieved the endpoint (100% [98% one-sided CI: 87.8%, 100.0%]).

- There is currently no data supporting administration of Casgevy following administration of another gene therapy. Casgevy should not be given following any other gene therapy for SCD as safety and efficacy has not been established.

- Transfusion Dependent β-thalassemia (TDT)
    - The term “thalassemia” refers to a group of blood disorders characterized by a decrease or absence of synthesis of normal hemoglobin globulin chains. According to the chain whose synthesis is impaired, the thalassemias are call α-, β-, γ-, δ-, δβ-, or εγδβ-thalassemias. Beta-thalassemias result from a genetic defect in the HBB gene leading to a reduction in production of β-globulin chains, an excess of α-globulin chains, and a decrease in functioning hemoglobin. Low levels of hemoglobin cause a lack of oxygen in many parts of the body and anemia. People with anemia in beta-thalassemia often require lifelong blood transfusions for survival and subsequent treatment for iron overload due to these transfusions.

    - The 2021 International Thalassemia Federation guidelines for transfusion dependent thalassemias recommend diagnosis should begin with genetic testing because of the extreme diversity in clinical severity of thalassemia subtypes. The degree of excess nonfunctional α-chains is the major predictor of disease

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

severity. The less β-globulin production, the more non-functional α-chains in the bloodstream. β_0-thalassemia refers to the complete absence of production of β-globulin. When patients are homozygous for a β_0-thalassemia gene, they cannot make any normal β-chains. β_+-thalassemia indicates a mutation that presents decreased but not absent production of β-globulin. In thalassemia patients in which one or both of their β-thalassemia mutations are β_+-mutations, the disorder may be less severe. Beta-thalassemia major is a clinical diagnosis referring to a patient who has a severe form of the disease and requires chronic transfusions early in life. Beta-thalassemia intermedia is a clinical diagnosis of a patient characterized by a less severe chronic anemia and a more variable clinical phenotype. Casgevy is not being studied in patients with S/β-thalassemia or α-thalassemia. Patients with other β-thalassemia subtypes that were transfusion dependent are being included in the clinical trial.

- Treatment guidelines also recommend all patients undergo at least an annual comprehensive assessment at a thalassemia center. During such an assessment, recommendations are summarized after consultation with multiple specialists including a hematologist, a nurse specialist, a hepatologist, a cardiologist, an endocrinologist, a psychologist, a genetics counselor, a social worker, and a dietitian.

- Blood transfusion is the mainstay of care for individuals with thalassemia major and many with intermedia. The purpose of transfusion is twofold: to improve the anemia and to suppress the ineffective erythropoiesis. Chronic transfusions prevent most of the serious growth, skeletal, and neurological complications of thalassemia major. The decision to start regular transfusions is clear when the initial hemoglobin level is well below 6 g/dL. Continuation of infusions can be assessed by withholding transfusions and monitoring weekly hemoglobin levels. If the hemoglobin drops under 7 g/dL on two occasions two weeks apart, then regular transfusions should be commenced. Guidelines define a patient as transfusion dependent when they are getting infusions of packed red blood cells every 2 – 5 weeks to maintain the pre-transfusion hemoglobin of 9 g/dL - 10.5 g/dL and the post-transfusion hemoglobin less than 14 - 15 g/dL. This translates to approximately 100 mL/kg/year of packed red blood cells.

- Safety and efficacy were evaluated in the CLIMB-111 trial which included 44 patients with TDT. Participants could not have a prior hematopoietic stem cell transplant (HSCT) or currently be eligible for a HSCT with an HLA matched family donor, presence of HIV-1 or HIV-2 infection, a current immunodeficiency disorder or malignancy, or an uncorrected bleeding disorder. Patients also could not have advanced liver disease defined as alanine transferases or direct bilirubin greater than 3 times the upper limit of normal (ULN); or baseline prothrombin time or partial thromboplastin time greater than 1.5 times the ULN suspected of arising from liver disease; or magnetic resonance imaging (MRI) of the liver demonstrating clear evidence of cirrhosis. The primary endpoint was the proportion of participants achieving transfusion reduction for at least 6 months. Overall, 42 of 44 patients with TDT stopped red blood cell (RBC) transfusions. The median time since last transfusion was 9.0 (0.8 - 36.2) months, with 16 patients having at least 12 months since their last transfusion. The two patients that had not yet stopped transfusions had 75% and 89% reductions in transfusion volume. By month 3, increases in HbF and mean total hemoglobin levels (> 9 g/dL) were achieved, with mean total hemoglobin levels increasing to and maintained at greater than 11 g/dL thereafter. At month 6, the mean proportion of edited alleles in bone marrow CD34+ hematopoietic stem and progenitor cells (HSPCs) and peripheral blood mononuclear cells was 74.3% and 63.4%, respectively which remained stable in all patients with greater than or equal to 1 year of follow-up.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There is currently no data supporting administration of Casgevy following administration of another gene therapy. Casgevy should not be given following any other gene therapy for TDT as safety and efficacy has not been established.

References:

1. Casgevy [prescribing information]. Boston, MA: Vertex Pharmaceuticals Incorporated; January 2024.
2. Centers for Disease Control and Prevention. Sickle cell disease: data and statistics. 2023 July 6. Available at: https://www.cdc.gov/ncbddd/sicklecell/data.html. Accessed on: December 11, 2023.
3. Ogedegbe HO. Sickle cell disease: an overview. Laboratory Medicine. 2002; 33(7): 515 – 543.
4. Centers for Disease Control and Prevention. Sickle cell disease: complications and treatments. 2023 July 6. Available at: https://www.cdc.gov/ncbddd/sicklecell/treatments.html. Accessed on December 11, 2023.
5. Brousseau DC, Panepinto JA, Nimmer M, et al. The number of people with sickle-cell disease in the United States: national and state estimates. Am J Hematol. 2010; 85(1): 77 – 78.
6. National Heart, Lung, and Blood Institute. Evidence-based management of sickle cell disease: expert panel report, 2014. Available at: https://www.nhlbi.nih.gov/sites/default/files/publications/56-364NFULL.pdf. Accessed on: December 11, 2023.
7. Frangoul H, Altshuler D, Cappellini MD, et al. CRISPR-Cas9 gene editing for sickle cell disease and β-thalassemia. NEJM. 2021; 384: 252 - 60.
8. Frangoul H, Locatelli F, Sharma A, et al. Exagamglogene autotemcel for severe sickle cell disease. Blood. 2023 Nov 28; 142 (Supplement 1): 1052.
9. Clinicaltrials.gov. A safety and efficacy study evaluating CTX001 in subjects with severe sickle cell disease. Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03745287. Accessed on December 11, 2023.
10. National Organization for Rare Disorders. Beta-thalassemia. 2023. Available at: https://rarediseases.org/rare-diseases/thalassemia-major/. Accessed on December 11, 2023.
11. Cappellini MD, Cohen A, Porter J, et al. Guidelines for the management of transfusion dependent thalassemia. 2021. Available at: https://issuu.com/internationalthalassaemiafederation/docs/final_guideline_4th. Accessed on December, 2023.
12. Locatelli F, Lang P, Li A, et al. Efficacy and safety of a single dose of exagamglogene autotemcel for transfusion-dependent β-thalassemia. Blood. 2022 Nov 15; 140 (Suppl 1): 4899 – 4901.
13. Clinicaltrials.gov. A safety and efficacy study evaluating CTX001 in subjects with transfusion-dependent β-thalassemia (NCT03655678). Available at: https://clinicaltrials.gov/study/NCT03655678. Accessed on December 8, 2023.
14. Frangoul H, Altshuler D, Cappellini MD, et al. CRISPR-Cas9 gene editing for sickle cell disease and β-thalassemia. NEJM. 2021; 384: 252 - 60.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.7</td><td>Effective Date: 12/04/2025</td><td>Updated to allow use in patient who have used at least 10 units/year of packed red blood cells within the 2 years prior to Casgevy administration</td></tr>
<tr><td>1.6</td><td>P&T Date: 06/05/2025

Effective Date: 07/21/2025</td><td>Updated to include the required use of a provider portal to submit clinical outcomes data after Casgevy administration</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/12/2024</td><td>Updated to allow use of electrophoresis for diagnosis of sickle cell disease and changed the authorization period from 6 months to 12 months</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/11/2024</td><td>Updated to include the new FDA approved indication of transfusion-dependent β-thalassemia</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/08/2024</td><td>New policy - replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 01/02/2024</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/21/2023</td><td>UM medical management system update for BCN and BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 10/12/2023	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Cimzia® (certolizumab pegol)
HCPCS: J0717

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Cimzia is a tumor necrosis factor inhibitor (TNFi) indicated for:
  - Adults with moderately to severely active rheumatoid arthritis
  - Adults with active psoriatic arthritis
  - Adults with moderately to severely active Crohn's disease who have had an inadequate response to conventional therapy
  - Adults with active ankylosing spondylitis
  - Adults with active non-radiographic axial spondyloarthritis
  - Adults with moderate-to-severe psoriasis who are candidates for systemic therapy or phototherapy
  - Patients 2 years of age and older with active polyarticular juvenile idiopathic arthritis
- Cimzia is administered via subcutaneous (SC) injection. A patient, or their caregiver, may self-inject the Cimzia prefilled syringe after proper training in SC injection technique. Cimzia powder for injection, however, should be prepared and administered by a healthcare professional.
- Clinical reasons a patient may be unable to self-administer Cimzia include:
  - Patient or caregivers are unable to perform SC injections with proper technique.
  - Member requires monthly medical support from the physician.
- Rheumatoid Arthritis (RA)
  - The 2021 American College of Rheumatology (ACR) Guidelines for the Treatment of Rheumatoid Arthritis (RA) established recommendations for the care of adult RA patients. The guidelines state that treatment decisions should follow a shared decision-making process and should be reevaluated within a minimum of 3 months based on the efficacy and tolerability of the DMARD(s) chosen.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For the initial treatment of symptomatic RA, the guidelines strongly recommend the use of conventional synthetic disease-modifying antirheumatic drug (csDMARD) monotherapy in those who are DMARD-naive. csDMARD monotherapy is a less costly first line treatment option with an extensive safety record accompanied by well-documented clinical efficacy and a large body of clinical experience and familiarity among prescribers. csDMARDs in the guidelines refer to methotrexate (MTX), hydroxychloroquine, leflunomide (LEF), and sulfasalazine. Azathioprine, cyclosporine, minocycline, and gold were not included due to their infrequent use in RA and lack of new data since the prior guidelines were published. Oral MTX is recommended as the preferred initial DMARD for patients with moderate-to-high disease activity, and hydroxychloroquine is recommended as the preferred initial DMARD for patients with low disease activity.

- If disease activity remains moderate or high despite optimal dosing of methotrexate monotherapy, the use of dual therapy with methotrexate plus biologic DMARD (bDMARD; etanercept, adalimumab, infliximab, golimumab, certolizumab pegol, abatacept, tocilizumab, sarilumab, rituximab) or targeted synthetic DMARD (tsDMARD; tofacitinib, baricitinib, upadacitinib) therapy is conditionally recommended over the use of triple therapy (i.e., addition of sulfasalazine and hydroxychloroquine). The guidelines do not inform preference of bDMARD over tsDMARD therapy (or vice-versa) for use in combination with MTX. No one agent has been shown to be superior to another. The guidelines do acknowledge the emergence of safety signals for the JAK inhibitor class (tsDMARD), and state that further modification of this recommendation may be necessary as additional data are published.

- A treat-to-target approach is conditionally recommended over usual care for patients who have had an inadequate response to bDMARDs or tsDMARDs. Treat-to-target refers to a systematic approach involving frequent monitoring of disease activity using validated instruments and modification of treatment to minimize disease activity with the goal of reaching a pre-defined target (low disease activity or remission).

- Psoriatic Arthritis (PsA)

  - Psoriatic Arthritis (PsA) is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

  - Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis:

    - All recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.

    - In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.

    - If PsA remains active despite OSM therapy, switching to a TNFi, an interleukin 17 inhibitor (IL-17i), or an interleukin 12/23 inhibitor (IL-12/23i) is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. Additional treatment options include Orencia® (abatacept) and Xeljanz® (tofacitinib). The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Ankylosing Spondylitis (AS)

  - Axial spondyloarthritis, comprising ankylosing apondylitis (AS) and non-radiographic axial spondyloarthritis (NRAS), is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.

  - The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with nonsteroidal anti-inflammatory drugs (NSAIDS), treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Cosentyx® (secukinumab) or Taltz® (ixekizumab) is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

- Crohn's disease (CD)

  - Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

  - The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

  - Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

  - A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

- Psoriasis (PsO)

  - Psoriasis is a chronic, painful and life-altering immune-mediated disease which predominantly manifests with skin and joint involvement. Patients may also experience significant cardiovascular and psychological comorbidities. Approximately 2% of U.S. adults are affected by psoriasis (men and women equally), and it can occur at any age. Approximately 90% of psoriasis-affected patients have plaque psoriasis, which is characterized by well-defined round or oval plaques that vary in size and often coalesce. The severity of psoriasis is defined as: mild = less than 3% of body affected; moderate = 3-10% of body affected; and severe being more than 10% of the body affected.

  - Per the 2020 Joint American Academy of Dermatology - National Psoriasis Foundation (AAD-NPF) guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures: topical corticosteroids provide a high efficacy and good safety option for patients with localized disease. They are generally recommended as first-line therapy. Choice of steroid potency may depend on severity, location, patient preference, and patient age, while the duration of treatment may vary with steroid potency, location and severity of disease often ranging from 2-12 weeks. Therapeutic regimens may include 2-4 weeks with a topical steroid applied twice daily, followed by a maintenance regimen where topical steroids are alternated with a steroid-sparing topical agent. Treatment with topical steroids for over 12 weeks is recommended under careful supervision by a physician.

  - Per the 2019 AAD-NPF guidelines of care for the management and treatment of psoriasis with phototherapy: phototherapy serves as a reasonable and effective treatment option for patients requiring more than topical medications and/or those wishing to avoid systemic medications or simply seeking an adjunct to a failing regimen. Guidelines also state that the majority of patients with mild-to-moderate disease have adequate disease control with topical therapies and phototherapy alone.

  - Per the 2020 Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies: many oral medications, including methotrexate, cyclosporine, and acitretin, have been used for decades to treat psoriasis, each with its own benefits and risks. Most work by targeting the immune system, whereas others, such as acitretin, work predominantly by decreasing keratinocyte hyperproliferation, thus restoring the normal epidermal differentiation. Both methotrexate and cyclosporine are category A guideline recommendations for the treatment of moderate to severe psoriasis in adults and for severe, recalcitrant psoriasis, respectively. Studies examining the use of methotrexate and cyclosporine in psoriasis showed the primary efficacy endpoints met within 12-16 weeks. Acitretin is a category B guideline recommendation as monotherapy for plaque psoriasis, with full treatment response expected within 3-6 months.

  - Per the 2019 Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with biologics: biologic agents, as monotherapy or combined with other topical or systemic medications, have a high benefit-to-risk ration. TNFi and IL-12/IL-23i, IL-23i, and IL-17i biologics have a category "A" recommendation as a monotherapy treatment option for adult patients with moderate-to-severe plaque psoriasis. Guidelines do not recommend one product over another and note the similar efficacy seen across biologics within the same class. There are no published, robust studies to support the use of more than one biologic product in combination.

- Non-Radiographic Axial Spondyloarthritis (NRAS)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Axial spondyloarthritis, comprising ankylosing spondylitis (AS) and non-radiographic axial spondyloarthritis (NRAS), is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.

  - The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with nonsteroidal anti-inflammatory drugs (NSAIDS), treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Cosentyx (secukinumab) or Taltz is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

- Polyarticular Juvenile Idiopathic Arthritis (pJIA)

  - Juvenile idiopathic arthritis (JIA) defines a collection of inflammatory arthritides of unknown etiology. JIA onset is prior to 16 years of age with a minimum duration of 6 weeks and other potential causes of synovitis are excluded. JIA can be subdivided into pJIA and systemic JIA.

  - pJIA is defined by the presence of more than 4 affected joints in the first 6 months of illness and comprises 20-30% of children with JIA. Therapy is directed toward treating the underlying inflammation and preventing JIA-associated complications and adverse effects of its treatment.

  - The 2019 American College of Rheumatology/Arthritis Foundation (ACR/AF) guideline for the treatment of JIA strongly recommends initial therapy for pJIA with a DMARD such as MTX or LEF. MTX is conditionally recommended over LEF as it has a greater volume of data supporting its effectiveness compared to LEF and can be administered subcutaneously (recommended) or orally. The guidelines consider an adequate trial of a DMARD to be 3 months.

  - If moderate or high disease activity persists despite adequate DMARD use, the ACR/AF guidelines recommend biologic agents either in combination with a DMARD or as monotherapy in certain situations. Biologic agents FDA approved for pJIA in patients 2 years of age and older include Humira® (adalimumab), Enbrel® (etanercept), tocilizumab, Orencia® (abatacept), Simponi Aria® (golimumab), Xeljanz® (tofacitinib), Xeljanz (tofacitinib) oral solution, and Cimzia (certolizumab pegol).

  - Of note, biologic therapy may be an appropriate initial therapy in pJIA patients with risk factors and involvement of high-risk joints, high disease activity, and/or for those judged to be at high risk of disabling joint damage.

  - There is the most experience with tumor necrosis factor inhibitors (TNFi; Humira, Enbrel, Simponi Aria) as initial biologic therapy; however, the preferred class of initial biologic is not specified in the guideline recommendations due to a lack of comparative data and the consideration that non-TNFi biologics may be preferred in certain patient-specific scenarios. If a TNFi is started as the initial biologic, switching to a non-TNFi (tocilizumab or Orencia) is recommended over switching to a second TNFi. An exception to this is for those who had a good initial response to the first TNFi.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Cimzia [prescribing information]. Smyrna, GA: UCB, Inc. September 2024.
2. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.
3. Fraenkel L, et al. 2021 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Care & Research. 2021 Jul; 73 (7):924-939.
4. Singh JA, Guyatt G, Ogdie A, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis & Rheumatology. 2018; 0(0): 1-28. https://www.rheumatology.org/Portals/0/Files/PsA-Guideline-Early-View-Version.pdf.
5. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
6. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448
7. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy [published correction appears in J Am Acad Dermatol. 2020 Mar;82(3):780]. J Am Acad Dermatol. 2019;81(3):775-804. doi:10.1016/j.jaad.2019.04.042
8. Elmets CA, Korman NJ, Prater EF, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures [published online ahead of print, 2020 Jul 30]. J Am Acad Dermatol. 2020;S0190-9622(20)32288-X. doi:10.1016/j.jaad.2020.07.087
9. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
10. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072. doi:10.1016/j.jaad.2018.11.057
11. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/
12. Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.
13. Ringold et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Treatment of JIA. Arthritis Care and Research. Vol 71 No 6 Jun 2019.

Policy History		
#	Date	Change Description
3.0	Effective Date: 07/01/2026 P&T Date: 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.9</td><td>Effective Date: 11/24/2025

P&T Date: 10/09/2025</td><td>Added criteria requiring member to self-administer unless clinically unable to do so</td></tr>
<tr><td>2.8</td><td>Effective Date: 10/03/2024</td><td>Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria</td></tr>
<tr><td>2.7</td><td>Effective Date: 12/14/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.6</td><td>Effective Date: 12/01/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.5</td><td>Effective Date: 12/09/2021</td><td>Updated to remove FDA approved indications, the phototherapy and oral DMARD criteria for psoriasis, the oral DMARD criteria for psoriatic arthritis, and added criteria requiring trial of one topical corticosteroid for psoriasis</td></tr>
<tr><td>2.4</td><td>Effective Date: 02/04/2021</td><td>Removal of the topical steroid criteria for psoriasis indication</td></tr>
<tr><td>2.3</td><td>Effective Date: 12/03/2020</td><td>Criteria updated to align management between pharmacy and medical benefit for all listed indications. Updated all background information</td></tr>
<tr><td>2.2</td><td>Effective Date: 06/11/2020</td><td>Annual review of medical policy</td></tr>
<tr><td>2.1</td><td>Effective Date: 11/01/2018</td><td>Updated to add required prescribers per indication</td></tr>
<tr><td>2.0</td><td>Effective Date: 08/09/2018</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.9</td><td>Effective Date: 08/10/2017</td><td>Take off steps for medical only</td></tr>
<tr><td>1.8</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 07/01/2017</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.6</td><td>Effective Date: 03/23/2017</td><td>Update to remove pharmacy benefit references</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/09/2017</td><td>Annual review and template update</td></tr>
<tr><td>1.4</td><td>Effective Date: 01/01/2016</td><td>Document updated with specified drugs required</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/01/2015</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2015</td><td>Criteria Update:
Updated requirement with specific number of tried and failed biologics from at least one and at least two for Crohn’s Disease and other diagnoses respectively to non-specified number of agents tried.</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/16/2013</td><td>Criteria Update</td></tr>
<tr><td>1.0</td><td>Effective Date: 04/22/2010</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Cinqair® (reslizumab)
HCPCS: J2786

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Cinqair is an interleukin-5 (IL5) antagonist monoclonal antibody (IgG4, kappa) indicated for add-on maintenance treatment of patients with severe asthma aged 12 years and older, and with an eosinophilic phenotype.

- Eosinophilic asthma is a sub phenotype of severe asthma characterized by elevated sputum and blood eosinophil levels as well as increased asthma severity, atopy, late-onset disease, and steroid refractoriness.

- Severe asthma requires treatment with high dose inhaled corticosteroids (ICS) plus a second controller (and/or systemic corticosteroids) to prevent it from becoming uncontrolled or which remains uncontrolled despite therapy. Add-on treatment for severe asthma includes LAMA, leukotriene receptor antagonist (LTRA), low dose azithromycin (adults) and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in majority of the of people with severe asthma and characterized by production of cytokines such as interleukin. Anti-IL5 monoclonal antibodies (Cinqair, Nucala, and Fasenra) specifically target the formation of eosinophils and deplete blood eosinophil levels.

- Add-on treatments for severe asthma include LAMAs, LTRA, low dose azithromycin (adults), and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in a majority of people with severe asthma and is characterized by the production of cytokines such as interleukin (IL). The Global Institute for Asthma (GINA) 2022 guidelines have the following recommendations for add-on biologic therapy for severe asthma:

  - Add-on anti-immunoglobulin E (anti-IgE) (omalizumab) treatment: for patients aged ≥6 years with moderate or severe allergic asthma that is uncontrolled on Step 4–5 treatment (Evidence A).

  - Add-on anti-interleukin-5/5R treatment (subcutaneous mepolizumab for patients aged ≥6 years; intravenous reslizumab for ages ≥18 years or subcutaneous benralizumab for ages ≥12 years), with severe eosinophilic asthma that is uncontrolled on Step 4–5 treatment. Efficacy data for mepolizumab in children 6–11 years are limited to one very small open label uncontrolled study.

  - Add-on anti-interleukin-4Rα treatment (subcutaneous dupilumab) for patients aged ≥6 years with severe eosinophilic/Type 2 asthma, or for adults or adolescents requiring treatment with maintenance oral corticosteroids.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Add-on anti-thymic stromal lymphopoietin (anti-TSLP) (subcutaneous tezepelumab): for patients aged ≥12 years with severe asthma (Evidence A).

- Per the GINA 2023 guidelines, a trial of at least 4 months of an add-on biologic therapy is recommended before assessing response.

- A peripheral blood eosinophil count is an indirect way to estimate airway inflammation. A blood eosinophil count ≥ 300 cells/microliter may help to predict asthmatics who are at increased risk for exacerbations in the next year. Furthermore, a count-response relation exists between blood eosinophil counts and asthma-related outcomes. The European Respiratory Society/American Thoracic Society guidelines from 2020 suggest that treatment of severe asthma be guided by clinical criteria and biomarkers such as blood eosinophil levels or fractional exhaled nitric oxide (FeNO), rather than by clinical criteria alone. In addition, it also suggests that a blood eosinophil count cut-off point of ≥ 150 cells/microliter can be used to guide anti-IL5 initiation in adult patients with severe asthma and a history of prior asthma exacerbations.

- Efficacy of Cinqair was evaluated versus placebo in four randomized, double-blind placebo-controlled trials of up to 52 weeks in a total of 981 patients.

  - In Studies I and II, the primary endpoint was the frequency of clinically significant exacerbations of asthma. Patients receiving Cinqair 3 mg/kg once every 4 weeks experienced significantly fewer exacerbations in comparison to patients receiving placebo.

  - Exacerbations requiring the use of a systemic corticosteroid as well as exacerbations resulting in hospitalization or an emergency room visit were each reduced with Cinqair 3 mg/kg.

  - In Studies III and IV, the primary endpoint was forced expiratory volume in one second (FEV1). Patients receiving Cinqair showed a significant improvement in lung function through changes in FEV1.

- Review response to biologic therapy after 3-4 months of treatment. If the patient had a good response, the need for each medication should re-evaluated, but do not completely stop inhaled therapy. Consider gradually decreasing or stopping oral steroids first.

References:

1. Cinqair® [package insert]. Frazer, PA: Teva Pharmaceutical Industries Ltd; February 2020.
2. Bleecker ER, Fitzgerald JM, Chanez P, et al. Efficacy and safety of Fasenra for patients with severe asthma uncontrolled with high-dosage inhaled corticosteroids and long-acting β2-agonists (SIROCCO): a randomized, multicenter, placebo-controlled phase 3 trial. Lancet. 2016;388:2115-2127.
3. FitzGerald JM, Bleecker ER, Nair P, et al. Benralizumab, an anti-interleukin-5 receptor α monoclonal antibody, as add-on treatment for patients with severe, uncontrolled, eosinophilic asthma (CALIMA): a randomized, double-blind, placebo-controlled phase 3 trial. Lancet. 2016;388:2128-2141.
4. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2023. Available from: www.ginasthma.org.
5. Holguin F, Cardet JC, Chung KF, et al. Management of severe asthma: a European Respiratory Society/American Thoracic Society guideline. Eur Respir J 2020; 55.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Table 1: Comparative cumulative daily dosing of inhaled corticosteroids (mcg/day)

Inhaled Corticosteroid	Ages 12 and Up			Ages 6-11		
	Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
Beclometasone dipropionate HFA	100 – 200	>200 – 400	>400	50 – 100	>100 – 200	>200
Budesonide DPI	200 – 400	>400 – 800	>800	100 – 200	>200 – 400	>400
Budesonide nebules	NA	NA	NA	250 – 500	>500 – 1,000	>1,000
Ciclesonide HFA	80 – 160	>160 – 320	>320	80	>80 – 160	>160
Fluticasone furoate DPI	100	NA	200	NA	NA	NA
Fluticasone propionate DPI	100 – 250	>250 – 500	>500	100 – 200	>200 – 400	>400
Fluticasone propionate HFA	100 – 250	>250 – 500	>500	100 – 200	>200 – 500	>500
Mometasone furoate	110 – 220	>220 – 440	>440	110	≥220 - <440	≥440
Triamcinolone acetonide	400 – 1,000	>1,000 – 2,000	>2,000	400 – 800	>800 – 1,200	>1,200

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
2.9	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made.
2.8	Effective Date: 10/03/2024	Changed the “Cannot be used in combination with other biologics for asthma” criteria to “Not to be used in combination with other biologics or targeted DMARDs for the same indication”
2.7	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 04/06/2023	Updated to require a 4 month trial of guidline supported pharmacy benefit alterniatives
2.5	Effective Date: 10/06/2022	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 10/07/2021	Updated LABA and LAMA requirement to LABA or LAMA
2.3	Effective Date: 06/10/2021	Criteria document created and criteria aligned between all biologic asthma agents. The criteria for asthma was previously part of the Biologics for Asthma Policy which will be retired after this P&T.
2.2	Effective Date: 08/13/2020	Criteria updated for Fasenra
2.1	Effective Date: 4/16/2020	Critieria update for step therapy to reference dosing chart for inhaled corticosteroids.
2.0	Effective Date: 12/05/2019	Updated policy criteria to include Fasenra self-administered product
1.9	Effective Date: 11/7/2019	Criteria update to authorization period and include FDA approved age
1.8	Effective Date: 08/15/2019	Updated criteria to account for new self-injectable Nucala formulation
1.7	Effective Date: 02/14/2019	Criteria update
1.6	Effective Date: 11/01/2018	Update Criteria

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 02/12/2018</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 02/08/2018</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/09/2017</td><td>Update Criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/11/2016</td><td>New Criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/01/2016</td><td>UM medical management system update for BCBSM and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/11/2016</td><td>Preliminary Criteria</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Colony Stimulating Factors (CSFs)

Armlupeg (pegfilgrastim-unne) **- HCPCS: Q5169**
Ennumo™ (pegfilgrastim-pccg) **- HCPCS: J3590**
Filkri® (filgrastim-laha) **- HCPCS: J3590**
Fulphila™ (pegfilgrastim-jmbd) **- HCPCS: Q5108**
Fylnetra® (pegfilgrastim-pbbk) **- HCPCS: Q5130**
Granix® (tbo-filgrastim) **- HCPCS: J1447**
Leukine® (sargramostim) **- HCPCS: J2820**
Neulasta® (pegfilgrastim) **- HCPCS: J2506**
Neulasta On-Pro® (pegfilgrastim) **- HCPCS: J2506**
Neupogen® (filgrastim) **- HCPCS: J1442**
Nivestym™ (filgrastim-aafi) **- HCPCS: Q5110**
Nypozi™ (filgrastim-txid) **- HCPCS: Q5148**
Nyvepria™ (pegfilgrastim-apgf) **- HCPCS: Q5122**
Releuko™ (filgrastim-ayow) **- HCPCS: Q5125**
Rolvedon™ (eflapegrastim-xnsxt) **- HCPCS: J1449**
Ryzneuta® (efbemalenograstim alfa-vuxw) **- HCPCS: J9361**
Stimufend® (pegfilgrastim-fpgk) **- HCPCS: Q5127**
Udenyca™ (pegfilgrastim-cbqv) **- HCPCS: Q5111**
Udenyca Onbody™ (pegfilgrastim-cbqv) **- HCPCS: Q5111**
Zarxio® (filgrastim-sndz) **- HCPCS: Q5101**
Ziextenzo™ (pegfilgrastim-bmez) **- HCPCS: Q5120**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- There are different types of colony stimulating factors (CSFs). Filgrastim-products, pegfilgrastim products and Leukine is the only sargramostim product. Filgrastim and pegfilgrastim products are human granulocyte colony-stimulating factors (G-CSFs). Leukine is a human granulocyte-macrophage CSF (GM-CSF).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Filgrastim products:
    - Granix is FDA approved to reduce the duration of severe neutropenia in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer medications associated with a clinically-significant incidence of febrile neutropenia. It is not technically considered a biosimilar because it was filed as a Biologics License Application since a biosimilars approval pathway had not been established at the time of FDA submission.
    - Neupogen is approved to:
        - Decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a significant incidence of severe neutropenia and fever.
        - Reduce the time to neutrophil recovery and the duration of fever following induction or consolidation chemotherapy treatment of adults with AML.
        - Reduce the duration of neutropenia and neutropenia-related clinical sequelae (e.g., febrile neutropenia) in patients with non-myeloid malignancies undergoing myeloablative chemotherapy followed by BMT.
        - Mobilization of autologous hematopoietic progenitor cells into the peripheral blood for collection by leukapheresis.
        - Chronic administration to reduce the incidence and duration of sequelae of neutropenia in symptomatic patients with congenital neutropenia, cyclic neutropenia, or idiopathic neutropenia.
        - Increase survival in patients acutely exposed to myelosuppressive doses of radiation (hematopoietic syndrome of acute radiation syndrome).
    - All of Neupogen's biosimilars are approved for the same indications as Neupogen with the exception of use to increase survival in patients acutely exposed to myelosuppressive doses of radiation (hematopoietic syndrome of acute radiation syndrome) which Nivestym is not indicated for.
- Pegfilgrastim products:
    - Neulasta is approved to:
        - Decrease the incidence of infection, as manifested by febrile neutropenia, in patients with non-myeloid malignancies receiving myelosuppressive anti-cancer drugs associated with a clinically-significant incidence of febrile neutropenia. Limitation of Use: This agent is not indicated for mobilization of peripheral blood progenitor cells for HSCT.
        - Increase survival in patients acutely exposed to myelosuppressive doses of radiation (hematopoietic subsyndrome of acute radiation syndrome).
    - All of Neulasta' s biosimilars are approved for the same indications as Neulasta with the exception of increasing survival in patients acutely exposed to myelosuppressive doses of radiation. Armlupeg, Ennumo, Stimufend, Udenyca, and Ziextenzo are approved for this indication.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Sargramostim is approved:
    - To shorten time to neutrophil recovery and to reduce the incidence of severe, life-threatening or fatal infections following induction chemotherapy in adult patients ≥ 55 years of age with AML.
    - In adult patients with cancer undergoing autologous hematopoietic stem cell transplantation for the mobilization of hematopoietic progenitor cells into peripheral blood for collection by leukapheresis.
    - To accelerate myeloid reconstitution following autologous peripheral blood progenitor cell or bone marrow transplantation in adult and pediatric patients ≥ 2 years of age with non-Hodgkin's lymphoma, lymphoblastic leukemia, and Hodgkin's lymphoma.
    - For acceleration of myeloid reconstitution in adult and pediatric patients ≥ 2 years of age undergoing allogeneic bone marrow transplantation from HLA-matched related donors.
    - Treatment of adult and pediatric patients ≥ 2 years of age who have undergone allogeneic or autologous BMT in whom neutrophil recovery is delayed or failed.
    - To increase survival in adult and pediatric patients from birth to 17 years of age acutely exposed to myelosuppressive doses of radiation (hematopoietic syndrome of acute radiation syndrome).
- Eflapegrastim and efbemalenograstim alfa-vuxw are approved:
    - To decrease the incidence of infection, as manifested by febrile neutropenia, in adult patients with nonmyeloid malignancies receiving myelosuppressive anti-cancer drugs associated with clinically significant incidence of febrile neutropenia
- CSF products have an established role in the management of patients with non-myeloid malignancies who are receiving myelosuppressive anti-cancer agents, as well as for several other uses. Many studies have shown that the prophylactic use of these products reduces the incidence, duration, and severity of febrile neutropenia, decrease the subsequent rates of infection and hospitalization, and improves the delivery of full-dose intensity chemotherapy on schedule in patients with various cancers.
- The National Comprehensive Cancer Network (NCCN) guidelines for various cancer and myeloid growth factors provides recommendations on the use of these agents. The criteria reflects these recommendations along with expert opinion.
- Regarding biosimilars, the NCCN guidelines state an FDA approved biosimilar is an appropriate substitution for its reference products.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Aapro MS, Bohlius J, Cameron DA, et al.; European Organisation for Research and Treatment of Cancer. 2010 update of EORTC guidelines for the use of granulocyte-colony stimulating factor to reduce the incidence of chemotherapy-induced febrile neutropenia in adult patients with lymphoproliferative disorders and solid tumours. Eur J Cancer. 2011; 47 (1): 8-32.
2. Bennett CL, Djulbegovic B, Norris LB, Armitage JO. Colony-stimulating factors for febrile neutropenia during cancer therapy. N Engl J Med. 2013; 368 (12): 1131-1139.
3. Clark OA, Lyman G, Castro AA, et al. Colony stimulating factors for chemotherapy induced febrile neutropenia. Cochrane Database Sys Rev. 2003; (3): CD003039.
4. Cooper KL, Madan J, Whyte S, Stevenson MD, Akehurst RL. Granulocyte colony-stimulating factors for febrile neutropenia prophylaxis following chemotherapy: systematic review and meta-analysis. BMC Cancer. 2011; 11: 404.
5. Crawford J, Armitage J, Balducci L, et al. Myeloid growth factors. J Natl Compr Canc Netw. 2013; 11 (10): 1266-1290.
6. Crawford J, Dale DC, Lyman GH. Chemotherapy-induced neutropenia: risks, consequences, and new directions for its management. Cancer. 2004; 100 (2): 228-237.
7. Freyer G, Jovenin N, Yazbek G, et al. Granocyte-colony stimulating factor (G-CSF) has significant efficacy as secondary prophylaxis of chemotherapy-induced neutropenia in patients with solid tumors: results of a prospective study. Anticancer Res. 2013; 33 (1): 301-307.
8. Hosmer W, Malin J, Wong M. Development and validation of a prediction model for the risk of developing febrile neutropenia in the first cycle of chemotherapy among elderly patients with breast, lung, colorectal, and prostate cancer. Support Care Cancer. 2011; 19 (3): 333-341.
9. Lyman GH, Abella E, Pettengell R. Risk factors for febrile neutropenia among patients with cancer receiving chemotherapy: a systemic review. Crit Rev Oncol Hematol. 2014; 90 (3): 190-199.
10. Lyman GH, Kuderer NM, Crawford J, et al. Predicting individual risk of neutropenic complications in patients receiving cancer chemotherapy. Cancer. 2011; 117 (9): 1917-1927.
11. Manko J, Walter-Croneck A, Jawniak D, et al. A clinical comparison of the efficacy and safety of biosimilar G-CSF and originator G-CSF in haematopoietic stem cell mobilization. Pharmacol Rep. 2014; 66 (2): 239-242.
12. Mhaskhar R, Clark OA, Lyman G, et al.; Colony-stimulating factors for chemotherapy-induced febrile neutropenia. Cochrane Database Syst Rev. 2014.
13. Sasse EC, Sasse AD, Brandalise SR, et al. Colony stimulating factors for prevention of myelosuppressive therapy induced febrile neutropenia in children with acute lymphoblastic leukaemia. Cochrane Database Syst Rev. 2005; (3): CD004139.
14. Schnipper LE, Smith TJ, Raghavan D, et al. American Society of Clinical Oncology identifies five key opportunities to improve care and reduce costs: the top five list for oncology. J Clin Oncol. 2012; 30 (14): 1715-1724.
15. Smith TJ, Khatcheressian J, Lyman G, et al. 2006 update of recommendations for the use of white blood cell growth factors: an evidence-based clinical practice guideline. J Clin Oncol. 2006; 24 (19): 3187-3205. Available at: http://www.jco.org/cgi/reprint/JCO.2006.06.4451v2.pdf.
16. Smith TJ, Bohlke K, Lyman G. et al. Recommendations for the Use of WBC growth factors: American Society of Clinical Oncology Clinical Practice Guideline Update. J Clin Oncol. 2015; 33 (28): 3199-3212.
17. Womer RB, West DC, Krailo MD, et al. Randomized controlled trial of interval-compressed chemotherapy for the treatment of localized Ewing sarcoma: A report from the Children's Oncology Group. J Clin Oncol. 2012; 30 (33): 4148-4154.
18. Facts & Comparisons. Wolters Kluwer Health, Inc. Riverwoods, IL. Available at: http://online.factsandcomparisons.com. Accessed March 8, 2022.
19. National Comprehensive Cancer Network. Hematopoietic growth factors (Version 3.2026). 2025 Dec 5. Available at: https://www.nccn.org/professionals/physician_gls/pdf/growthfactors.pdf. Accessed on May 13, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
4.4	Effective Date: 08/12/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Armlupeg
4.3	Effective Date: 06/11/2026	Updated to include Ennumo
4.2	Effective Date: 02/12/2026	Updated to include Armlupeg and Filkri
4.1	Effective Date: 08/07/2025	Annual review performed - no changes to criteria
4.0	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Nypozi
3.9	Effective Date: 08/08/2024	Updated to include Nypozi and add the statement that biosimilars will be approved for all indications of the innovator product when criteria is met
3.8	Effective Date: 07/18/2024	UM medical management system update for BCBS and BCN for Nypozi
3.7	Effective Date: 04/11/2024	Updated to remove the chemotherapy intent requirement and include criteria for use in low risk febrile neutropenia
3.6	Effective Date: 04/01/2024	UM medical management system update for MAPPO and BCNA for Ryzneuta and Udenyca Onbody
3.5	Effective Date: 03/05/2024	UM medical management system update for BCBS and BCN for Udenyca Onbody
3.4	Effective Date: 02/08/2024	Updated to include Ryzneuta and Udenyca Onbody
3.3	Effective Date: 01/01/2024	UM medical management system update for BCBS and BCN for Ryzneuta
3.2	Effective Date: 04/06/2023	Updated the authorization period to aligns with FDA recommended or guideline supported treatment duration and provided for at least 60 days up to 6 months at a time
3.1	Effective Date: 03/13/2023	UM medical management system update for Fylnetra and Rolvedon for BCBSM and BCN
3.0	Effective Date: 03/01/2023	UM medical management system update for Stimufend and Rolvedon for BCNA and MAPPO
2.9	Effective Date: 02/02/2023	UM medical management system update for Stimufend for BCBSM and BCN
2.8	Effective Date: 12/19/2022	UM medical management system update for Fylnetra for BCNA and MAPPO

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.7	Effective Date: 12/01/2022	Updated to include Rolvedon
2.6	Effective Date: 11/01/2022	UM medical management system update for Releuko for BCBSM and BCN
2.5	Effective Date: 10/06/2022	Updated to include Stimufend
2.4	Effective Date: 08/08/2022	UM medical management system update for Releuko for BCNA and MAPPO
2.3	Effective Date: 08/04/2022	Updated to include Fylnetra and add additional criteria for sargramostim supported by FDA labeling
2.2	Effective Date: 04/14/2022	Updated to include Releuko
2.1	Effective Date: 08/12/2021	Annual review performed, no changes to criteria
2.0	Effective Date: 10/01/2020	UM medical management system update for Neupogen and Granix for BCBSM
1.9	Effective Date: 08/13/2020	Added Nyvepria as a new drug
1.8	Effective Date: 12/05/2019	Added Ziextenzo as a new drug
1.7	Effective Date: 05/09/2019	Update per vendor recommendations
1.6	Effective Date: 12/06/2018	Added Udenyca
1.5	Effective Date: 08/09/2018	Adding change in indication for Leukine and added new approved biosimilars Fulphila and Nivestym
1.4	Effective Date: 11/09/2017	Annual review performed, no changes to criteria
1.3	Effective Date: 11/10/2016	Annual review performed, no changes to criteria
1.2	Effective Date: 05/05/2016	Updated due to new indication and dose for peg-filgrastim
1.1	Effective Date: 08/13/2015	Addition of Zarxio and added new indication to Neupogen

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 05/08/2014</td>
<td>New policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Columvi™ (glofitamab-gxbm)
HCPCS: J9286

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Columvi is a bispecific CD20-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory diffuse large B-cell lymphoma, not otherwise specified (DLBCL, NOS) or large B-cell lymphoma (LBCL) arising from follicular lymphoma, after two or more lines of systemic therapy.

- Safety and efficacy were evaluated in the NP30179 study, a phase I/II, open-label, multicenter, single-arm trial that included 132 patients with relapsed or refractory DLBCL after two or more lines of systemic therapy, which included an anti-CD20 monoclonal antibody regimen and an anthracycline containing regimen. Subjects also must have CD20 positive disease, measurable disease, and an ECOG score of 0 – 2. Patients were also excluded from the trial if creatinine clearance was greater than 50 mL/min; alanine aminotransferase was less than 3 times the upper limit of normal; they had known active CNS involvement of lymphoma; there was an infection that was uncontrolled or required IV or long-term oral antimicrobial therapy; or they could not have HIV infection or hepatitis B or C virus infection if the viral load was detectable. Those with myocardial infarction, cardiac angioplasty or stenting, unstable angina, or New York Heart Association Class II or greater congestive heart failure events within 6 months of study entry were not enrolled in the trial. The primary outcome was complete response rate (CR). The median time to a complete response was 42 days (95% CI: 42, 44) and the majority (78%) of complete responses were ongoing at 12 months. The 12 month progression-free survival was 37% (95% CI: 28, 46).

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- Due to the risk of cytokine release syndrome (CRS), Columvi should be administered in an inpatient setting during cycle 1, day 8. Patients who experienced any grade CRS following the cycle 1 day 8 dose should be hospitalized during and for 24 hours after completion of cycle 1 day 15 dosage of 10 mg. For subsequent doses, patients who experienced grade 2 or greater CRS with their previous infusion should be hospitalized during and for 24 hours after the completion of the next Columvi infusion.

- Columvi has not been studied when given following prior treatment with Columvi or following any other bispecific CD20-directed CD3 T-cell engager therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Columvi [prescribing information]. South San Francisco, CA: Genentech, Inc.; June 2025.
2. National Comprehensive Cancer Network. B-cell lymphomas (Version 2.2024). 2024 April 30. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on August 1, 2024.
3. Dickinson MJ, Carlo-Stella C, Morschhauser F, at al. Glofitamab for relapsed or refractory diffuse large b-cell lymphoma. NEJMed. 2022 Dec 15; 387: 2220 – 31.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>Updated to remove requirements that the disease is CD20 positive, the disease is measurable, creatinine clearance greater than 50 mL/min, hepatic transaminases less than 2 times the upper limit of normal, no infection that is uncontrolled or requires IV or long-term oral antimicrobial therapy, no HIV infection; hepatitis B or C virus infection permitted only if viral load undetectable, no myocardial infarction, cardiac angioplasty or stenting, unstable angina, or New York Heart Association Class II or greater congestive heart failure events within 6 months, and that the disease must not have been refractory to a prior Gazyva monotherapy regimen</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 03/01/2024</td><td>UM medical management system update for BCNA, MAPPO, BCN, and BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/10/2023</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Cosela™ (trilaciclib)
HCPCS: J1448

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Cosela is approved for use to decrease the incidence of chemotherapy-induced myelosuppression in adult patients when administered prior to a platinum/etoposide-containing regimen or topotecan-containing regimen for extensive-stage small cell lung cancer (ES-SCLC).

- Cosela works by inhibiting cyclin-dependent kinase 4/6, a type of enzyme that is involved in hematopoietic stem and progenitor cell (HSPC) proliferation. HSPCs in the bone marrow give rise to circulating neutrophils, red blood cells and platelets. It is designed to protect bone marrow from damage when administered prior to treatment with chemotherapy.

- SCLC accounts for about 10-15% of all lung cancers. In the United States, approximately 30,000 SCLC are treated annually. SCLC is an aggressive disease with about 2 out of 3 people diagnosed with extensive disease when their cancer is first found. The five-year survival rate is less than 2%.

- Standard of care chemotherapy regimens for ES-SCLC are highly myelosuppressive and can lead to increased risks of infection, severe anemia, bleeding, reduced or delayed dosing and hospitalizations. This is important as the patient population is often elderly with multiple comorbid conditions that increase the risk of chemotherapy.

- The approval of Cosela was based on 3 randomized, double-blind, placebo-controlled studies in 242 patients with ES-SCLC. Patients had an ECOG performance status of 0-2 and primary prophylactic granulocyte colony-stimulating factors (G-CSFs) was not allowed in cycle 1. The studies compared the proportion of patients with severe neutropenia and the duration of severe neutropenia in the first cycle of chemotherapy.

    - Across the 3 studies when given prior to chemotherapy, Cosela significantly decreased induced myelosuppression and the need for supportive care interventions.

    - Cosela showed statistically significant reductions in the duration of severe neutropenia, the percentage of patients who developed severe neutropenia, and the percentage of patients who required supportive care interventions, including G-CSFs, ESAs, and blood cell transfusions.
    - In the pivotal trial, 30% of patients treated with Cosela still required G-CSFs (47% with placebo) and 13% still required blood transfusions (21% with placebo).
    - Patients on Cosela across all studies experienced less ≥ grade 3 Aes, primarily due to a reduction in hematological ≥ grade 3 Aes, cycle delays, dose reductions and hospitalizations due to chemotherapy-induced myelosuppression or sepsis compared to placebo.
    - Cosela did not have a statistical effect on disease progression and survival.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2024 National Comprehensive Cancer Network Guidelines for Hemopoietic Growth Factors treatment approaches for chemotherapy induced myelosuppression include growth factor agents to accelerate blood cell recovery after the bone marrow injury has occurred, Cosela as a myeloprotective agent given prior to myelosuppressive chemotherapy, along with antibiotics and transfusions as needed. Myeloid growth factors, G-CSFs, are used to reduce the incidence of febrile neutropenia. Erythropoiesis-stimulating agents (ESAs), are used to manage anemia.

References:

1. Cosela [prescribing information]. Durham, NC: G1 Therapeutics; August 2023.
2. Daniel D, Kuchava V, Bondarenko I, Ivashchuk O, Reddy S, Jaal J, Kudaba I, Hart L, Matitashvili A, Pritchett Y, Morris SR, Sorrentino JA, Antal JM, Goldschmidt J. Trilaciclib prior to chemotherapy and atezolizumab in patients with newly diagnosed extensive-stage small cell lung cancer: A multicentre, 148andomized, double-blind, placebo-controlled Phase II trial. Int J Cancer. 2020 Dec 21.
3. Hart LL, Ferrarotto R, Andric ZG, Beck JT, Subramanian J, Radosavljevic DZ, Zaric B, Hanna WT, Aljumaily R, Owonikoko TK, Verhoeven D, Xiao J, Morris SR, Antal JM, Hussein MA. Myelopreservation with Trilaciclib in Patients Receiving Topotecan for Small Cell Lung Cancer: Results from a Randomized, Double-Blind, Placebo-Controlled Phase II Study. Adv Ther. 2021 Jan;38(1):350-365. Doi: 10.1007/s12325-020-01538-0. Epub 2020 Oct 29.
4. Weiss JM, Csoszi T, Maglakelidze M, Hoyer RJ, Beck JT, Domine Gomez M, Lowczak A, Aljumaily R, Rocha Lima CM, Boccia RV, Hanna W, Nikolinakos P, Chiu VK, Owonikoko TK, Schuster SR, Hussein MA, Richards DA, Sawrycki P, Bulat I, Hamm JT, Hart LL, Adler S, Antal JM, Lai AY, Sorrentino JA, Yang Z, Malik RK, Morris SR, Roberts PJ, Dragnev KH; G1T28-02 Study Group. Myelopreservation with the CDK4/6 inhibitor trilaciclib in patients with small-cell lung cancer receiving first-line chemotherapy: a phase Ib/randomized phase II trial. Ann Oncol. 2019 Oct 1;30(10):1613-1621. Doi: 10.1093/annonc/mdz278.
5. National Comprehensive Cancer Network. Hematopoietic Growth Factors (Version 1.2025). 2024 Oct 11. Available at: https://www.nccn.org/professionals/physician_gls/pdf/growthfactors.pdf. Accessed on February 7, 2025.
6. Facts & Comparisons. Wolters Kluwer Health, Inc. Riverwoods, IL. Available at: http://online.factsandcomparisons.com. Accessed February 17, 2021.
7. IPD Analytics. New Drug Review. Cosela (trilaciclib). February 2021.

Policy History		
#	Date	Change Description
1.6	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 04/11/2024	Updated to remove the ECOG score requirement
1.3	Effective Date: 04/06/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 04/14/2022</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/24/2021</td><td>UM medical management system update for BCNA, MAPPO, BCN, and BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 04/08/2021</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Cosentyx® IV (secukinumab)
HCPCS: J3247

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Cosentyx is an interleukin-17 (IL-17) receptor A antagonist indicated for the following:
  - Active psoriatic arthritis in patients 2 years of age and older
  - Adults and pediatric patients 12 years of age and older with active ankylosing spondylitis
  - Adults with active non-radiographic axial spondyloarthritis with objective signs of inflammation.
  - Active enthesitis-related arthritis in patients 4 years of age and older
  - Adults and children 12 years of age and older with moderate to severe hidradenitis suppurativa
- Cosentyx is available in a self-administered subcutaneous (SC) formulation for all indications, and as an intravenous (IV) infusion for adults with psoriatic arthritis, active ankylosing spondylitis, and active NRAS. The IV formulation requires a healthcare provider for administration.
- Clinical reasons a patient may be unable to self-administer Cosentyx include:
  - Patient or caregivers are unable to perform subcutaneous injections with proper technique.
  - Member requires monthly medical support from the physician.
- There are no published, robust studies to support the use of more than one biologic product or targeted DMARD in combination for the same indication
- Psoriatic Arthritis
  - PsA is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis:
  - All recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.
  - In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.
  - If PsA remains active despite OSM therapy, switching to a tumor necrosis factor inhibitor (TNFi), an IL (interleukin)-17 inhibitor (IL-17i), or an IL-12/23i biologic is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. Additional treatment options include Orencia® (abatacept) and Xeljanz® (tofacitinib). The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

– Ankylosing Spondylitis

- Axial spondyloarthritis, comprising AS and NRAS, is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.
- The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with NSAIDS, treatment with TNFi biologics are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Cosentyx® (secukinumab) or Taltz® (ixekizumab) is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

– Non-Radiographic Axial Spondyloarthritis

- Axial spondyloarthritis, comprising AS and NRAS, is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.
- The 2019 ACR recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with NSAIDS, treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Cosentyx (secukinumab) or Taltz (ixekizumab) is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

References:

1. Cosentyx [prescribing information]. East Hanover, New Jersey: Novartis Pharmaceuticals Corporation; April 2026.
2. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.
3. Ringold S, Angeles-Han ST, et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Treatment of Juvenile Idiopathic Arthritis: Therapeutic Approaches for Non-Systemic Polyarthritis, Sacroiliitis, and Enthesitis. Arthritis Rheumatol. 2019 June ; 71(6): 846–863. doi:10.1002/art.40884.
4. Singh JA, Guyatt G, Ogdie A, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis & Rheumatology. 2018; 0(0): 1-28. https://www.rheumatology.org/Portals/0/Files/PsA-Guideline-Early-View-Version.pdf.
5. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy [published correction appears in J Am Acad Dermatol. 2020 Mar;82(3):780]. J Am Acad Dermatol. 2019;81(3):775-804. doi:10.1016/j.jaad.2019.04.042
6. Elmets CA, Korman NJ, Prater EF, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures [published online ahead of print, 2020 Jul 30]. J Am Acad Dermatol. 2020;S0190-9622(20)32288-X. doi:10.1016/j.jaad.2020.07.087
7. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
8. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072. doi:10.1016/j.jaad.2018.11.057
9. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.
10. Klein-Gitelman, Marisa. Spondyloarthritis in children. In: UpToDate, Post TW (Ed), UpToDate, Waltham, Ma. (Accessed on January 12, 2022).
11. Ruperto N, Foeldvari I, Alexeeva E on behalf of PRCSG and PRINTO investigative sites, et al. LB0004 EFFICACY AND SAFETY OF SECUKINUMAB IN ENTHESITIS-RELATED ARTHRITIS AND JUVENILE PSORIATIC ARTHRITIS: PRIMARY RESULTS FROM A RANDOMISED, DOUBLE-BLIND, PLACEBO-CONTROLLED, TREATMENT WITHDRAWAL, PHASE 3 STUDY (JUNIPERA). Annals of the Rheumatic Diseases 2021;80:201-202.
12. Alikhan A, Sayed C, Alavi, A et al. North American clinical management guidelines for hidradenitis suppurativa: A publication from the United States and Canadian Hidradenitis Suppurativa Foundations Part II: Topical, intralesional, and systemic medical management. Journal of the American Academy of Dermatology, Volume 81, Issue 1, 91 - 101.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 06/11/2026</td><td>Updated supporting information to reflect expanded ankylosing spondylitis indication from adults to now adults and children 12 years of age and older</td></tr>
<tr><td>1.5</td><td>Effective Date: 04/16/2026</td><td>Updated supporting information to reflect expanded hidradenitis suppurativa indication from adults to now adults and children 12 years of age and older</td></tr>
<tr><td>1.4</td><td>Effective Date: 11/24/2025

P&T Date: 10/09/2025</td><td>Added criteria requiring member to self-administer unless clinically unable to do so</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2024</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/14/2023</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 11/09/2023</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Crysvita® (burosumab-twza)
HCPCS: J0584

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Crysvita is a fibroblast growth factor 23 (FGF23) blocking antibody indicated for the treatment of X-linked hypophosphatemia (XLH) in adult and pediatric patients 6 months of age and older and the treatment of FGF23-related hypophosphatemia in tumor induced osteomalacia (TIO) associated with phosphaturic mesenchymal tumors that cannot be curatively resected or localized in adult and pediatric patients 2 years of age and older.

- XLH is a hereditary phosphate wasting condition, caused by inactivating mutations in the phosphate-regulating endopeptidase homolog X-linked (PHEX) gene. This leads to an increase in fibroblast growth factor 23 (FGF23 levels), which then causes renal wasting and decreased intestinal absorption of phosphate.

- The diagnosis is confirmed with genetic testing for the PHEX mutation. However, genetic testing is not always necessary. For example, a patient with a family history consistent with the disease and biochemical features such as elevated FGF23 levels low and serum phosphate, and sign and symptoms consistent with the disease is sufficient to confirm the diagnosis and initiate treatment.

- Skeletal abnormalities, including rickets, osteomalacia, and growth failure, are the major clinical findings in children with XLH. Although adults with XLH may have less obvious symptoms, they often have significant functional impairment and multiple complications, emphasizing that the disorder is truly lifelong and not simply a disorder of the growth plate that resolves with the cessation of growth.

- TIO is a rare, acquired paraneoplastic syndrome caused by tumoral overproduction of FGF23, which then causes renal wasting and decreased intestinal absorption of phosphate that acts primarily at the proximal renal tubule to inhibit phosphate reabsorption and 1α-hydroxylation of 25-hydroxyvitamin D, which leads to hypophosphatemia and eventually osteomalacia.

- Definitive treatment for TIO is complete tumor resection, which leads to prompt reversal of the biochemical abnormalities and healing of the bone disease over a period of 6 to 12 weeks.

- However, the tumors that cause this syndrome are difficult to identify because they are small, slow growing, and may be found in bone or soft tissue anywhere in the body.

- A diagnosis can be confirmed based on a combination of biochemical markers and history of clinical manifestations.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Biochemical markers which are consistent with the patient population from the clinical trial include

  - Elevated serum FGF23 level. The reference range can range based on the laboratory used. The majority of patients with tumor induced osteomalacia have FGF23 levels above 2 times the upper limit of the reference interval.

  - Low serum phosphorus level

  - Low ratio of renal tubular maximum reabsorption rate of phosphate to glomerular filtration rate (TmP/GFR) <2.5 mg/dL. TmP/GFR provides the most accurate assessment of renal phosphate handling to confirm renal tubular phosphate wasting.

- Signs and symptoms include bone pain, muscle pain, and fatigue.

- Treatment of choice is resection of the tumor and is almost always curative and provides rapid improvement

- There are no established treatment guidelines for these conditions. The safety and efficacy of Crysvita was established based on clinical trials in patients with these conditions despite treatment with activated vitamin D and phosphate supplements. The standard of care when medical management is warranted, prior to the approval of Crysvita, was treatment with activated vitamin D and phosphate supplements as outlined in several published guidances. Activated vitamin D and phosphate supplements are effective treatment options and have shown to improve bone disease. There is insufficient evidence to establish that Crysvita is more effective than vitamin D and phosphate supplements at this time.

References:

1. Crysvita [prescribing information]. Novato, CA: Ultragenyx. August 2025.
2. Carpenter, TO, Imel, EA, Holm, IA, Jan de Beur, SM, Insogna, KL. A clinician's guide to X-linked hypophosphatemia. Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research. 2011 Jul;26(7):1381-8. PMID: 21538511.
3. Haffner D, Emma F, Eastwood DM, et al. Clinical practice recommendations for the diagnosis and management of X-linked hypophosphataemia. Nat Rev Nephrol. 2019;15(7):435-455. doi:10.1038/s41581-019-0152-5
4. Florenzano P, Gafni RI, Collins MT. Tumor-induced osteomalacia. Bone Rep. 2017;7:90-97. Available at: https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5633085/.
5. Scheinman SJ, Carpenter T, Drezner MK. Hereditary hypophosphatemia rickets and tumor-induced osteomalacia. UpToDate, Waltham, MA. (Accessed on October 9, 2024.)
6. Ali, Dalal S., Carpenter, Thomas, et al. X-Linked Hypophosphatemia Management in Children: An International Working Group Clinical Practice Guideline. The Journal of Clinical Endocrinology & Metabolism, Volume 110, Issue 7, July 2025, Pages 2055–2070. doi: 10.1210/clinem/dgaf093
7. Khan, Aliya A, Ali, Dala S., et al. X-Linked Hypophosphatemia Management in Adults: An International Working Group Clinical Practice Guideline, The Journal of Clinical Endocrinology & Metabolism, Volume 110, Issue 8, August 2025, Pages 2353–2370, doi:10.1210/clinem/dgaf170

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Haffner, D., Emma, F., Seefried, L. et al. Clinical practice recommendations for the diagnosis and management of X-linked hypophosphataemia. Nat Rev Nephrol 21, 330–354 (2025). doi:10.1038/s41581-024- 00926-x
9. Dahir, Kathryn, Zanchetta, Maria Belen, et al. Management of Tumor-induced Osteomalacia: Perspectives From Clinical Experience, Journal of the Endocrine Society, Volume 5, Issue 9, September 2021. Doi:10.1210/jendso/bvab099

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.0</td><td>Effective Date:
12/04/2025</td><td>Updated criteria to remove active vitamin D and phosphate supplement step from pediatric patients with XLH. Updated formatting of steps to clarify listed requirements.</td></tr>
<tr><td>1.9</td><td>Effective Date:
12/12/2024</td><td>Annual review was completed, no changes to criteria</td></tr>
<tr><td>1.8</td><td>Effective Date:
12/14/2023</td><td>Annual review was completed, no changes to criteria</td></tr>
<tr><td>1.7</td><td>Effective Date:
12/01/2022</td><td>Annual review was completed, no changes to criteria</td></tr>
<tr><td>1.6</td><td>Effective Date:
12/09/2021</td><td>Removed physician requirement and the criteria requiring a score of 4 or greater on BPI question 3 for confirmation of XLH diagnosis.</td></tr>
<tr><td>1.5</td><td>Effective Date:
08/12/2021</td><td>Annual review was completed, no changes to criteria</td></tr>
<tr><td>1.4</td><td>Effective Date:
08/13/2020</td><td>Updates were made to the criteria, including adding criteria for a new indication</td></tr>
<tr><td>1.3</td><td>Effective Date:
12/05/2019</td><td>Updated for new FDA approved age</td></tr>
<tr><td>1.2</td><td>Effective Date:
10/01/2019</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date:
08/15/2019</td><td>Annual Review of Medical Policy</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
08/09/2018</td>
<td>New full drug review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Denosumab Products

Aukelso™ (denosumab-kyqq) **- HCPCS: Q5161**
Bildyos® (denosumab nxxp) **- HCPCS: Q5162**
Bilprevda® (denosumab-nxxp) **- HCPCS: Q5162**
Bomyntra® (denosumab-bnht) **- HCPCS: Q5158**
Boncresa™ (denosumab-mobz) **- HCPCS: Q5171**
Bosaya™ (denosumab-kyqq) **- HCPCS: Q5161**
Conexxence® (denosumab-bnht) **- HCPCS: Q5158**
Denosumab-bbdz- HCPCS: Q5136
Denosumab-bmwo- HCPCS: J3590
Denousmab-bnht- HCPCS: Q5158
Denosumab-dssb- HCPCS: Q5159
Enoby™ (denosumab- qbde) **- HCPCS: Q5167**
Jubbonti® (denosumab-bbdz) **- HCPCS: Q5136**
Jubereq® (denosumab-desu) **- HCPCS: Q5166**
Osenvelt® (denosumab-bmwo) **- HCPCS: Q5157**
Ospomyv™ (denosumab-dssb) **- HCPCS: Q5159**
Osvyrti® (denosumab-desu) **- HCPCS: Q5166**
Oziltus™ (denosumab-mobz) **- HCPCS: Q5165**
Ponlimsi™ (denosumab-adet) **- HCPCS: J3590**
Prolia® (denosumab) **- HCPCS: J0897**
Stoboclo® (denosumab-bmwo) **- HCPCS: Q5157**
Wyost® (denosumab-bbdz) **- HCPCS: Q5136**
Xgeva® (denosumab) **- HCPCS: J0897**
Xbryk™ (denosumab-dssb) **- HCPCS: Q5159**
Xtrenbo™ (denosumab- qbde) **- HCPCS: Q5167**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Background Information:

- Denosumab is a fully human monoclonal antibody against the receptor activator of nuclear factor-kB ligand (RANKL). RANKL is a cytokine that is essential for the formation, function, and survival of osteoclasts. By binding RANKL, denosumab prevents the interaction of RANKL with its receptor on osteoclasts and osteoclast precursors and reversibly inhibits osteoclast-mediated bone resorption. As a monoclonal antibody, denosumab has potential safety risks/significant safety concerns that must be balanced against its potential benefits. Due to its mechanism of action, denosumab presents a novel approach to fracture prevention.

- Bisphosphonates are currently the most predominantly prescribed treatments and have a proven history of safety and efficacy.

- Osteoporosis

    - Approximately 54 million people in the United States have osteoporosis or another form of low bone mass. Breakdown of bone structure may be the result of natural aging and calcium deficiency (e.g., senile osteoporosis) or due to hormonal changes as in post-menopause. The decrease in bone mass and deterioration of bone tissue in osteoporosis can result in bone fragility and potential for fractures. Fractures related to osteoporosis and bone loss are a concern because of the high morbidity and mortality rate and economic burden. The National Osteoporosis Foundation estimates that 1 in 2 women and 1 in 4 men over 50 years of age will break a bone as a result of osteoporosis, resulting in $19 billion in related costs every 2 years and 2 million broken bones.

    - There are numerous randomized controlled trials (RCTs) assessing the efficacy of denosumab. However, only one trial studied the clinically meaningful endpoint of fracture prevention. All other efficacy trials used percent change in bone mineral density (BMD) as the primary endpoint. BMD is a surrogate marker and change in BMD is poorly correlated to fracture prevention. There is one placebo-controlled trial that established the efficacy of denosumab (Prolia) with regard to decreased fracture risk. Denosumab (Prolia) reduces the risk of vertebral, hip, and non-vertebral fractures in post-menopausal women with osteoporosis over 36 months when compared to placebo.

    - Denosumab (Prolia) has not been proven in reliable clinical studies to be more effective than bisphosphonates for treatment of osteoporosis.

    - There are trials comparing denosumab (Prolia) to oral alendronate and IV zoledronic acid for the treatment of osteoporosis in post-menopausal women. The primary endpoint of these trials is BMD changes at 12 and 24 months which is not as clinically relevant as fracture data. One small RCT demonstrated greater osteoporotic fracture reduction for denosumab compared to alendronate; however, future longitudinal studies with longer follow-up and larger sample sizes are needed to confirm the efficacy difference between denosumab and bisphosphonates.

    - The FRAX® tool (www.shef.ac.uk/FRAX) was developed by the World Health Organization (WHO) to evaluate fracture risk of patients. It integrates clinical risk factors with BMD at the femoral neck. The FRAX® tool provides the 10-year probability of fracture. The output is a 10-year probability of hip fracture and a 10-year probability of major osteoporotic fracture (forearm, shoulder, or clinical vertebral fracture).

    - Treatment should be considered if the 10-year risk is 3% or more for hip fracture or 20% or more for “major” osteoporosis-related fracture based on the US-adapted WHO algorithm (FRAX® tool).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The American Association for Clinical Endocrinology (AACE)/American College of Endocrinology (ACE) guidelines (2020) define osteoporosis as a BMD T-score at or lower than -2.5. However, a non- or low-traumatic fracture (fragility fracture) is considered osteoporosis regardless of T-score. The AACE guidelines include the following recommendations:

    - AACE/ACE guidelines separate patients with osteoporosis into two categories – high risk or very high risk. Patients who have had a recent fracture (e.g., within the past 12 months), fractures while on approved osteoporosis therapy, multiple fractures, fractures while on drugs causing skeletal harm (e.g., long-term glucocorticoids), very low T-score (e.g., less than − 3.0), high risk for falls or history of injurious falls, and very high fracture probability by FRAX® (e.g., major osteoporosis fracture > 30%, hip fracture > 4.5%) or other validated fracture risk algorithm should be considered to be at very high fracture risk. All other patients who have been diagnosed with osteoporosis but are not at very high fracture risk, as defined above, are considered to be high risk.

    - The Endocrine Society 2020 Guidelines for the Pharmacological Management of Osteoporosis in Postmenopausal Women separate patients into 4 categories. Their high risk and very high risk categories align with those defined by the AACE/ACE guidelines. However, they also identify patients as low risk if they have no prior hip or spine fractures, a BMD T-score at the hip and spine both above −1.0, a 10-year hip fracture risk < 3%, and 10-year risk of major osteoporotic fractures < 20% or moderate risk when they have no prior hip or spine fractures, a BMD T-score at the hip and spine both above −2.5, and 10-year hip fracture risk < 3% or risk of major osteoporotic fractures < 20%.

    - The AACE recommends either bisphosphonates (IV or oral) or denosumab as initial treatment options for patients with high risk osteoporosis without prior fracture. Guidelines do not give preference to one antiresorptive therapy over another. Bisphosphonates decrease the breakdown of bone and have been shown to increase BMD and reduce the incidence of fractures in patients with osteoporosis. Contraindications to bisphosphonates include hypocalcemia and severe renal impairment. In addition, oral bisphosphonates are contraindicated in patients with the inability to stand or sit upright for at least 30 minutes and may not be an appropriate option in patients with underlying gastrointestinal issues. However, use of IV bisphosphonates is still appropriate in these situations.

    - There is evidence to support the superiority of certain antiresorptive agents (Prolia and IV zoledronate) and anabolic agents (Evenity®, Tymlos®, and Forteo®) over oral bisphosphonates for individuals who are unable to use oral bisphosphonates and as initial therapy for individuals with osteoporosis who are considered to be at very high risk for fracture, such as those with a T-score less than -3.0 or those with a history of fracture. These guidelines do not give preference to one therapy over another.

    - The Endocrine Society guidelines recommend initial treatment of patients at moderate risk with bisphosphonates (oral or IV) as initial therapy. For patients in the high to very high risk categories, the treatment algorithm recommends bisphosphonates, denosumab, teriparatide, abaloparatide, or romosuzumab all with adjunct calcium and vitamin D therapy as their treatment options.

    - Sequential treatment with a bisphosphonate or denosumab (Prolia) is recommended after discontinuation of an anabolic agent to prevent bone density decline and loss of fracture efficacy.

    - Until the effect of combination therapy on fracture risk is better understood, the AACE does not recommend concomitant use of FDA approved osteoporosis agents for the prevention or treatment of postmenopausal osteoporosis.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

    - The goal of monitoring osteoporosis therapy is to identify those who have significant bone loss. AACE recommends a repeat DXA scan 1 to 2 years after initiation of therapy until bone density is stable. Bone turnover markers (BTMs) are also useful for assessing patient compliance and efficacy of therapy. Reductions in BTMs are conferred by antiresorptive therapy and are associated with fracture reduction. Significant increases in BTMs indicate good response to anabolic therapy.

    - A drug holiday is not recommended for denosumab (Prolia), and treatment with denosumab should be continued for as long as clinically appropriate. If denosumab therapy is discontinued, patients should be transitioned to another antiresorptive therapy.

- Glucocorticoid-Induced Osteoporosis:

    - A 24-month international, multi-center, double-blind, active-controlled, double-dummy, non-inferiority study compared denosumab to risedronate. Of the 795 patients enrolled, 505 were glucocorticoid-continuing and 290 were initiating therapy. Denosumab was both non-inferior and superior to risedronate at 12 months for effect on BMD at the lumbar spine in both glucocorticoid-continuing (4.4% [95% CI 3.8–5.0] vs 2.3% [1.7–2.9]; p<0.0001) and glucocorticoid-initiating (3.8% [3.1–4.5] vs 0.8% [0.2–1.5]; p<0.0001) subpopulations. Incidence of adverse events, serious adverse events (including infections), and fractures was similar between treatment groups.

    - Guidelines from the American College of Rheumatology (ACR) for the prevention and treatment of glucocorticoid-induced osteoporosis (GIOP; 2022) include the following recommendations:

        - A strong recommendation for usage of oral bisphosphonates over no treatment for adults ≥ 40 years old receiving long-term glucocorticoids who are at high or very high risk for fracture.

        - Other agents including IV bisphosphonates, parathyroid hormone/parathyroid hormone related protein (PTH/PTHrP: Foteo or Tymlos), and denosumab are also options that are conditionally recommended. However, ACR notes that the evidence for fracture reduction for denosumab and PTHrP has been demonstrated in general osteoporosis but not GIOP. In addition, ACR states that the denosumab trials were not powered to detect reductions of GIOP fractures and instead use a surrogate endpoint of BMD changes and that the relationship between increases in BMD and a decrease in vertebral fractures is inconsistent.

- Prevention of Osteoporosis Due to Hormone Suppression:

    - In breast and prostate cancer patients on hormone suppression therapy, hormone suppression increases bone turnover and decreases BMD. Oral bisphosphonates are the best value for the prevention of osteoporosis in patients on hormone suppression therapy.

    - There is a limited body of evidence for fracture prevention during hormone suppression therapy. Clinical trials were designed to demonstrate an increase in BMD without evidence of fracture prevention. BMD is a surrogate for fracture risk, the more clinically meaningful measure of efficacy.

    - For prevention of osteoporosis in patients with prostate cancer during androgen deprivation therapy (ADT): there is evidence that denosumab, pamidronate,

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

zoledronic acid, and alendronate increase BMD during ADT. NCCN Prostate Cancer guidelines version 5.2026 (January 23, 2026) recommend (category 2a) denosumab every 6 months, zoledronic acid once annually, or alendronate 70 mg once weekly when risk of fracture warrants treatment. Zoledronic acid increases BMD when administered every three months OR annually. There is no comparative evidence that demonstrates that more frequent dosing is more effective. One randomized, double-blind prospective study that compared denosumab compared to oral alendronate in 234 male patients undergoing ADT for prostate cancer found that denosumab was associated with a lower rate of new vertebral fractures; however, additional randomized clinical studies are warranted to establish the superiority of denosumab in this clinical setting.

- There is evidence to support the use of antiresorptive agents (bisphosphonates and denosumab) to maintain or improve bone mineral density and reduce the risk of fractures in postmenopausal women who are receiving adjuvant aromatase inhibitor therapy. Therefore, the NCCN Breast Cancer guidelines version 2.2026 (February 27, 2026) recommend bisphosphonate therapy or denosumab as acceptable to maintain or to improve bone mineral density and reduce risk of fracture in postmenopausal (natural or induced) patients receiving adjuvant aromatase inhibitor therapy.

- Giant Cell Tumor of Bone (GCTB):

  - Several Phase II trials have examined the efficacy of denosumab for treating primary and recurrent giant cell tumor of the bone (GCTB). In an open-label, Phase II study (N = 37), denosumab induced tumor response (defined as elimination of at least 90% of giant cells or no radiologic progression of the target lesion for up to 25 weeks) in 86% of patients with unresectable or recurrent GCTB.

  - The NCCN Bone Cancer guidelines version 2.2026 (December 19, 2025) recommend denosumab and/or serial embolization as preferred options for patients with lesions that are resectable with unacceptable morbidity and/or unresectable axial lesions. Following primary treatment, patients with stable or improved disease can be observed. Intralesional excision is recommended if the lesion becomes resectable. Patients with unresectable disease should be treated with denosumab, serial embolization, and/or radiation therapy (non-preferred). Guidelines recommend continuation of treatment until disease progression.

- Cancer-Related Bone Metastases:

  - Zoledronic acid (Zometa®) provides the best value for prevention of skeletal complications, decreasing the incidence and rate of skeletal events, and delaying skeletal events in women with breast cancer with bone metastases. The effectiveness of denosumab was evaluated in 7,201 patients with various advanced cancers including metastatic breast, prostate, and various other solid tumor cancers. There are four RCTs comparing denosumab (Xgeva) with zoledronic acid (Zometa) for the prevention of skeletal-related events (SRE) related to bone metastases.

    - SRE related to bone metastases were defined as pathological fractures, spinal cord compression, and bone complications that required radiation or surgery.

    - The pooled result demonstrated that denosumab (Xgeva) was significantly superior to zoledronic acid (Zometa) in delaying the time to the first skeletal related event (HR: 0.86; 95% CI: 0.80-0.93; $p < 0.01$), and time to first-and-subsequent SREs (RR: 0.87; 95% CI: 0.81-0.93, $p < 0.01$). However, no significant differences were observed between the two groups in regard to overall survival (OS) or time to disease progression. Additionally, denosumab (Xgeva) was associated with higher incidence of hypocalcemia and osteonecrosis of the jaw (ONJ) compared to zoledronic acid (Zometa). Further analysis is warranted for the comparison of denosumab (Xgeva) and zoledronic acid (Zometa) for advanced cancer with bone metastasis. The NCCN

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Guidelines for Breast Cancer version 2.2026 (February 27, 2026) recommend denosumab, zoledronic acid or pamidronate (all with calcium and vitamin D supplementation) should be given in addition to systemic therapy or endocrine therapy if bone metastasis is present, expected survival 3 months, and renal function is adequate (category 1).

- Denosumab (Xgeva) extends the time to first SRE by six months in patients with metastatic breast cancer. As a secondary endpoint the number of SREs was reported (number of SREs is the more commonly reported endpoint in efficacy trials). In the metastatic breast cancer trial, 30.7% of denosumab (Xgeva) subjects had an SRE compared with 36.5% of zoledronic acid (Zometa) subjects. This small difference of 5.8%, coupled with the dropout rate of 18% could have influenced the magnitude of difference between the products. It is unclear that that the treatment effect would be as robust if the subjects who left the trial early had completed the trial.

- The claim of superiority in other metastatic solid tumor cancers including prostate cancer is uncertain due to the small treatment effect and high drop-out rates. The drop-out rate (patients who did not complete the trial for reasons other than having an on-study SRE, death or disease progression) was greater than 22% in both trials. Therefore, it is uncertain that study groups remained adequately randomized and balanced by the end of the trials for a fair comparison. The NCCN Guidelines for Prostate Cancer version 5.2026 (January 23, 2026) state that in patients with castration resistant prostate cancer who have bone metastases, denosumab and zoledronic acid have been shown to prevent disease-related skeletal complications which include fracture, spinal cord compression, or the need for surgery or radiation therapy to bone.

- Prevention of SRE in Patients with Multiple Myeloma (MM)

  - A randomized, double blind, active controlled, noninferiority trial compared denosumab and zoledronic acid. It enrolled 1,718 patients with newly diagnosed MM. The study met its primary endpoint. Denosumab was found to be non-inferior to zoledronic acid in delaying the time to first SRE following randomization, with a median time of 22.8 months for denosumab and 24 months for zoledronic acid (HR = 0.98, 95% CI, 0.85-1.14). An SRE was defined as a pathologic fracture, radiation therapy to bone, surgery to bone, or spinal cord compression. The results for overall survival (OS) were comparable between Xgeva and zoledronic acid treatment groups with a hazard ratio of 0.90 (95% CI: 0.70, 1.16).

  - The NCCN Guidelines for Multiple Myeloma version 5.2026 (January 9, 2026) recommend bisphosphonates (category 1) or denosumab (category 2a) for all patients receiving therapy for symptomatic MM regardless of documented bone disease. With respect to duration of therapy, the guidelines recommend continuing bone-targeting treatment for up to 2 years and continuing beyond 2 years based on clinical judgement.

- Clinical Efficacy in Hypercalcemia of Malignancy (HCM):

  - HCM is a serious complication that is indicative of poor malignancy prognosis. It results from cancer-driven increases in bone resorption, and if untreated, can lead to renal failure, progressive mental impairment, coma, and death.

  - The classification of severity of hypercalcemia is as follows:

    - Mild hypercalcemia: albumin-corrected serum calcium (CSC) <12 mg/dL

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Moderate hypercalcemia: albumin CSC between 12 and 14 mg/dL
  - Severe hypercalcemia: albumin CSC >14 mg/dL

- Denosumab (Xgeva) acts by inhibiting the osteoclast-mediated bone resorption, which results in decrease in bone destruction and calcium release thus lowering calcium levels in HCM patients.
- The Endocrine Society Guidelines for the Treatment of Hypercalcemia of Malignancy in Adults (2023) recommends for adults with sever hypercalcemia a combination of calcitonin and an IV bisphosphonate or denosumab as initial treatment compared with only IV bisphosphonate or denosumab (conditional recommendation). In addition, for adults with moderate to severe hypercalcemia, they suggest treatment with denosumab over IV bisphosphonate (conditional recommendation) but this recommendation was based on a very low certainty of evidence demonstrating lower incidence of SREs and increased rates of hypocalcemia, both implying higher potency, with denosumab as compared with a BP but that has yet to be confirmed.
- An open-label, single-arm study evaluated 33 patients with advanced cancer and persistent hypercalcemia (CSC of 12.5mg/dL or higher) after recent bisphosphonate treatment. The primary endpoint was the proportion of patients with a response (defined as albumin CSC <11.5 mg/dL within 10 days after the first dose of Xgeva).
- The secondary endpoints included the proportion of patients who experienced a complete response (defined as CSC <10.8 mg/dL by day 10), time to response, and response duration (defined as the number of days from the first occurrence of CSC <11.5 mg/dL).
- Please refer to study results in Table 1 below:

Table 1: Efficacy of Xgeva in Patient with HCM Refractory to Bisphosphonate Therapy

Endpoint	N = 33	Proportion (%)
All Responders (CSC≤ 11.5 mg/dL) by day 10	21	63.6
All Responders by Day 57	23	69.7
Complete Responders (CSC≤ 10.8 mg/dL) by day 10	12	36.4
All Complete Responders by Day 57	21	63.6

References:

1. Prolia [prescribing information]. Amgen, Inc. May 2025.
2. Xgeva [prescribing information]. Amgen, Inc. May 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3. Forteo [prescribing information]. Indianapolis, IN: Eli Lilly; July 2024.
4. Tymlos [prescribing information]. Morristown, NJ: Alvogen; March 2025.
5. Evenity [prescribing information]. Waltham, MA: Radius Health; December 2019.
6. Bisphosphonates. Facts and Comparisons. 2022. Available from Wolters Kluwer Health, Inc.
7. FDA Approves Xgeva (denosumab) for Hypercalcemia of Malignancy Refractory to Bisphosphonate Therapy. http://www.drugs.com/newdrugs/fda-approves-xgeva-denosumab-hypercalcemia-malignancy-refractory-bisphosphonate-therapy-4117.html. Accessed December 3, 2025.
8. Camacho PM, Petak SM, Binkley N, et al. American Association of Clinical Endocrinologists/American College of Endocrinology Clinical Practice Guidelines for the Diagnosis and Treatment of Postmenopausal Osteoporosis – 2020 Update. Endocr Pract. 2020;26(Suppl 1):1-46. doi:10.4158/GL-2020-0524SUPPL
9. Lyu H, Jundi B, Xu C, et al. Comparison of Denosumab and Bisphosphonates in Patients With Osteoporosis: A Meta-Analysis of Randomized Controlled Trials. J Clin Endocrinol Metab. 2019;104(5):1753-1765. doi:10.1210/jc.2018-02236
10. Nakamura T, Matsumoto T, Sugimoto T, et al. Clinical Trials Express: fracture risk reduction with denosumab in Japanese postmenopausal women and men with osteoporosis: denosumab fracture intervention randomized placebo controlled trial (DIRECT). J Clin Endocrinol Metab. 2014;99(7):2599-2607. doi:10.1210/jc.2013-4175
11. Humphrey MB, Russell L, et al. 2022 American College of Rheumatology Guideline for the Prevention and Treatment of Glucocorticoid-Induced Osteoporosis. Arthritis Rheumatol. 2023 Dec;75(12):2088-2102. doi: 10.1002/art.42646. Epub 2023 Oct 16. PMID: 37845798.
12. Saag KG, Pannacciulli N, Geusens P, et al. Denosumab Versus Risedronate in Glucocorticoid-Induced Osteoporosis: Final Results of a Twenty-Four-Month Randomized, Double-Blind, Double-Dummy Trial. Arthritis Rheumatol. 2019;71(7):1174-1184. doi:10.1002/art.40874
13. NCCN Guidelines Version 2.2026. Bone Cancer. Published December 19, 2025.
14. NCCN Guidelines Version 5.2026. Prostate Cancer. Published January 23, 2026.
15. Doria C, Mosele GR, Solla F, Maestretti G, Balsano M, Scarpa RM. Treatment of osteoporosis secondary to hypogonadism in prostate cancer patients: a prospective randomized multicenter international study with denosumab vs. alendronate. Minerva Urol Nefrol. 2017;69(3):271-277. doi:10.23736/S0393-2249.16.02808-3
16. NCCN Guidelines Version 2.2026. Breast Cancer. Published February 27, 2026.
17. Raje N, Terpos E, Willenbacher W, et al. Denosumab versus zoledronic acid in bone disease treatment of newly diagnosed multiple myeloma: an international, double-blind, double-dummy, randomised, controlled, phase 3 study. Lancet Oncol. 2018;19(3):370-381. doi:10.1016/S1470-2045(18)30072-X
18. Jiang L, Cui X, Ma H, Tang X. Comparison of denosumab and zoledronic acid for the treatment of solid tumors and multiple myeloma with bone metastasis: a systematic review and meta-analysis based on randomized controlled trials. J Orthop Surg Res. 2021;16(1):400. Published 2021 Jun 22. doi:10.1186/s13018-021-02554-8
19. Stopeck AT, Lipton A, Body JJ, et al. Denosumab compared with zoledronic acid for the treatment of bone metastases in patients with advanced breast cancer: a randomized, double-blind study. J Clin Oncol. 2010;28(35):5132-5139. doi:10.1200/JCO.2010.29.7101
20. NCCN Guidelines Version 5.2026. Multiple Myeloma. Published January9, 2026.
21. ElHajj Fuleihan G, Clines GA, Hu MI, Marcocci C, Murad MH, Piggott T, et al. Treatment of hypercalcemia of malignancy in adults: an Endocrine Society clinical practice guideline. J Clin Endocrinol Metab. 2023;108:507528. doi:10.1210/clinem/dgac621
22. Hu MI, Glezerman IG, Leboulleux S, et al. Denosumab for treatment of hypercalcemia of malignancy. J Clin Endocrinol Metab. 2014;99(9):3144-3152. doi:10.1210/jc.2014-1001
23. Qaseem A, Hicks LA, Etxeandia-Ikobaltzeta I, Shamliyan T, Cooney TG; Clinical Guidelines Committee of the American College of Physicians; Cross JT Jr, Fitterman N, Lin JS, Maroto M, Obley AJ, Tice JA, Tufte JE. Pharmacologic Treatment of Primary Osteoporosis or Low Bone Mass to Prevent Fractures in Adults: A Living Clinical Guideline From the American College of Physicians. Ann Intern Med. 2023 Feb;176(2):224-238. doi: 10.7326/M22-1034. Epub 2023 Jan 3. Erratum in: Ann Intern Med. 2023 Jun;176(6):882-884. PMID: 36592456; PMCID: PMC10885682.
24. Jubbonti [prescribing information]. Sandoz, Inc. October 2025.
25. Wyost [prescribing information]. Sandoz, Inc. October 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

26. Shoback D, Rosen C, Black D et al. Pharmacological Management of Osteoporosis in Postmenopausal Women: An Endocrine Society Guideline Update, The Journal of Clinical Endocrinology & Metabolism, Volume 105, Issue 3, March 2020, dgaa048, https://doi.org/10.1210/clinem/dgaa048
27. Xbryk [prescribing information]. Samsung Bioepis Co, Ltd. October 2025.
28. Ospomyv [prescribing information]. Samsung Bioepis Co, Ltd. October 2025.
29. Osenvelt [prescribing information]. Incheon, Republic of Korea. Celltrion, Inc.; October 2025.
30. Stoboclo [prescribing information]. Incheon, Republic of Korea. Celltrion, Inc.; October 2025.
31. Bomyntra [prescribing information]: Lake Zurich, IL. Fresenius Kabi USA; October 2025.
32. Conexxence [prescribing information]: Lake Zurich, IL. Fresenius Kabi USA; October 2025.
33. Bilprevda [prescribing information]: Shanghai, China. Shanghai Henlius Biotech, Inc.; October 2025.
34. Bildyos [prescribing information]. Shanghai, China. Shanghai Henlius Biotech, Inc; October 2025.
35. Aukelso [prescribing information]. Bengaluru, India. Biocon Biologics; October 2025.
36. Bosaya [prescribing information]. Bengaluru, India. Biocon Biologics; October 2025.
37. Xtrenbo [prescribing information]. Budapest, Hungary. Gedeon Richter Plc; October 2025.
38. Enoby [prescribing information]. Budapest, Hungary. Gedeon Richter Plc; October 2025.
39. Jubereq [prescribing information]. Raleigh, NC. Accord BioPharma Inc; December 2025.
40. Osvyrti [prescribing information]. Raleigh, NC. Accord BioPharma Inc; December 2025.
41. Oziltus [prescribing information]. Piscataway, NJ. Amneal Pharmaceuticals LLC; December 2025.
42. Boncresa [prescribing information]. Piscataway, NJ. Amneal Pharmaceuticals LLC; December 2025.
43. Ponlimsi [prescribing information]. Parsippany, NJ. Teva Pharmaceuticals, Inc.; April 2026.

Policy History		
#	Date	Change Description
5.0	Effective Date: 06/22/2026	UM medical management system update for MAPPO and BCNA for Enoby and Xtrenbo
4.9	Effective Date: 06/11/2026	Added Ponlimsi to the policy.
4.8	Effective Date: 05/11/2026	UM medical management system update for MAPPO and BCNA for Aukelso and Bosaya
4.7	Effective Date: 04/27/2026	UM medical management system update for BCBS and BCN for Ponlimsi
4.6	Effective Date: 02/12/2026	Added denosumab-desu products Jubereq and Osvyrti, and denosumab-mobz products Boncresa and Oziltus to the policy.
4.5	Effective Date: 01/07/2026	UM medical management system update for BCBS and BCN for Oziltus and Boncresa

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4.4	Effective Date: 01/02/2026	UM medical management system update for MAPPO and BCNA for Bildyos and Bilprevda
4.3	Effective Date: 12/15/2025	UM medical management system update for BCBS and BCN for Jubereq and Osvyrti
4.2	Effective Date: 12/04/2025	Added denosumab-kvqq products Aukelso and Bosaya, added denosumab-qbde products Enoby and Xtenbo, added unbranded Denosumab-bmwo products, and added unbranded Denosumab-bbdz products
4.1	Effective Date: 12/01/2025	UM medical management system update for MAPPO and BCNA for Xbryk, Bomyntra, Xgeva, and Wyost
4.0	Effective Date: 10/20/2025	UM medical management system update for BCBS and BCN for Enoby and Xtrenbo
3.9	Effective Date: 10/09/2025	Added denosumab-nxxp products Bildyos and Bilprevda to the policy.
3.8	Effective Date: 10/01/2025	UM medical management system update for MAPPO and BCNA for Conexxence, Denosumab-bnht, Ospomyv, and Denosumab-dssb
3.7	Effective Date: 09/29/2025	UM medical management system update for BCBS and BCN for Aukelso and Bosaya
3.6	Effective Date: 09/15/2025	UM medical management system update for BCBS and BCN for Bildyos and Bilprevda
3.5	Effective Date: 06/05/2025	Informational update to add Bomyntra, Conexxence and unbranded denosumab-bnht products to the policy
3.4	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Stoboclo
3.3	Effective Date: 04/11/2025	UM medical management system update for BCBS and BCN for Bomyntra, Conexxence, and Denosumab-bnht
3.2	Effective Date: 04/10/2025	Added Xbryk, Ospomyv, Stoboclo, Osenvelt, and Denousmab-dssb to the policy Removed specific timeline for trial of bisphosphonates and defined what would be considered a failure (such as reduction of T-score or fracture). Updated NCCN Guidelines
3.1	Effective Date: 03/20/2025	UM medical management system update for BCBS and BCN for Osenvelt
3.0	Effective Date: 03/13/2025	UM medical management system update for BCBS and BCN for Denosumab-dssb, Denosumab-bmwo, and Stoboclo
2.9	Effective Date: 02/28/2025	UM medical management system update for BCBS and BCN for Xbryk and Ospomyv
2.8	Effective Date: 11/03/2024	UM medical management system update for MAPPO and BCNA for Jubbonti
2.7	Effective Date: 04/11/2024	Updated to include Jubbonti and Wyost

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.6	Effective Date: 03/21/2024	UM medical management system update for BCBS and BCN for Denosumab-bbdz, Wyost, and Jubbonti
2.5	Effective Date: 04/06/2023	Updated policy to clarify duration of initial authorization period for Prolia and Xgeva
2.4	Effective Date: 10/06/2022	Shortened duration of bisphosphonate trial to 12 months for osteoporosis indication for Prolia; removed requirement for calcium/vitamin D supplementation for all indications; will not allow for combination therapy with bisphosphonates in addition to anabolic therapies
2.3	Effective Date: 10/07/2021	Annual Review of Medical Policy
2.2	Effective Date: 10/08/2020	Annual Review
2.1	Effective Date: 11/07/2019	Policy update for: trial and failure of oral and IV bisphosphonates, trial and failure of preferred products, combination therapy for osteoporosis diagnosis
2.0	Effective Date: 08/15/2019	Policy update for Xgeva indications of multiple myeloma and solid tumors based on NCCN guidelines
1.9	Effective Date: 08/09/2018	Policy update added new Xgeva indication: multiple myeloma and new Prolia indication: glucocorticoid-induced osteoporosis
1.8	Effective Date: 05/03/2018	Annual Review of Medical Policy
1.7	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Prolia and Xgeva
1.6	Effective Date: 05/04/2017	Changes: Annual Review/Medicare Disclaimer added
1.5	Effective Date: 11/10/2016	Annual review; No changes to criteria, document template updated.
1.4	Effective Date: 05/07/2015	Policy update added new indication: hypercalcemia of malignancy (HCM)
1.3	Effective Date: 08/14/2014	Criteria update to treatment of osteoporosis and including continuation of therapy
1.2	Effective Date: 05/02/2013	Criteria update
1.1	Effective Date: 01/22/2013	UM medical management system update for Prolia and Xgeva
1.0	Effective Date: 11/08/2012	New Policy. UM medical management system update for BCN for Prolia and Xgeva

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Doruxapapogene ralaplasmid injection

HCPCS: J3590

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- RRP is a rare disorder in which small papillomas form in the respiratory tract, most frequently in the larynx and vocal cords, although oral, tracheal and bronchial involvement is also possible
- In rare cases, papillomas may form in the lungs
- The condition is caused by HPV infection with subtypes 6 and 11 accounting for more than 90% of cases of RRP
- RRP can be either juvenile-onset or adult-onset
    - Juvenile-onset typically develops before the age of 12 and tends to be more aggressive, and with more recurrences, but improves later in childhood. It is most often diagnosed between the ages of 2 and 4
    - Adult-onset RRP can also be aggressive, although severe disease is less common in the adult population. Patients with adult-onset disease typically present in their twenties or thirties, with a "second peak" around age 60
- Symptoms can range from mild hoarseness due to vocal cord involvement to stridor and dyspnea when the papillomas significantly compromise the respiratory tract
- Although the disease course varies from patient to patient, patients with severe progressive disease can eventually develop life-threatening acute respiratory distress, pneumonia, bronchiectasis, and pulmonary failure
- Approximately 1% of cases transform into squamous cell carcinoma
- In the United States, prior to the availability of HPV vaccines, the incidence of RRP was estimated at about 2 per 100,000 adults and 4 per 100,000 children with approximately 1,000 new pediatric cases each year, or a rate of 0.5 to 0.7 new cases per 100,000
- Now that HPV vaccines are available, the incidence is declining
- The International Pediatric Otolaryngology Group (IPOG) published juvenile-onset recurrent respiratory papillomatosis consensus recommendations in 2020

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- These recommendations state treatment is directed toward removing papillomas, decreasing the spread of disease, creating a safe and patent airway, preserving nearby anatomical structures, improving voice quality if necessary, and increasing the time between surgical procedures

- Specific therapeutic procedures and interventions may vary, depending upon numerous factors, such as frequency of disease recurrences; specific location and spread of the disease; papilloma size; the presence or absence of certain symptoms; an individual's age and general health; and/or other elements

- The mainstay of treatment is surgical removal of papillomas

- The recurrence of papillomas is unpredictable

- Some individuals may require surgery every few weeks while others may only require surgery twice a year or only a few times during their life

- Surgical techniques used to treat individuals with RRP include "cold" excision, microdebridement, various pulsed dye lasers, or carbon dioxide lasers

References:

1. PR Newswire. Inovio announces U.S. FDA breakthrough therapy designation granted for INO-3107 for the treatment of recurrent respiratory papillomatosis. 2023 Sept 7. Available at: https://www.prnewswire.com/news-releases/inovio-announces-us-fda-breakthrough-therapy-designation-granted-for-ino-3107-for-the-treatment-of-recurrent-respiratory-papillomatosis-301920321.html. Accessed on June 10, 2026.
2. PR Newswire. FDA accepts for review Inovio's BLA for INO-3107 for the treatment of adults with recurrent respiratory papillomatosis (RRP). 2025 Dec 29. Available at: https://www.prnewswire.com/news-releases/fda-accepts-for-review-inovios-bla-for-ino-3107-for-the-treatment-of-adults-with-recurrent-respiratory-papillomatosis-rrp-302649910.html. Accessed on June 10, 2026.
3. Clinicaltrials.gov. INO-3107 with electroporation (EP) in participants with HPV-6- and/or HPV-11-associated recurrent respiratory papillomatosis (RRP) (NCT04398433). Available at: https://clinicaltrials.gov/study/NCT04398433. Accessed on June 10, 2026.
4. Morrow MP, Gillespie E, Sylvester A, et al. DNA immunotherapy for recurrent respiratory papillomatosis (RRP): phase 1/2 study assessing efficacy, safety, and immunogenicity of INO-3107. Nat Commun. 2025 Feb 12; 16: 1518.
5. Amin MR, Belafsky PC, Best SR, et al. DNA immunotherapy (INO-3107) results in long-term surgery reduction in RRP. Laryngoscope. 2025 Nov; 135 (11): 4287 – 95.
6. National Organization of Rare Disorders. Recurrent respiratory papillomatosis. 2023 June 8. Available at: https://rarediseases.org/rare-diseases/recurrent-respiratory-papillomatosis/. Accessed on June 15, 2026.
7. Lawlor C, Balakrishnan K, Bottero S, et al. International Pediatric Otolaryngology Group (IPOG): juvenile-onset recurrent respiratory papillomatosis consensus recommendations. Int J Pediatr Otorhinolaryngol. 2020 Jan; 128: 109697.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2026</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Duchenne Muscular Dystrophy Class Policy

Amondys 45™ (casimersen) **- HCPCS: J1426**
Exondys 51® (eteplirsen) **- HCPCS: J1428**
Viltepso™ (viltolarsen) **- HCPCS: J1427**
Vyondys 53™ (golodirsen) **- HCPCS: J1429**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: N/A

Additional BCBSM Part B Criteria: Yes

Background Information:

- Duchenne muscular dystrophy (DMD) is a rare, life-limiting, progressive childhood disease that affects 1 in 3,500 – 5,000 live male births. It is characterized by progressive muscle weakness and wasting due to the absence of dystrophin protein that causes degeneration of skeletal and cardiac muscle. Affected individuals are unable to run and jump properly due to proximal muscle weakness of the leg and pelvic muscles. DMD occurs as a result of mutations in the dystrophin gene, located on the X-chromosome, which normally functions to generate dystrophin, a structural protein of muscle cells. Mutations in the dystrophin gene lead to an absence of or a defect in dystrophin protein resulting in the progressive symptoms seen in DMD patients.

- At present, there is no disease-modifying therapy for DMD available for the majority of boys. In addition to surgical and physical therapeutic measures, glucocorticosteroids are used in DMD. The 2018 treatment guidelines for DMD support the use of glucocorticosteroids as they are the only medication currently available to slow the decline in muscle strength and function which in turn reduces the risk of scoliosis and stabilizes pulmonary function. Trials show muscle strength is improved when treated with prednisone at a dose of 0.75 mg/kg daily for up to 6 months. The goal of glucocorticoids in an ambulatory patient is the preservation of ambulation and the minimization of later cardiac, respiratory, and orthopedic complications. Continued treatment after the patient becomes non-ambulatory has shown reduction in the risk of progressive scoliosis and stabilization of pulmonary function tests. However, it is important to note that glucocorticosteroids are not able to induce the production of dystrophin-like proteins and therefore do not alter or impact the underlying cause of DMD.

- Exondys 51 received FDA approval on September 19, 2016 for the treatment of Duchenne muscular dystrophy (DMD) in patients who have a confirmed mutation of the dystrophin gene that is amenable to exon 51 skipping. Vyondys 53 was FDA approved on December 12, 2019 and Viltepso was FDA approved on August 12, 2020 for the treatment of Duchenne muscular dystrophy (DMD) in patients who have a confirmed mutation of the dystrophin gene that is amenable to exon 53 skipping. Amondys 45 received FDA approval February 25, 2021 for the treatment of Duchenne muscular dystrophy in patients who have a confirmed mutation of the dystrophin gene that is amenable to exon 45 skipping. The FDA labeled indications includes a statement that continued approval is contingent upon verification of a clinical benefit in ongoing confirmatory clinical trials. Prior to FDA approval, the Peripheral and Central Nervous System Drugs Advisory Committee of the FDA held a meeting and voted against approval of eteplirsen as treatment for DMD due to lack of substantial evidence of effectiveness.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Exondys 51, Vyondys 53, Viltepso, and Amondys 45 were approved under the accelerated approval pathway using a surrogate endpoint of increase in dystrophin in skeletal muscle observed in some patients. There is no evidence the small observed increase in dystrophin results in a clinically meaning benefit. Therefore, establishment of a clinical benefit is needed in on-going clinical trials.

- There is an ongoing phase III confirmatory trial (PROMOVI) evaluating the efficacy and safety of Exondys 51 across two groups of patients (treated and untreated) with genotypically confirmed DMD. Patients in the treated group are amenable to exon 51 skipping and those in the untreated group are not amenable to exon 51 skipping. The PROMOVI trial has a target enrollment of 160 patients. Subjects will be administered 30 mg/kg/week for 96 weeks. Objectives include changes in the 6 minute walk test (6MWT), dystrophin and pulmonary function. The estimated completion date is January 2019.

- There is an ongoing phase III confirmatory trial (ESSENCE) evaluating the efficacy and safety of Vyondys 53 and Amondys 45 versus placebo with genotypically confirmed DMD amenable to either exon 53 skipping or exon 45 skipping. The ESSENCE trial has a target enrollment of 211 patients. Subjects will be administered 30 mg/kg/week or Vyondys 53 or Amondys 45 depending on their genetic mutation for 96 weeks. Objectives include changes in 6MWT, dystrophin and pulmonary function. The estimated completion date is sometime in 2024.

- There is an ongoing phase III confirmatory trial (RACER53) evaluating the safety and efficacy of Viltepso versus placebo with genotypically confirmed DMD amenable to exon 53 skipping. The RACER53 trial has a target enrollment of 74 patients. Subjects will be administered Viltepso 80 mg/kg/week or placebo for up to 48 weeks. Objectives include changes in time to stand, 6MWT, time to run/walk 10 meters, and time to climb 4 steps.

- Based on the current information available, there is insufficient evidence that Exondys 51, Vyondys 53, Viltepso, and Amondys 45 provide a clinical benefit in patients with DMD. Therefore, demonstration of a clinical benefit is warranted in on-going clinical trials.

References:

1. Birnkrant DJ, Bushby K, Bann CM, et al. Diagnosis and management of Duchenne's muscular dystrophy, part 1: diagnosis, and neuromuscular, rehabilitation, endocrine, and gastrointestinal and nutritional management. Lancet Neurol. 2018 March; 17 (3): 251 - 67.
2. Bushby K, Finkel R, Birnkrant D, et al. Diagnosis and management of duchenne's muscular dystrophy, part 2: respiratory, cardiac, bone health, and orthopaedic management. Lancet Neurol. 2018 April; 17 (4): 347-61.
3. Falzarano M, Scotton C, Passarelli C, et al. Duchenne muscular dystrophy: f rom diagnosis to therapy. Molecules. 2015 Oct 7; 20 (10): 18168 - 84.
4. Blat Y & Blat S. Drug discovery of therapies for duchenne muscular dystrophy. J Biomol Screen. 2015 April: 1 - 10.
5. Voit T, Topaloglu H, Straub V, et al. Safety and efficacy of drisapersen for the treatment of duchenne muscular dystrophy (DEMAND II): an exploratory, randomized placebo-controlled phase 2 study. Lancet Neurol. 2014; 13: 987 - 96.
6. Mendell JR, Rodino-Klapac L, Sahenk Z, et al. Eteplirsen for the treatment of duchenne muscular dystrophy. Ann Neurol. 2013; 74: 637 - 47.
7. Mendell JR, Goemans N, Lowes L, et al. Longitudinal effect of eteplirsen versus historical control on ambulation in duchenne muscular dystrophy. Ann Neurol. 2016; 79 (2): 257 - 71.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. BioMarin Completes Rolling NDA Submission to FDA for Drisapersen for Duchenne Muscular Dystrophy. http://www.drugs.com/nda/drisapersen_150427.html.
9. BioMarin Pipeline: Clinical Trials – Duchenne's Muscular dystrophy. Cited on October 2nd, 2015. https://www.bmrn.com/pipeline/clinical-trials/DuchenneMuscularDystrophy.php.
10. Mirski KT & Crawford TO. Motor and cognitive delay in duchenne's muscular dystrophy implication for early diagnosis. J Pediatr. 2014; 165: 1008.
11. Emery AE. The muscular dystrophies. Lancet. 2002; 359: 687 - 96.
12. McDonald CM, Henricson EK, Abresch RT, et al. The 6-minute walk test and other endpoints in Duchenne muscular dystrophy: a longitudinal natural history observations over 48 weeks from a multicenter study. Muscle Nerve. 2013; 48: 343 - 56.
13. McDonald CM, Henricson EK, Abresch RT, et al. The 6-minute walk test and other clinical endpoints in duchenne muscular dystrophy: reliability, concurrent validity and minimal clinically important differences from a multicenter study. Muscle Nerve. 2013; 48: 357 - 68.
14. National Human Genome Research Institute: Learning About Duchenne Muscular Dystrophy. April 2013. Cited on October 10th, 2015. https://www.genome.gov/19518854.
15. New data on first-class Duchenne Muscular Dystrophy tx. October 16th, 2015. Cited on October 31st, 2015. http://www.empr.com/drugs-in-the-pipeline/translarna-ataluren-nonsense-mutation-duchenne-muscular-dystrophy-phase-3/article/447532/
16. Exondys 51 [package insert]. Cambridge, MA: Sarepta Therapeutics, Inc; December 2024.
17. Highmark Preliminary Medication Review: New Molecular Entity – Musculoskeletal Agent – eteplirsen (Exondys 51™) [Sarepta Therapeutics, Inc.] October 2016
18. Deconinck N & Dan Bernard. Pathophysiology of duchenne muscular dystrophy: current hypothesis. Pediatr Neurol. 2007 Jan; 36 (1): 1 - 7.
19. Express Scripts® Drug Evaluation: Exondys 51 (eteplirsen injection for intravenous use – Sarepta Therapeutics, Inc.) September 2016.
20. FDA rejects BioMarin Pharmaceutical's Duchenne Muscular Dystrophy Drug. Tech Times. January 15th, 2016 [cited October 1, 2016].
21. US National Institutes of Health. In: ClinicalTrials.gov [Internet]. Bethesda (MD): National Library of Medicine (US). 2000- [cited 2016 Oct 5]. Available from: https://clinicaltrials.gov/ct2/results?term=eteplirsen&search=Search
22. Eteplirsen. Food and Drug Administration (FDA) Briefing Document: Peripheral and Central Nervous System Drugs Advisory Committee Meeting. January 22, 2016a. Available at: http://www.fda.gov/downloads/advisorycommittees/committeesmeetingmaterials/drugs/peripheralandcentralnervoussystemdrugsadvisorycommittee/ucm481911.pdf. Accessed on October 20th, 2016.
23. Exondys 51™ (eteplirsen) Injection, For Intravenous Use. Exon Skipping Phosphorodiamidate Morpholino Oligomer (PMO). Formulary Submission Dossier. Sarepta Therpaeutics, Inc.
24. Kinane TB, Mayer OH, Duda PW, et al. Long-term pulmonary function in duchenne muscular dystrophy: comparison of eteplirsen-treated patients to natural history. J Neuromuscul Dis. 2017 Dec 20. Accessed January 2018.
25. Randeree L & Eslick GD. Eteplirsen for paediatric patients with Duchenne muscular dystrophy: a pooled-analysis. J Clin Neurosci. 2017 Dec 15. pii: S0967-5868(17)31142-6. Accessed January 2018.
26. Eteplirsen clinical resentation. Sarepta Therapeutics, Inc. January 2018.
27. Vyondys 53 [prescribing information]. Cambridge, MA: Sarepta Therapeutics, Inc.; June 2024.
28. Mendell JR, Shilling C, Leslie ND, et al. Evidence-based path to newborn screening for Duchenne muscular dystrophy. Ann Neurol. 2012; 71 (3): 304 – 13.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

29. Hoffman EP, Fischbeck KH, Brown RH, et al. Characterization of dystrophin in muscle-biopsy specimens from patients with Duchenne's or Becker's muscular dystrophy. N Engl J Med. 1988; 318 (21): 1363 – 8.
30. Koeks Z, Bladen CL, Salgado D, et al. Clinical outcomes in Duchenne muscular dystrophy: a study of 5345 patients from the TREAT-NMD DMD global database. J Neuromuscul Dis. 2017; 4 (4): 293 – 306.
31. Humbertclaude V, Hamroun D, Bezzou K, et al. Motor and respiratory heterogeneity in Duchenee patients: implication for clinical trials. Eur J Paediatr Neurol. 2012; 16 (2): 149 – 60.
32. Gloss D, Moxley RT, Ashwal S, Oskoui M. Practice guideline update summary: corticosteroid treatment of Duchenne muscular dystrophy: report of the guideline development subcommittee of the American Academy of Neurology. Neurology. 2018; 17 (4): 347 – 61.
33. Van Putten M, Hulsker M, Young C, et al. Low dystrophin levels increase survival and improve muscle pathology and function in dystrophin/utrophin double-knockout mice. FASBE J. 2013; 27 (6): 2484 – 95.
34. Waldrop MA, Gumienny F, EL Husayni S, et al. Low-level dystrophin expression attenuating the dystrophinopathy phenotype. Neuromuscular Disord. 2018; 28 (2): 116 – 21.
35. Muntoni F, Frank DE, Morgan J, et al. Goldirsen induces exon skipping leading to sarcolemmal dystophin expression in patient with genetic mutations amenable to exon 53 skipping. Neuromuscular Disord. 2018; 28 (Supp 1): S5.
36. Birnkrant DJ, Bushby K, Bann CM, et al. Diagnosis and management of duchenne muscular rehabilitation, endocrine, and gastrointestinal and nutritional management. Lancet Neuro. 2018 Mar; 17 (3): 251 – 67.
37. Clinicaltrials.gov. A 2-part, randomized, double-blind, placebo-controlled, dose-titration, safety, tolerability, and pharmacokinetics study (Part 1) followed by an open-label efficacy and safety evaluation (part 2) of SRP-4053 in patients with duchenne muscular dystrophy amenable to exon 53 skipping (NCT02310906). Available at: https://clinicaltrials.gov/ct2/show/NCT02310906. Accessed on December 16, 2019.
38. Clinicaltrials.gov. Study of SRP-4045 and SRP-4053 in DMD patients (ESSENCE) (NCT02500381). Available at: https://clinicaltrials.gov/ct2/show/NCT02500381?term=golodirsen&draw=2&rank=4. Accessed on January 2, 2020.
39. Viltepso [prescribing information]. Paramus, NJ: NS Pharma, Inc.; March 2021.
40. Clinicaltrials.gov. A phase 3 randomized, double-blind, placebo-controlled, multi-center study to assess the efficacy and safety of viltolarsen in ambulant boys with duchenne muscular dystrophy (DMD) (NCT04060199). Available at: https://clinicaltrials.gov/ct2/show/NCT04060199?term=NCT04060199&draw=2&rank=1. Accessed on August 13, 2020.
41. Clinicaltrials.gov. Safety and dose finding study of NS-065/NCNP-01 in boys with duchenne muscular dystrophy (DMD) (NCT02740972). Available at: https://clinicaltrials.gov/ct2/show/NCT02740972?term=NS- 065&cond=Duchenne+Muscular+Dystrophy&rank=3. Accessed on August 13, 2020.
42. Clinicaltrials.gov. Extension study of NS-065/NCNP-01 in boys with duchenne muscular dystrophy (DMD) (NCT03167255). Available at: https://clinicaltrials.gov/ct2/show/NCT03167255?term=NS-065&cond=Duchenne+Muscular+Dystrophy&draw=2&rank=1. Accessed on August 13, 2020.
43. Amondys 45 [prescribing information]. Cambridge, MA: Sarepta Therapeutics, Inc.; March 2023.
44. Clinicaltrials.gov. Study of SRP-4045 and SRP-4053 in DMD patients (ESSENCE) (NCT02500381). Available at: https://clinicaltrials.gov/ct2/show/NCT02500381?term=NCT02500381&draw=2&rank=1. Accessed on February 26, 2021.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
2.8	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made
2.7	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.5	Effective Date: 04/06/2023	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.
2.3	Effective Date: 04/26/2021	UM medical management system update for BCBSM for Amondys 45
2.2	Effective Date: 04/08/2021	Added Amondys 45
2.1	Effective Date: 03/22/2021	UM medical management system update for BCN for Amondys 45
2.0	Effective Date: 10/08/2020	Added Viltepso
1.9	Effective Date: 10/01/2020	UM medical management system update for BCBSM for Viltepso
1.8	Effective Date: 09/01/2020	UM medical management system update for BCN for Viltepso
1.7	Effective Date: 06/01/2020	UM medical management system update for MAPPO and BCNA for Vyondys 53 and Exondys 51
1.6	Effective Date: 02/06/2020	Added Vyondys 53 and copied over all updated information from the Exondys 51 policy to the DMD policy
1.5	Effective Date: 02/01/2020	UM medical management system update for BCBS for Vyondys 53
1.4	Effective Date: 01/02/2020	UM medical management system update for BCN for Vyondys 53

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.3	Effective Date: 05/09/2019	Annual review of criteria was performed, no changes were made.
1.2	Effective Date: 05/03/2018	Annual Drug Review; new publications and long-term continuation data reviewed/added
1.1	Effective Date: 04/01/2017	PA added to BCBS for Exondys 51
1.0	Effective Date: 02/09/2017	New Coverage Guidelines. PA added to BCN for Exondys 51

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Eculizumab Products

Bkemv™ (eculizumab-aeeb) **- HCPCS: Q5139**
Epysqli® (eculizumab-aagh) **- HCPCS: Q5151**
Soliris® (eculizumab) **- HCPCS: J1300**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Vyvgart is a neonatal Fc receptor blocker indicated for the treatment of adult patients with generalized myasthenia gravis (gMG).

- Vyvgart Hytrulo is a combination of efgartigimod alfa, a neonatal Fc receptor blocker, and hyaluronidase, an endoglycosidase, indicated for the treatment of adult patients with gMG and chronic inflammatory demyelinating polyneuropathy (CIDP).

- Myasthenia Gravis

  - Myasthenia gravis (MG) is a rare autoimmune disease resulting from an immunologic attack of AChR, muscle-specific tyrosine kinase (MuSK), and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular, or class I, MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Depending on the severity of muscle weakness, at this point MG is classified as either class II for mild, class III for moderate, and class IV for severe presentation. Those with class V disease require intubation due to profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Vyvgart and Vyvgart Hytrulo have only been studied in patients with class II – IV disease. There is no safety and efficacy data to support use of either drug in patients with class I or V disease at this time.

  - The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. The 2021 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on Class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Vyvgart has not been studied in patients who have undergone thymectomy within 3 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Vyvgart or Vyvgart Hytrulo in these patient populations at this time.

- Safety and efficacy of Vyvgart were established in the ADAPT trial, a randomized, double-blind, placebo-controlled, phase 3 trial of 167 patients with generalized myasthenia gravis regardless of anti-acetylcholine receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. They also had a Myasthenia Gravis Activities of Daily Living (MG-ADL) score of at least 5 indicated they had greater than 50% of symptoms that were non-ocular. Patients were randomly assigned to 10

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

mg/kg efgartigimod or placebo administered as four infusions per cycle with one infusion given per week repeated as needed depending on clinical response no sooner than 8 weeks after initiation of the previous cycle. The primary endpoint was proportion of acetylcholine receptor antibody-positive patients who were MG-ADL responders defined as a greater than or equal to 2-point MG-ADL improvement sustained for greater than or equal to 4 weeks in the first treatment cycle. The trial met its primary endpoint with 67.7% of efgartigimod-treated acetylcholine receptor-antibody positive gMG patients being responders on the MG-ADL score compared to 29.7% of placebo patients which was statistically significant (p-value < 0.0001).

- Safety and efficacy of Vyvgart Hytrulo were established in the ADAPT-SC trial, a randomized, open-label, parallel-group, phase 3 trial of 110 patients with generalized myasthenia gravis regardless of anti-acetylcholine receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. Patients were randomly assigned to 10 mg/kg Vyvgart or 1,008 mg/11,200 units Vyvgart Hytrulo. The primary endpoint was noninferiority of Vyvgart Hytrulo to Vyvgart. Noninferiority was met (p-value < 0.0001) and Vyvgart Hytrulo demonstrated a mean total IgG reduction of 66.4% from baseline at day 29 compared to 62.2% with Vyvgart. Additional key secondary endpoints were met, which were consistent with efficacy measures from the ADAPT study identifying the correlation between total IgG reduction and clinical benefit in gMG.

- Safety and efficacy of Vyvgart and Vyvgart Hytrulo for seronegative disease were established in the ADAPT SERON trial, a double-blind, placebo-controlled study, phase 3 trial of 119 patients with generalized myasthenia gravis regardless of receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. Patients were randomly assigned to 10 mg/kg Vyvgart or placebo. The primary endpoint was the comparison of the mean change from baseline at week 4 between treatment groups in the MG-ADL total score. A statistically significant difference favoring Vyvgart was observed (LS mean difference (95% CI) = - 1.46 (-2.50, -0.41); p-value = 0.0068).

- Standard therapies recommended by the 2021 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, rituximab, Soliris®, IVIG, and PLEX.

    - Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

    - Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

    - Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no more frequently than every 3 to 6 months. Once the patient experiences treatment effect doses should be maintained for six months to two years of therapy and then tapered to the lowest effective dose.

    - Oral methotrexate may be considered as a steroid-sparing agent in patients with generalized MG who have not tolerated or responded to steroid-sparing agents that are better supported by randomized clinical trial data.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX. Patients were excluded from the ADAPT trial if they had received IVIG or undergone PLEX 1 month prior to the start of the study.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. Treatment guidelines state rituximab should be considered as an early therapeutic option in patients with MuSK antibody positive MG who have an unsatisfactory response to initial immunotherapy. The efficacy of rituximab in refractory AChR antibody positives MG is uncertain. It is an option if patients fail or do not tolerate other immunosuppressive agents. Patients were excluded from the ADAPT trial is they had used rituximab 6 months prior to the start of Vyvgart therapy.

- Soliris should be considered in the treatment of severe, refractory, AChR antibody positive generalized MG. Until further data become available to allow comparisons of cost and efficacy with other treatments guidelines state, Soliris should be considered after trials of other immunotherapies have been unsuccessful in meeting treatment goals. Pateints were excluded from the ADAPT trial is they had received Soliris 6 months prior to the start of Vyvgart therapy.

– Vyvgart and Vyvgart Hytrulo have not been studied and there is no data to support use in combination with other medications used to treat MG, such as, Soliris.

– Chronic Inflammatory Demyelinating Polyneuropathy

- CIDP is an acquired, immune-mediated neuropathy affecting peripheral nerves and nerve roots. It is characterized by a relapsing-remitting or progressive course, glucocorticoid responsiveness, and electrodiagnostic or pathologic features of demyelination. In its classic form, CIDP manifests as a symmetric, motor-predominant neuropathy that results in both proximal and distal muscle weakness. Recognized variants include asymmetric and/or sensory-predominant forms. All share the common pathophysiology of inflammatory demyelination. Although relatively rare, CIDP is important to recognize among the varied causes of polyneuropathy as it is treatable with immunomodulatory therapies.

- There is a temporal continuum between acute inflammatory demyelinating polyneuropathy (AIDP), which is the demyelinating form of Guillain-Barré syndrome (GBS), and CIDP. The time course of progression and the occurrence of relapses are used to distinguish between these entities. GBS commonly reaches its nadir within three to four weeks but does not progress beyond eight weeks. CIDP continues to progress or has relapses for greater than eight weeks. GBS is typically monophasic, but up to two relapses in the first eight weeks from onset can occur. Three or more relapses in the first eight weeks is highly suggestive of acute CIDP. Relapses closer to the eight week time period is more suggestive of CIDP.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The diagnosis of CIDP should be considered in patients presenting with a progressive or relapsing-remitting polyneuropathy involving both motor and sensory axons along with areflexia, particularly when weakness predominates and affects proximal and distal muscles simultaneously and symmetrically. While the initial suspicion for CIDP is clinical, the diagnosis is confirmed by evidence of peripheral nerve demyelination, which must be demonstrated by electrodiagnostic findings or rarely by nerve biopsy, and exclusion of other disorders that may cause or mimic CIDP.
    - Electromyography (EMG) should be performed in all patients with suspected CIDP and is a critical component of the evaluation. The characteristic electrophysiologic features of a definitive CIDP diagnosis per the EFNS/PNS guidelines are those of peripheral nerve demyelination which include at least one of the following:
        - Greater than or equal to 50% prolongation of motor distal latency above the upper limit of normal in two nerves
        - Greater than or equal to 30% reduction of motor conduction velocity below the lower limit of normal in two nerves
        - Greater than or equal to 20% prolongation of F-wave latency above the upper limit of normal in two nerves or greater than 50% if the amplitude of the distal negative peak compound motor action potention (CMAP) is less than 80% of the lower limit of normal
        - Absence of F waves in two nerves, if these nerves have amplitudes of distal negative peak CMAPs greater than or equal to 20% of the lower limit of normal, plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
        - Partial motor conduction block, defined by a greater than 50% amplitude reduction of the proximal negative peak CMAP relative to distal, if distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal, in two nerves, or in one nerve plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
        - Abnormal temporal dispersion, defined by a greater than 30% duration increase between the proximal and distal negative peak CMAP in at least two nerves
        - Distal CMAP duration (interval between onset of the first negative peak and return to baseline of the last negative peak) increase in at least one nerve (median greater than or equal to 6.6 ms, ulnar greater than or equal to 6.7 ms, peroneal greater than or equal to 7.6 ms, tibial greater than or equal to 8.8 ms) plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
    - The EFNS/PNS guidelines state probable CIDP is considered when patients have greater than or equal to 30% amplitude reduction of the proximal negative peak CMAP relative to the distal, excluding the posterior tibial nerve, if the distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal in two nerves or in one nerve plus at least one other demyelinating parameter meeting any of the definite criteria in at least one other nerve.
    - Cerebrospinal fluid (CSF) analysis is recommended in patients with probable CIDP and particularly for patients in whom the clinical and electrophysiologic findings are inconclusive. Albuminocytologic dissociation is a hallmark of CIDP and represents supportive evidence in the EFNS/PNS

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

diagnostic criteria for probable CIDP.

- Magnetic resonance imaging (MRI) with gadolinium of the spine (including spinal roots, cauda equina), brachial plexus, lumbosacral plexus, and other nerve regions can be used to look for enlarged or enhancing nerves. MRI abnormalities are useful as supportive criteria for probable CIDP in the EFNS/PNS guideline.

- Early administration of effective treatment is important in CIDP. The goal is to stop the immune attack against the myelin sheath of peripheral nerves so that secondary axonal degeneration is minimized. This can improve symptoms and function and can prevent or minimize long-term disability. The treatment approach depends on the severity and course of disease. While some patients with CIDP have such mild disease with minimal impact on function and quality of life that treatment is not required, most patients are significantly impaired and need treatment. Multiple medication trials may be required to optimize treatment response, particularly for patients with severe disease. Serial clinical examinations are used to monitor for relapses and guide changes in therapy. Once symptoms stabilize, and for patients who present with milder symptoms, the treatment objective is for sustained improvement and to promote remission.

- For most treatment-naïve patients with CIDP who are more than mildly affected or for mildly affected patients who are rapidly worsening, the European Academy of Neurology and Peripheral Nerve Society recommend initial immune-modulatory treatment using either intravenous immune globulin (IVIG), plasma exchange, or glucocorticoids. The initial choice among these therapies is influenced by disease severity, concurrent illness, venous access, treatment side effects, availability, and cost.

- Vyvgart Hytrulo has not been studied and there is no data to support use in combination with other medications used to treat CIDP, such as, immunoglobulin.

References:

1. Vyvgart [prescribing information]. Boston, MA: Argenx US, Inc.; May 2026.
2. Vyvgart Hytrulo [prescribing information]. Boston, MA: Argenx US, Inc.; May 2026.
3. Narayanaswami P, Sanders DB, Wolfe G, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2021 Jan 19; 96 (3): 114 - 22.
4. Howard Jr JF, Bril V, Vu T, et al. Safety, efficacy, and tolerability of efgartigimod in patients with generalised myasthenia gravis (ADAPT): a multicentre, randomised, placebo-controlled, phase 3 trial. Lancet Neurol. 2021 Jul; 20 (7): 526 - 36.
5. Trouth AJ, Dabi A, Solieman N, at al. Myasthenia gravis: a review. Autoimmune Dis. 2012; 2012: 874680.
6. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
7. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
8. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
9. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 - 84.
10. Tandan R, Hehir MK, Waheed W, et al. Rituximab treatment of myasthenia gravis: a systematic review. Muscle Nerve. 2017; 56: 185 - 96.
11. Iorio R, Damato V, Alboini PE, et al. Efficacy and safety of rituximab for myasthenia gravis: a systematic review and meta-analysis. J Neurol. 2015; 262: 1115 - 9.
12. Lu J, Zhong H, Jing S, et al. Low-dose rituximab every 6 months for the treatment of acetylcholine receptor-positive refractory generalized myasthenia gravis. Muscle Nerve. 2020; 61: 311 - 15.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

13. Di Stefano V, Lupica A, Rispoli MG, et al. Rituximab in AChR subtype of myasthenia gravis: systematic review. J Neurol Neurosurg Psychiatry. 2020; 91: 392 - 5.
14. Beecher G, Anderson D, Siddiqi ZA. Rituximab in refractory myasthenia gravis: extended prospective study results. Muscle Nerve. 2018; 58: 452 - 5.
15. Brauner S, Eriksson-Dufva A, Hietala MA, et al. Comparison between rituximab treatment for new-onset generalized myasthenia gravis and refractory generalized myasthenia gravis. JAMA Neurol. 2020; 77: 974 - 81.
16. Clinicaltrials.gov. A phase 3, randomized, open-label, parallel-group study to compare the pharmacodynamics, pharmacokinetics, efficacy, safety, tolerability, and immunogenicity of multiple subcutaneous injections of efgartigimod PH20 SC with multiple intravenous infusions of efgartigimod in patients with generalized myasthenia gravis (NCT04735432). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04735432. Accessed on June 22, 2023.
17. Joint Task Force of the EFNS and the PNS. European federation of neurological societies/peripheral nerve society guideline on management of chronic inflammatory demyelinating polyradiculoneuropathy: report of a joint task force of the european federation of neurological societies and the peripheral nerve society – first revision. JPNS. 2010 March 1; 15 (1): 1 – 9.
18. Allen J, Basta I, Eggers C, et al. Efficacy, safety, and tolerability of efgartigimod in patients with chronic inflammatory demyelinating polyneuropathy: results from the ADHERE trial. Neuro. 2024 April 9; 102 (17 Suppl 1): https://doi.org/10.1212/WNL-.0000000000206324.
19. Clinicaltrials.gov. A phase 3 study to evaluate the efficacy and safety of efgartigimod IV in patients with acetylcholine receptor binding antibody seronegative generalized myasthenia gravis (ADAPT SERON) (NCT06298552). Available at: https://clinicaltrials.gov/study/NCT06298552. Accessed on May 11, 2026.

Policy History		
#	Date	Change Description
2.0	Effective Date: 07/27/2026 P&T Date: 06/11/2026	Updated to remove the criteria surrounding acetylcholine receptor antibody positive generalized myasthenia gravis and remove the use of steroids from the CIDP step
1.9	Effective Date: 11/24/2025 P&T Date: 10/09/2025	Updated to required self-administration of Vyvgart Hytrulo
1.8	Effective Date: 08/07/2025	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 08/08/2024	Updated to include the new indication of chronic idiopathic demyelinating polyneuropathy for Vyvgart Hytrulo
1.6	Effective Date: 08/10/2023	Updated to include Vyvgart Hytrulo. Name of the policy was changed from Vyvgart to Efgartigimod Products due to the addition of a second product to the policy
1.5	Effective Date: 07/13/2023	UM medical management system update for BCBS and BCN for Vyvgart Hytrulo
1.4	Effective Date: 07/10/2023	UM medical management system update for MAPPO and BCNA for Vyvgart Hytrulo

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.3	Effective Date: 02/02/2023	Annual review of criteria was performed, no changes were made
1.2	Effective Date: 03/01/2022	UM medical management system update for MAPPO and BCNA for Vyvgart
1.1	Effective Date: 02/10/2022	New Policy
1.0	Effective Date: 01/13/2022	UM medical management system update for BCBS and BCN for Vyvgart

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Efgartigimod Products

Vyvgart® (efgartigimod alfa-fcab) **- HCPCS: J9332**
Vyvgart® Hytrulo (efgartigimod alfa and hyaluronidase-qvfc) **- HCPCS: J9334**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Vyvgart is a neonatal Fc receptor blocker indicated for the treatment of adult patients with generalized myasthenia gravis (gMG).

- Vyvgart Hytrulo is a combination of efgartigimod alfa, a neonatal Fc receptor blocker, and hyaluronidase, an endoglycosidase, indicated for the treatment of adult patients with gMG and chronic inflammatory demyelinating polyneuropathy (CIDP).

- Myasthenia Gravis

  - Myasthenia gravis (MG) is a rare autoimmune disease resulting from an immunologic attack of AChR, muscle-specific tyrosine kinase (MuSK), and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular, or class I, MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Depending on the severity of muscle weakness, at this point MG is classified as either class II for mild, class III for moderate, and class IV for severe presentation. Those with class V disease require intubation due to profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Vyvgart and Vyvgart Hytrulo have only been studied in patients with class II – IV disease. There is no safety and efficacy data to support use of either drug in patients with class I or V disease at this time.

  - The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. The 2021 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on Class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Vyvgart has not been studied in patients who have undergone thymectomy within 3 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Vyvgart or Vyvgart Hytrulo in these patient populations at this time.

  - Safety and efficacy of Vyvgart were established in the ADAPT trial, a randomized, double-blind, placebo-controlled, phase 3 trial of 167 patients with generalized myasthenia gravis regardless of anti-acetylcholine receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. They also had a Myasthenia Gravis Activities of Daily Living (MG-ADL) score of at least 5 indicated they had greater than 50% of symptoms that were non-ocular. Patients were randomly assigned to 10

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

mg/kg efgartigimod or placebo administered as four infusions per cycle with one infusion given per week repeated as needed depending on clinical response no sooner than 8 weeks after initiation of the previous cycle. The primary endpoint was proportion of acetylcholine receptor antibody-positive patients who were MG-ADL responders defined as a greater than or equal to 2-point MG-ADL improvement sustained for greater than or equal to 4 weeks in the first treatment cycle. The trial met its primary endpoint with 67.7% of efgartigimod-treated acetylcholine receptor-antibody positive gMG patients being responders on the MG-ADL score compared to 29.7% of placebo patients which was statistically significant (p-value < 0.0001).

- Safety and efficacy of Vyvgart Hytrulo were established in the ADAPT-SC trial, a randomized, open-label, parallel-group, phase 3 trial of 110 patients with generalized myasthenia gravis regardless of anti-acetylcholine receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. Patients were randomly assigned to 10 mg/kg Vyvgart or 1,008 mg/11,200 units Vyvgart Hytrulo. The primary endpoint was noninferiority of Vyvgart Hytrulo to Vyvgart. Noninferiority was met (p-value < 0.0001) and Vyvgart Hytrulo demonstrated a mean total IgG reduction of 66.4% from baseline at day 29 compared to 62.2% with Vyvgart. Additional key secondary endpoints were met, which were consistent with efficacy measures from the ADAPT study identifying the correlation between total IgG reduction and clinical benefit in gMG.

- Safety and efficacy of Vyvgart and Vyvgart Hytrulo for seronegative disease were established in the ADAPT SERON trial, a double-blind, placebo-controlled study, phase 3 trial of 119 patients with generalized myasthenia gravis regardless of receptor antibody status. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. Patients were randomly assigned to 10 mg/kg Vyvgart or placebo. The primary endpoint was the comparison of the mean change from baseline at week 4 between treatment groups in the MG-ADL total score. A statistically significant difference favoring Vyvgart was observed (LS mean difference (95% CI) = - 1.46 (-2.50, -0.41); p-value = 0.0068).

- Standard therapies recommended by the 2021 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, rituximab, Soliris®, IVIG, and PLEX.

    - Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

    - Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

    - Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no more frequently than every 3 to 6 months. Once the patient experiences treatment effect doses should be maintained for six months to two years of therapy and then tapered to the lowest effective dose.

    - Oral methotrexate may be considered as a steroid-sparing agent in patients with generalized MG who have not tolerated or responded to steroid-sparing agents that are better supported by randomized clinical trial data.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX. Patients were excluded from the ADAPT trial if they had received IVIG or undergone PLEX 1 month prior to the start of the study.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. Treatment guidelines state rituximab should be considered as an early therapeutic option in patients with MuSK antibody positive MG who have an unsatisfactory response to initial immunotherapy. The efficacy of rituximab in refractory AChR antibody positives MG is uncertain. It is an option if patients fail or do not tolerate other immunosuppressive agents. Patients were excluded from the ADAPT trial is they had used rituximab 6 months prior to the start of Vyvgart therapy.

- Soliris should be considered in the treatment of severe, refractory, AChR antibody positive generalized MG. Until further data become available to allow comparisons of cost and efficacy with other treatments guidelines state, Soliris should be considered after trials of other immunotherapies have been unsuccessful in meeting treatment goals. Pateints were excluded from the ADAPT trial is they had received Soliris 6 months prior to the start of Vyvgart therapy.

– Vyvgart and Vyvgart Hytrulo have not been studied and there is no data to support use in combination with other medications used to treat MG, such as, Soliris.

– Chronic Inflammatory Demyelinating Polyneuropathy

- CIDP is an acquired, immune-mediated neuropathy affecting peripheral nerves and nerve roots. It is characterized by a relapsing-remitting or progressive course, glucocorticoid responsiveness, and electrodiagnostic or pathologic features of demyelination. In its classic form, CIDP manifests as a symmetric, motor-predominant neuropathy that results in both proximal and distal muscle weakness. Recognized variants include asymmetric and/or sensory-predominant forms. All share the common pathophysiology of inflammatory demyelination. Although relatively rare, CIDP is important to recognize among the varied causes of polyneuropathy as it is treatable with immunomodulatory therapies.

- There is a temporal continuum between acute inflammatory demyelinating polyneuropathy (AIDP), which is the demyelinating form of Guillain-Barré syndrome (GBS), and CIDP. The time course of progression and the occurrence of relapses are used to distinguish between these entities. GBS commonly reaches its nadir within three to four weeks but does not progress beyond eight weeks. CIDP continues to progress or has relapses for greater than eight weeks. GBS is typically monophasic, but up to two relapses in the first eight weeks from onset can occur. Three or more relapses in the first eight weeks is highly suggestive of acute CIDP. Relapses closer to the eight week time period is more suggestive of CIDP.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The diagnosis of CIDP should be considered in patients presenting with a progressive or relapsing-remitting polyneuropathy involving both motor and sensory axons along with areflexia, particularly when weakness predominates and affects proximal and distal muscles simultaneously and symmetrically. While the initial suspicion for CIDP is clinical, the diagnosis is confirmed by evidence of peripheral nerve demyelination, which must be demonstrated by electrodiagnostic findings or rarely by nerve biopsy, and exclusion of other disorders that may cause or mimic CIDP.
    - Electromyography (EMG) should be performed in all patients with suspected CIDP and is a critical component of the evaluation. The characteristic electrophysiologic features of a definitive CIDP diagnosis per the EFNS/PNS guidelines are those of peripheral nerve demyelination which include at least one of the following:
        - Greater than or equal to 50% prolongation of motor distal latency above the upper limit of normal in two nerves
        - Greater than or equal to 30% reduction of motor conduction velocity below the lower limit of normal in two nerves
        - Greater than or equal to 20% prolongation of F-wave latency above the upper limit of normal in two nerves or greater than 50% if the amplitude of the distal negative peak compound motor action potention (CMAP) is less than 80% of the lower limit of normal
        - Absence of F waves in two nerves, if these nerves have amplitudes of distal negative peak CMAPs greater than or equal to 20% of the lower limit of normal, plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
        - Partial motor conduction block, defined by a greater than 50% amplitude reduction of the proximal negative peak CMAP relative to distal, if distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal, in two nerves, or in one nerve plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
        - Abnormal temporal dispersion, defined by a greater than 30% duration increase between the proximal and distal negative peak CMAP in at least two nerves
        - Distal CMAP duration (interval between onset of the first negative peak and return to baseline of the last negative peak) increase in at least one nerve (median greater than or equal to 6.6 ms, ulnar greater than or equal to 6.7 ms, peroneal greater than or equal to 7.6 ms, tibial greater than or equal to 8.8 ms) plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
    - The EFNS/PNS guidelines state probable CIDP is considered when patients have greater than or equal to 30% amplitude reduction of the proximal negative peak CMAP relative to the distal, excluding the posterior tibial nerve, if the distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal in two nerves or in one nerve plus at least one other demyelinating parameter meeting any of the definite criteria in at least one other nerve.
    - Cerebrospinal fluid (CSF) analysis is recommended in patients with probable CIDP and particularly for patients in whom the clinical and electrophysiologic findings are inconclusive. Albuminocytologic dissociation is a hallmark of CIDP and represents supportive evidence in the EFNS/PNS

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

diagnostic criteria for probable CIDP.

- Magnetic resonance imaging (MRI) with gadolinium of the spine (including spinal roots, cauda equina), brachial plexus, lumbosacral plexus, and other nerve regions can be used to look for enlarged or enhancing nerves. MRI abnormalities are useful as supportive criteria for probable CIDP in the EFNS/PNS guideline.

- Early administration of effective treatment is important in CIDP. The goal is to stop the immune attack against the myelin sheath of peripheral nerves so that secondary axonal degeneration is minimized. This can improve symptoms and function and can prevent or minimize long-term disability. The treatment approach depends on the severity and course of disease. While some patients with CIDP have such mild disease with minimal impact on function and quality of life that treatment is not required, most patients are significantly impaired and need treatment. Multiple medication trials may be required to optimize treatment response, particularly for patients with severe disease. Serial clinical examinations are used to monitor for relapses and guide changes in therapy. Once symptoms stabilize, and for patients who present with milder symptoms, the treatment objective is for sustained improvement and to promote remission.

- For most treatment-naïve patients with CIDP who are more than mildly affected or for mildly affected patients who are rapidly worsening, the European Academy of Neurology and Peripheral Nerve Society recommend initial immune-modulatory treatment using either intravenous immune globulin (IVIG), plasma exchange, or glucocorticoids. The initial choice among these therapies is influenced by disease severity, concurrent illness, venous access, treatment side effects, availability, and cost.

- Vyvgart Hytrulo has not been studied and there is no data to support use in combination with other medications used to treat CIDP, such as, immunoglobulin.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Vyvgart [prescribing information]. Boston, MA: Argenx US, Inc.; May 2026.
2. Vyvgart Hytrulo [prescribing information]. Boston, MA: Argenx US, Inc.; May 2026.
3. Narayanaswami P, Sanders DB, Wolfe G, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2021 Jan 19; 96 (3): 114 - 22.
4. Howard Jr JF, Bril V, Vu T, et al. Safety, efficacy, and tolerability of efgartigimod in patients with generalised myasthenia gravis (ADAPT): a multicentre, randomised, placebo-controlled, phase 3 trial. Lancet Neurol. 2021 Jul; 20 (7): 526 - 36.
5. Trouth AJ, Dabi A, Solieman N, at al. Myasthenia gravis: a review. Autoimmune Dis. 2012; 2012: 874680.
6. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
7. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
8. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
9. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 - 84.
10. Tandan R, Hehir MK, Waheed W, et al. Rituximab treatment of myasthenia gravis: a systematic review. Muscle Nerve. 2017; 56: 185 - 96.
11. Iorio R, Damato V, Alboini PE, et al. Efficacy and safety of rituximab for myasthenia gravis: a systematic review and meta-analysis. J Neurol. 2015; 262: 1115 - 9.
12. Lu J, Zhong H, Jing S, et al. Low-dose rituximab every 6 months for the treatment of acetylcholine receptor-positive refractory generalized myasthenia gravis. Muscle Nerve. 2020; 61: 311 - 15.
13. Di Stefano V, Lupica A, Rispoli MG, et al. Rituximab in AChR subtype of myasthenia gravis: systematic review. J Neurol Neurosurg Psychiatry. 2020; 91: 392 - 5.
14. Beecher G, Anderson D, Siddiqi ZA. Rituximab in refractory myasthenia gravis: extended prospective study results. Muscle Nerve. 2018; 58: 452 - 5.
15. Brauner S, Eriksson-Dufva A, Hietala MA, et al. Comparison between rituximab treatment for new-onset generalized myasthenia gravis and refractory generalized myasthenia gravis. JAMA Neurol. 2020; 77: 974 - 81.
16. Clinicaltrials.gov. A phase 3, randomized, open-label, parallel-group study to compare the pharmacodynamics, pharmacokinetics, efficacy, safety, tolerability, and immunogenicity of multiple subcutaneous injections of efgartigimod PH20 SC with multiple intravenous infusions of efgartigimod in patients with generalized myasthenia gravis (NCT04735432). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04735432. Accessed on June 22, 2023.
17. Joint Task Force of the EFNS and the PNS. European federation of neurological societies/peripheral nerve society guideline on management of chronic inflammatory demyelinating polyradiculoneuropathy: report of a joint task force of the european federation of neurological societies and the peripheral nerve society – first revision. JPNS. 2010 March 1; 15 (1): 1 – 9.
18. Allen J, Basta I, Eggers C, et al. Efficacy, safety, and tolerability of efgartigimod in patients with chronic inflammatory demyelinating polyneuropathy: results from the ADHERE trial. Neuro. 2024 April 9; 102 (17 Suppl 1): https://doi.org/10.1212/WNL-.0000000000206324.
19. Clinicaltrials.gov. A phase 3 study to evaluate the efficacy and safety of efgartigimod IV in patients with acetylcholine receptor binding antibody seronegative generalized myasthenia gravis (ADAPT SERON) (NCT06298552). Available at: https://clinicaltrials.gov/study/NCT06298552. Accessed on May 11, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
2.0	Effective Date: 07/27/2026 P&T Date: 06/11/2026	Updated to remove the criteria surrounding acetylcholine receptor antibody positive generalized myasthenia gravis and remove the use of steroids from the CIDP step
1.9	Effective Date: 11/24/2025 P&T Date: 10/09/2025	Updated to required self-administration of Vyvgart Hytrulo
1.8	Effective Date: 08/07/2025	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 08/08/2024	Updated to include the new indication of chronic idiopathic demyelinating polyneuropathy for Vyvgart Hytrulo
1.6	Effective Date: 08/10/2023	Updated to include Vyvgart Hytrulo. Name of the policy was changed from Vyvgart to Efgartigimod Products due to the addition of a second product to the policy
1.5	Effective Date: 07/13/2023	UM medical management system update for BCBS and BCN for Vyvgart Hytrulo
1.4	Effective Date: 07/10/2023	UM medical management system update for MAPPO and BCNA for Vyvgart Hytrulo
1.3	Effective Date: 02/02/2023	Annual review of criteria was performed, no changes were made
1.2	Effective Date: 03/01/2022	UM medical management system update for MAPPO and BCNA for Vyvgart
1.1	Effective Date: 02/10/2022	New Policy
1.0	Effective Date: 01/13/2022	UM medical management system update for BCBS and BCN for Vyvgart

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Elevidys™ (delandistrogene moxeparvovec-rokl)
HCPCS: J1413

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: N/A

Additional BCBSM Part B Criteria: Yes

Background Information:

- Duchenne muscular dystrophy (DMD) is a rare, life-limiting, progressive childhood disease that affects 1 in 3,500 – 5,000 live male births. It is characterized by progressive muscle weakness and wasting due to the absence of dystrophin protein that causes degeneration of skeletal and cardiac muscle. Affected individuals are unable to run and jump properly due to proximal muscle weakness of the leg and pelvic muscles. DMD occurs as a result of mutations in the dystrophin gene, located on the X-chromosome, which normally functions to generate dystrophin, a structural protein of muscle cells. Mutations in the dystrophin gene lead to an absence of or a defect in dystrophin protein resulting in the progressive symptoms seen in DMD patients.

- Glucocorticosteroids are the main pharmacologic treatment option used in DMD. The 2018 treatment guidelines for DMD support the use of glucocorticosteroids as they are the only medication currently available to slow the decline in muscle strength and function which in turn reduces the risk of scoliosis and stabilizes pulmonary function. Trials show muscle strength is improved when treated with prednisone at a dose of 0.75 mg/kg daily for up to 6 months. The goal of glucocorticoids in an ambulatory patient is the preservation of ambulation and the minimization of later cardiac, respiratory, and orthopedic complications. Continued treatment after the patient becomes non-ambulatory has shown reduction in the risk of progressive scoliosis and stabilization of pulmonary function tests. However, it is important to note that glucocorticosteroids are not able to induce the production of dystrophin-like proteins and therefore do not alter or impact the underlying cause of DMD.

- The exon skipping therapies, including Exondys 51™, Vyondys 53™, Viltepso™, and Amondys 45™, are disease modifying therapies for the treatment of DMD. All were FDA approved under the accelerated approval pathway using a surrogate endpoint of increase in dystrophin in skeletal muscle. There is no evidence the small observed increase in dystrophin from use of these therapies results in a clinically meaningful benefit. Therefore, establishment of a clinical benefit is needed in on-going clinical trials for the exon skipping therapies to not be considered experimental/investigational.

- Elevidys is an adeno-associated virus vector-based gene therapy indicated in ambulatory and non-ambulatory patients at least 4 years of age with Duchenne muscular dystrophy (DMD) with a confirmed mutation in the DMD gene. Use in non-ambulatory patients is approved under accelerated approval based on expression of Elevidys micro-dystrophin in skeletal muscle. Continued approval for this indication is contingent upon verification and description of clinical benefit in a confirmatory trial.

- Similar to the exon skipping therapies, Elevidys for both ambulatory and non-ambulatory patients was originally FDA approved under accelerated approval based on expression of Elevidys micro-dystrophin in skeletal muscle observed in patients treated with Elevidys. The FDA granted full approval for ambulatory patients in June 2024 despite the phase III EMBARK trial not meeting primary endpoints and a lack of evidence supporting the small observed increase in dystrophin results in a clinically meaning benefit.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- EMABRK, the phase III, randomized, double-blind, placebo-controlled confirmatory trial, evaluated the efficacy and safety of Elevidys in 120 patients with DMD. The primary endpoint was change in North Star Ambulatory Assessment (NSAA) total score from baseline to week 52 compared to placebo. The trial included stratification of participants by age and baseline NSAA with a minimum of 50% of enrolled patients being age 4 – 5. Patients were eligible if they were on a stable daily dose of oral corticosteroids and had rAAVrh74 antibody titers less than 1:400. Study results showed Elevidys-treated patients improved 2.6 points on their NSAA total score 52 weeks after treatment compared to 1.9 points for those on placebo which was not statistically significant (p-value = 0.24). Secondary endpoints, including change in time to rise (TTR) and the 10-meter walk test, showed statistically significant improvements and were the basis for the director of the FDA's Center for Biologics Evaluation and Research decision to overrule three FDA review teams and two additional directors who opposed the expanded indication and traditional approval for ambulatory patients.

- Multiple groups and individuals at the FDA advised against traditional approval and an expanded indication. A review by FDA statisticians concluded that the collective clinical trial results do not suggest there is substantial evidence to support the effectiveness of Elevidys for the expanded indication to all DMD patients and do not support the conversion of accelerated to traditional approval. An additional joint review from the agency's Clinical and Clinical Pharmacology teams likewise determined that the totality of the data does not provide substantial evidence of effectiveness of Elevidys for treatment of ambulatory DMD patients of any age and that the results argue against expanding access. In a memo, the director of the Office of Clinical Evaluation in the Office of Therapeutic Products (OTP) and the super office director of the OTP, concluded that the clinical results cast significant uncertainty regarding the benefits of treatment of DMD with Elevidys. Furthermore, the two directors found the primary clinical trial endpoint results were not statistically significant and smaller analyses looking at secondary endpoints of specific patient measures, such as, the time it takes patients to rise from the floor or walk 10 meters, were inconclusive, in some cases conflicting, and overall illustrated the unreliability of exploratory analyses to support regulatory decision-making. The director of the Office of Clinical Evaluation in the OTP wrote that they would have recommended Sarepta conduct an additional adequate and well-controlled study of Elevidys in the subgroup(s) of patients for which Sarepta believes the effects of Elevidys to be most promising.

- On June 15, 2025, Sarepta paused the ENVISION trial, its confirmatory study required by the FDA to allow for full drug approval in non-ambulatory patients. ENVISION is investigating the use of Elevidys in older ambulatory and non-ambulatory individuals living with DMD. It includes non-ambulatory patients and ambulatory patients 8 to 18 years old with a primary endpoint of change from baseline in the total score of performance of upper limb (PUL) at week 72. The pause of ENVISION was initiated following a second study participant death due to acute liver failure following Elevidys administration. The pause will allow for the evaluation of a protocol amendment to incorporate an enhanced immunosuppressive regimen for the non-ambulatory patient cohort and incorporate any additional feedback from the FDA. Regulatory alignment is needed before screening and dosing in ENVISION may resume.

- Based on the current information available, there is insufficient evidence that Elevidys provides a clinical benefit and is safe for use in patients with DMD. Therefore, demonstration of a clinical benefit and safety is warranted in on-going clinical trials.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Elevidys [prescribing information]. Cambridge, MA: Sarepta Therapeutics, Inc.; August 2024.
2. Mendell JR, Shilling C, Leslie ND, et al. Evidence-based path to newborn screening for Duchenne muscular dystrophy. Ann Neurol. 2012; 71(3): 304 – 313.
3. Hoffman EP, Fischbeck KH, Brown RH, et al. Characterization of dystrophin in muscle-biopsy specimens from patients with Duchenne's or Becker's muscular dystrophy. NEJM. 1988; 318(21): 1363 – 1368.
4. Koeks Z, Bladen CL, Salgado D, et al. Clinical outcomes in Duchenne muscular dystrophy: a study of 5345 patients from the TREAT-NMD DMD global database. J Neuromuscul Dis. 2017; 4(4): 293 – 306.
5. Humbertclaude V, Hamroun D, Bezzou K, et al. Motor and respiratory heterogeneity in Duchenne patients: implication for clinical trials. Eur J Paediatr Neurol. 2012; 16(2): 149 – 160.
6. Gloss D, Moxley RT, Ashwal S, Oskoui M. Practice guideline update summary: corticosteroid treatment of Duchenne muscular dystrophy: report of the guideline development subcommittee of the American Academy of Neurology. Neurology. 2018 (reaffirmed 2022); 17(4): 347 – 361.
7. Van Putten M, Hulsker M, Young C, et al. Low dystrophin levels increase survival and improve muscle pathology and function in dystrophin/utrophin double-knockout mice. FASBE J. 2013; 27(6): 2484 – 2495.
8. Waldrop MA, Gumienny F, EL Husayni S, et al. Low-level dystrophin expression attenuating the dystrophinopathy phenotype. Neuromuscular Disord. 2018; 28(2): 116 – 121.
9. Birnkrant DJ, Bushby K, Bann CM, et al. Diagnosis and management of duchenne muscular rehabilitation, endocrine, and gastrointestinal and nutritional management. Lancet Neuro. 2018 Mar; 17 (3): 251 – 67.
10. Clinicaltrials.gov. An open-label, systemic gene delivery study using commercial process material to evaluate the safety of and expression from SRP-9001 in subjects with duchenne muscular dystrophy (ENDEAVOR) (NCT04626674). Available at: https://clinicaltrials.gov/ct2/show/NCT04626674?intr=%22SRP-9001%22+OR+%22Delandistrogene+Moxeparvovec%22+OR+%22rAAVrh74.MHCK7.micro-dystrophin%22&draw=1&rank=1. Accessed on June 26, 2023.
11. Mendell JR, Sahenk Z, Lehman K, et al. Assessment of systemic delivery of rAAVrh74.MHCK7.micro-dystrophin in children with duchenne muscular dystrophy: a nonrandomized controlled trial. JAMA Neurol. 2020 Sep 1; 77 (9): 1122 - 31.
12. Clinicaltrials.gov. A phase 3 multinational, randomized, double-blind, placebo-controlled systemic gene delivery study to evaluate the safety and efficacy of SRP-9001 in subjects with duchenne Muscular dystrophy (EMBARK) (NCT05096221). Available at: https://clinicaltrials.gov/ct2/show/NCT05096221?intr=%22SRP-9001%22+OR+%22Delandistrogene+Moxeparvovec%22+OR+%22rAAVrh74.MHCK7.micro-dystrophin%22&draw=1&rank=3. Accessed on June 26, 2023.
13. National Organization for Rare Diseases. Duchenne muscular dystrophy. 2021 March 25. Available at: https://rarediseases.org/rare-diseases/duchenne-muscular-dystrophy/. Accessed on June 26, 2023.
14. Mole B. Top FDA official overrules staff to approve gene therapy that failed trial. 2024 June 21. Available at: https://arstechnica.com/science/2024/06/top-fda-official-overrules-staff-to-approve-gene-therapy-that-failed-trial/. Accessed on June 24, 2024.
15. Meglio M. SRP-9001 fails to meet primary end point in phase 3 EMBARK study. 2023 Oct 31. Available at: https://www.neurologylive.com/view/srp-9001-fails-to-meet-primary-end-point-phase-3-embark-study. Accessed on June 24, 2024.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 02/12/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/10/2023</td><td>New Policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 07/10/2023</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 07/06/2023</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 04/06/2023</td>
<td>Preliminary drug review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Elrexfio™ (elranatamab-bcmm)
HCPCS: J1323

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Elrexfio is a bispecific BCMA-directed/CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least four prior lines of therapy including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody.

- Safety and efficacy were evaluated in the MagnetisMM-3 study, a single-arm, multi-center, open-label, phase I/II trial of 123 patients in cohort A and 64 patients in cohort B with relapsed or refractory multiple myeloma who had previously received at least three prior therapies, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody. Subjects in cohort A had not received prior BCMA-targeted therapy while those in cohort B had prior BCMA-targeted therapy. The study excluded patients who had stroke or significant cardiovascular disease within the past 6 months, an ECOG performance score of 2 or higher, or active or documented history of autoimmune disease. The primary endpoints were overall response rate (ORR) and duration of response (DoR). In cohort A, the ORR was 58% with an estimated 82% maintaining the response for at least nine months. The median time to first response in cohort A was 1.2 months. In cohort B, the ORR was 33% after a median follow-up of 10.2 months with an estimated 84% maintaining the response for at least nine months. In longer-term efficacy data for cohort A presented at the 2023 European Hematology Association meeting, the objective response rate was 61%, and median duration of response, overall survival, and progression-free survival had not yet been reached at 14.7 months median follow-up. For the responding patients, the probability of maintaining a response at 15 months was 72%. Among responding patients who switched to every-other-week dosing at least 6 months prior to the data cut-off date (n=50), 80% maintained or improved their response after the switch with 38% attaining a complete response or better after the switch.

- Due to the risk of cytokine release syndrome and neurological toxicities, the step-up doses of Elrexfio are required to be administered in an inpatient setting.

- Elrexfio has not been studied when given following prior treatment with Elrexfio or following any other bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engager therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Elrexfio [prescribing information]. New York, NY: Pfizer Inc.; July 2025.
2. Clinicaltrial.gov. MagnetisMM-3: study of elranatamab (PF-06863135) monotherapy in participants with multiple myeloma who are refractory to at least one PI, one IMiD and one anti-CD38 mAb. Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04649359. Accessed on August 16, 2023.
3. Lesokhin AM, Tomasson MH, Arnulf B, et al. Elranatamab in relapsed or refractory multiple myeloma: phase 2 MagnetisMM-3 trial results. Nat Med. 2023 Aug 15. doi: 10.1038/s41591-023-02528-9.
4. National Comprehensive Cancer Network. Multiple myeloma (Version 2.2026). 2025 July 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on August 20, 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 10/03/2024</td><td>Updated to remove the requirements of active disease, no known central nervous system involvement with myeloma, liver function, kidney function, no uncontrolled infection, no detectable hepatitis B or C viral load, no stroke event within 6 months of therapy administration, no pulmonary disease requiring oxygen dependence, no seizures within 6 months of therapy administration, and no active autoimmune disease. Also added the requirement that the patient has not had a stem cell transplant within 12 weeks of Elrexfio administration</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/20/2024</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
10/12/2023</td>
<td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Empaveli™ (pegcetacoplan)
HCPCS: J3490

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Empaveli is a complement inhibitor indicated for the treatment of adult patients with paroxysmal nocturnal hemoglobinuria (PNH) and for the reduction of proteinuria in adult and pediatric patients 12 years and older with C3 glomerulopathy (C3G) or primary immune-complex membranoproliferative glomerulonephritis (IC-MPGN).

- Paroxysmal nocturnal hemoglobinuria (PNH)

    - Paroxysmal nocturnal hemoglobinuria is a rare acquired hematopoietic stem cell disorder in which red blood cells undergo cell lysis prematurely mediated by the alternative pathway of complement (APC). PNH arises due to a somatic mutation of a the PIGA gene whose protein product is a glycosyl transferase. Glycosyl transferase is part of the biosynthetic pathway that generates glycosyl phospastidylinositol (GPI) that serves as an anchor for membrane bound proteins on hematopoietic lineage cells. The mutation in PIGA results in a lack of glycosyl transferase activity and near-complete or complete absence of expression of all proteins that are GPI-anchored including the complement inhibitory proteins CD55 and CD59. The deficiency of CD55 and CD59 cause the complement-mediated intravascular hemolysis characteristic of PNH.

    - Phenotypic mosaicism of the peripheral blood is a characteristic feature of PNH and is based on quantitative differences in complement sensitivity. Cell complement sensitivity is divided into 3 types. PNH type I cells are defined by having normal sensitivity to complement-mediated lysis. PNH type II cells are moderately complement sensitive or 2 - 4 times more sensitive than normal. Finally, PNH type III cells are markedly complement sensitive or 15 - 25 times more sensitive than normal. Complement sensitivity varies greatly from patient to patient depending on their unique phenotypic mosaicism. Erythrocyte phenotype is clinically relevant as patients with primarily type II cells have a relatively benign clinical course. In contrast, those who have more type III cells, which are completely deficient in CD55 and CD59, will have a more severe clinical course due to increased complement-mediated hemolysis. There is no guideline recommended cutoffs for when PNH can be diagnosed based on percentage of PNH type III cells.

    - For patients with high disease activity, PNH complications increase significantly. High disease activity is defined as an elevated LDH greater than or equal to 1.5 times the upper limit of normal with constitutional symptoms of weakness, fatigue, hemoglobinuria, abdominal pain, dyspnea, hemoglobin less than 10 g/dL, dysphagia, and erectile dysfunction. Patients with an elevated LDH and at least one additional symptom should begin treatment with Empaveli.

    - Thrombolytic complications are the leading cause of morbidity and mortality in PNH. Acute thrombotic events require anticoagulation with heparin. If there is no contraindication, anticoagulation should continue indefinitely for a patient with PNH who has experienced a thromboembolic complication. Empaveli should be

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

initiated if a patient has experienced a thrombotic vascular event. For patients being treated with Empaveli and no history of thromboembolic complications, prophylactic anticoagulation may be unnecessary, although it is recommended that anticoagulation continue for those patients who experienced a thromboembolic event prior to initiating therapy with Empaveli

- Empaveli has been shown to decrease the number of blood transfusions required by patients and stabilize hemoglobin levels. It has been studied in patients receiving as few as 1 blood transfusion in 12 months.

- Empaveli has not been studied and there is no data to support use in combination with other medications used to treat PNH, such as, Ultomiris. However, for patients switching from Soliris, Empaveli should be initiated while continuing Soliris at its current dose. After 4 weeks, Soliris should be discontinued before continuing on Empaveli monotherapy.

- Complement 3 Glomerulopathy (C3G) and primary immune-complex membranoproliferative glomerulonephritis (IC-MPGN):

  - C3G and IC-MPGN are both rare kidney diseases characterized by overactivity of the complement cascade, leading to kidney damage. While sharing similarities, C3G is defined by excessive C3 deposits in the kidney, whereas IC-MPGN involves significant deposits of both C3 and immunoglobulins. Although C3G is a distinct disease from IC-MPGN, the underlying cause and progression of the two diseases are remarkably similar. In both disease, these deposits in the glomerular basement membrane (GBM) disrupt kidney function. This results in progressive damage to the glomeruli and can lead to kidney failure, requiring patients to go on dialysis or receive a kidney transplant. The estimated incidence for both disease is approximately 1-4 cases per million population per year. C3G is more commonly diagnosed in childhood, while IC-MPGN can occur at any age, though it is more frequently diagnosed in adults.

  - The Kidney Disease: Improving Global Outcomes (KDIGO) 2021 Clinical Practice Guideline for the Management of Glomerular Diseases includes the following treatment recommendations for immunoglobulin- and complement-mediated glomerular diseases with a MPGN pattern of injury:

    - Kidney biopsy is considered the “gold standard” for the diagnostic evaluation of glomerular disease. C3G diagnosis is made when a proliferative histologic lesion with C3 deposition at least 2 orders of magnitude greater than any other immune reactant is seen on immunofluorescence. ICGN is characterized by the deposition of immune complexes containing both polyclonal immunoglobulins and complement. Primary IC-MPGN is also referred to as idiopathic IC-MPGN and indicates that the cause is unknown. Secondary IC-MPGN occurs secondary to infections and certain autoimmune disorders.

    - Guidelines encourage the usual supportive measures including the use of ACEI or ARB to maximally tolerated or allowed daily dose as first-line therapy in treating patients with hypertension and proteinuria as well as those with glomerulonephritis and proteinuria alone.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- KDIGO recommends treatment with MMF in combination with glucocorticoids as initial therapy for C3G in patients with moderate-to-severe disease. It is noted that if a patient fails on treatment with MMF and glucocorticoids they should be considered for therapy with eculizumab (Soliris) and if they fail to respond to either of these treatment approaches, they should be considered for a clinical trial where available.

- Once determining that is no underlying cause for the patient's IC-MPGN, KDIGO recommends to tailor the treatment based on the severity of proteinuria and kidney dysfunction. For patients with primary IC-MPGN, abnormal kidney function (but without crescentic involvements), active urine sediment, with or without nephrotic-range proteinuria, KDIGO recommends adding glucocorticoids and immunosuppressive therapy to supportive care.

    1. Prednisone (or its equivalent) can be initiated at 1 mg/kg/ d (maximum dose 60–80 mg/d) for 12–16 weeks. Patients that experience worsening kidney function and/or < 30% reduction in proteinuria after 12-16 weeks are considered to have had an unsatisfactory response. In such patients, it is recommended to reduce the dose of prednisone to 20 mg/day and add MMF. If, after 6-12 months of combined therapy there is no improvement in kidney function, hematuria, or proteinuria, discontinue therapy, and consider a repeat kidney biopsy. If the kidney biopsy continues to show active GN, consider using cyclophosphamide or rituximab.

- These guidelines have not been updated to include Fabhalta or Empaveli after their label expansions in 2025.

- SGLT2i have been shown to slow renal disease progression in diabetic but also in non-diabetic proteinuric neuropathies as demonstrated in EMPA-KIDNEY and DAPA-CKD. A recent analysis of 148 C3G patient records showed that treatment of these patients often involves a combination of antihypertensive agents and SGLT2i. The use of SGLT2i has increased year-over-year in C3G patients and is also being applied as an earlier line of therapy. It is also noted in these audits that nephrologists prescribe systemic corticosteroids and immunosuppressive agents for these patients, often based on their rate of eGFR decline and levels of proteinuria.

- The safety and efficacy of Empaveli in reducing proteinuria in patients with C3G and IC-MPGN was evaluated in the VALIANT trial. 124 patients were randomized 1:1 to Empaveli or placebo, administered twice weekly as a subcutaneous injection for 26 weeks. Approximately 91% of patients were treated with angiotensin-converting enzyme inhibitors (ACEi) or angiotensin II receptor blockers (ARB), 72% with immunosuppressants (e.g., mycophenolate mofetil, tacrolimus), 40% with systemic corticosteroids, and 11% with sodium-glucose co-transporter 2 (SGLT2) inhibitors. Use of each of these medications was balanced between the treatment groups. The primary efficacy endpoint was the log-transformed ratio of UPCR (sampled from the first morning urine collections) at week 26 compared to baseline. At week 26, the geometric mean UPCR ratio relative to baseline was 0.33 (95% CI: 0.25, 0.43) and 1.03 (95% CI: 0.91, 1.16) in the Empaveli and placebo groups respectively, resulting in a 68% reduction in UPCR from baseline in the Empaveli group compared to placebo ($p < 0.0001$).

- Empaveli is the first product to be approved for C3G and IC-MPGN. Fabhalta was approved in March of 2025 for treatment of only C3G in adults.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Empaveli [prescribing information]. Waltham, MA: Apellis Pharmaceuticals, Inc.; July 2025.
2. National Organization for Rare Disorders. Paroxysmal nocturnal hemoglobinuria. 2019. Available at: https://rarediseases.org/rare-diseases/paroxysmal-nocturnal-hemoglobinuria/. Accessed on May 17, 2020.
3. Parker CJ. Update on the diagnosis and management of paroxysmal nocturnal hemoglobinuria. Hematology Am Soc Hematol Educ Program. 2016 Dec 2; 2016 (1): 208 - 16.
4. Brodsky, RA. Paroxysmal nocturnal hemoglobinuria. Blood. 2014 Oct 30; 124 (18): 2804 - 11.
5. Sahin F, Akay OM, Ayer M, et al. Pesg PNH diagnosis, follow-up and treatment guidelines. Am J Blood Res. 2016; 6 (2): 19 – 27.
6. Borowitz MJ, Craig FE, DiGiuseppe JA, et al. Guidelines for the diagnosis and monitoring of paroxysmal nocturnal hemoglobinuria and related disorders by flow cytometry. Cytometry Part B (Clinical Cytometry). 2010; 78B: 211 – 30.
7. Luzzatto L & Gianfaldoni G. Recent advances in biological and clinical aspects of paroxysmal nocturnal hemoglobinuria. International J Hematology. 2006; 84: 104 - 12.
8. Hill A, Kelly RJ, & Hillmen P. Thrombosis in paroxysmal nocturnal hemoglobinuria. Blood. 2013; 121 (25): 4985 - 96.
9. Hillmen P, Szer J, Weitz I, et al. Pegcetacoplan versus Eculizumab in Paroxysmal Nocturnal Hemoglobinuria. NEJM. 2021 Mar 18; 384 (11): 1028 - 37.
10. The EMPA-KIDNEY Collaborative Group; Herrington WG, Staplin N, et. al. Empagliflozin in Patients with Chronic Kidney Disease. N Engl J Med. 2023 Jan 12;388(2):117-127. doi: 10.1056/NEJMoa2204233
11. Heerspink HJL, Stefánsson BV, et. al; DAPA-CKD Trial Committees and Investigators. Dapagliflozin in Patients with Chronic Kidney Disease. N Engl J Med. 2020 Oct 8;383(15):1436-1446. doi: 10.1056/NEJMoa2024816.
12. Kidney Disease: Improving Global Outcomes (KDIGO) Glomerular Diseases Work Group. KDIGO 2021 clinical practice guideline for the management of glomerular diseases. Kidney Int. 2021; 100 (4S): S1-S276.
13. National Organization for Rare Disorders. C3 Glomerulopathy: Dense Deposit Disease and C3 Glomerulonephritis. 2023. Available at: https://rarediseases.org/rare-diseases/c3-glomerulopathy-dense-deposit-disease-and-c3-glomerulonephritis/. Accessed on July 29, 2025.
14. Kopel, Tal, Salant, David John, et. Al. C3 Glomerulopathies: Dense deposit disease and C3 glomerulonephritis. UpToDate. June 2024. Available at: http://uptodate.com/contents/ 3-glomerulopathies-dense-deposit-disease-and-c3-glomerulonephritis. Accessed on April 4, 2025.
15. Noris M, Remuzzi G. C3G and Ig-MPGN-treatment standard. Nephrol Dial Transplant. 2024 Jan 31;39(2):202-214. doi: 10.1093/ndt/gfad182.
16. Marina Noris, Giuseppe Remuzzi, C3G and Ig-MPGN—treatment standard, Nephrology Dialysis Transplantation, Volume 39, Issue 2, February 2024, Pages 202–214, https://doi.org/10.1093/ndt/gfad182
17. Press Release: FDA Approved Apellis' Empaveli (pegcetacoplan) as the First C3G and Primary IC-MPGN Treatment for Patients 12 and Older. July 28, 2025. Available at: https://investors.apellis.com/news-releases/news-release-details/fda-approves-apellis-empavelir-pegcetacoplan-first-c3g-and. Accessed on July 28, 2025.
18. The European Rare Kidney Disease Reference Network. C3 Glomerulonephritis and IC-MPGN. Available at: https://www.erknet.org/patients/es/your-kidney-disease/c3g-ic-mpgn/disease-information#:~:text=very%20small%20scale.-,How%20often%20do%20these%20diseases%20occur?,the%20causes%20of%20those%20diseases. Accessed: July 29, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

19. Wong EKS, Marchbank KJ, et. al; MPGN/DDD/C3 Glomerulopathy Rare Disease Group and National Study of MPGN/DDD/C3 Glomerulopathy Investigators. C3 Glomerulopathy and Related Disorders in Children: Etiology-Phenotype Correlation and Outcomes. Clin J Am Soc Nephrol. 2021 Nov;16(11):1639-1651. doi: 10.2215/CJN.00320121. Epub 2021 Sep 22. PMID: 34551983; PMCID: PMC8729419.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.9</td><td>Effective Date: 10/09/2025</td><td>Updated to add new indication and criteria for C3G and IC-MPGN and removed hematologist requirement from PNH criteria to align with other PNH products</td></tr>
<tr><td>1.8</td><td>Effective Date: 07/14/2025</td><td>UM medical management system removal for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.7</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/08/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/09/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 08/02/2021</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/28/2021</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 06/14/2021</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/10/2021</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Empliciti® (elotuzumab)
HCPCS: J9176

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Empliciti is an intravenous monoclonal antibody indicated in combination with lenalidomide and dexamethasone for the treatment of adult patients with multiple myeloma (MM) who have received one to three prior therapies or in combination with pomalidomide and dexamethasone for the treatment of adult patients with MM who have received at least two prior therapies including lenalidomide and a proteasome inhibitor.
- There are no studies and NCCN guidelines do not support use of Empliciti following failure in a previous line of therapy or after failure of another anti-SLAMF7 monoclonal antibody.

References:

1. Empliciti [prescribing information]. Princeton, NJ: Bristol-Myers Squibb Company; March 2022.
2. Lonial S, Dimopoulos M, Palumbo A, et al. Elotuzumab therapy for relapsed or refractory multiple myeloma. NEJM. 2015; 373: 621 - 31.
3. Meletios A, Dimopoulos MD, et al. Elotuzumab plus pomalidomide and dexamethasone for multiple myeloma. NEJM. 2018; 379: 1811 – 22.
4. National Comprehensive Cancer Network. Multiple myeloma (Version 1.2025). 2024 Sept 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on December 10, 2024.

Policy History		
#	Date	Change Description
2.3	Effective Date: 02/16/2026	Annual review of criteria was performed, no changes were made
2.2	Effective Date: 02/13/2025	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time
1.9	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.8</td><td>Effective Date: 12/01/2021</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.7</td><td>Effective Date: 02/04/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 02/06/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/14/2019</td><td>Updated criteria for additional indication for use with pomalidomide</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/09/2018</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/10/2017</td><td>Annual review of criteria was performed, no changes were made</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
08/11/2016</td>
<td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Encelto™ (revakinagene taroretcel-lwey)
HCPCS: J3403

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Macular telangiectasia type 2, also known as MacTel, is the most common form of macular telangiectasia. It is a neurodegenerative metabolic disorder that is correlated with diabetes and coronary artery disease. In MacTel type 2, blood vessels in the macula become dilated and leak fluid, causing swelling and scarring, which can lead to vision loss. Sometimes new blood vessels grow beneath the macula, affecting the macular photoreceptors and causing loss of vision.

- Safety and efficacy were evaluated in two phase III, randomized, multi-center, sham-controlled trials, NTMT-03-A and NTMT-03-B which included 239 patients with MacTel type 2. Participants with ellipsoid zone (EZ; inner segment/outer segment [IS/OS]) loss between 0.16 mm2 and 2.00 mm2 were randomly assigned 1:1 to Encelto or sham treatment in the study eye. Patients were included if they had a best corrected visual acuity (BCVA) of 54 letters or better (20/80 or better) as measured by the Early Treatment Diabetic Retinopathy Study (ETDRS) chart at screening. The primary endpoint was rate of change in EZ area loss from baseline through 24 months. Both clinical trials demonstrated statistically significant change in EZ area loss from baseline which was 56.4% lower in the treatment group compared to the sham group in NTMT-03-A (treatment group: 0.075 mm2, 95% CI: 0.05, 0.10]; sham group: 0.166 mm2, 95% CI: 0.14, 0.19; p-value < 0.0001) and 29.2% lower in NTMT-03-B (treatment group: 0.111 mm2, 95% CI: 0.08, 0.14; sham group: 0.160 mm2, 95% CI 0.13, 0.19; p-value = 0.0186). The proportion of participants with a reduction of 15 early treatment diabetic retinopathy study (ETDRS) letters was similar between treatment groups in both NTMT-03-A (treatment group 13.8% (8/58); sham group 8.8% (5/57); p-value = 0.558) and NTMT-03-B (treatment group 3.4% (2/59); sham group 5.6% (3/54); p-value = 0.669).

- A provider portal that is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Encelto [prescribing information]. Cumberland, RI: Neurotech Pharmaceuticals, Inc.; March 2025.
2. Clinicaltrials.gov. A study to determine the safety and efficacy of NT-501 in macular telangiectasia type 2 - protocol a (NCT03316300). Available at: https://clinicaltrials.gov/study/NCT03316300?a=22#more-information. Accessed on March 10, 2025.
3. Clinicaltrials.gov. A study to determine the safety and efficacy of NT-501 in macular telangiectasia type 2 (NCT03319849). Available at: https://clinicaltrials.gov/study/NCT03319849. Accessed on March 10, 2025.
4. American Academy of Ophthalmology. What is macular telangiectasia. 2024. Available at: https://www.aao.org/eye-health/diseases/macular-telangiectasia. Accessed on March 10, 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effect Date:
04/16/2026</td><td>Updated to remove the inner segment - outer segment junction line (IS/OS) photo receptor (PR) break and en face EZ measurement and to add the provider portal reporting requirement</td></tr>
<tr><td>1.3</td><td>Effective Date:
06/01/2025</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date:
04/10/2025</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 03/20/2025</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 10/03/2024</td><td>Preliminary Drug Review

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Enhertu® (fam-trastuzumab deruxtecan-nxki)
HCPCS: J9358

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Enhertu is a HER2-directed antibody and topoisomerase inhibitor conjugate indicated for:
  - As neoadjuvant treatment of adult patients with HER2-positive (IHC 3+ or ISH+) stage II or III breast cancer, as determined by an FDA-authorized test followed by a taxane, trastuzumab, and pertuzumab (THP).
  - As adjuvant treatment of adult patients with HER2-positive (IHC 3+ or ISH+) breast cancer who have residual invasive disease following neoadjuvant trastuzumab (with or without pertuzumab) and taxane
  - In adult patients in combination with pertuzumab as first-line treatment of adult patients with unresectable or metastatic HER2-positive breast cancer, as determined by an FDA-approved test
  - Adult patients with unresectable or metastatic HER2-positive breast cancer who have received a prior anti-HER2-based regimen either in the metastatic setting or in the neoadjuvant or adjuvant setting and have developed disease recurrence during or within six months of completing therapy.
  - Adult patients with unresectable or metastatic HER2-low (IHC 1+ or IHC 2+/ISH-) breast cancer who have received a prior chemotherapy in the metastatic setting or developed disease recurrence during or within 6 months of completing adjuvant chemotherapy.
  - Adult patients with unresectable or metastatic hormone receptor (HR)-positive, HER2-low (IHC 1+ or IHC 2+/ISH-) or HER2-ultralow (IHC 0 with membrane staining) breast cancer that has progressed on one or more endocrine therapies in the metastatic setting.
  - Adult patients with unresectable or metastatic non-small cell lung cancer (NSCLC) whose tumors have activating HER2 (ERBB2) mutations, as detected by an FDA-approved test, and who have received a prior systemic therapy.
  - The treatment of adult patients with locally advanced or metastatic HER2-positive gastric or gastroesophageal junction adenocarcinoma who have received a prior trastuzumab-based regimen.
  - Adult patients with unresectable or metastatic HER2-positive (IHC 3+) solid tumors who have received prior systemic treatment and have no satisfactory alternative treatment options
- Per the 2026 NCCN guidelines for breast cancer, define HER2-positive breast cancer as:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Tumors with an IHC of 3+, OR
  - ISH positive by any of the following:
  - Single probe average HER2 copy number greater than or equal to 6.0 signals/cell, OR
  - Dual probe HER2/CEP17 ratio greater than or equal to 2.0, OR
  - Dual probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell

- Safety and efficacy for use as neoadjuvant treatment of adult patients with HER2-positive stage II or III breast cancer were evaluated in the DESTINY-Breast11 trial, a phase III randomized, three-arm, open-label, multicenter, global study of 927 adult patients with HER2-positive, high-risk, early-stage breast cancer. Patients were excluded from the study if they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. Patients were also excluded if they had a left ventricular ejection fraction less than 50%. Treatment was continued until completion of planned therapy, unacceptable toxicity, or disease progression. The primary endpoint was pathological complete response (pCR) rate, defined as the absence of invasive cancer in the breast and axillary lymph nodes following surgery. Enhertu followed by a taxane, trastuzumab, and pertuzumab (THP) as a neoadjuvant treatment demonstrated a pCR rate of 67.3% compared with 56.3% for dose-dense doxorubicin and cyclophosphamide followed by THP [ddAC-THP], an improvement of 11.2% (95% CI: 3.9, 18.3; p-value = 0.003). At the time of the pCR analysis, 29 patients (4.5%) had event-free survival (EFS) events, and 12 patients (1.9%) had overall survival (OS) events.

- Safety and efficacy for use as adjuvant treatment of adult patients with HER2-positive breast cancer who have residual invasive disease following neoadjuvant trastuzumab (with or without pertuzumab) and taxane-based treatment were evaluated in the DESTINY-Breast05 trial, a phase III, randomized, two-arm, open-label, multicenter, global study of 1635 adult patients with HER2-positive breast cancer with residual invasive disease after neoadjuvant therapy. Patients were excluded from the study if they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. Patients were also excluded if they had a left ventricular ejection fraction less than 50%. Treatment was continued until completion of planned therapy, unacceptable toxicity, or disease progression. The primary endpoint was invasive disease-free survival (IDFS), defined as the time from randomization to first occurrence of ipsilateral local or regional invasive breast cancer recurrence, distant recurrence, contralateral invasive breast cancer or death from any cause. .Enhertu as an adjuvant treatment reduced the risk of IDFS by 53% compared to trastuzumab emtansine (T-DM1) in patients with HER2-positive breast cancer with residual invasive disease following neoadjuvant therapy (hazard ratio [HR]: 0.47; 95% CI: 0.34, 0.66; p-value < 0.0001). At three years, 92.4% of patients in the Enhertu arm were alive and free of invasive disease, compared with 83.7% of those in the T-DM1 arm, with 51 (6%) events in the Enhertu arm and 102 (12%) in the T-DM1 arm.

- Safety and efficacy for use in metastatic HER2-positive breast cancer previously treated with two or more anti-HER2 therapies were evaluated in the phase II DESTINY-Breast01 trial, an open-label, single-arm study involved 184 women. All patients had been previously treated with Kadcyla. Patients were excluded from the study if they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. Patients were also excluded if they had a left ventricular ejection fraction less than 50%. The primary endpoint was the confirmed objective response rate (ORR). A response to therapy was reported in 112 patients (60.9%; 95% confidence interval [CI]: 53.4 to 68.0). The median duration of follow-up was 11.1 months

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(range 0.7 to 19.9). The median response duration was 14.8 months (95% CI: 13.8 to 16.9), and the median duration of progression-free survival was 16.4 months (95% CI: 12.7 to not reached).

- The 2026 National Comprehensive Cancer Network (NCCN) breast cancer treatment guidelines recommend Enhertu as second-line therapy for unresectable or metastatic breast cancer and for use as first-line therapy in situations where there has been rapid progression within 6 months following adjuvant or neoadjuvant therapy or within 12 months for those on a pertuzumab-containing regimen. The addition to the guidelines was based on the DESTINY-Breast03 trial, a randomized phase 3 study comparing safety and efficacy of Enhertu to Kadcyla® in 524 patients with HER2+ metastatic breast cancer who were previously treated with trastuzumab and a taxane. The primary endpoint was progression-free survival (PFS). The hazard ratio in progression-free survival was 0.28. Overall survival had a hazard ratio of 0.56 and p-value = 0.007. The 12-month overall survival rate was 94% with Enhertu versus 86% for Kadcyla. There was an objective response rate in 80% of patients receiving Enhertu and 34% on Kadcyla. Only 1.1% of patients had progressive disease as best response.

- Safety and efficacy for use in unresectable or metastatic HER2-low breast cancer were evaluated in the phase III DESTINY-Breast04 trial, a randomized, two-group, open-label trial study of 557 adult patients with unresectable or metastatic HER2-low breast cancer. The study included 2 cohorts: 494 hormone receptor-positive (HR+) patients and 63 hormone receptor-negative (HR-) patients. HER2-low expression was defined as IHC 1+ or IHC 2+ with a negative ISH. Patients must have received chemotherapy in the metastatic setting or have developed disease recurrence during or within 6 months of completing adjuvant chemotherapy. Patients who were HR+ must have received at least one endocrine therapy or be ineligible for endocrine therapy. Treatment was administered until disease progression, death, withdrawal of consent, or unacceptable toxicity. The study excluded patients with a history of interstitial lung disease (ILD) or pneumonitis requiring treatment with steroids or ILD/pneumonitis at screening and clinically significant cardiac disease. The primary endpoint was PFS. Among all patients, the median PFS was 9.9 months (95% CI: 9.0, 11.3) in the Enhertu group and 5.1 months (95% CI: 4.2, 6.8) in the physician's choice group (hazard ratio for disease progression or death 0.50; 95% CI: 0.40, 0.63; p-value <0.001). A consistent benefit was observed for Enhertu across all analyzed subgroups.

- Safety and efficacy for use in unresectable or metastatic NSCLC whose tumors have activating HER2 (ERBB2) mutations were evaluated in the DESTINY-Lung02 trial, a multicenter, multi-cohort, randomized, blinded, dose-optimization study of 52 patients with unresectable or metastatic HER2-mutant non-squamous NSCLC with disease progression after one prior systemic therapy. Patients with a history of steroid dependent ILD/pneumonitis, clinically significant cardiac disease, clinically active brain metastases, and ECOG performance status greater than 1 were excluded. Patients received Enhertu 5.4 mg/kg by intravenous infusion every 3 weeks until disease progression or unacceptable toxicity. The primary endpoint was confirmed ORR. An interim efficacy analysis in a pre-specified patient cohort showed Enhertu demonstrated a confirmed ORR of 57.7% (95% CI: 43.2, 71.3). Complete responses (CR) were seen in 1.9% of patients and partial responses (PR) in 55.8% of patients with a median DoR of 8.7 months (95% CI: 7.1 - NE).

- Safety and efficacy for use in metastatic locally advanced or metastatic HER2-positive gastric or gastroesophageal junction adenocarcinoma were evaluated in the phase II DESTINY-Gastric01 trial, a randomized, open-label study of a total of 188 patients who had progressed on at least two prior regimens, including trastuzumab. Patients were excluded from the study if they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. Patients were also excluded if they had a left ventricular ejection fraction less than 50%. The primary endpoint was the confirmed ORR. Patients treated with Enhertu had a longer median overall survival (12.5 months vs. 8.4 months) and a higher confirmed overall response rate (40.5% vs. 11.3%) compared with the other arms. Results for progression-free survival (median, 5.6 months vs. 3.5 months) and duration of response (median, 11.3 months vs. 3.9 months) also favored the Enhertu group.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy for use in metastatic HER2-positive solid tumors were established in three clinical trials of 192 total patients with previously treated unresectable/metastatic HER2-positive (IHC3+) solid tumors: DESTINY-PanTumor02, DESTINY-Lung01, and DESTINY-CRC02. DESTINY-PanTumor02 involved patients with different types of solid tumors, whereas DESTINY-Lung01 enrolled patients with lung cancer and DESTINY-CRC02 patients with colorectal cancer. Patients must have been previously treated and have no other satisfactory treatment options available prior to Enhertu use. All three studies excluded patients if they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. The primary endpoint was the objective response rate (ORR). Median duration of response (DOR) also was evaluated. DESTINY-PanTumor02 subjects has an ORR of 51.4% and DOR of 19.4 months. There was a 52.9% ORR and 6.9 month DOR for DESTINY-Lung02. DESTINY-CRC02 has an ORR of 46.9% and DOR of 5.5 months.

- Safety and efficacy for use in HER-2 low or ultralow breast cancer were evaluated in the phase III DESTINY-Breast06 trial which enrolled 866 patients with HER-2 low or ultralow breast cancer who had received one or more lines of endocrine-based therapy and no previous chemotherapy for metastatic breast cancer. Patients must never have had breast cancer diagnosed as HER2-positive and must not have been previously treated with any anti-HER2 therapy. Subjects were excluded is they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. The primary endpoint was progression free survival (PFS). Among the patients with HER2-low disease, the median PFS was 13.2 months (95% CI: 11.4, 15.2) in the Enhertu group and 8.1 months (95% CI: 7.0, 9.0) in the chemotherapy group (HR for disease progression or death = 0.62; 95% CI: 0.52, 0.75; p-value < 0.001); the results were consistent in the exploratory HER2-ultralow population.

- Safety and efficacy for use as first-line therapy in combination with pertuzumab as first-line treatment of adult patients with unresectable or metastatic HER2-positive breast cancer were evaluated in the DESTINY-Breast09 trial, a randomized, three-arm, multicenter, global study that enrolled 1157 adult patients with HER2-positive advanced, or metastatic breast cancer who had not received prior chemotherapy or HER2-targeted therapy or had received neoadjuvant or adjuvant HER2-targeted therapy more than 6 months before the diagnosis of advanced or metastatic disease. Subjects were excluded is they had a history of noninfectious interstitial lung disease or pneumonitis resulting in the use of glucocorticoids or current or suspected interstitial lung disease or pneumonitis. Patients were also excluded if they had a symptomatic brain metastases, an ECOG performance status greater than 1, and a history of clinically significant cardiac disease. The primary endpoint was PFS. Additional efficacy outcome measures were overall survival (OS) and confirmed objective response rate (ORR). The trial demonstrated statistically significant improvement in PFS for patients randomized to Enhertu in combination with pertuzumab compared to taxane plus traztuzumab and pertuzumab therapy.

References:

1. Enhertu [prescribing information]. Basking Ridge, NJ: Daiichi Sankyo, Inc.; May 2026.
2. Modi S, Saura C, Yamashita T, et al. Trastuzumab deruxtecan in previously treated HER2-positive breast cancer. NEJM. 2019; 382 (7): 610 – 21.
3. Shitara K, Bang YJ, Iwasa S, et al. Trastuzumab deruxtecan in previously treated HER2-positive gastric cancer. NEJM. 2020 Jun 18; 382 (25): 2419 - 30.
4. National Comprehensive Cancer Network. Breast cancer (Version 3.2026). 2026 May 8. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on May 19,2026.
5. National Comprehensive Cancer Network. Gastric cancer (Vercion 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed on May 19, 2026.
6. Curigliano G & Criscitiello C. Updated data from DESTINY-Breast03 in HER2+ mbc. 2021 Nov 15. Available at: https://www.onclive.com/view/updated-data-from-destiny-breast03-in-her2-mbc. Accessed on February 14, 2022.
7. Modi S, Jacot W, Yamashita T, et al. Trastuzumab deruxtecan in previously treated HER2-low advanced breast cancer. NEJM. 2022 Jul 7; 387 (1): 9 - 20.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 5.2026). 2026 March 13. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on May 19,2026.
9. Clinicaltrials.gov. Trastuzumab deruxtecan in participants with HER2-mutated metastatic non-small cell lung cancer (DESTINY-LUNG02) (NCT04644237). Available at: https://clinicaltrials.gov/ct2/show/NCT04644237. Accessed on August 16, 2022.
10. Clinicaltrials.gov. DS-8201a in human epidermal growth factor receptor 2 (HER2)-expressing or -mutated non-small cell lung cancer (DESTINY-Lung01) (NCT03505710). Available at: https://clinicaltrials.gov/ct2/show/NCT03505710. Accessed on August 16, 2022.
11. Clinicaltrials.gov. Trastuzumab deruxtecan in participants with HER2-overexpressing advanced or metastatic colorectal cancer (DESTINY-CRC02) (NCT04744831). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04744831. Accessed on April 9, 2024.
12. Li BT, Smit EF, Goto Y, et al. Trastuzumab deruxtecan in HER2-mutant non-small-cell lung cancer. NEJM. 2022 Jan 20; 386 (3): 241 - 51.
13. Bardia A, Hu X, Dent R, et al. Trastuzumab deruxtecan after endocrine therapy in metastatic breast cancer. NEJM. 2024 Sept 14; 391: 2110 – 22.
14. Harbeck N, Modi S, Puszta L, et al. Neoadjuvant trastuzumab deruxtecan alone or followed by paclitaxel, trastuzumab, and pertuzumab for high-risk HER2-positive early breast cancer (DESTINY-Breast11): a randomised, open-label, multicentre, phase III trial. Ann Onc. 2026 Feb; 37 (2): 166 – 79.
15. Loibl S, Park YH, Shaoet Z, et al. Trastuzumab deruxtecan in residual HER2-positive early breast cancer. NEJM. 2026; 394 (9): 845 – 57.

Policy History		
#	Date	Change Description
2.3	Effective Date: 06/11/2026	Updated to include new indications for early breast cancer
2.2	Effective Date: 02/12/2026	Updated to include the new indication for use as first-line therapy in combination with Perjeta for unresectable or metastatic HER2-positive breast cancer
2.1	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to include the new indication for use in unresectable or metastatic HER-2 low or ultralow breast cancer
2.0	Effective Date: 06/06/2024	Updated to include the new indication for use in unresectable or metastatic HER2-positive (IHC 3+) solid tumors
1.9	Effective Date: 04/11/2024	Updated to include recurrent HER2-positive gastric or gastroesophageal junction adenocarcinoma, require Enhertu is used as subsequent therapy, and to remove the requirement that the patient does not have interstitial lung disease or pneumonitis
1.8	Effective Date: 04/06/2023	Updated approval length to allow authorization for at least 60 days
1.7	Effective Date: 10/06/2022	Updated to include the new indications for use in HER2 low breast cancer and NSCLC
1.6	Effective Date: 04/14/2022	Updated to allow use as second-line therapy in unresectable or metastatic breast cancer or as first- line therapy in patients with rapid progression following adjuvant or neoadjuvant therapy for breast cancer which is allowed per the NCCN guidelines andto update approval length to allow for FDA recommended dosing or up to 6 months at a time

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 04/08/2021</td><td>Updated to include the new indication of locally advanced or metastatic HER2-positive gastric or gastroesophageal junction adenocarcinoma</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/04/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.3</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 04/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/02/2020</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/06/2020</td><td>New full drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Enjaymo™ (sutimlimab)
HCPCS: J1302

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Enjaymo is a classical complement inhibitor indicated for the treatment of hemolysis in adults with cold agglutinin disease (CAD).

- CAD is a type of autoimmune hemolytic anemia characterized by the premature destruction of RBCs. The antibodies that cause CAD activate hemolysis at cold temperatures, usually 37° to 39° Fahrenheit. Most cases of CAD are due to immunoglobulin M (IgM) antibodies. CAD affects approximately one person per million every year and is prevalent in about 16 people per million. CAD typically develops between the ages of 40 to 80 years. In the United States, the estimated prevalence of primary CAD is around 5,000 cases. Symptoms include fatigue, weakness, pallor, dizziness, palpitations, dyspnea, jaundice, and discoloration of digits, ankles, or wrists.

- Enjaymo is an immunoglobulin G 4 (IgG4) monoclonal antibody that inhibits the classical complement pathway. Inhibition of the classical complement pathway prevents deposition of complement opsonins (extracelluarl proteins that induce phagocytosis) on the surface of RBCs, resulting in inhibition of hemolysis in patients with CAD.

- The First International Consensus Group of experts representing autoimmune hemolytic anemia (AIHA) centers, registries, and study groups have developed recommendations for the diagnosis and management of AIHA (2020). Recommendations includes, but is not limited to, the following:

    - A diagnosis of CAD is defined by chronic hemolysis and a cold agglutinin titer level of ≥64.

    - Patients whose Hgb is >10 g/dL are usually not recommended treatment, except in the presence of significant comorbidities such as ischemic cardiomyopathy and chronic obstructive pulmonary disease that would reduce oxygen delivery to the tissues unrelated to the oxygen-carrying capacity of the blood.

    - For asymptomatic patients, watchful waiting with supportive care only is recommended.

    - For symptomatic patients:

        - First-line treatment: rituximab alone or in combination with bendamustine depending on the severity of CAD and the presence of contraindications to cytotoxic therapies.

        - Second-line treatment: rituximab + bendamustine (if not administered in the first line or if ≥2 years have passed since response to prior combination treatment), rituximab monotherapy (if patient previously responded for ≥1 year) as repeat courses is often effective in relapsed disease.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Although there are no randomized trials and no formal approval of any chemoimmunotherapy in CAD, remission after B cell–directed treatment has been confirmed in several systematic studies.

  - Treatment with rituximab + fludarabine or botezomib alone are listed as alternative treatment options. However, use is limited due to toxicity or limited evidence.

- Treatment goals include, but are not limited to, an increase in hemoglobin levels in patients with symptom-producing anemia, decrease in transfusions or achievement of transfusion independency, resolution of disabling cold-induced circulatory symptoms. All treatment should aim at an improved quality of life.

- Enjaymo was approved in February 2022 based on positive results from a 26-week open label, single arm Phase III study (CARDINAL; NCT03347396) in 24 patients with CAD with a recent history of transfusion. The results showed 54% of participants responded to Enjaymo, defined in the study as a hemoglobin ≥ 12 g/dL or an increase of at least 2 g/dL; patients remaining transfusion-free after week five, and patients did not use other CAD-related treatments.

- As of February 2023, there are now 2.5 years of data available to inform the safety and efficacy of Enjaymo. After completion of the initial 26-week study period in the CARDINAL trial (Part A), participants were allowed to enter the two-year extension period (Part B). 19 out of the 22 original trial participants completed Part B of the open-label study. Results demonstrated that Enjaymo maintained hemoglobin levels higher than 11 g/dL and led to a sustained normalization of hemolysis markers thoughout the study. Additionally, 68% of patients enrolled in Part B remained transfusion-free through the two-year treatment period.

- Enjaymo received an expanded indication in January 2023 to treat hemolysis in adults with CAD without a recent history of transfusion, in addition to its original indication to treat hemolysis in adults with CAD with a recent history of transfusion. Approval of the expanded indication was based on positive results from a 26-week, randomized, placebo controlled Phase III study (CADENZA, NCT03347422) in 42 patients with CAD without a recent history of transfusion. The results showed that 73% and 15% of participants who received Enjaymo and the placebo, respectively, achieved the primary endpoint, defined as an increase in hemoglobin from baseline by at least 1.5 g/dL at Weeks 23, 25 and 26, and the absence of blood transfusions and avoidance of CAD medications from Week 5 to Week 26 of the study.

- Enjaymo offers a novel mechanism of action, substantial efficacy, and a favorable safety profile for adults with CAD. Without long term data and data comparing it to use of the guideline-recommended options with an established track record of safety and efficacy along with the probable need for indefinite treatment duration, it is unknown whether Enjaymo is a superior treatment option at this time.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Enjaymo [prescribing information]. Waltham, MA: Bioverativ; February 2024.
2. Drug manufacturer press release. Available at: FDA approves Enjaymo™ (sutimlimab-jome), first treatment for use in patients with cold agglutinin disease - Sanofi. Accessed February 5, 2022.
3. Jäger, U., Barcellini, W., et al. (2020). "Diagnosis and treatment of autoimmune hemolytic anemia in adults: Recommendations from the First International Consensus Meeting." Blood Rev 41: 100648
4. Röth A, Barcellini W, D'Sa S, et al. Inhibition of complement C1s with sutimlimab in patients with cold agglutinin disease (CAD): interim results of the phase 3 CARDINAL study long-term follow-up. Blood. 2020;136(Suppl 1):24-25.
5. Röth A, Barcellini W, D'Sa S, et al. Complement C1s inhibition with sutimlimab results in durable response in cold agglutinin disease: CARDINAL study 1-year interim follow-up results. Haematologica. 2022 Feb 17.
6. Express Scripts Drug Evaluation: Enjaymo™ (sutimlimab-jome intravenous infusion – Bioverativ/Sanofi). March 2022.
7. IPD Analytics. Enjaymo (sutimlimab-jome). New Drug Approval Review. March 2022. Accessed March 8, 2022. https://www.ipdanalytics.com.
8. Berentsen S. How I treat cold agglutinin disease. Blood. 2021;137(10):1295-1303.
9. Berentsen S, Randen U, Oksman M, et al. Bendamustine plus rituximab for chronic cold agglutinin disease: results of a Nordic prospective multicenter trial. Blood. 2017;130(4):537-541.
10. Berentsen S, Fattizzo B, Barcellini W. The choice of new treatments in autoimmune hemolytic anemia: how to pick from the basket? Front Immunol. 2023 Apr 24;14:1180509. doi: 10.3389/fimmu.2023.1180509. PMID: 37168855; PMCID: PMC10165002.

Policy History		
#	Date	Change Description
1.8	Effective Date: 04/16/2026	Annual review – no changes made to existing criteria
1.7	Effective Date: 04/10/2025	Annual review – no changes made to existing criteria
1.6	Effective Date: 04/11/2024	Annual review – No changes made to existing criteria
1.5	Effective Date: 04/06/2023	Annual review – No changes made to existing criteria
1.4	Effective Date: 04/14/2022	New policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 03/17/2022</td><td>UM medical management system update for BCBSM and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 03/07/2022</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.0</td><td>Effective Date: 10/08/2020</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Entyvio® IV (vedolizumab)
HCPCS: J3380

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Entyvio is an integrin receptor antagonist indicated for:
  - Adults with moderately to severely active ulcerative colitis (IV/subcutaneous)
  - Adults with moderately to severely active Crohn's disease (IV/subcutaneous)
- Entyvio is initiated via intravenous (IV) infusion for two doses. Entyvio is available as a subcutaneous injection (prefilled syringe and pen) and a patient may self-inject or a caregiver may inject after proper training on correct subcutaneous injection technique. Clinical reasons a patient may be unable to self-administer Entyvio include:
  - Patient or caregivers are unable to perform SC injections with proper technique.
  - Member requires monthly medical support from the physician
- Crohn's disease (CD)
  - Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.
  - The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.
  - Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

- A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

- Ulcerative Colitis (UC)

  - Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

  - The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

  - The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

  - The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Entyvio [prescribing information]. Deerfield, IL: Takeda Pharmaceuticals; September 2023.
2. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
3. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
4. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
5. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448

Policy History		
#	Date	Change Description
2.7	Effective Date: 07/01/2026 P&T Date: 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.
2.6	Effective Date: 11/24/2025 P&T Date: 10/09/2025	Added criteria requiring member to self-administer unless clinically unable to do so
2.5	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
2.4	Effective Date: 12/14/2023	Updated to include Entyvio SQ, FDA approved indication, and update the trial and failure preferred verbiage to reference pharmacy and medical benefit
2.3	Effective Date: 11/23/2023	UM medical management system update for BCBS and BCN for Entyvio SQ
2.2	Effective Date: 12/01/2022	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 12/09/2021	Removed FDA approved indications criteria
2.0	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications.
1.9	Effective Date: 04/16/2020	Addition of preferred therapy verbiage

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.8	Effective Date: 11/07/2019	Annual Review of Medical Policy
1.7	Effective Date: 11/01/2018	Took out step of TNF agents and added the following criteria: Not on concurrent treatment with a biologic response modifier (example: TNFs, natalizumab)
1.6	Effective Date: 08/09/2018	Updated policy to include preferred infliximab product verbiage
1.5	Effective Date: 02/08/2018	Annual Review of Medical Policy
1.4	Effective Date: 02/09/2017	Annual Review of Policy
1.3	Effective Date: 01/01/2016	Document updated with specified drugs required
1.2	Effective Date: 02/01/2015	UM medical management system update for BCN for Entyvio IV
1.1	Effective Date: 01/01/2015	UM medical management system update for BCBS for Entyvio IV
1.0	Effective Date: 10/30/2014	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Enzyme Replacement Therapy for Fabry Disease

Elfabrio® (pegunigalsidase alfa-iwxj) **- HCPCS: J2508**
Fabrazyme® (agalsidase beta) **- HCPCS: J0180**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Fabry's disease (FD) is autosomal recessive lysosomal storage disorder caused by a mutation on the GLA gene. It is characterized by lysosomal accumulation of undegraded glycosphingolipid due to a deficiency or insufficient activity of the enzyme α-galactosidase. Phenotypes vary from the "classic" phenotype, with pediatric onset and multi-organ involvement, to later-onset, a predominantly cardiac phenotype. While it was once thought females were asymptomatic carriers, it is now known they can develop a variety of symptoms later in life than their homozygous male counterparts. The most common symptoms include hearing loss, myocardial microvascular ischemia, dysrhythmias, hypertrophic cardiomyopathy, valvular insufficiency, gastrointestinal symptoms, hypohidrosis, temperature and exercise intolerance, dysregulation of vascular tone and autonomic functions, obstructive lung disease, progressive renal insufficiency leading to kidney failure, and increased risk of cerebrovascular accidents and myocardial infarctions.

- The American College of Medical Genetics 2011 guidelines state FD is confirmed differently for males and females. Males should first be tested for reduced α-galactosidase activity in peripheral leukocytes or skin fibroblasts. If the enzyme activity test comes back with decreased activity, disease is then verified though genetic testing that shows the patient has a mutation of the GLA gene. Enzyme activity does not often correlate to disease symptoms or severity in heterozygous females. Therefore, when confirming disease in female patients, enzyme activity testing can be waived and genetic testing completed as the initial and only required diagnostic component.

- Enzyme replacement is the standard of care in FD. Fabrazyme is approved for patients aged 2 years and older with FD. Elfabrio is approved for adult patients with confirmed FD.

- There are no uniform recommendations as to when enzyme replacement therapy (ERT) should be started. Typically, males who present with classic disease should be started on prophylactic ERT at time of diagnosis even if they are not presenting with symptoms. Classic disease has little to no enzyme activity on serum assay (< 1% of the normal mean) with symptoms presenting as listed above. For female carriers and males with atypical disease, ERT should be held until patients become symptomatic. There is no data showing benefit of prophylactic therapy in these patients and some will not develop any disease manifestations.

- Fabrazyme, Elfabrio, and Galafold®, a pharmacological chaperone, have not been studied in any combination and there is no clinical data to support better patient outcomes with use of any of the drugs at the same time.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Fabrazyme [prescribing information]. Cambridge, MA: Genzyme Corporation; July 2024.
2. Elfabrio [prescribing information]. Cary, NC: Chiesi USA, Inc.; June 2024.
3. Galafold [prescribing information]. Cranbury, NJ: Amicus Therapeutics U.S., Inc.; October 2024.
4. Lidove O, West ML, Pintos-Morell G, et al. Effects of enzyme replacement therapy in Fabry disease – a comprehensive review of the medical literature. Genet in Med. 2010 Nov; 12 (11): 668 - 79.
5. Wang RW, Bodamer OA, Watson MS, et al. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genetic Med. 2011 May; 13 (3): 457 – 84.
6. Laney DA, Bennett RL, Clarke V, et al. Fabry disease practice guidelines: recommendations of the national society of genetic counselors. J Gene Couns. 2013 Oct; 22 (5): 555 – 64.
7. Ortiz A, Germain DP, Desnick RJ, et al. Fabry disease revisited: management and treatment recommendations for adult patients. Molecular Gene Met. 2018 April; 123 (4): 416 – 27.
8. Hopkins RJ, Jefferies JL, Laney DA, et al. The management and treatment of children with fabry disease: a united states-based perspective. Molecular Gene Met. 2016 Feb; 117 (2): 104 – 13.
9. Eng CM, Germain DP, Banikazemi M, et al. Fabry disease: guidelines for the evaluation and management of multi-organ system involvement. Genet Med. 2006 Sept; 8 (9): 539 - 48.
10. Biegstraaten M, Arngrímsson R, Barbey F, at al. Recommendations for initiation and cessation of enzyme replacement therapy in patients with Fabry disease: the european fabry working group consensus document. Orphanet J Rare Dis. 2015 Mar 27; 10: 36 - 46.
11. Wanner C, Arad M, Baron R, at al. European expert consensus statement on therapeutic goals in Fabry disease. Mole Gene Met. 2018 July; 124 (3): 189 – 203.

Policy History		
#	Date	Change Description
2.1	Effective Date: 08/13/2026	Annual review – no changes to the criteria at this time
2.0	Effective Date: 08/07/2025	Updated to remove the step through Fabrazyme prior to Elfabrio
1.9	Effective Date: 06/05/2025	Annual review – no changes to the criteria at this time
1.8	Effective Date: 06/06/2024	Annual review – no changes to the criteria at this time

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.7	Effective Date: 08/14/2023	UM medical management system update for BCNA and MAPPO for Elfabrio
1.6	Effective Date: 06/08/2023	Updated to include Elfabrio and changed the name from Fabrazyme to Enzyme Replacement Therapy for Fabry Disease UM medical management system update for BCN and BCBS for Elfabrio
1.5	Effective Date: 10/06/2022	Annual review – no changes to the criteria at this time
1.4	Effective Date: 10/07/2021	Annual review of policy. No changes were made to the criteria
1.3	Effective Date: 10/08/2020	New policy created for this disease state and class of drugs. The Enzyme Replacement Therapy policy will be retired
1.2	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Fabrazyme
1.1	Effective Date: 02/01/2015	UM medical management system update for BCN for Fabrazyme
1.0	Effective Date: 01/01/2015	UM medical management system update for BCBS for Fabrazyme

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Enzyme Replacement Therapy for Gaucher's Disease

Cerezyme® (imiglucerase) **- HCPCS: J1786**
Elelyso® (taliglucerase) **- HCPCS: J3060**
Vpriv® (velaglucerase alfa) **- HCPCS: J3385**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Gaucher's disease (GD) is an autosomal recessive lysosomal storage disorder caused by a mutation on the gene glucocerebrosidase 1. It is characterized by lysosomal accumulation of undegraded glucosylceramide due to a deficiency or insufficient activity of the enzyme glucocerebrosidase. There are three main disease variants with type 1 being considered non-neuronopathic and the least severe. Signs, symptoms, and severity vary greatly among patients with type 1 GD. The most common symptoms include anemia, thrombocytopenia, bone disease, including bone abnormalities and osteopenia/osteoporosis, and hepatosplenomegaly.

- The American College of Medical Genetics 2011 guidelines state Gaucher's disease is confirmed through identifying reduced glucocerebrosidase activity in peripheral leukocytes or skin fibroblasts and through genetic testing that shows the patient has two pathogenic mutations of the glucocerebrosidase gene.

- Enzyme replacement is the standard of care in GD. Three enzyme replacement therapies are FDA approved for long-term enzyme replacement in type 1 Gaucher's disease: Cerezyme, Elelyso, and Vpriv. Elelyso and Vpriv are approved for patients aged 4 years and older and Cerezyme for patients 2 years and older. Guidelines do not recommend the use of one enzyme replacement therapy over another.

- Treatment should be initiated when two of the following symptoms are present: hepatomegaly, splenomegaly, interstitial lung disease, pulmonary hypertension, anemia, thrombocytopenia, bony pain crisis, osteopenia, aseptic necrosis of the femoral head, bony lytic lesions, bony infarctions, or pathologic fractures. Symptom improvement is typically seen within 1 year from the start of therapy for major peripheral symptoms. Bone abnormalities may take up to several years to respond to therapy.

- Decisions regarding dose management should be made by physicians who are experienced in caring for patients with Gaucher's disease with the deciding factor for dosing being the achievement of therapeutic goals. Dose reductions can occur once significant improvements are achieved and maintained for at least a year. Patients with severe manifestations are not recommended to have dose reductions after initial improvement. Adult patients at increased risk who have achieved all therapeutic goals can have the dose decreased in small increments (approx. 15% - 20%) until their next scheduled evaluation in 3 - 6 months. These adult patients and all children are not recommended to have a long-term maintenance dose less than 30 U/kg every 2 weeks. Lower-risk adult patients may tolerate larger dose reductions of 25% - 50% per dose. The minimum long-term dose for lower-risk adults is recommended to be no less than 20 U/kg every 2 weeks.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Cerezyme [prescribing information]. Cambridge, MA: Genzyme Corporation; December 2024.
2. Elelyso [prescribing information]. New York, NY: Pfizer, Inc.; January 2025.
3. Vpriv [prescribing information]. Lexington, MA: Shire Human Genetic Therapies, Inc.; September 2024.
4. Weinreb N et al. A benchmark analysis of the achievement of therapeutic goals for type 1 Gaucher disease patients treated with imiglucerase. Am J Hematol. 2008; 83(12): 890-95.
5. Gonzalez DE et al. Enzyme replacement therapy with velaglucerase alfa in Gaucher disease: Results from a randomized, double blind, multinational, Phase 3 study. Am J Hematol. 2013; 88(3): 166-71.
6. Weinreb NJ, Aggio MC, Andersson HC, et al. International Collaborative Gaucher Group (ICGG). Gaucher disease type 1: revised recommendations on evaluations and monitoring for adult patients. Semin Hematol. 2004; 41: 15 – 22.
7. Wang RW, Bodamer OA, Watson MS, et al. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genetic Med. 2011 May; 13 (3): 457 – 484.

Policy History		
#	Date	Change Description
1.9	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 10/03/2024	Annual review – no changes to the criteria at this time
1.7	Effective Date: 01/01/2024	UM medical management system removal for MAPPO and BCNA for Cerezyme
1.6	Effective Date: 10/12/2023	Updated to remove prescriber requirements
1.5	Effective Date: 10/06/2022	Annual review – no changes to the criteria at this time
1.4	Effective Date: 10/07/2021	Annual review – no changes to the criteria at this time
1.3	Effective Date: 10/08/2020	New policy created for this disease state and class of drugs. The Enzyme Replacement Therapy policy will be retired
1.2	Effective Date: 07/05/2017	UM medical management system update for the following drugs to MAPPO and BCNA: Cerezyme, Elelyso, and VPriv

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.1	Effective Date: 02/01/2015	UM medical management system update for the following drugs for BCN: Cerazyme, Elelyso, and VPriv
1.0	Effective Date: 01/01/2015	UM medical management system update for the following drugs for BCBS: Cerazyme, Elelyso, and VPriv

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Enzyme Replacement Therapy for Mucopolysaccharidosis (MPS)

Aldurazyme® (laronidase) **- HCPCS: J1931**
Avlayah™ (tividenofusp alfa-eknm) **- HCPCS: J3590**
Elaprase® (idursulfase) **- HCPCS: J1743**
Mepsevii™ (vestronidase alfa-vjbk) **- HCPCS: J3397**
Naglazyme® (galsulfase) **- HCPCS: J1458**
Vimizim™ (elosulfase alfa) **- HCPCS: J1322**

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- The mucopolysaccharidoses (MPS) are lysosomal storage disorders caused by the deficiency of enzymes required for the stepwise breakdown of glycosaminoglycans (GAGs). All of the MPS subtypes are autosomal recessive disorders, with the exception of MPS II, which is X-linked. The phenotype of these disorders covers a broad spectrum, from mild to severe. In general, the severity depends upon the quantity of residual enzyme, which is related to the genotype of the affected patient. The MPS disorders are differentiated clinically by their clinical features and age of presentation and biochemically by their associated enzyme deficiency.

- MPS type I (Hurler syndrome, Hurler-Scheie syndrome, or Scheie syndrome)

    - MPS type I is autosomal recessive lysosomal storage disorder caused by a mutation on the gene IDUA. It is characterized by lysosomal accumulation of undegraded heparan and dermatan sulfate due to a deficiency or insufficient activity of the enzyme α-L-iduronidase. There are three main disease variants: Hurler, the most severe with early onset and neurocognitive regression, Hurler-Scheie, the form with intermediate onset and severity, and Scheie, the most mild of the subtypes. Signs, symptoms, and severity vary greatly among MPS type I patients. The most common symptoms include hepatosplenomegaly, hernias, neurocognitive and developmental issues in the more severe forms, cervical spinal cord compression, corneal clouding, open-angle glaucoma, valvular dysplasia and insufficiency, carpal tunnel, short stature, and osteopenia/osteoporosis.

    - The American College of Medical Genetics 2011 guidelines state MPS type I is confirmed through serum assay showing a decrease of α-L-iduronidase activity. Once shown the patient has a decrease in enzyme activity, a genetic test should be performed which should show a mutation in the IDUA gene. Both tests must be demonstrative of disease for the diagnosis to be confirmed.

    - Enzyme replacement (ERT) and stem cell transplant (SCT) are the only treatment options for MPS type I. Aldurazyme is the only FDA-approved ERT for MPS type I. It is approved for adult and pediatric patients with Hurler and Hurler-Scheie forms of MPS type I and for patients with the Scheie form who have moderate to severe symptoms. ERT should be initiated on the judgement of the treating physician and can be held in milder disease until a more significant clinical picture presents. If patients are found to have severe disease or are at risk for neurocognitive decline, they should be assessed for SCT. Patients should be reassessed every 3 months and if the physician starts to see developmental delays, skeletal manifestations, or severe organomegaly, SCT should be considered at that time.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- MPS type II (Hunter syndrome)
    - MPS type II is a X-linked recessive lysosomal storage disorder caused by a mutation on the I2S gene. It is characterized by lysosomal accumulation of undegraded heparan and dermatan sulfate due to a deficiency of the enzyme iduronate-2-sulfatase. Signs, symptoms, and severity can vary greatly among MPS type II patients due to the multisystem nature of the disease. The most common symptoms include coarsened facial features, an enlarged head, an enlarged tongue, hypertrophic tonsils and adenoids, irregularly shaped teeth, recurrent otitis media, hepatosplenomegaly, abdominal and/or inguinal hernias, thickened pebbled skin, and short stature.
    - The American College of Medical Genetics 2011 guidelines state MPS type II should be confirmed through serum assay showing a decrease of iduronate-2-sulfatase activity. Once shown that the patient has a decrease in enzyme activity, a genetic test should be performed which should show a mutation in the I2S gene. Both tests must be demonstrative of disease for the diagnosis to be confirmed.
    - Enzyme replacement is the standard of care in MPS type II. Elaprase was the first FDA-approved ERT for patients with MPS type II. Safety and efficacy have not been established in patients younger than 16 months of age. Avlayah was the second FDA-approved ERT and is indicated for the treatment of neurologic manifestations of the disease when initiated in presymptomatic or symptomatic pediatric patients weighing at least 5 kg prior to advanced neurologic impairment. Initiation of ERT should be done based on the judgement of the treating physician.
- MPS type IVA (Morquio A syndrome)
    - MPS type IVA is an autosomal recessive lysosomal storage disorder caused by a mutation on the GALNS gene. It is characterized by lysosomal accumulation of keratan sulfate and chondroitin-6-sulfate due to a deficiency of the enzyme N-acetyl-galactosamine-6-sulfatase. Symptoms include growth delays, a prominent lower face, kyphoscoliosis or concern for a spine abnormality, an abnormally short neck, knees that are abnormally close together, flat feet, abnormal development of the growing ends of the long bones, hip dislocation, arthritis, and/or a prominent breast bone.
    - MPS type IVA diagnosis is suggested by the findings of medical history, physical examinations, skeletal X-rays, and urine GAG analysis. Excessive amounts of keratan sulfate will usually be present in the urine. Diagnosis is confirmed by low N-acetyl-galactosamine-6-sulfatase activity in cultured blood or skin cells and/or molecular genetic testing to identify *GALNS* gene mutations.
    - Vimizim is the only FDA-approved ERT for patients with MPS type IVA. Safety and efficacy have not been established in patients younger than 5 years of age. Initiation of ERT should be done based on the judgement of the treating physician. All other therapies are symptomatic and supportive.
- MPS type VI (Maroteaux-Lamy syndrome)
    - MPS type VI is an autosomal recessive lysosomal storage disorder caused by a mutation on the ARSB gene. It is characterized by lysosomal accumulation of undegraded dermatan sulfate due to a deficiency of the enzyme N-acetylgalactosamine-4-sulfatase. Age of presentation and velocity of disease progression are variable but affected patients typically come to medical attention at 6 – 24 months of age. The most common symptoms include deceleration of growth velocity, macrocephaly, macroglossia, facial coarsening, hepatosplenomegaly, progressive corneal clouding, open-angle glaucoma, skeletal abnormalities, painful hip dysplasia, restriction in joint mobility, cardiac valvular dysfunction, recurrent otitis media, conductive hearing loss, and upper airway obstruction.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The American College of Medical Genetics 2011 guidelines state MPS type VI should be confirmed through serum assay showing a decrease of N-acetylgalactosamine-4-sulfatase activity. Once shown the patient has a decrease in enzyme activity, a genetic test should be performed which should show a mutation in the ARSB gene. Both tests must be demonstrative of disease for the diagnosis to be confirmed.

- ERT and SCT are the only treatment options for MPS type VI. Naglazyme is the only FDA approved ERT for MPS type VI. It has been studied in patients 3 months of age and older. Families should be counselled on both treatment choices. If ERT is the modality of choice, it should be started immediately.

- MPS type VII (Sly syndrome)

- MPS type VII is an autosomal recessive lysosomal storage disorder caused by a mutation on the GUSB gene. It is characterized by lysosomal accumulation of undegraded dermatan sulfate, chondroitin-4,6-sulfate, and heparan sulfate due to a deficiency of the enzyme β-glucuronidase. Signs, symptoms, and severity can vary among MPS type VII patients. The most severe cases are characterized by hydrops fetalis which can result in stillbirth or death shortly after birth. More mild cases start to present in early childhood with the most common symptoms including short trunk, growth disability, short trunk dwarfism, macrocephalic head, short neck, dysostosis multiplex, coarse facial appearance, cloudy corneas, developmental delays in language and speech, hepatosplenomegaly, hearing loss, hernias, thickening of the soft tissues of the throat, abnormally large tongue, and heart problems.

    - MPS type VII diagnosis is suggested by the findings of medical history and urine GAG analysis. Excessive amounts of dermatan sulfate, chondroitin-4,6-sulfate, and heparan sulfate will usually be present in the urine. Diagnosis is confirmed by low β-glucuronidase activity in cultured blood or skin cells and/or molecular genetic testing to identify GUSB gene mutations.

    - Mepsevii is the only FDA-approved ERT for use in pediatric and adult patients for the treatment of MPS type VII. Safety and efficacy have been established in patients younger than 18 months of age. All other therapies are symptomatic and supportive.

- The enzyme replacement therapies have not been studied in any combination and there is no clinical data to support better patient outcomes with use of any of the drugs at the same time.

References:

1. Aldurazyme [prescribing information]. Cambridge, MA: Genzyme, Corporation; December 2023.
2. Elaprase [prescribing information]. Lexington, MA: Shire Human Genetics Therapies, Inc.; February 2025.
3. Vimizim [prescribing information]. Novato, CA: BioMarin Pharmaceuticals, Inc.; Ocotober 2025.
4. Naglazyme [prescribing information]. Novato, CA: BioMarin Pharmaceuticals, Inc.; September 2024.
5. Mepsevii [prescribing information]. Novato, CA: Ultragenyx Pharmaceuticals, Inc.; December 2020.
6. Avlayah [prescribing information]. South San Francisco, CA: Denali Therapeutics Inc.; March 2026.
7. Lehman TJ, Miller N, Norquist B, et al. Diagnosis of the mucopolysaccharidosis. Rheumatology. 2011; 50: v41 – v48.
8. Valayannaopoulos V & Wijburg F. Therapy for mucopolysaccharidosis. Rheumatology. 2011 Dec 1; 50 (Suppl 5): v49 - v59.
9. Cimaz R & La Torre F. Mucopolysaccharidoses. Curr Rheumatol Rep. 2014; 16 (389): 1 - 9.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

10. Clinicaltrials.gov. A randomized, placebo-controlled, blind-start, single-crossover phase 3 study to assess the efficacy and safety of UX003 rhGUS enzyme replacement therapy in patients with MPS 7 (NCT02230566). Available at: https://clinicaltrials.gov/ct2/show/NCT02230566. Accessed on June 29, 2020.
11. Clinicaltrials.gov. A randomized, placebo-controlled, blind-start, single-crossover phase 3 study to assess the efficacy and safety of UX003 rhGUS enzyme replacement therapy in patients with MPS 7 (NCT02230566). Available at: https://clinicaltrials.gov/ct2/show/NCT02230566. Accessed on June 29, 2020.
12. Clinicaltrials.gov. An open-label phase 1/2 study to assess the safety, efficacy, and dose of UX003 rhGUS enzyme replacement therapy in patients with mucopolysaccharidosis type 7 (MPS 7) (NCT01856218). Available at: https://clinicaltrials.gov/ct2/show/NCT01856218. Accessed on June 29, 2020.
13. Montaño AM, Lock-hock N, Steiner RD, et al. Clinical course of sly syndrome (mucopolysaccharidosis type VII). J Med Genet. 2016; 53 (6): 403-18.
14. National Organization for Rare Disorders. Mucopolysaccharidosis Type VII. Available at: https://rarediseases.org/rare-diseases/sly-syndrome. Accessed on November 21, 2017.
15. Wang RW, Bodamer OA, Watson MS, et al. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genetic Med. 2011 May; 13 (3): 457 – 484.
16. Scarpa M, Almássy Z, Beck M, et al. Mucopolysaccharidosis type II: European recommendations for the diagnosis and multidisciplinary management of a rare disease. Orphanet J of Rare Dis. 2011; 6: 72 – 90.
17. National Organization for Rare Disorders. Mucopolysaccharidosis IV. 2019. Available at: https://rarediseases.org/rare-diseases/morquio-syndrome/. Accessed on June 29, 2020.
18. Tomatsu S, Yasuda E, Patel P, et al. Morquio a syndrome: diagnosis and current and future therapies. Pediatr Endocrinol Rev. 2014 Sep; 12 (1): 141 – 51.
19. National Organization for Rare Disorders. Mucopolysaccharidosis Type VII. 2017. Available at: https://rarediseases.org/rare-diseases/sly-syndrome/. Accessed on June 29, 2020.

Policy History		
#	Date	Change Description
2.4	Effective Date: 06/11/2026	Updated to include Avlayah and add the requirement that the enzyme replacement therapies not be used in combination with those for the same subtype
2.3	Effective Date: 05/01/2026	UM medical management system update for MAPPO and BCNA for Avlayah
2.2	Effective Date: 04/06/2026	UM medical management system update for BCBS and BCN for Avlayah
2.1	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 10/03/2024	Annual review – no changes to the criteria at this time
1.9	Effective Date: 10/12/2023	Updated to remove prescriber requirement
1.8	Effective Date: 10/06/2022	Annual review – no changes to the criteria at this time
1.7	Effective Date:	Annual review – no changes to the criteria at this time

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	10/07/2021	
1.6	Effective Date: 10/08/2020	New policy created for this disease state and class of drugs. The Enzyme Replacement Therapy policy will be retired
1.5	Effective Date: 06/03/2019	UM medical management system update for Mepsevii for BCNA and MAPPO
1.4	Effective Date: 03/01/2018	PA added to Mepsevii for BCBSM and BCN
1.3	Effective Date: 07/05/2017	UM medical management system update for the following drugs to MAPPO and BCNA: Aldurazyme, Elaprase, Naglazyme, and Vimizim
1.2	Effective Date: 07/01/2015	UM medical management system update for the following drugs for BCN: Aldurazyme and Naglazyme
1.1	Effective Date: 02/01/2015	UM medical management system update for the following drugs for BCN: Elaprase and Vimizim
1.0	Effective Date: 01/01/2015	UM medical management system update for BCBS: Aldurazyme, Elaprase, Naglazyme, and Vimizim

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Enzyme Replacement Therapy for Pompe Disease

Lumizyme® (alglucosidase alfa) **- HCPCS: J0221**
Nexviazyme® (avalglucosidase alfa-ngpt) **- HCPCS: J0219**
Pombiliti™ (cipaglucosidase alfa-atga) **- HCPCS: J1202**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Pompe disease (PD) is an autosomal recessive lysosomal storage disorder caused by a mutation on the GAA gene. It is characterized by lysosomal accumulation of undegraded glycogen due to a deficiency or insufficient activity of the enzyme acid α-glucosidase. All patients with PD have variable but progressive, skeletal, heart, and smooth muscle issues with resulting organ damage and ultimately organ failure. The disease is classified as either infantile-onset or late-onset. Patients with infantile-onset PD present around 3 months of age with progressive left ventricular hypertrophy and generalized muscular hypotonia and typically die within the first year of life because of cardiorespiratory failure. They may also experience macroglossia, hepatosplenomegaly, and feeding difficulties. Late-onset PD can present at any age and is characterized by a slowly progressive myopathy predominantly involving skeletal muscle. Symptoms include progressive muscle weakness of the proximal lower limbs and the paraspinal muscles, respiratory failure, frequent upper airway infections, orthopnea, sleep apnea, and morning headaches.

- The American College of Medical Genetics 2011 guidelines state Pompe disease is confirmed through serum assay showing a decrease of acid α-glucosidase enzyme activity. Once shown the patient has a decrease in enzyme activity, a genetic test should be performed which should show a mutation in the GAA gene. Both tests must be demonstrative of disease for the diagnosis to be confirmed.

- Enzyme replacement therapy (ERT) is the standard of care in PD. Lumizyme, Nexviazyme, and Pombiliti are the ERT's approved for use in PD. While Lumizyme is approved for both infantile-onset and late-onset disease, Nexviazyme and Pombiliti are only indicated for use in late-onset PD. Pombiliti must be used in combination with Opfolda and only after the patient has not had improvement on their current ERT.

- Initiation of therapy should begin at the time of diagnosis for patients with infantile disease. ERT can be held in late-onset patients with patients being observed every 6 – 12 months until the time the monitoring physician feels it is appropriate to start therapy. Studies have been conducted assessing the efficacy of ERT on cardiac symptoms in late-onset patients. Cardiovascular parameters were not impacted by use of ERT and therefore should not be the only presenting symptom when therapy is started.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Lumizyme [prescribing information]. Cambridge, MA: Genzyme Corporation; March 2024.
2. Nexviazyme [prescribing information]. Cambridge, MA: Genzyme Corporation; September 2023.
3. Pombiliti [prescribing information]. Philadelphia, PA: Amicus Therapeutics US, LLC; July 2024.
4. Wang RW, Bodamer OA, Watson MS, et al. Lysosomal storage diseases: diagnostic confirmation and management of presymptomatic individuals. Genetic Med. 2011 May; 13 (3): 457 – 84.
5. Cupler EJ, Berger KI, Leshner RT, et al. Consensus treatment recommendations for late-onset Pompe disease. Muscle Nerve. 2012; 45: 319 – 33.
6. Kishnani PS, Steiner RD, Bali D, et al. Pompe disease diagnosis and management guideline. Genetic Med. 2006 May; 8 (5): 267 – 88.
7. Forsha D, Li JS, Smith B, et al. Cardiovascular abnormalities in late onset Pompe disease and response to enzyme replacement therapy. Genet Med. 2011 Jul; 13 (7): 625 – 31.
8. Schoser B, Roberts M, Byrne BJ, et al. Safety and efficacy of cipaglucosidase alfa plus miglustat versus alglucosidase alfa plus placebo in late-onset Pompe disease (PROPEL): an international, randomised, double-blind, parallel-group, phase 3 trial. Lancet Neurol. 2021 Dec; 20 (12): 1027 - 37.

Policy History		
#	Date	Change Description
2.3	Effective Date: 12/4/2025	Annual review of criteria was performed, no changes were made
2.2	Effective Date: 12/12/2024	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 02/12/2024	UM medical management system update for MAPPO and BCNA for Pombiliti
2.0	Effective Date: 12/14/2023	Updated to include Pombiliti
1.9	Effective Date: 10/19/2023	UM medical management system update for BCBS and BCN for Pombiliti
1.8	Effective Date: 10/12/2023	Updated to remove prescriber requirement
1.7	Effective Date: 10/06/2022	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 10/07/2021	Updated to include Nexviazyme and name changed from Lumizyme to the Enzyme Replacement for Pompe Disease Policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.5	Effective Date: 09/16/2021	UM medical management system update for BCN and BCBS for Nexviazyme
1.4	Effective Date: 09/01/2021	UM medical management system update for BCNA and MAPPO for Nexviazyme
1.3	Effective Date: 10/08/2020	New policy created for this drug. The Enzyme Replacement Therapy policy will be retired
1.2	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Lumizyme
1.1	Effective Date: 07/01/2015	UM medical management system update for BCN for Lumizyme
1.0	Effective Date: 01/01/2015	UM medical management system update for BCBS for Lumizyme

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Epkinly™ (epcoritamab-bysp)
HCPCS: J9321

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Epkinly is a bispecific CD20-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL), not otherwise specified, including DLBCL arising from indolent lymphoma, and high-grade B-cell lymphoma after two or more lines of systemic therapy and adult patients with relapsed or refractory follicular lymphoma (FL) after two or more lines of systemic therapy.

- Safety and efficacy were evaluated in the nEPCORE NHL-1 study, an open-label, multi-cohort, multicenter, single-arm trial in 157 patients with relapsed or refractory large B-cell lymphoma (LBCL) and 127 patients with relapsed or refractory FL after two or more lines of systemic therapy, which included at least one therapy containing an anti-CD20 monoclonal antibody. Patients were required to have failed at least two prior lines of therapy one of which was an anti-CD20 antibody containing regimen. Subjects also must have either failed prior autologous hematopoietic stem cell transplantation (HSCT) or be ineligible for autologous stem cell transplantation due to comorbidities or age, have CD20 positive disease, measurable disease, and an ECOG score of 0 – 2. Those who had a prior allogenic stem cell transplant were ineligible for study inclusion. Patients were also excluded from the trial if creatinine clearance was greater than 45 mL/min; alanine aminotransferase was less than 3 times the upper limit of normal; they had known active CNS involvement of lymphoma; there was an infection that was uncontrolled or required IV or long-term oral antimicrobial therapy; or they could not have HIV infection or hepatitis B or C virus infection if the viral load was detectable. Those with myocardial infarction, cardiac angioplasty or stenting, unstable angina, or New York Heart Association Class II or greater congestive heart failure events within 6 months of study entry were not enrolled in the trial. The primary outcomes were overall response rate (ORR) and duration of response (DOR). Overall response rate in patients with relapsed or refractory DLBCL was 68% (95% CI: 45, 86), with 45% achieving a complete response. The median time to response was 1.4 months (range: 1 to 8.4 months). Among responders, the median follow-up for DOR was 9.8 months (range: 0.0 to 17.3 months). In those with FL, the OOR was 82% (95% CI: 74.1, 88.2) with 60% achieving a complete response. The median follow-up for DOR was 14.8 months with over half of the patients remaining responsive to treatment.

- Due to the risk of cytokine release syndrome and immune effector cell-associated neurotoxicity syndrome (ICANS), Epkinly should be administered in an inpatient setting during cycle 1, day 15.

- Epkinly has not been studied when given following prior treatment with Epkinly or following any other bispecific CD20-directed CD3 T-cell engager therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Epkinly [prescribing information]. Plainsboro, NJ: Genmab US, Inc.; November 2025.
2. Hutchings M, Mous R, Roost Clausen M, et al. Dose escalation of subcutaneous epcoritamab in patients with relapsed or refractory B-cell non-Hodgkin lymphoma: an open-label, phase 1/2 study. Lancet. 2021 Sept 8; 398 (10306): 1157 – 69.
3. Clinicaltrials.gov. Study of subcutaneous epcoritamab in combination with intravenous rituximab and oral lenalidomide (R2) to assess adverse events and change in disease activity in adult participants with follicular lymphoma (EPCORE FL-1) (NCT05409066). Available at: https://clinicaltrials.gov/study/NCT05409066#participation-criteria. Accessed on December 1, 2025.
4. National Comprehensive Cancer Network. B-cell lymphomas (Version 3.2025). 2025 August 18. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on December 1, 2025.

Policy History		
#	Date	Change Description
1.5	Effective Date: 10/09/2025	Updated to include the new FDA approved indication for use in combination with lenalidomide and rituximab for the treatment of adult patients with relapsed or refractory follicular lymphoma
1.4	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 10/03/2024	Updated to remove the following requirements: failure of prior autologous HSCT or be ineligible for autologous stem cell transplantation due to comorbidities or age, measurable disease, ECOG status, kidney function; liver function, no prior allogenic SCT, no known active CNS involvement of lymphoma, no infection that is uncontrolled or requires IV or long-term oral antimicrobial therapy, no HIV infection; hepatitis B or C virus infection permitted only if viral load undetectable, and no myocardial infarction, cardiac angioplasty or stenting, unstable angina, or New York Heart Association Class II or greater congestive heart failure events within 6 months
1.2	Effective Date: 08/08/2024	Updated to include the new indication of relapsed or refractory follicular lymphoma and remove the requirement that the disease is CD20 positive

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 03/01/2024</td><td>UM medical management system update for BCNA, MAPPO, BCN, and BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/10/2023</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Evenity® (romosozumab-aqqg)
HCPCS: J3111

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Evenity is indicated for the treatment of osteoporosis in postmenopausal women at high risk for fracture, defined as a history of osteoporotic fracture, multiple risk factors for fracture, or patients who have failed or are intolerant to other available osteoporosis therapy.

- Approximately 54 million people in the United States have osteoporosis or another form of low bone mass. Breakdown of bone structure may be the result of natural aging and calcium deficiency (e.g., senile osteoporosis) or due to hormonal changes as in post-menopause. The decrease in bone mass and deterioration of bone tissue in osteoporosis can result in bone fragility and potential for fractures. Fractures related to osteoporosis and bone loss are a concern because of the high morbidity and mortality rate and economic burden. The National Osteoporosis Foundation estimates that 1 in 2 women and 1 in 4 men over 50 years of age will break a bone as a result of osteoporosis, resulting in $19 billion in related costs every 2 years and 2 million broken bones.

- The American Association for Clinical Endocrinology (AACE)/American College of Endocrinology (ACE) Clinical Practice Guidelines for the Diagnosis and Treatment of Postmenopausal Osteoporosis (2020) consider a diagnosis of osteoporosis and recommend pharmacologic therapy for the following clinical scenarios:

    - Presence or history of fragility fractures in the absence of other metabolic bone disorders, even in those with normal bone mineral density (BMD) as measured by axial dual-energy X-ray absorptiometry (DXA) scan

    - T-score of -2.5 or lower in the lumbar spine, femoral neck, total hip, or 1/3 radius; measured by DXA scan

    - T-score between -1.0 and -2.5 and if the FRAX® (fracture risk assessment tool) 10-year probability for major osteoporotic fracture is ≥20% or the 10-year probability of hip fracture is ≥3% in the United States or above the country-specific threshold in other countries or regions

        - The FRAX® tool (www.shef.ac.uk/FRAX) was developed by the World Health Organization (WHO) to evaluate fracture risk of patients. It integrates clinical risk factors with BMD at the femoral neck. The FRAX® tool provides the 10-year probability of fracture. The output is a 10-year probability of hip fracture and a 10-year probability of major osteoporotic fracture (forearm, shoulder, or clinical vertebral fracture).

- AACE/ACE guidelines separate patients with osteoporosis into two categories – high risk or very high risk. Patients who have had a recent fracture (e.g., within the past 12 months), fractures while on approved osteoporosis therapy, multiple fractures, fractures while on drugs causing skeletal harm (e.g., long-term glucocorticoids), very

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

low T-score (e.g., less than − 3.0), high risk for falls or history of injurious falls, and very high fracture probability by FRAX® (e.g., major osteoporosis fracture > 30%, hip fracture > 4.5%) or other validated fracture risk algorithm should be considered to be at very high fracture risk. All other patients who have been diagnosed with osteoporosis but are not at very high fracture risk, as defined above, are considered to be high risk.

- The Endocrine Society 2020 Guidelines for the Pharmacological Management of Osteoporosis in Postmenopausal Women separate patients into 4 categories. Their high risk and very high risk categories align with those defined by the AACE/ACE guidelines. However, they also identify patients as low risk if they have no prior hip or spine fractures, a BMD T-score at the hip and spine both above −1.0, a 10-year hip fracture risk < 3%, and 10-year risk of major osteoporotic fractures < 20% or moderate risk when they have no prior hip or spine fractures, a BMD T-score at the hip and spine both above −2.5, and 10-year hip fracture risk < 3% or risk of major osteoporotic fractures < 20%.

- AACE/ACE guidelines recommend bisphosphonates (alendronate, risedronate, IV zoledronate) and Prolia (denosumab) the initial treatment option for patients with high-risk osteoporosis without prior fracture. Bisphosphonates decrease the breakdown of the bone (antiresorptive) and have been shown to increase BMD and reduce the incidence of fractures in patients with osteoporosis. Contraindications to bisphosphonates include hypocalcemia and severe renal impairment. In addition, oral bisphosphonates are contraindicated in patients with the inability to stand or sit upright for at least 30 minutes and may not be an appropriate option in patients with underlying gastrointestinal issues. However, use of an IV bisphosphonate is still appropriate in these situations. Prolia (denosumab) is another antiresorptive therapy that prevents the interaction of receptor activator of nuclear factor-kB ligand (RANKL) with its receptor on osteoclasts and osteoclast precursors and reversibly inhibits osteoclast-mediated bone resorption.

- AACE/ACE guidelines include evidence supporting superiority of certain antiresorptive agents (Prolia and IV zoledronate) and anabolic agents (Evenity, Tymlos®, and Forteo®) over oral bisphosphonates for individuals who are unable to use oral bisphosphonates and as initial therapy or for individuals with osteoporosis who are at very high risk for fracture. These guidelines do not give preference to one therapy over another.

- The Endocrine Society guidelines recommend initial treatment of patients at moderate risk with bisphosphonates (oral or IV) as initial therapy. For patients in the high to very high risk categories, the treatment algorithm recommends bisphosphonates, denosumab, teriparatide, abaloparatide, or romosuzumab all with adjunct calcium and vitamin D therapy as their treatment options.

- Guidelines recommend sequential treatment with antiresorptive osteoporosis therapies to maintain BMD gains and reduce fracture risk after completing a course of treatment with anabolic drugs.

- Until the effect of combination therapy on fracture risk is better understood, the AACE does not recommend concomitant use of FDA approved osteoporosis agents for the prevention or treatment of postmenopausal osteoporosis.

- Guidelines also do not recommend use of one anabolic agent over another as there is insufficient evidence to establish one as safer or more effective than another.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The goal of monitoring osteoporosis is to identify those who have significant bone loss. AACE recommends repeat DXA scan every 1 to 2 years after initiation of therapy until BMD is stable. Bone turnover markers (BTMs) are also useful for assessing patient compliance and efficacy of therapy. Reductions in BTMs are conferred by antiresorptive therapy and are associated with fracture reduction. Significant increases in BTMs indicate good response to anabolic therapy.

- Evenity is limited to a 12 month duration of treatment. After 12 monthly doses, the anabolic effect of Evenity wanes, which is the reason for the duration limit. If osteoporosis therapy is still necessary, continued treatment with an antiresorptive agent should be considered (e.g., a bisphosphonate).

References:

1. Forteo [prescribing information]. Indianapolis, IN: Eli Lilly; July 2024.
2. Teriparatide [prescribing information]. Morristown, NJ: Alvogen; November 2023.
3. Tymlos [prescribing information]. Waltham, MA: Radius Health; December 2023.
4. Evenity [package insert]. Thousand Oaks, CA: Amgen; April 2020.
5. Bisphosphonates. Facts and Comparisons. 2020. Available from Wolters Kluwer Health, Inc.
6. Humphrey, M, Russell L, et al. 2022 American College of Rheumatology Guideline for the Prevention and Treatment of Glucocorticoid-Induced Osteoporosis. Arthritis Care & Research. 2023;2088-2102.
7. Shoback D, Rosen C, Black D et al. Pharmacological Management of Osteoporosis in Postmenopausal Women: An Endocrine Society Guideline Update, The Journal of Clinical Endocrinology & Metabolism, Volume 105, Issue 3, March 2020, dgaa048, https://doi.org/10.1210/clinem/dgaa048.
8. Camacho PM, Petak SM, Binkley N, et al. American Association of Clinical Endocrinologists/American College of Endocrinology Clinical Practice Guidelines for the Diagnosis and Treatment of Postmenopausal Osteoporosis-2020 Update. Endocrine practice : official journal of the American College of Endocrinology and the American Association of Clinical Endocrinologists. 2020;26:1-46.
9. Prolia [prescribing information]. Thousand Oaks, CA: Amgen; March 2024.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.0</td><td>Effective Date:
04/16/2026</td><td>Annual review - no changes made to existing criteria</td></tr>
<tr><td>1.9</td><td>Effective Date:
05/27/2025

P&T Date:
04/10/2025</td><td>Updated to define osteoporosis, add step for patients who are high-risk thru a bisphosphonate and Prolia, add a step for patients who are very high risk thru zoledronate or denosumab product if zoledronate is contraindicated and defined very high risk, and removed specific timeline for trial of bisphosphonates</td></tr>
<tr><td>1.8</td><td>Effective Date:
04/11/2024</td><td>Annual review - no changes made to existing criteria</td></tr>
<tr><td>1.7</td><td>Effective Date:
04/06/2023</td><td>Annual review – No changes made to existing criteria</td></tr>
<tr><td>1.6</td><td>Effective Date:
04/14/2022</td><td>Updated to allow for clinical situations where patients are not required to use bisphosphonates as first line treatment</td></tr>
<tr><td>1.5</td><td>Effective Date:
10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.4</td><td>Effective Date:
10/08/2020</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.3</td><td>Effective Date:
11/07/2019</td><td>Policy update: trial and failure of oral and IV bisphosphonate, not to be used with other anabolic agents or denosumab</td></tr>
<tr><td>1.2</td><td>11/01/2019</td><td>UM medical management system update for MAPPO and BCNA

<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date:
08/01/2019</td><td>UM medical management system update for BCBSM
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date:
06/01/2019</td><td>UM medical management system update for BCN
New full drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Evkeeza™ (evinacumab-dgnb)
HCPCS: J1305

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Homozygous familial hypercholesterolemia (HoFH) is an ultra-rare inherited disease affecting approximately 1,300 patients in the United States. Patients with HoFH have mutations in the LDL receptor that result in virtually absent or impaired receptor-mediated catabolism of LDL cholesterol (LDL-C), leading to severely elevated LDL-C levels (> 400 mg/dL) and a lack of responsiveness to standard lipid-lowering therapies. Persistently elevated LDL-C increases the risk of premature atherosclerotic cardiovascular disease (ASCVD) and cardiac events in HoFH patients, often manifesting as early as the teenage years.

- HoFH can be diagnosed via genetic testing for causative mutations in the *LDLR*, *APOB*, and *PCSK9* genes, with *LDLR* mutations being the most common. Clinical diagnosis of HoFH can also be made in patients with an untreated LDL-C > 500 mg/dL or treated LDL-C ≥ 300 mg/dL, plus one of the following: cutaneous or tendon xanthoma prior to 10 years of age, or elevated LDL-C levels in both parents consistent with heterozygous familial hypercholesterolemia (HeFH). Of note, untreated LDL-C < 500 mg/dL may be present in some patients with HoFH; this may particularly be the case in young children and would warrant consideration of genetic testing to confirm or clarify the diagnosis.

- The 2026 guideline on the management of dyslipidemia, a report of the American College of Cardiology (ACC) and American Heart Association (AHA) joint committee on clinical practice guidelines, recommends treatment with maximally tolerated statin therapy for adults with clinical or genetic confirmation of HoFH to reduce risk of atherosclerotic cardiovascular disease (ASCVD). High intensity statins (atorvastatin 40 mg – 80 mg and rosuvastatin 20 mg – 40 mg) are expected to lower LDL-C by at least 50% and in clinical trials have been shown to provide greater ASCVD risk reduction than moderate intensity statins or placebo.

- If with a high-intensity statin the patient experiences statin-associated side effects that are not severe (e.g., myalgias), the statin dose can be reduced or alternate statins can be trialed with the ultimate goal of treating with a guideline-recommended maximally tolerated statin. There are a variety of generically available statins that can be dosed at different intensities or dosing regimens to help mitigate bothersome side effects; therefore, it is reasonable to require a trial of at least two statins in patients experiencing statin-associated side effects. Patients who experience more severe side effects with statin therapy (e.g. rhabdomyolysis) or recurrent statin-associated muscle symptoms despite multiple statin rechallenge attempts may need to discontinue statin use and transition to non-statin therapy that has been shown to provide clinical benefit.

- Due to the very high ASCVD risk in adults with HoFH and early occurrence of first major adverse cardiovascular event (MACE), aggressive LDL-C lowering is reasonable upon diagnosis; therefore, the addition of ezetimibe and/or PCSK9 monoclonal antibodies (i.e., Repatha® (evolocumab), Praluent® (alirocumab)) to maximally tolerated statin therapy may occur early on to lower LDL-C. If LDL-C levels remain ≥ 100 mg/dL despite maximally tolerated statin therapy, the 2026 guidelines recommend the addition of ezetimibe, PCSK9 monoclonal antibodies, and/or bempedoic acid to lower LDL-C. The preference of which agent to add may be influenced by the desired amount of LDL-C-lowering. Adding ezetimibe to statin therapy can lower LDL-C by an additional 13-20% while adding PCSK9 monoclonal antibodies may offer additional LDL-C reduction ranging from 43-64%.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In adults with HoFH and an LDL -C ≥100 mg/dL despite maximally tolerated statins and the addition of ezetimibe and PCSK9 monoclonal antibodies, specialized therapies like Evkeeza, lomitapide, or LDL apheresis may be warranted to control LDL-C and, referral to a lipid specialist may be considered.

- For children and adolescents 8 years of age and older with an LDL-C ≥ 160 mg/dL and a clinical presentation consistent with familial hypercholesterolemia who do not respond adequately to 3 to 6 months of lifestyle therapy, the 2026 guidelines suggest initiation of a statin and other lipid-lowering therapies as necessary to lower LDL-C. Statins and other lipid-lowering therapies may be considered at younger ages (6 years) or at lower LDL-C cutpoints in the presence of concerning family history, extremely elevated LDL-C, pathogenic genetic variants, or other risk conditions. Statin treatment intensity in children should be individualized to the child based on the severity of hypercholesterolemia and the needs of the child/family.

- Non-statin therapies approved for HoFH in children and adolescents include ezetimibe (10 years and older), Repatha (evolocumab; 10 years and older), and Evkeeza (evinacumab-dgnb).

- Evkeeza is a novel therapy for the treatment of HoFH, approved as an adjunct to other LDL-C-lowering therapies for both adults and pediatric patients 1 year of age and older. It is the first FDA-approved treatment that binds to and blocks angiopoietin-like 3 (ANGPTL3), a protein that aids in lipid metabolism. Due to the mutations affecting LDL receptor function, patients with HoFH are often less responsive or unresponsive to standard lipid-lowering therapies (e.g. statins, PCSK9 inhibitors) whose mechanism of action largely depend on up-regulating LDL receptor function. By inhibiting ANGPTL3, Evkeeza is able to significantly reduce LDL-C levels independent of LDL receptor function.

- The Phase III ELIPSE HoFH trial demonstrated that Evkeeza, when taken in addition to other lipid-lowering therapies (including maximally tolerated statins, PCSK9 inhibitors, ezetimibe, lomitapide, and LDL apheresis), reduced LDL-C by a statistically significant 49% after 24 weeks compared to a 2% increase with lipid-lowering therapies alone (placebo) in patients with HoFH. Similar LDL-C lowering effects were observed in even the most difficult-to-treat patients who were unresponsive to other therapies due to limited or absent LDL receptor function.

- Of note, the safety and efficacy of Evkeeza have not been established in patients with other causes of hypercholesterolemia, including heterozygous familial hypercholesterolemia (HeFH). Additionally, the effects of Evkeeza on cardiovascular morbidity and mortality have not yet been determined; however, it has been established that lowering LDL-C confers a lowered cardiovascular risk that is proportional to the reduction in LDL-C levels.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Blumenthal RS, Morris PB, Gaudino M, Johnson HM, Anderson TS, Bittner VA, Blankstein R, Brewer LC, Cho L, de Ferranti SD, Gianos E, Gluckman TJ, Gradney K, Isiadinso I, Lloyd-Jones DM, Marrs JC, Martin SS, McLain KH, Mehta LS, Mora S, Mulugeta WM, Natarajan P, Navar AM, Orringer CE, Polonsky TS, Reynolds HR, Saseen JJ, Shapiro MD, Soffer DE, Tynes SA, Villavaso CD, Virani SS, Wilkins JT. 2026 ACC/AHA/AACVPR/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA guideline on the management of dyslipidemia: a report of the American College of Cardiology/American Heart Association Joint Committee on Clinical Practice Guidelines. J Am Coll Cardiol. 2026
2. Bouhairie VE and Goldberg AC. Familial Hypercholesterolemia. Cardiol Clin. 2015 May; 33(2): 169-179. doi: 10.1016/j.ccl.2015.01.001.
3. De Ferranti SD. Familial hypercholesterolemia in children. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.
4. Evkeeza [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals Inc; September 2025.
5. Grundy SM, et al. 2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA Guideline on the Management of Blood Cholesterol: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. JACC Vol. 73, No. 24. 2019: e285-e350. https://doi.org/10.1016/j.jacc.2018.11.003.
6. Praluent [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals Inc.; October 2025.
7. Raal FJ et al. Evinacumab for Homozygous Familial Hypercholesterolemia. N Engl J Med 2020; 383: 711-20.
8. Raal FJ et al. Familial hypercholesterolemia treatments: Guidelines and new therapies. Atherosclerosis 277 (2018) 483-492.
9. Repatha [prescribing information]. Thousand Oaks, CA: Amgen Inc; August 2025.
10. Rosenson RS and Durrington P. Familial hypercholesterolemia in adults: Overview. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.
11. Rosenson RS and Durrington P. Familial hypercholesterolemia in adults: Treatment. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.
12. Warden BA and Dell PB. Real-world evaluation of bempedoic acid use in patients with homozygous familial hypercholesterolemia. J of Clin Lipidology; 20 (1), 2026: 96-1003. https://doi.org/10.1016/j.jacl.2025.10.065

Policy History		
#	Date	Change Description
2.0	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
1.9	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 06/08/2023	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/09/2022	Removed criteria requiring trial and failure of a preferred PCSK9 inhibitor; will leverage trial and failure of preferred criteria (bullet f) instead for flexibility
1.5	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 06/22/2021</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 05/03/2021</td><td>UM medical management system update for BCBSM
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 04/08/2021</td><td>New Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 04/05/2021</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/03/2020</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Exdensur™ (depemokimab-ulaa)

HCPCS: J2361

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Exdensur is indicated for add-on maintenance treatment of severe asthma characterized by an eosinophilic phenotype in adult and pediatric patients aged 12 years and older.
    - Limitations of Use: Not for relief of acute bronchospasm or status asthmaticus.
- Severe asthma is defined as asthma that requires treatment with medium- to high-dose inhaled corticosteroids plus a second therapy (i.e., systemic corticosteroid or biologic) to prevent it from becoming uncontrolled, or which remains uncontrolled despite therapy. Type 2 inflammation is the underlying cause of pathology in more than 80% of patients with severe asthma, in which patients exhibit elevated levels of eosinophils. Around 4-10% of the 25+ million Americans with asthma have severe asthma with a suggestion that around 700,000 U.S. individuals would be eligible for a biologic, though actual use is lower.

- The 2025 Global Strategy for Asthma Management and Prevention (GINA guidelines 2025), which has not been updated to include Exdensur at this time, recommends add-on biologic therapy for patients with uncontrolled severe asthma despite optimized maximal therapy and includes:

    - Add-on anti-immunoglobulin E (anti-IgE) (subcutaneous (SC) omalizumab) treatment: for patients aged ≥6 years with severe allergic asthma (Evidence A).

    - Add-on anti-IL-5/5R treatment (SC mepolizumab for patients aged ≥6 years; intravenous (IV) reslizumab for ages ≥18 years; or SC benralizumab for ages ≥12 years), with severe eosinophilic asthma (Evidence A).

    - Add-on anti-IL-4Rα treatment (SC dupilumab) for patients aged ≥6 years with severe eosinophilic/Type 2 asthma, or those requiring treatment with maintenance OCS (Evidence A).

    - Add-on anti-thymic stromal lymphopoietin (anti-TSLP) (SC tezepelumab): for patients aged ≥12 years with severe asthma (Evidence A).

- The efficacy of Exdensur for the add-on maintenance treatment of severe asthma characterized by an eosinophilic phenotype was evaluated in 2 replicate, randomized (2:1 to Exdensur or placebo), double-blind, parallel-group, placebo-controlled, multicenter clinical trials (SWIFT-1 and SWIFT-2) of 52 weeks duration. The trials enrolled adult and pediatric patients aged 12 years and older with asthma characterized by an eosinophilic phenotype, defined as a blood eosinophil count ≥150 cells/mcL at screening or ≥300 cells/mcL documented in the year prior to study entry. Patients were required to have 2 or more asthma exacerbations requiring treatment with systemic corticosteroids (SCS) in the prior year while on background asthma therapy consisting of a medium- to high-dose inhaled corticosteroids (ICS) plus at least one additional asthma controller with or without maintenance oral corticosteroids (OCS).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In these studies, Exdensur demonstrated sustained exacerbation reduction with two doses per year versus placebo, both plus standard of care. Treatment with Exdensur resulted in a significant 58% and 48% reduction in the rate of annualized asthma exacerbations (AER; asthma attacks) over 52 weeks from SWIFT-1 and SWIFT-2, respectively (p-value: SWIFT-1 $p<0.001$ and SWIFT-2 $p<0.001$).

- In a secondary endpoint from SWIFT-1 and SWIFT-2, patients treated with Exdensur experienced numerically fewer exacerbations requiring hospitalization and/or emergency department (ED) visits (1% and 4%) compared with placebo (8% and 10%), respectively.

    - A pre-specified pooled analysis of the two trials showed there was a 72% reduction in the annualized rate of clinically significant exacerbations requiring hospitalization and/or ED visits over 52 weeks for Exdensur compared with placebo (p=0.002).

- Across these trials, Exdensur was well-tolerated, with patients experiencing a similar rate and severity of side effects as those receiving placebo.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Exdensur [prescribing information]. Philadelphia, PA: GlaxoSmithKline; December 2025.
2. Global Initiative for Asthma. (2025). Global Strategy for Asthma Management and Prevention, 2025. Updated May 2025. Available from https://www.ginasthma.org/
3. GSK Press Release: Exdensur (depemokimab) approved by US FDA for the treatment of severe asthma | GSK Issued: London, UK. December 16, 2025.
4. Jackson DJ, Wechsler ME, Jackson DJ, et. al. Twice-Yearly Depemokimab in Severe Asthma with an Eosinophilic Phenotype. Published September 9, 2024. N Engl J Med 2024;391:2337-2349. DOI: 10.1056/NEJMoa2406673

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2026</td><td>New policy.</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/02/2026</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 01/07/2026</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Fasenra™ (benralizumab)
HCPCS: J0517

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Fasenra is the third interleukin-5 (IL-5) receptor antagonist indicated for add-on maintenance treatment of patients with severe asthma aged 12 years and older, and with an eosinophilic phenotype. Fasenra is also indicated for the treatment of adult patients with eosinophilic granulomatosis with polyangiitis (EGPA), as well as for the treatment of adult and pediatric patients aged 12 years and older with hypereosinophilic syndrome (HES) without an identifiable non-hematologic secondary cause.

- Eosinophilic asthma is a sub phenotype of severe asthma characterized by elevated sputum and blood eosinophil levels as well as increased asthma severity, atopy, late-onset disease, and steroid refractoriness.

- Severe asthma requires treatment with high dose inhaled corticosteroids (ICS) plus a second controller (and/or systemic corticosteroids) to prevent it from becoming uncontrolled or which remains uncontrolled despite therapy. Add-on treatment for severe asthma include LAMA, leukotriene receptor antagonist (LTRA), low dose azithromycin (adults) and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in the majority of people with severe asthma and is characterized by production of cytokines such as interleukin. Anti-IL5 monoclonal antibodies (Cinqair®, Nucala®, and Fasenra) specifically target formation of eosinophils and depletes blood eosinophil levels.

- The Global Institute for Asthma (GINA) 2023 Difficult-to-Treat & Severe Asthma Diagnosis and Management guidelines recommend those with severe asthma and Type 2 airway inflammation (blood eosinophils ≥ 150/µL and/or fractional exhaled nitric oxide (FeNO) ≥20 ppb and/or sputum eosinophils ≥2%, and/or asthma is clinically allergen driven) first should consider adherence tests and consider increasing the ICS dose for 3-6 months. Add-on Type 2-targeted biologic therapy should be considered for patients with exacerbations or poor symptom control on high dose ICS-LABA. Local payer eligibility criteria and comorbidities should also be considered. Anti-IL5/anti-IL5R, including Fasenra, is appropriate in patients with exacerbations in the last year and blood eosinophils ≥ 150/µL.

- A peripheral blood eosinophil count is an indirect way to estimate airway inflammation. A blood eosinophil count ≥ 300 cells/microliter may help to predict asthmatics who are at increased risk for exacerbations in the next year. Furthermore, a count-response relation exists between blood eosinophil counts and asthma-related outcomes. The European Respiratory Society/American Thoracic Society guidelines from 2020 suggest that treatment of severe asthma be guided by clinical criteria and biomarkers such as blood eosinophil levels or FeNO, rather than by clinical criteria alone. In addition, it also suggests that a blood eosinophil count cut-off point of ≥ 150 cells/microliter can be used to guide anti-IL5 initiation in adult patients with severe asthma and a history of prior asthma exacerbations.

- Approval was based on results from a total of 3 multicenter, randomized, double-blind trials.

  - Two asthma exacerbation trials, SIROCCO (n = 1,204) and CALIMA (n = 1,306), randomized patients 12 to 75 years old with severe asthma not controlled on high dose (medium – high in CALIMA) ICS/LABA therapy to receive Fasenra 30 mg every 4 weeks, Fasenra 30 mg every 8 weeks, and placebo. The addition of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Fasenra 30 mg SC every 8 weeks to current therapy significantly reduced asthma exacerbation rates by 51% in SIROCCO and 28% in CALIMA in patients with baseline blood eosinophil levels ≥ 300 cells/microliter.

- The oral corticosteroid (OCS) reduction study (ZONDA) included 220 patients aged 18 years and older with severe asthma receiving high-dose ICS/LABA and chronic OCS with a baseline blood eosinophil level of ≥ 150 cells/microliter. Significantly more patients receiving Fasenra 30 mg SC every 8 weeks were able to reduce their OCS dose compared to placebo. Patients using Fasenra saw 75% reduction in median daily OCS vs. 25% in the placebo group.

- Review response to biologic therapy after 3-4 months of treatment. If the patient had a good response, the need for each medication should re-evaluated, but do not completely stop inhaled therapy. Consider gradually decreasing or stopping oral steroids first.

- Clinical reasons a patient may be unable to self-administer Fasenra include:

  - Patient or caregivers are unable to perform subcutaneous injections with proper technique

  - Member requires monthly medical support from the physician

- EGPA, formerly known as Churg-Strauss Syndrome, is a rare, immune-mediated inflammatory disease that is caused by inflammation of small to medium-sized blood vessels. It is estimated that 118,000 people throughout the world live with EGPA and approximately 15,000 patients living in the US have EGPA. EGPA can result in damage to multiple organs, including lungs, upper airway, skin, heart, gastrointestinal tract and nerves. The most common symptoms and signs include extreme fatigue, weight loss, muscle and joint pain, rashes, nerve pain, sinus and nasal symptoms, and shortness of breath. Without treatment, the disease may be fatal. Almost half (47%) of patients do not achieve remission with current treatments.

- There are limited treatment options for EGPA. Patients are often treated with chronic high-dose OCS and experience recurrent relapses when attempting to taper off OCS. Nucala is also approved for EGPA.

- Antineutrophil cytoplasmic antibodies (ANCAs) are found in 40%-60% of patients, but it is unknown whether ANCAs have a pathogenic role or if this is simply a manifestation of EGPA. EGPA is a multisystem disorder characterized by allergic rhinitis, asthma, and prominent peripheral blood eosinophilia. It primarily affects the lungs, followed by the skin, but also involves the cardiovascular, gastrointestinal, renal, and central nervous systems. Asthma is the cardinal feature of EGPA, which presents, along with allergic rhinitis and nasal polyps, long before vasculitis and the initial EGPA diagnosis. The next phase of the disease is typically eosinophilia, high levels of eosinophils in the blood, which are 5% or less in healthy patients and at least 10% and up to as high as 60% in EGPA patients. Vasculitis is the third and final phase of symptoms and includes several organs: fever, fatigue, sudden weight loss, muscle and joint pain, rash, numbness/tingling/loss of strength of hands or feet, chest pain or palpitations, shortness of breath, chronic cough, venous thrombotic events, abdominal pain, and blood in stool.

- Fasenra for EGPA was based on the MANDARA trial which was a Phase III, randomized, double-blinded, active-controlled trial that compared the efficacy and safety of Fasenra to mepolizumab in adult patients with relapsing or refractory EGPA. In the trial, 140 patients were randomized 1:1 to receive either a single 30 mg subcutaneous injection of Fasenra or three separate 100 mg subcutaneous injections of the active comparator every four weeks.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- EGPA diagnosis was based on history or presence asthma and eosinophilia (>1.0x10^9/L and/or >10% of leucocytes) and at least 2 of the following: biopsy with eosinophilic vasculitis or perivascular/granulomatous inflammation; mono-or polyneuropathy, non-fixed pulmonary infiltrates, sino-nasal abnormality; cardiomyopathy; glomerulonephritis; alveolar haemorrhage; palpable purpura; anti neutrophil cytoplasmic anti-body (ANCA) positivity (Myeloperoxidase or proteinease 3).

- The primary endpoint was the proportion of patients who were in remission at both weeks 36 and 48. Remission is defined as Birmingham Vasculitis Activity Score (BVAS)=0 and OCS dose less than or equal to 4 mg/day. A secondary endpoint was the proportion of patients who were able to fully taper off OCS at weeks 48 through 52. The primary statistical analysis was to demonstrate non-inferiority of Fasenra versus mepolizumab based on the primary endpoint.

- In the trial, nearly 60% of Fasenra-treated patients achieved remission which was comparable to mepolizumab-treated patients. Data also showed 41% of Fasenra-treated patients fully tapered off OCS (vs. 26% in the mepolizumab arm (difference: 16%; 95% CI: 1,31)).

- Hypereosiniphilic syndrome (HES) are a group of rare disorders marked by the sustained overproduction of eosinophils with an estimated prevalence between 0.36 to 6.3 per 100,000.

- In HES, eosinophils damage the tissues that they infiltrate, with common targets that include skin, lung, and GI tract.

- The goal of therapy is a reduction of the absolute eosinophil count, reduction of signs and symptoms, and prevention of disease progression.

- Choice of therapy depends on clinical features, specifically whether the patient has clinical features consistent with a myeloid disorder with or without a FIP1L1-PDGFRA positive mutation. Those with myeloid variants are treated initially with imatinib mesylate, while other types of HES are treated with an initial trial of glucocorticoids.

- Per the guideline for the investigation and management of eosinophilia in the British Journal of Haematology from January 2017, patients with idiopathic HES who do not respond adequately to corticosteroids, or who require prolonged corticosteroid therapy, or who are intolerant of corticosteroids, should be considered for a short trial (4 – 6 weeks) of imatinib, immunomodulatory agents (interferon alpha, ciclosporin or azathioprine), myelosuppressive therapy (hydroxycarbamide) or monoclonal antibody therapy with mepolizumab (anti-interleukin 5), the latter preferably as part of a clinical trial (Grade 2B).

- Updated guidelines from whe World Health Organization and International Consensus Classification of eosinophilic disorders: 2004 update on diagnoiss, risk stratification, and management state that the goal of therapy is to mitigate eosinophil-mediated organ damage. For patients with milder forms of eosinophilia (e.g., <1.5 × 10^9/L) without symptoms or signs of organ involvement, a watch and wait approach with close follow-up may be undertaken. Identification of rearranged PDGFRA or PDGFRB is critical because of the exquisite responsiveness of these diseases to imatinib. Pemigatinib was recently approved for patients with relapsed or refractory FGFR1-rearranged neoplasms. Corticosteroids are first-line therapy for patients with lymphocyte-variant HE and HES. Hydroxyurea and interferon-α have demonstrated efficacy as initial treatment and in steroid-refractory cases of HES. Nucala® (mepolizumab), an interleukin-5 (IL-5) antagonist monoclonal antibody, is approved by the U.S Food and Drug Administration for patients with idiopathic HES. Cytotoxic chemotherapy agents, and hematopoietic stem cell transplantation have been used for aggressive forms of HES, with outcomes reported for limited numbers of patients. Targeted therapies such as the IL-5 receptor antibody Fasenra (benralizumab), IL-5 monoclonal antibody Exdensur® (depemokimab), and various tyrosine kinase inhibitors, are under active investigation.

- Prednisone is the primary initial therapy for symptomatic FIP1L1-PDGFRA-negative HES without indications for emergency treatment. Appropriate starting doses range from 20 mg to 60 mg daily, depending on the severity of the disease manifestations and the degree of eosinophilia at presentation. The dose should be adjusted once

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

the patient responds. Once blood eosinophilia is suppressed and symptoms are controlled, daily glucocorticoid doses are gradually reduced to the lowest dose that maintains control of the eosinophil count and clinical manifestations. Alternate-day dosing should be the ultimate goal if tolerated.

- Hypereosinophilia of unknown significance (HEus) patients are asymptomatic but have marked eosinophilia (>1,500 cells/microL) and no evidence of clinical manifestations or organ involvement. HEus is not considered a form of HES as eosinophil-mediated complications are absent.

- Those individuals included in Fasenra's pivotal Phase III NATRON trial for HES had eosinophil counts greater than 1,000 cells/microL during screening, a history of 2 or more flares within the past 12 months and had been stable on HES therapy for at least 4 weeks prior to randomization.

References:

1. Fasenra™ subcutaneous injection [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals LP; September 2024.
2. Bleecker ER, Fitzgerald JM, Chanez P, et al. Efficacy and safety of Fasenra for patients with severe asthma uncontrolled with high-dosage inhaled corticosteroids and long-acting β2-agonists (SIROCCO): a randomized, multicenter, placebo-controlled phase 3 trial. Lancet. 2016;388:2115-2127.
3. FitzGerald JM, Bleecker ER, Nair P, et al. Benralizumab, an anti-interleukin-5 receptor α monoclonal antibody, as add-on treatment for patients with severe, uncontrolled, eosinophilic asthma (CALIMA): a randomized, double-blind, placebo-controlled phase 3 trial. Lancet. 2016;388:2128-2141.
4. Global Initiative for Asthma. GINA Difficult-to-treat & severe asthma in adolescent and adult patients – diagnosis and management. V4.0 August 2023. Available at: www.ginasthma.org.
5. Holguin F, Cardet JC, Chung KF, et al. Management of severe asthma: a European Respiratory Society/American Thoracic Society guideline. Eur Respir J 2020; 55.
6. AstraZeneca Press Release: Fasenra approved in the US for eosinophilic granulomatosis with polyangiitis https://www.astrazeneca.com/media-centre/press-releases/2024/fasenra-approved-in-the-us-for-eosinophilic-granulomatosis-with-polyangiitis.html
7. Shomali W, Gotlib J. World Health Organization and International Consensus Classification of eosinophilic disorders: 2024 update on diagnosis, risk stratification, and management. Am J Hematol. 2024 May;99(5):946-968. doi: 10.1002/ajh.27287. Epub 2024 Mar 29. PMID: 38551368.
8. Ogbogu, P.U., Roufosse, F., Akuthota, P. et al. Benralizumab versus placebo for hypereosinophilic syndrome: a randomized, placebo-controlled phase 3 trial. Nat Med (2026). https://doi.org/10.1038/s41591-026-04315-8

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Table 1: Comparative cumulative daily dosing of inhaled corticosteroids (mcg/day)

Inhaled Corticosteroid	Ages 12 and up			Ages 6-11		
	Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
Beclometasone dipropionate HFA	100 – 200	>200 – 400	>400	50 – 100	>100 – 200	>200
Budesonide DPI	200 – 400	>400 – 800	>800	100 – 200	>200 – 400	>400
Budesonide nebules	NA	NA	NA	250 – 500	>500 – 1,000	>1,000
Ciclesonide HFA	80 – 160	>160 – 320	>320	80	>80 – 160	>160
Fluticasone furoate DPI	100	NA	200	NA	NA	NA
Fluticasone propionate DPI	100 – 250	>250 – 500	>500	100 – 200	>200 – 400	>400
Fluticasone propionate HFA	100 – 250	>250 – 500	>500	100 – 200	>200 – 500	>500
Mometasone furoate	110 – 220	>220 – 440	>440	110	≥220 - <440	≥440
Triamcinolone acetonide	400 – 1,000	>1,000 – 2,000	>2,000	400 – 800	>800 – 1,200	>1,200

Policy History		
#	Date	Change Description
2.5	Effective Date: 06/11/2026	Updated to include newly approved indication for hypereosinophilic syndrome.
2.4	Effective Date: 12/04/2025	Annual review of policy; no changes were made to the criteria.
2.3	Effective Date: 12/12/2024	Updated to include newly approved indication for eosinophilic granulomatosis with polyangiitis.
2.2	Effective Date: 10/03/2024	Replaced the “not to be used in combination with other biologics statement for the treatment of asthma” to “not to be used in combination with other biologics or targeted DMARDs for the same indication” to align with other biologic policies
2.1	Effective Date: 10/12/2023	Annual review of policy; no changes were made to the criteria.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.0</td><td>Effective Date: 10/06/2022</td><td>Updated to require self-administration unless clinically unable to do so</td></tr>
<tr><td>1.9</td><td>Effective Date: 10/07/2021</td><td>Updated LABA and LAMA requirement to LABA or LAMA</td></tr>
<tr><td>1.8</td><td>Effective Date: 06/10/2021</td><td>Criteria document created and criteria aligned between all biologic asthma agents. The criteria for asthma was previously part of the Biologics for Asthma Policy which will be retired</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/13/2020</td><td>Criteria updated for Fasenra</td></tr>
<tr><td>1.6</td><td>Effective Date: 04/16/2020</td><td>Critieria update for step therapy to reference dosing chart for inhaled corticosteroids.</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/05/2019</td><td>Updated to include Fasenra self-administered product</td></tr>
<tr><td>1.4</td><td>Effective Date: 11/07/2019</td><td>Criteria update to authorization period. Also changed languge to FDA approved age.</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/15/2019</td><td>Updated criteria to account for new self-injectable Nucala formulation</td></tr>
<tr><td>1.2</td><td>Effective Date: 05/09/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/07/2018</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 05/03/2018</td><td>New Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Gamifant® (emapalumab-lzsg)
HCPCS: J9210

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Hemophagocytic lymphohistiocytosis (HLH)

  - Hemophagocytic lymphohistiocytosis (HLH) is a rare, severe condition caused by an overactive, abnormal response of the immune system. It is characterized by overwhelming inflammation that often leads to multiorgan failure and death if not treated promptly and appropriately. In HLH, the immune system responds to a stimulus or trigger, often an infection, but the response is ineffective and abnormal. The ineffective, abnormal response causes a variety of signs and symptoms, which, if not treated, can potentially become life-threatening.

  - The onset and severity of HLH can vary greatly from one person to another. The specific symptoms that develop can also vary greatly, although the condition often causes multiorgan involvement. Generally, affected individuals develop fevers, a rash, hepatomegaly, and splenomegaly. Fevers may be prolonged and persistent, often failing to respond to antibiotics. Sometimes, the lymph nodes are also abnormally large. Other symptoms include anemia, thrombocytopenia, seizures, changes in mental status, irritability, and ataxia. Additional symptoms can occur depending upon the specific organ system involved in an individual.

  - HLH is broadly broken down into primary and secondary forms. The primary form is associated with abnormal variants in certain genes. At least four different genes have been identified including PRF1, UNC13D, STX11, and STXBP2. Primary HLH is mainly seen in children and is typically caused by defective natural killer cells and cytotoxic T-cells with various defects in the perforin–granzyme cell-death pathway. Secondary HLH develops because of a heightened, abnormal immune response that occurs due to a trigger, such as infection, an autoimmune disorder, a weakened or depressed immune system, metabolic disorders, or cancer. It is much more common in adults.

  - Diagnosis of HLH depends on if the patient is thought to have primary or secondary disease. In cases where signs and symptoms of disease are present in the absence of a trigger, the disease can be diagnosed one of three ways: genetic testing, cellular analysis of lymphocytes, and clinical symptoms and routine laboratory findings. Biallelic combination of large deletions, nonsense variants, and other previously well-described disease-causing genetic aberrations in HLH-associated genes are sufficient for primary HLH diagnosis. In patients carrying rare coding variants in HLH-associated genes that are novel, deemed likely pathogenic, of unknown significance, or conflicting interpretation, assays of lymphocyte cytotoxic function are strongly recommended. In individuals for whom biallelic possible disease-causing variants are not identified but who suffer repeated episodes of HLH, cellular diagnostic pathways assessing cytotoxic lymphocyte function are strongly recommended to rule out pathogenic non-coding aberrations. Cellular analysis showing absent perforin expression or defective cytotoxic lymphocyte exocytosis is strongly suspicious of primary HLH. The definitions of defective, low, impaired, and normal for cellular analysis are specific for each laboratory and cannot be generalized. Both the genetic and cellular analysis pathways of diagnosis require signs and symptoms of HLH for patients to be considered positive for the disease. Both primary and secondary HLH can be diagnosed via clinical symptoms and routine laboratory findings. Diagnosis via this pathway requires patients to meet 5 of the following criteria: fever greater than or equal to 38.5^{0}C; splenomegaly; cytopenias affecting greater than or equal to 2

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

of 3 lineages in the peripheral blood including hemoglobin less than 90 g/L (in infants less than 4 weeks of age, hemoglobin less than 100 g/L), platelets less than 100 x 10^9/L, and/or neutrophils less than 1.0 x 10^9/L; hypertriglyceridemia and/or hypofibrinogenemia; hemophagocytosis in the bone marrow, spleen, or lymph nodes; ferritin greater than or equal to 500 µg/L; and/or soluble CD25 greater than or equal 2,400 U/mL. It is always of vital importance to search for the underlying cause of HLH.

- Prompt recognition and urgent treatment of HLH are critical for optimal outcomes. In some cases, emergency treatment must be initiated even before all diagnostic criteria are met. A critical goal of treatment is to urgently suppress life threatening inflammation by destroying immune cells. Treatment of HLH is stratified according to the patient's clinical status and is informed by the cause and/or triggering factor. Managing the triggering event can reduce the stimulus for immune activation.

- Patients with HLH gene mutations, hematologic malignancy, relapsing symptoms on or off therapy, and/or central nervous system disease will require hematopoietic stem cell transplant (HSCT). Because the response to therapy is not known at the time therapy is started, all patients and appropriate family members should undergo HLA typing to facilitate identification of an HSCT donor. Early initiation of HLA typing and selection of a donor shortens the pretransplantation interval, potentially improving the likelihood of survival.

- Patients who are clinically stable and have a condition responsible for triggering HLH may respond to treatment of the triggering condition alone. The major triggering conditions are infection, rheumatologic conditions, and lymphoid malignancies. A search for these conditions can be undertaken in clinically stable patients provided that the patient's status does not deteriorate. For patients with hematologic malignancies, HLH should be treated with HLH-specific therapy, followed by appropriate chemotherapy for the malignancy; often hematopoietic cell transplant will also be required. Infection should be diagnosed rapidly, and empiric antibiotic, antifungal, antiviral, or antiparasitic therapy should be initiated depending on the suspected organism. Patients who are clinically stable and respond within two to three days to treatment of the infection may be able to avoid HLH-specific chemotherapy. However, initiation of HLH-specific therapy for severely ill patients should not be delayed while awaiting resolution of a system infection. Some patients with an underlying condition that causes immunosuppression or disrupts immune homeostasis will respond to disease-specific therapy. If a patient with a rheumatologic condition is stable enough to delay HLH-specific therapy, they can be treated with a course of corticosteroids and/or other therapy for the underlying condition.

- Patients with HLH who have deteriorating organ function should be treated immediately with HLH-specific treatment. Treatment should not be delayed while awaiting genetic or specialized immunologic testing. The HLH-94 protocol recommends eight weeks of induction therapy with etoposide and dexamethasone, with intrathecal hydrocortisone and methotrexate for those with central nervous system (CNS) involvement. Intrathecal therapy is continued until at least one week after CNS involvement has resolved, based on both clinical and CSF analysis.

- The response to initial therapy is a major factor in determining the need for additional therapy including HSCT. Response to induction therapy is monitored by assessing the patient clinically and using HLH disease-specific markers. Daily physical examination, complete blood count, coagulation tests, liver function, renal function, soluble IL-2 receptor alpha, CXCL9, and IL-18 should be completed. HSCT is indicated for those who do not fully recover by the end of the initial eight weeks of induction chemotherapy. Etoposide and dexamethasone therapy should be continued until HSCT is performed. Following HSCT, patients need to be monitored for disease recurrence, graft rejection, and HSCT complications.

- Some patients are intolerant of initial therapy for HLH, while others have disease that is refractory to initial treatment or progresses as induction therapy is being tapered, after having achieved remission, or while awaiting HSCT. Relapsed or refractory HLH may be manifest as clinical deterioration. Gamifant is an interferon

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

gamma (IFNγ) blocking antibody indicated for the treatment of adult and pediatric patients with primary HLH with refractory, recurrent, or progressive disease or intolerance with conventional HLH therapy.

- Safety and efficacy of Gamifant for primary HLH was studied in the NI-0501-04 trial, a multicenter, open-label, single-arm phase II/III study of 27 pediatric patients with suspected or confirmed primary HLH with either refractory, recurrent, or progressive disease during conventional HLH therapy or who were intolerant of conventional HLH therapy. Patients were diagnosed with primary HLH based on a molecular diagnosis, family history consistent with primary HLH, or by meeting five out of the 8 clinical symptoms or laboratory findings. Patients also had to fulfill one of the following criteria as assessed by the treating physician: having not responded or not achieved a satisfactory response or not maintained a satisfactory response to conventional HLH therapy or intolerance to conventional HLH treatments. The study treatment duration was up to 8 weeks, after which patients could continue treatment in the extension study. All patients received an initial starting dose of Gamifant of 1 mg/kg every 3 days. Subsequent doses could be increased to a maximum of 10 mg/kg based on clinical and laboratory parameters interpreted as an unsatisfactory response. The primary endpoint was overall response rate (ORR) at the end of treatment, defined as achievement of either a complete or partial response or HLH improvement. ORR was evaluated using an algorithm that included the following objective clinical and laboratory parameters: fever, splenomegaly, central nervous system symptoms, complete blood count, fibrinogen and/or D-dimer, ferritin, and soluble CD25 (also referred to as soluble interleukin-2 receptor) levels. Complete response was defined as normalization of all HLH abnormalities. Partial response was defined as normalization of greater than or equal to 3 HLH abnormalities. HLH improvement was defined as greater than or equal to 3 HLH abnormalities improved by at least 50% from baseline. The primary endpoint was achieved with 63% of patients (p-value = 0.013) demonstrating an overall response at the end of treatment.

- Hemophagocytic lymphohistiocytosis (HLH)/macrophage activation syndrome (MAS)

  - Macrophage activation syndrome (MAS) is a form of secondary HLH occurring as a life-threatening complication of rheumatic diseases. It is most frequent in systemic juvenile idiopathic arthritis (sJIA) and adult-onset Still's disease (AOSD), affecting about 10%–20% of patients. Similar to other forms of HLH, MAS is caused by excessive activation and expansion of T-lymphocytes and macrophages resulting in hyperinflammation. MAS is characterized by fever, hepatosplenomegaly, cytopenias, liver dysfunction, coagulation abnormalities, and hyperferritinaemia. It may progress to multiple organ failure with mortality rates of 10%–20%.

  - The European League Against Rheumatism/American College of Rheumatology (EULAR/ACR) came up with diagnostic guidelines for MAS complicating systemic juvenile idiopathic arthritis in 2016. The criteria require that patients have ferritin greater than 684 ng/mL and any 2 of the following: platelet count less than or equal to 181 x 10^9/L, aspartate aminotransferase (AST) greater than 48 U/L, triglycerides greater than 156 mg/dL, or fibrinogen less than or equal to 360 mg/dL.

  - Patients who are clinically stable and have a condition responsible for triggering HLH/MAS may respond to treatment of the triggering condition alone. Rheumatologic conditions are the major triggering conditions of HLH/MAS. A search for these conditions, if necessary, can be undertaken in clinically stable patients provided that the patient's status does not deteriorate. Some patients with an underlying condition that causes immunosuppression or disrupts immune homeostasis will respond to disease-specific therapy. If a patient with a rheumatologic condition is stable enough to delay HLH/MAS-specific therapy, they can be treated with a course of corticosteroids and/or other therapy for the underlying condition.

  - Patients with HLH/MAS who have deteriorating organ function should be treated immediately with HLH/MAS-specific treatment. Treatment should not be delayed while awaiting genetic or specialized immunologic testing. The 2022 EULAR/ACR task force recommends use of glucocorticoids, anakinra, and/or intravenous immunoglobulin (IVIG) for empiric immunomodulation in suspected HLH/MAS. Multiple treatments may be initiated concurrently depending on clinical context and

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

availability. Published treatment data demonstrate the strongest support for glucocorticoids across all forms of HLH/MAS. The choice of glucocorticoid formulation and route of administration should be tailored to the patient and care setting. Pulse doses of intravenous methylprednisolone, 10 – 30 mg/kg/day up to 1 g given daily, are effective in severe rheumatic diseases and have been used successfully in HLH/MAS.

- The response to initial therapy is a major factor in determining the need for additional therapy. Response to induction therapy should be monitored closely for evidence of improvement in their temperature, physical examination, such as rash, lymphadenopathy, and organ-specific findings, and laboratory abnormalities, such as cytopenias, transaminitis, and hyperferritinemia. IL-18 and CXCL9 levels can be helpful in the diagnosis and monitoring of HLH/MAS, although IL-18 may remain persistently elevated in patients with inactive disease. Since all of the initial treatments have a relatively quick onset of action, some improvement in clinical and laboratory features should be seen within a few days of initiating therapy.

- Some patients are intolerant of initial therapy for HLH/MAS, while others have disease that is refractory to initial treatment or progresses as induction therapy is being tapered or after having achieved remission. Relapsed or refractory HLH/MAS may be manifest as clinical deterioration. Gamifant is an interferon gamma (IFNγ) blocking antibody indicated for the treatment of adult and pediatric patients with HLH/MAS in known or suspected Still's disease, including sJIA, with an inadequate response or intolerance to glucocorticoids, or with recurrent MAS.

- Safety and efficacy of Gamifant for HLH/MAS was studied in the NI-0501-14 and NI-0501-06 trials, two open-label, single arm, multicenter studies of 39 patients with confirmed or suspected HLH/MAS in Still's disease, including sJIA, with an inadequate response to high-dose glucocorticoid treatment.. Patients were diagnosed with HLH/MAS if they had a ferritin level greater than 684 ng/mL and any 2 of the following: platelet count less than or equal to 181×10^9/L, AST greater than 48 U/L, triglycerides greater than 156 mg/dL, or fibrinogen levels less than or equal to 360 mg/dL. High-dose glucocorticoids were defined as greater than or equal to 2 mg/kg/day of prednisone equivalent in two divided doses, or at least 60 mg/day in patients weighing 30 kg or more, including but not limited to pulses up to 30 mg/kg/day for at least 3 consecutive days. All patients received an initial starting dose of Gamifant of 6 mg/kg on day 0, followed by 3 mg/kg every 3 days until day 15 and twice weekly until day 28. Treatment with Gamifant could be stopped on investigator's assessment of remission, but not before three Gamifant doses have been administered. Frequency between infusions could be shortened, dose could be increased or treatment prolonged on investigator's assessment of unsatisfactory response. The primary endpoint was HLH/MAS remission by week 8 defined as resolution of clinical signs and symptoms according to the physician global assessment and white blood cell and platelet count above the lower limit of normal, lactate dehydrogenase (LDH), alanine aminotransferase and aspartate aminotransferase below 1.5 times upper limit of normal (ULN), fibrinogen greater than 100 mg/dL and ferritin levels decreased by at least 80% or below 2000 ng/mL, whichever was lower. The primary endpoint was achieved with 53.8% of patients (95% CI: 37.2, 69.9).

References:

1. Gamifant [prescribing information]. Waltham, MA: Sobi Inc.; June 2025.
2. Henter JI. Hemophagocytic lymphohistiocytosis. NEJM. 2025 Feb 5; 392: 584 – 98.
3. National Organization of Rare Disorders. Hemophagocytic lymphohistiocytosis. 2016 Dec 13. Available at: https://rarediseases.org/rare-diseases/hemophagocytic-lymphohistiocytosis/. Accessed on May 28, 2025.
4. Henter JI, Sieni E, Eriksson J, et al. Diagnostic guidelines for familial hemophagocytic lymphohistiocytosis revisited. Blood. 2024 Nov 28; 144 (22): 2308 – 18.
5. Bergsten E, Horne AC, Aricó M, et al. Confirmed efficacy of etoposide and dexamethasone in HLH treatment: long-term results of the cooperative HLH-2004 study. Blood. 2017 Sep 21; 130 (25): 2728 – 38.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

6. Henter JI, Aricò M, Egeler RM, et al. HLH-94: a treatment protocol for hemophagocytic lymphohistiocytosis. HLH study Group of the Histiocyte Society. Med Pediatr Oncol. 1997; 28: 342.
7. Locatelli F, Jordan MB, Allen C, et al. Emapalumab in children with primary hemophagocytic lymphohistiocytosis. NEJM. 2020 May 7; 382 (19): 1811 - 22.
8. Clinicaltrials.gov. Evaluate efficacy, safety and tolerability, PK and PD of emapalumab in children and adults with MAS in Still's or SLE. Available at: https://clinicaltrials.gov/study/NCT05001737#participation-criteria. Accessed on June 30, 2025.
9. De Benedetti F, Grom AA, Brogan PA, et al. Efficacy and safety of emapalumab in macrophage activation syndrome. Ann Rheum Dis. 2023 Jun; 82 (6): 857 - 65.
10. Ravelli A, Minoia F, Davl S, et al. 2016 classification criteria for macrophage activation syndrome complicating systemic juvenile idiopathic arthritis. Arth Rheum. 2016 March; 68 (3): 566 – 76.
11. Shakoory B, Geerlinks A, Wilejto M, at al. The 2022 EULAR/ACR points to consider at the early stages of diagnosis and management of suspected haemophagocytic lymphohistiocytosis/macrophage activation syndrome (HLH/MAS). Ann Rheum Dis. 2023; 82: 1271 - 85.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date:
08/13/2026</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.1</td><td>Effective Date:
09/03/2025</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>P&T Date:
08/07/2025

Effective Date:
09/22/2025</td><td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Garetosmab intravenous injection
HCPCS: J3590

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- FOP is a rare connective tissue disorder characterized by severe, progressive HO of soft tissues that spans joints and results in an ectopic skeleton. FOP is caused by mutations in the ACVR1/ALK2 gene on chromosome 2q24, which encodes activin A receptor type I/activin-like kinase 2, a bone morphogenetic protein type I receptor. Definitive diagnosis requires genetic confirmation with specific molecular genetic studies that detect missense mutations or "in frame" deletions in the protein-encoding region of the ACVR1 gene. Consultation with a clinical geneticist is recommended before genetic testing. Patients with FOP generally appear normal at birth except for bilateral malformation of the great toes (hallux valgus). Sporadic, painful episodes of rapidly progressive soft tissue swelling ("flare-ups") typically begin during the first decade of life. The soft tissue swelling may resolve but more often transforms skeletal muscles, tendons, ligaments, fascia, and aponeuroses into ribbons, sheets, or plates of heterotopic bone. Flare-ups may be precipitated by soft tissue injury, intramuscular injection, surgical incisions, falls, muscular stretching, or viral illness. FOP is a very rare genetic disorder with approximately 400 people affected in the U.S. and an estimated 800-900 confirmed cases worldwide.

- FOP is accelerated by trauma and avoiding deep tissue trauma, including intramuscular injections, is one way to prevent flare-ups and HO. The medical management of fibrodysplasia ossificans progressiva: current treatment considerations from the international clinical council (ICC) on FOP was most recently updated in May 2022 and has recommendations including the use of corticosteroids, COX-1 inhibitors and NSAIDs, and topical analgesics to alleviate symptoms. The following options have low levels of evidence and are merely suggestions in a space that previously had no approved therapies. Mast cell inhibitors may be used to reduce the intense muscle edema, fibroproliferation and angiogenesis of FOP flare-ups, however the optimal use of such medications and their potential long-term efficacy in FOP is presently unknown. Bisphosphonates anecdotally seem to decrease flare-up symptoms in patients. Imatinib has been used to help with flare-ups. Presently, there is no definitive evidence that imatinib prevents or ameliorates flare-ups in FOP; however, early clinical observations support the implementation of clinical trials of imatinib in children with uncontrolled FOP flare-ups. Muscle relaxants may help to decrease muscle spasm and maintain more functional activity even in the setting of an evolving FOP lesion and may especially be true for painful flare-ups involving the limbs. In July of 2024 the ICC on FOP updated the medical management of fibrodysplasia ossificans progessiva: current treatment considerations to include Sohonos. The state of a patient with FOP considering Sohonos, the potential benefits and risks, as detailed in the package insert, by the MOVE trial publication, and in subsequent publications, must be discussed in detail with the patient and the patient's medical team. Additional risks should be explicitly discussed, including potential effects on bone health (loss of bone mass), skin/mucosal dryness and complications, potential for eye complications, and the risk of fetal malformations in pregnancy. The ICC supports continued close long-term follow-up of these potential complications. Standard-of-care therapies, as recommended by the FOP Treatment Guidelines should still be used in combination with Sohonos as appropriate, and with guidance from the patient's medical team. A recommendation for garetosmab has not been included in these guidelines at this time.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Regeneron Press Releases: Regeneron Announces Positive Phase 3 Trial in Adults with Ultra-Rare Genetic Disorder Fibrodysplasia Ossificans Progressiva (FOP), Demonstrating that Garetosmab Prevents Greater than 99% of Abnormal Bone Formation. September 17, 2025 https://investor.regeneron.com/news-releases/news-release-details/regeneron-announces-positive-phase-3-trial-adults-ultra-rare/
2. ClinicalTrials.gov. (2022-2026). A Study to Assess Safety, Tolerability and Efficacy of Garetosmab Versus Placebo Administered Intravenously (IV) in Adult Participants With Fibrodysplasia Ossificans Progressiva (FOP). Identifier: NCT05394116. https://clinicaltrials.gov/study/NCT05394116
3. ClinicalTrials.gov. (2022-2026). A Study to Examine the Safety, Tolerability and Effects on Abnormal Bone Formation of REGN2477 in Patients With Fibrodysplasia Ossificans Progressiva" (LUMINA-1), is a Phase 2 clinical trial evaluating the drug garetosmab for the treatment of Fibrodysplasia Ossificans Progressiva (FOP). Identifier: NCT03188666. https://clinicaltrials.gov/study/NTC038888666
4. The medical management of fibrodysplasia ossificans progressiva: current treatment considerations from the international clinical council on FOP. April 2021 (updated May 2022). https://assets.nationbuilder.com/ifopa/pages/1043/attachments/original/1665444347/GUIDELINES__updated_May_2022.pdf?1665444347
5. International fibrodysplasia ossificans progressive association (ifopa). What is FOP? https://www.ifopa.org/what_is_fop accessed May 2026.

Policy History

#	Date	Change Description
1.0	Effective Date: 06/11/2026	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Gazyva® (obinutuzumab)
HCPCS: J9301

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes
Additional BCBSM Part B Criteria: Yes

Background information

- Gazyva is a CD20-directed cytolytic antibody indicated:
  - In combination with chlorambucil, for the treatment of patients with previously untreated chronic lymphocytic leukemia
  - In combination with bendamustine followed by Gazyva monotherapy for the treatment of patients with follicular lymphoma who relapsed after, or are refractory to, a rituximab-containing regimen
  - In combination with chemotherapy followed by Gazyva monotherapy in patients achieving at least a partial remission, for the treatment of adult patients with previously untreated stage II bulky, III or IV follicular lymphoma
  - For the treatment of adult patients with active lupus nephritis (LN) who are receiving standard therapy
- The use of Gazyva in patients with active lupus nephritis was studied in the REGENCY trial, a phase III, randomized, double-blind, placebo-controlled, parallel-group study of 271 patients. The trial included seropositive patients who were stable and maintained on standard therapy of mycophenolate mofetil and corticosteroids. Patients had biopsy-proven lupus nephritis showing active lesions prior to study entry. Patients with a GFR of less than 30 ml/min/1.73 m^2 of body surface area (BSA) were excluded. The study met its primary endpoint demonstrating that the number of patients treated with Gazyva in combination with standard therapy achieved a complete renal response at week 76 was significantly greater than patients who received placebo plus standard therapy (46.4% vs 33.1% (95% CI: 2.0, 24.8), p-value = 0.0232). Statistical significance compared to placebo across the two major secondary endpoints was achieved, including complete renal response with successful prednisone taper at week 76 and proteinuric response at week 76.
- The 2025 EULAR guidelines recommend kidney biopsy for SLE patients showing any sign of kidney involvement including glomerular hematuria and/or cellular casts, proteinuria greater than 0.5 g/24 hours, spot urine protein-to-creatine ratio (UPCR) greater than 500 mg/g, or unexplained decrease in glomerular filtration rate. The 2003 International Society of Nephrology/Renal Pathology Society (ISN/RPS) classification still represents the gold standard for assessment of kidney biopsy in LN. Patients with active or active/chronic ISN/RPS 2003 class III or IV, with or without concomitant class V proliferative lupus nephritis determined by kidney biopsy were included in the REGENCY trial.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 EULAR/ERA-EDTA guidelines and the 2024 Kidney Disease Improving Global Outcomes (KDIGO) clinical practice guidelines for the management of active lupus nephritis recommend initial treatment with mycophenolate or low-dose intravenous cyclophosphamide in combination with Benlysta ,or mycophenolate with a calcineurin-inhibitor, or mycophenolate with Gazyva. Following renal response, treatment should continue for at least 3 years. Patients should remain on their initial therapy unless they used cyclophosphamide as the initial treatment. If on cyclophosphamide, patients should be switched to mycophenolate or azathioprine alone or in combination with Benlysta. After 3 years if sustained complete renal response is maintained, therapy should be tapered slowly until complete withdrawal.

- Therapy should aim for complete clinical remission, defined as proteinuria less than 0.7 g/24 hours, by 12 months. Evidence of improvement in proteinuria with glomerular filtration rate (GFR) normalization or stabilization should be noted by 3 months and at least a 50% reduction in proteinuria should be seen by 6 months. For patients failing to meet the required clinical endpoints in the designated timeframe, switching of induction therapy is warranted. For patients with nephrotic-range proteinuria at baseline, the aforementioned time frames may be extended by 6 – 12 months due to slower proteinuria recovery.

- Gazyva has not been studied and there is no data to support use in combination with other biologic medications to treat LN.

References:

1. Gazyva [prescribing information]. South San Francisco, CA: Genentech, Inc.; October 2025.
2. Fanouriakis A, Kostopoulou M , Cheema K, et al. 2025 update of the Joint European League Against Rheumatism and European Renal Association– European Dialysis and Transplant Association (EULAR/ ERA–EDTA) recommendations for the management of lupus nephritis. Ann Rheum Dis. 2025: 1 – 16.
3. Weening JJ, D'Agati VD, Schwartz MM, et al. The classification of glomerulonephritis in systemic lupus erythematosus revisited. Kidney Int. 2004; 65: 521 – 30.
4. KDIGO Executive Committee. Clinical practice guidelines for the management of lupus nephritis. Kidney International. 2024 Jan; 105 (Suppl 1s): S1 – S69.
5. Furie RA, Rovin BH, Garg JP, et al. Efficacy and safety of obinutuzumab in active lupus nephritis. NEJM. 2025 Feb 7; 392: 1471 – 83.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.5</td><td>Effective Date: 03/04/2026</td><td>UM medical management system update for BCN and BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>2.4</td><td>Effective Date: 02/12/2026</td><td>Updated to remove step though Benlysta due to updated EULAR guidelines</td></tr>
<tr><td>2.3</td><td>Effective Date: 12/04/2025</td><td>Updated to include the new FDA approved indication for lupus nephritis and remove oncology criteria. Policy is now active for both the commercial and Medicare lines of business</td></tr>
<tr><td>2.2</td><td>Effective Date: 04/10/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.1</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.0</td><td>Effective Date: 04/06/2023</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time. Policy will now only be active for the Medicare Part B line of business only</td></tr>
<tr><td>1.9</td><td>Effective Date: 04/16/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.8</td><td>Effective Date: 04/08/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 04/16/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.5</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 05/09/2019</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 05/03/2018</td><td>Criteria updated for: New indication for use in treatment-naïve patients with follicular lymphoma (FL) stage II bulky, III, or IV, with chemotherapy (CHOP, CVP, or bendamustine), followed by Gazyva monotherapy.
Added efficacy for FL relapsed/refractory to Rituxan
Updated formatting for dosing & administration</td></tr>
<tr><td>1.2</td><td>Effective Date: 11/10/2016</td><td>Criteria updated for: New indication for use in combination with bendamustine followed by Gazyva monotherapy, for the treatment of patients with follicular lymphoma (FL) relapse or refractory to rituximab-containing regimens.</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 04/01/2015</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/13/2014</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

General Drug Utilization Management Policy
FDA Approved Drugs
Unapproved Drugs
Not Otherwise Classified (NOC) Drugs
HCPCS: N/A

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: subject to part B vs. part D review

Background Information:

- The purpose of this policy is to provide:
  - Allow management of any drug according to the prescribing information.
  - Immediate criteria for new FDA approved drugs. This policy will represent drugs which are pending a full or abbreviated drug review for the P&T Committee.
  - Immediate criteria for existing drugs which have received a new FDA approved indication for which the medical policy has yet not been updated with this most recent indication. The new FDA approved indication will be represented by this policy until it is reviewed by the P&T Committee.
  - Immediate criteria for all drugs where we will follow up with development of a full drug/class specific policy if the criteria are more restrictive than the prescribing information.
  - When available, the applicable complete drug review with full criteria or policy will take precedence over this policy.
  - Allows Medicare Part D to apply general management as listed according to CMS guidance

Policy History		
#	Date	Change Description
1.9	Effective Date: 12/04/2025	Annual review of criteria was performed, no changes were made.
1.8	Effective Date: 12/12/2024	Updated to add alternative authorization period for drugs managed to label under General UM Policy by oncology vendor.
1.7	Effective Date: 06/06/2024	Updated policy to remove criteria related to investigational drugs and updated authorization period to align with PA60.
1.6	Effective Date: 06/08/2023	Updated policy to apply to unapproved drugs

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.5	Effective Date: 12/09/2021	Updated authorization period language
1.4	Effective Date: 06/11/2020	Updated policy to allow management of drugs according to prescribing information
1.3	Effective Date: 04/16/2020	Updated title to reflect policy covered newly approved drugs and NOC coded drugs and added criteria stating the plan has the right to deem a new medication investigational
1.2	Effective Date: 02/06/2020	Annual Review
1.1	Effective Date: 02/14/2019	Updated language in criteria A.b. and added bullet 3 in background information to include coverage of trial of all preferred drugs for any drug until a full policy is developed
1.0	Effective Date: 08/09/2018	New Document

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Givlaari® (givosiran)
HCPCS: J0223

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Acute Hepatic Porphyria (AHP) is a rare, autosomal dominant disorder with 4 different variations (Acute Intermittent Porphyria, Hereditary Coproporphyria, Variegate Porphyria, and ALA Dehydratase-Deficient Porphyria) that results from a partial deficiency in 4 enzymes that are part of the heme biosynthetic pathway leading to an accumulation of toxic heme intermediaries, aminolevulinic acid (ALA) and porphobilinogen (PBG), which are thought to cause the clinical manifestations of AHP.

- An estimated 5,000 patients in the US and Europe suffer from AHP attacks annually, and 500 to 1,000 patients experience recurrent attacks.

- Signs and symptoms of AHP are generally nonspecific and typically occur as intermittent acute attacks that are sometimes life-threatening. The most common symptoms include abdominal pain, vomiting, constipation, muscle weakness, psychiatric symptoms, hypertension, painful urination, and urinary retention or incontinence. Acute attacks are usually associated with exacerbating factors, such as medications, smoking, sex hormones, fasting, and stress.

- Most patients have a complete resolution in their symptoms between attacks; however, some patients develop chronic symptoms including pain requiring opioid analgesics, depression/anxiety, and persistent hypertension.

- The Porphyrias Consortium of the National Institutes of Health's Rare Diseases Clinical Research Network (2017) guidelines provide the following recommendations for long-term management of AHP:

    - Management should focus on the identification and avoidance of factors that precipitate or worsen acute AHP attacks. Patients should be counseled to avoid certain environmental triggers, including certain medications, crash dieting or fasting-type dieting, smoking (tobacco and marijuana), and alcohol. Patients should be counseled to consult publicly available drug database such as http://www.drugs-prophyria.org before starting new medications.

    - Prophylactic therapy with hemin or intravenous glucose can decrease ALAS-1 activity after 2-3 infusions, with hemin having a more potent effect. Hemin is often used for more severe attacks while glucose loading is used for only mild attacks with improvement in symptoms generally seen within 3-4 days. Patients who experience four or more attacks per year may require hemin prophylaxis up to twice weekly; however, some patients do report improvement with monthly infusions.

    - Severe iron overload can occur with recurrent heme administration leading to the necessity of therapeutic phlebotomy when ferritin levels are >1000 ng/mL.

    - Supportive therapy to address symptoms of AHP may be needed, including pain medications (such as opioids), electrolyte replacement, anticonvulsants, beta-blockers, angiotensin-converting enzyme inhibitors (ACEI), and calcium channel blockers.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Liver transplantation is a last-line option for AHP which has been shown to be curative; however, due to significant morbidity and mortality associated with liver transplantation, this surgical procedure is reserved for those with severe, disabling, intractable attacks that are refractory to hemin therapy.

  - Clinical trials assessing Givlaari as treatment in AHP were ongoing at the time of publication of the Porphyria Consortium's guidelines (2017); therefore, these guidelines do not include recommendations for Givlaari in the setting of AHP.

- The American Gastroenterological Association (AGA) Clinical Practice Update on Diagnosis and Management of Acute Hepatic Porphyrias: Expert Review (2023) provides additional recommendations regarding the diagnosis and management of AHP including the following Best Practice Statements:

  - Initial diagnosis of AHP should be made by biochemical testing measuring ALA, PBG, porphyrins, and creatinine in a random urine sample.

  - Genetic testing should be used to confirm the diagnosis of AHP in patients with positive biochemical testing.

  - Prophylactic heme therapy or givosiran, administered in an outpatient setting, should be considered in patients with recurrent attacks (4 or more per year).

- Givlaari (givosiran) is the first and only FDA-approved therapy for the treatment of adults with AHP. Givlaari is a double-stranded small interfering RNA (siRNA) which acts in the liver to reduce circulating levels of neurotoxic intermediaries, ALA and PBG.

- Givlaari was evaluated in a Phase III, double-blind, placebo-controlled trial (ENVISION, NCT03338816), which enrolled 94 patients ages 12 years of age and older with symptomatic AHP and at least 2 documented porphyria attacks within the last 6 months. Of the 94 patients enrolled in the trial, 89 had Acute Intermittent Porphyria, 1 had Hereditary Coproporphyria, 2 had Variegate Porphyria, and 2 had Acute Hepatic Porphyria without an identified mutation.

  - Methods: Patients were randomized to receive once monthly injections of either subcutaneous Givlaari at a dose of 2.5 mg/kg (N=48) or placebo (N=46) for a total of 6 months.

  - Endpoints: The primary endpoint was reduction relative to placebo in the annualized rate of composite porphyria attacks among patients with acute intermittent porphyria (the most common subtype of AHP), defined as attacks requiring hospitalization, an urgent healthcare visit, or hemin administration. Key secondary endpoints included evaluation of ALA and PGP levels in addition to hemin use in patients with Acute Intermittent Porphyria.

  - Results:

    - Primary endpoint: In patients with AHP, the average annualized rate of composite porphyria attacks over 6 months was 1.9 (95% CI: 1.3 – 2.8) in the Givlaari group compared to 6.5 (95% CI: 4.5 – 9.3) in the placebo group, representing a lower rate of averaged annualized attacks for the Givlaari group. Results were similar for patients with other subtypes of AHP.

    - Secondary endpoints: Among patients with Acute Intermittent Porphyria, treatment with Givlaari led to significantly lower levels of urinary ALA and PGP and fewer days of hemin use (4.7 days v. 12.8 days) compared to the placebo.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Givlaari® [package insert]. Alnylam Pharmaceuticals, Inc.; Cambridge, MA, April 2024.
2. Panhematin® [package insert]. Sagent Pharmaceuticals, Inc.; Lebanon, NJ, May 2020.
3. Balwani M, Sardh E, Ventura P, et al. Phase 3 Trial of RNAi Therapeutic Givosiran for Acute Intermittent Porphyria. N Engl J Med. 2020;382(24):2289-2301. doi:10.1056/NEJMoa1913147
4. Ramanujam VS, Anderson KE. Porphyria Diagnostics-Part 1: A Brief Overview of the Porphyrias. Curr Protoc Hum Genet. 2015;86:17.20.1–17.20.26.
5. Balwani M, Wang B, Anderson KE, et al. Acute hepatic porphyrias: Recommendations for evaluation and long-term management. Hepatology. 2017;66(4):1314–1322.
6. Bonkovsky HL, Rudnick SR. Acute Porphyrias. Merck Manuals Professional Version. 2019. [Accessed on December 21, 2022 from https://www.merckmanuals.com/professional/endocrine-and-metabolic-disorders/porphyrias/acute-porphyrias].
7. The Porphyrias Consortium. Rare Clinical Diseases Research Network: National Institutes of Health. [Accessed on December 21, 2022 from https://www.rarediseasesnetwork.org/cms/porphyrias].
8. Wang B, Rudnick S, et al. Acute Hepatic Porphyrias: Review and Recent Progress. Hepatology Communications. 2019; 3:193-206.
9. Porphyria. U.S. National Library of Medicine Genetics Home Reference. 2019. [Accessed on January 4, 2012 from https://ghr.nlm.nih.gov/condition/porphyria].
10. Porphyria (Acute) Testing Algorithm. Mayo Clinic Laboratories. [Accessed on December 21, 2022 from https://www.mayocliniclabs.com/it-mmfiles/Porphyria__Acute__Testing_Algorithm.pdf].
11. Press Release: Alnylam Announces Approval of GIVLAARI™ (givosiran) by the U.S. Food and Drug Administration (FDA). November 20, 2019. [Accessed on December 21, 2022 from https://www.businesswire.com/news/home/20191120005849/en/].
12. Wang B, Bonkovsky HL, Lim JK, Balwani M. AGA Clinical Practice Update on Diagnosis and Management of Acute Hepatic Porphyrias: Expert Review. Gastroenterology. 2023;164(3):484-491.

Policy History		
#	Date	Change Description
1.8	Effective Date: 02/12/2026	Annual review no changes to criteria.
1.7	Effective Date: 02/13/2025	Annual review no changes to criteria.
1.6	Effective Date: 02/08/2024	Updated to remove the specialist prescriber requirement and change the renewal criteria to standard language
1.5	Effective Date: 02/03/2023	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 02/04/2021	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 06/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/06/2020</td><td>New full drug review . UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Golimumab Products

Simponi ARIA® (golimumab) **- HCPCS: J1602**
Immgolis INTRI™ (golimumab-sldi) **- HCPCS: J3590**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Golimumab is a tumor necrosis factor inhibitor (TNFi) that is available as the innovator products Simponi®, a subcutaneous (SC) formulation that can be self-administered after proper training in injection technique, and Simponi ARIA which is administered via intravenous (IV) infusion by a healthcare provider, and interchangeable biosimilars Immgolis (SC) and Immgolis INTRI (IV).

- Simponi and Simponi Aria are both indicated for the treatment of adults with moderately to severely active rheumatoid arthritis (RA; in combination with methotrexate), active psoriatic arthritis (PsA), or active ankylosing spondylitis (AS). Simponi ARIA is also indicated for pediatric patients 2 years of age and older with active PsA or active polyarticular juvenile idiopathic arthritis (pJIA), while Simponi has an additional indication for moderately to severely active ulcerative colitis (UC) in adults and pediatric patients weighing at least 15 kg.

- For adults with RA, PsA, or AS, either the SC or IV formulations may be used. Clinical reasons a patient may be unable to self-administer SC golimumab and instead opt for IV golimumab may include:

    - Patient or caregivers are unable to perform subcutaneous injections with prior technique.

    - Member requires regular medical support from the physician

- The use of golimumab in combination with other biologic agents or targeted disease-modifying antirheumatic drugs is not recommended due to an increased risk of infection and a lack of robust safety and efficacy data to support combination use

    - Rheumatoid Arthritis

        - The 2021 American College of Rheumatology (ACR) Guidelines for the Treatment of Rheumatoid Arthritis (RA) established recommendations for the care of adult RA patients. The guidelines state that treatment decisions should follow a shared decision-making process and should be reevaluated within a minimum of 3 months based on the efficacy and tolerability of the DMARD(s) chosen.

        - For the initial treatment of symptomatic RA, the guidelines strongly recommend the use of conventional synthetic DMARD (csDMARD) monotherapy in those who are DMARD-naive. csDMARD monotherapy is a less costly first line treatment option with an extensive safety record accompanied by well-documented clinical

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

efficacy and a large body of clinical experience and familiarity among prescribers. csDMARDs in the guidelines refer to methotrexate (MTX), hydroxychloroquine, leflunomide (LEF), and sulfasalazine. Azathioprine, cyclosporine, minocycline, and gold were not included due to their infrequent use in RA and lack of new data since the prior guidelines were published. Oral MTX is recommended as the preferred initial DMARD for patients with moderate-to-high disease activity, and hydroxychloroquine is recommended as the preferred initial DMARD for patients with low disease activity.

- If disease activity remains moderate or high despite optimal dosing of methotrexate monotherapy, the use of dual therapy with methotrexate plus biologic DMARD (bDMARD; etanercept, adalimumab, infliximab, golimumab, certolizumab pegol, abatacept, tocilizumab, sarilumab, rituximab) or targeted synthetic DMARD (tsDMARD; tofacitinib, baricitinib, upadacitinib) therapy is conditionally recommended over the use of triple therapy (i.e., addition of sulfasalazine and hydroxychloroquine). The guidelines do not inform preference of bDMARD over tsDMARD therapy, or vice-versa, for use in combination with methotrexate. No one agent has been shown to be superior to another. The guidelines do acknowledge the emergence of safety signals for the JAK inhibitor class (tsDMARD), and state that further modification of this recommendation may be necessary as additional data are published.

- A treat-to-target approach is conditionally recommended over usual care for patients who have had an inadequate response to bDMARDs or tsDMARDs. Treat-to-target refers to a systematic approach involving frequent monitoring of disease activity using validated instruments and modification of treatment to minimize disease activity with the goal of reaching a pre-defined target (low disease activity or remission)

- Psoriatic Arthritis

  - PsA is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

  - Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis, all recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.

  - In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.

  - If PsA remains active despite OSM therapy, switching to a TNFi, an interleukin-17 inhibitor (IL-17i), or an IL-12/23i is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

Ankylosing Spondylitis

- Axial spondyloarthritis, comprising ankylosing spondylitis (AS) and non-radiographic axial spondyloarthritis (NRAS), is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.

- The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with nonsteroidal anti-inflammatory drugs (NSAIDS), treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient.

- Cosentyx® (secukinumab) or Taltz® (ixekizumab) is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e. those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class.

- Polyarticular Juvenile Idiopathic Arthritis

  - Juvenile idiopathic arthritis (JIA) defines a collection of inflammatory arthritides of unknown etiology. Onset is prior to 16 years of age with a minimum duration of 6 weeks and other potential causes of synovitis are excluded. JIA can be subdivided into polyarticular JIA and systemic JIA.

  - pJIA is defined by the presence of more than 4 affected joints in the first 6 months of illness and comprises 20-30% of children with JIA. Therapy is directed toward treating the underlying inflammation and preventing JIA-associated complications and adverse effects of its treatment.

  - The 2019 American College of Rheumatology/Arthritis Foundation (ACR/AF) guideline for the treatment of JIA strongly recommends initial therapy for pJIA with a DMARD such as methotrexate (MTX) or leflunomide (LEF). MTX is conditionally recommended over LEF as it has a greater volume of data supporting its effectiveness compared to leflunomide and can be administered subcutaneously (recommended) or orally. The guidelines consider an adequate trial of a DMARD to be 3 months.

  - If moderate or high disease activity persists despite DMARD use, the ACR/AF guidelines recommend biologic agents either in combination with a DMARD or as monotherapy in certain situations. Biologic agents FDA approved for pJIA in patients 2 years of age and older include Humira® (adalimumab), Enbrel® (etanercept), Actemra® (tocilizumab), Orencia® (abatacept), Simponi Aria (golimumab), Xeljanz® (tofacitinib), and Xeljanz (tofacitinib) oral solution.

    - Of note, biologic therapy may be an appropriate initial therapy option in certain pJIA patients with risk factors and involvement of high-risk joints, high disease activity, and/or for those judged to be at high risk of disabling joint damage.

  - There is the most experience with TNFi (Humira, Enbrel, Simponi Aria) as initial biologic therapy; however, the preferred class of initial biologic is not specified in the guideline recommendations due to a lack of comparative data and the consideration that non-TNFi biologics may be preferred in certain patient-specific scenarios.

  - If a TNFi is started as the initial biologic, switching to a non-TNFi (tocilizumab or abatacept) is recommended over switching to a second TNFi. An exception to this is for those who had a good initial response to the first TNFi.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Cimzia (certrolizumab pegol) [prescribing information]. Smyrna, GA: UCB, Inc. September 2024.
2. Enbrel (etanercept) [prescribing information]. Thousand Oaks, CA: Immunex Corporation; June 2025.
3. Fraenkel L, et al. 2021 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Care & Research. 2021 Jul; 73 (7):924-939.
4. Humira (adalimumab) [prescribing information]. North Chicago, IL: AbbVie; July 2025.
5. Inflectra (infliximab-dyyb) [prescribing information].New York, NY: Pfizer; June 2021.
6. Moderate to severe ulcerative colitis. Gastroenterology. 2020; 158: 1450 - 61.
7. Remicade (infliximab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; February 2025.
8. Renflexis (infliximab-abda) [prescribing information]. Whitehouse Station, NJ: Merc Sharp & Dohme Corp; December 2023.
9. Ringold et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Treatment of JIA. Arthritis Care and Research. Vol 71 No 6 Jun 2019.
10. Rubin DT, Ananthakrishnan AN, Siegel CA, et al. ACG clinical guideline: ulcerative colitis in adults. Am J Gastroenterol. 2019; 114: 384–413.
11. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
12. Simponi (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; October 2025.
13. Simponi Aria (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; April 2025.
14. Singh JA, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis Rheumatol. 2019 Jan; 71 (1): 5-32.
15. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
16. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.

Policy History		
#	Date	Change Description
2.1	Effective Date: 07/01/2026 P&T Date: 06/11/2026	New policy containing existing criteria from the Simponi and Simponi ARIA policies. The individual policies for Simponi and Simponi ARIA will be retired. Golimumab biosimilars Immgolis and Immgolis INTRI were included in the policy. Added criteria providing coverage for biosimilar products for FDA labeled indications of the innovator product when criteria are met. Removed conventional therapy requirement for ulcerative colitis criteria due to updated guidelines. Removed requirement to use in combination with methotrexate for rheumatoid arthritis to align with how criteria is implemented Changed member must self-administer criteria to require golimumab instead of Simponi to allow flexibility in coverage
2.0	Effective Date:	UM medical management system update for BCBS and BCN for Immgolis INTRI

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	06/01/2026	
1.9	Effective Date: 11/24/2025 P&T Date: 10/09/2025	Added that the member will self-administer Simponi unless clinically unable to do so
1.8	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
1.7	Effective Date: 12/14/2023	Annual review of criteria performed, no changes were made
1.6	Effective Date: 12/01/2022	Annual review of criteria performed, no changes were made
1.5	Effective Date: 12/09/2021	Removed FDA approved indications criteria Removed oral DMARD criteria for psoriatic arthritis indication Updated background information for rheumatoid arthritis to reflect 2021 guidelines; remaining guideline references within this section of the policy are up to date
1.4	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications
1.3	Effective Date: 02/06/2020	Annual Review
1.2	Effective Date: 02/14/2019	Updated criteria for PsA diagnosis Updated language regarding combination therapy with other biologics
1.1	Effective Date: 09/07/2018	The Treatments for RA Policy is being retired; Adding RA criteria back into this document
1.0	Effective Date: 05/03/2018	New Criteria

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	Yes
BCN	Yes
MAPPO	Yes
BCNA	Yes

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Hemgenix® (etranacogene dezaparvovec-drlb)
HCPCS: J1411

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Hemgenix is an adeno-associated virus vector-based gene therapy indicated for the treatment of adults with hemophilia B who currently use factor IX prophylaxis therapy, or have a current or historical life-threatening hemorrhage, or have repeated, serious spontaneous bleeding episodes.

- Hemophilia B is a rare genetic bleeding disorder in which affected individuals have insufficient levels of factor IX. It is the second most common type of hemophilia and caused by mutations in the F9 gene. The F9 gene is located on the X chromosome and thus the disease is inherited as an X-linked recessive trait. About 30% of cases are the result of spontaneous genetic mutations. Studies report that over 50% of people newly diagnosed with severe hemophilia have no prior family history. Overall incidence is estimated at 1 in 25,000 male births.

- The symptoms and severity of hemophilia B may vary greatly from one person to another. Hemophilia B can range from mild to moderate to severe.

    - Mild hemophilia patients have a factor activity of 5% to 40% and usually do not experience any major problems in everyday life. It often goes unnoticed until puberty or adulthood when bleeding after surgery or a deep cut lasts longer than normal. These patients do not typically need prophylactic therapy and only require on-demand factor for injuries or surgeries.

    - Moderate hemophilia patients have a factor activity of 1% to 5% and may have occasional episodes of spontaneous bleeding from deep tissues such as joints and muscles. These episodes are usually associated with some injury or inciting event. Individuals with moderate hemophilia B are at risk for prolonged bleeding following surgery or trauma. Affected individuals are usually diagnosed by 5 or 6 years of age. The frequency of spontaneous bleeding episodes in individuals with moderate hemophilia B is highly variable resulting in some patients needing consistent prophylactic factor IX and others only needing on-demand factor IX for medical procedures.

    - Severe hemophilia patients have a factor level of less than 1% and often have bleeding for no known reason, especially in the joints and muscles. From infancy, patients bruise easily and as they become more active, learn to walk, and put more strain on their joints and muscles, bleeding starts to occur. Without preventative treatment, a young child may experience 2 to 5 spontaneous bleeding episodes per month.

- Hemophilia B should be suspected in individuals presenting with a history of easy bruising, spontaneous bleeding, particularly into the joints, muscles, and soft tissues, or excessive bleeding following trauma or surgery. If hemophilia is suspected, the clinician should obtain the patient's bleeding history and family history of abnormal or unexplained bleeding experienced by any siblings or maternal male relatives to assess patterns of inheritance and assist with diagnosis. A definitive hemophilia B diagnosis is based on a factor assay to demonstrate a deficiency of factor IX. Once an individual is diagnosed with hemophilia B, the specific mutation in the F9 gene responsible for causing hemophilia may be identified.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The current standard of care for hemophilia B is the use of factor IX replacement therapy. There are two types of factor products available to treat hemophilia which include plasma derived factor, entirely made of plasma from human donations and recombinant factor, which is made by genetically engineered technology, both with standard and extended half-life products. All factor products have demonstrated to have similar safety and efficacy in clinical studies treating or reducing bleeding episodes with the apparent difference in the frequency of administration: up to three times weekly injections for standard products and weekly or every two weeks for extended half-life products. To be enrolled in the HOPE-B trial, patients needed to be stable on factor IX therapy for 6 months prior Hemgenix administration.

- It is estimated that less than 5% of individuals with severe hemophilia B develop inhibitors against factor IX replacement therapy. Inhibitors most often develop during childhood, especially during the first 20 exposure days. Exposure days are counted as a day during which a patient receives factor. Controlling bleeds is a greater challenge in hemophilia patients with inhibitors than in those without. Inhibitors to factor IX are associated with a higher disease burden, including increased risk of musculoskeletal complications, pain, physical limitations, and treatment challenges, all of which may impact a patient's physical functioning, capacity for physical activities, and quality of life. The definition of a positive inhibitor is a Bethesda titer of greater than or equal to 0.3 BU for factor IX. Patients positive for factor IX inhibitors or with a prior history of factor IX inhibitors were excluded from the HOPE-B trial. In order to limit the risk of inhibitor development following Hemgenix therapy, the HOPE-B study also required patients had greater than 150 prior exposure days to factor IX therapy before receiving gene therapy.

- Hemgenix uses an adeno-associated virus serotype 5 vector (AAV5) to deliver a functional copy of the F9 gene to the patient's liver where functional factor IX is produced. Patients with high AAV5 antibody titers may not respond to gene therapy due to the antibodies neutralizing Hemgenix before the functional F9 gene can be properly incorporated into the patient's genome. The HOPE-B study did not exclude patients from the trial based on antibody titers, however, the trial had one non-responder to treatment whose antibody titer level was 1:700. It is important for physicians to be aware of the patients antibody titer levels before administering treatment.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Hemgenix [prescribing information]. King of Prussia, PA: CSL Behring LLC; January 2025.
2. Clinicaltrials.gov. HOPE-B: Trial of AMT-061 in severe or moderately severe hemophilia b patients (NCT03569891). Available at: https://clinicaltrials.gov/ct2/show/NCT03569891. Accessed on November 22, 2022.
3. Shapiro AD. Hemophilia b. 2018. Available at: https://rarediseases.org/rare-diseases/hemophilia-b/. Accessed on November 22, 2022.
4. World Federation of Hemophilia. Guidelines for the management of hemophilia. Haemophilia. 2020 August 3. Available at: https://onlinelibrary.wiley.com/doi/epdf/10.1111/hae.14046. Accessed on: November 22, 2022.
5. Carcao M and Goudemand J. Inhibitors in hemophilia: a primer. 2018 Nov. Available at: https://www1.wfh.org/publication/files/pdf-1122.pdf. Accessed on November 22, 2022.
6. World Federation of Hemophilia. The WFH guidelines for the management of haemophilia: AAV gene therapy. Haemophilia. 2025 Jan/Feb; 32 (1): 20 – 54.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.7</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 06/05/2025</td><td>Updated to change the provider portal from Audaire Health to the appropriate provider portal</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/08/2023</td><td>Removed confirmation of diagnosis via decreased factor IX levels</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/02/2023</td><td>New policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 12/08/2022</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/02/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 10/06/2022</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Hemophilia Class Policy
HCPCS: See Appendix A below

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- There are two types of hemophilia: hemophilia A and hemophilia B
  - Hemophilia A is defined as a deficiency in factor VIII clotting factor
  - Hemophilia B is defined as a deficiency in factor IX clotting factor
- There are three main levels of severity
  - Mild hemophilia patients have a factor activity of 5% to 40% and usually do not experience any major problems in everyday life. It often goes unnoticed until puberty or adulthood when bleeding after surgery or a deep cut lasts longer than normal. These patients do not typically need prophylactic therapy and only require on-demand factor for injuries or surgeries.
  - Moderate hemophilia patients have a factor activity of 1% to 5% and may have occasional bleeding, but usually only following surgery or an injury. Only rarely will there be no apparent cause.
  - Severe hemophilia patients have a factor level of less than 1% and often bleed for no known reason, especially in the joints and muscles. From infancy, patients bruise easily and as they become more active, learn to walk and put more strain on their joints and muscles, bleeding starts to occur.
- Factor replacement therapy is the mainstay of treatment of prevention of bleeding episodes in hemophilia. There are two types of factor products available to treat hemophilia which include plasma derived factor, entirely made of plasma from human donations and recombinant factor, made by genetically engineered technology, both with standard and extended half-life products. There is also a highly sustained, extended half-life recombinant product. All factor products have demonstrated to have similar safety and efficacy in clinical studies treating or reducing bleeding episodes with the apparent difference in the frequency of administration: up to three times weekly injections for standard and weekly or twice weekly for extended half-life products.
- Despite widespread availability of safe and effective factor replacement therapy, patients with hemophilia continue to experience a tremendous burden of treatment, breakthrough bleeding, and progressive joint disease. Some of these issues may be addressed in select patients with the use of non-factor therapies, such as, Hemlibra, Hympavzi, Alhemo, and Qfitlia. Hemlibra is a monoclonal immunoglobulin G4 (IgG4) antibody that bridges activated factor IX and factor X to restore the function of missing activated factor VIII that is needed for effective hemostasis. It is indicated for use as prophylactic therapy for hemophilia A in patients with or without inhibitors. Hympavzi is a tissue factor pathway inhibitor (TFPI) antagonist that reduces the amount of tissue factor pathway inhibitor, thereby increasing the amount of thrombin

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

generated. It is indicated for routine prophylaxis to prevent or reduce the frequency of bleeding episodes in hemophilia A and B with and without inhibitors. Alhemo is an additional TFPI indicated for routine prophylaxis to prevent or reduce the frequency of bleeding episodes in hemophilia A and B with and without inhibitors. Qfitlia is an antithrombin-directed small interfering ribonucleic acid (siRNA) indicated for routine prophylaxis to prevent or reduce the frequency of bleeding episodes in adult and pediatric patients aged 12 years and older with hemophilia A or B with or without factor VIII or IX inhibitors.

- Patients with severe hemophilia may develop an inhibitor sometime in their lives. Inhibitors most often develop during childhood, especially during the first 50 exposure days to factor replacement.

- Inhibitors are classified into two categories.

    - Those with a 5 or higher Bethesda units (BU)/mL result are classified as having a "high responding" inhibitor level.

    - Those who measure below 5 BU/mL are classified as having a "low responding" inhibitor level.

- Depending on the inhibitor level, different therapeutic options are available to patients.

    - Bypassing agents are used in the treatment of inhibitors. These contain factors that can stimulate the formation of a clot and stop bleeding. While these treatments are effective, many limitations exist including potential for bleeding or over-production of clots, and the need for frequent doses.

    - Hemlibra (emicizumab) is a recombinant, humanized, bispecific monoclonal antibody that bridges activated factor IX and factor X to restore the function of missing activated factor VIII in hemophilia A patients to restore hemostasis. Hemlibra has only been studied in patients with inhibitors greater than 5 BU/mL and has not been studied in combination with Immune Tolerance Induction therapy.

    - Hympavzi is a tissue factor pathway inhibitor (TFPI) antagonist that reduces the amount of tissue factor pathway inhibitor, thereby increasing the amount of thrombin generated resulting in a reduction in the number of bleeding episodes. Hympavzi has only been studied in patients with inhibitors greater than 5 BU/mL and has not been studied in combination with Immune Tolerance Induction therapy.

    - Alhemo (concizumab-mtci) is a TFPI that reduces the amount of tissue factor pathway inhibitor, thereby increasing the amount of thrombin generated resulting in a reduction in the number of bleeding episodes. Alhemo has been studied in patients with inhibitors greater than 0.6 BU/mL and has not been studied in combination with Immune Tolerance Induction therapy. While Alhemo has been studied in patients with 0.6 BU/mL inhibitors, those with inhibitors less than 5 BU/mL can be treated with higher doses of factor calculated to overcome the inhibitor titer and provide a hemostatic level.

    - Qfitlia (fitusiran) is a siRNA that causes degradation of antithrombin (AT) messenger RNA (mRNA) through RNA interference, reducing plasma AT levels. Qfitlia has only been studied in patients with inhibitors greater than 0.6 BU/mL and has not been studied in combination with Immune Tolerance Induction therapy. While Qfitlia has been studied in patients with 0.6 BU/mL inhibitors, those with inhibitors less than 5 BU/mL can be treated with higher doses of factor calculated to overcome the inhibitor titer and provide a hemostatic level.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Corifact [package insert]. Kankakee, IL: CSL Behring LLC; December 2019.
2. Alphanate [package insert]. Los Angeles, CA: Grifols Biologicals, Inc.; March 2021.
3. Humate-P [package insert]. Kankakee, IL: CSL Behring LLC; June 2020.
4. Wilate [package insert]. Hoboken, NJ: Octapharma USA, Inc.; September 2019.
5. NovoSeven RT [package insert]. Plainsboro, NJ: Novo Nordisk, Inc.; July 2020.
6. Hemofil M [package insert]. Westlake Village, CA: Baxter Healthcare Corp; March 2017.
7. Koāte-DVI [package insert]. Fort Lee, NJ: Kedrion Biopharma, Inc.; June 2018.
8. Advate [package insert]. Westlake Village, CA: Baxter Healthcare Corp.; December 2018.
9. Helixate FS [package insert]. Kankakee, IL: CSL Behring LLC; May 2016.
10. Kogenate FS [package insert]. Whippany, NJ: Bayer HealthCare LLC; December 2019.
11. Recombinate [package insert]. Westlake Village, CA: Baxter Healthcare Corp.; June 2018.
12. Xyntha [package insert]. Philadelphia, PA: Wyeth Pharmaceuticals, Inc.; July 2022.
13. Feiba [package insert]. Westlake Village, CA: Baxter Healthcare Corp; December 2020.
14. AlphaNine SD [package insert]. Los Angeles, CA: Grifols Biologicals, Inc.; March 2021.
15. Mononine [package insert]. Kankakee, IL: CSL Behring LLC; December 2018.
16. Profilnine [package insert]. Los Angeles, CA: Grifols Biologicals, Inc.; June 2018.
17. BeneFIX [package insert]. Philadelphia, PA: Wyeth Pharmaceuticals, Inc.; November 2022.
18. Afstyla [package insert]. Kankakaee, IL: CSL Behring LLC; April 2021.
19. Kovaltry [package insert]. Whippany, NJ: Bayer HealthCare LLC; December 2022.
20. Novoeight [package insert]. Plainsboro, NJ: Novo Nordisk, Inc.; July 2020.
21. Nuwiq [package insert]. Hoboken, NJ: Octapharma USA, Inc.; June 2021.
22. Adynovate [package insert]. Westlake Village, CA: Baxalta US, Inc.; June 2021.
23. Eloctate [package insert]. Waltham, MA: Bioverativ Therapeutics, Inc.; December 2020.
24. Esperoct [package insert]. Plainsboro, NJ: Novo Nordisk, Inc.; August 2022.
25. Jivi [package insert]. Whippany, NJ: Bayer HealthCare LLC; August 2018.
26. Hemlibra [package insert]. South San Francisco, CA: Genentech, Inc.; June 2022.
27. Ixinity [package insert]. Seattle, WA: Aptevo BioTherapeutics LLC; November 2022.
28. Rixubis [package insert]. Westlake Village, CA: Baxalta US, Inc.; June 2020.
29. Alprolix [package insert]. Cambridge, MA: Biogen Idec; October 2020.
30. Idelvion [package insert]. Kankakee, IL: CSL Behring LLC; July 2021.
31. Rebinyn [package insert]. Plainsboro, NJ: Novo Nordisk, Inc.; August 2022.
32. Coagadex [package insert]. Durham, NC: Bio Products Laboratory USA, Inc.; November 2020.
33. Tretten [package insert]. Plainsboro, NJ: Novo Nordisk; June 2020.
34. Vonvendi [package insert]. Lexington, MA: Baxalta US, Inc.; January 2022.
35. Hympavzi [prescribing information]. New York, NY: Pfizer, Inc.; June 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

36. Sevenfact [prescribing information]. Louisville, KY: Laboratoire Français du Fractionnement et des Biotechnologies S.A.; April 2020.
37. Altuviiio [prescribing information]. Waltham, MA: Bioverativ Therapeutics Inc.; February 2023.
38. Alhemo [prescribing information]. Plainsboro, NJ: Novo Nordisk, Inc.; July 2025.
39. Qfitlia [prescribing information]. Cambridge, MA: Genzyme Corporation; March 2025.
40. World Federation of Hemophilia. Guidelines for the management of hemophilia. Haemophilia. 2020 August 3. Available at: https://onlinelibrary.wiley.com/doi/epdf/10.1111/hae.14046. Accessed on: January 2, 2025.
41. Oldenburg J, Mahlangu JN, Kim B, et al. Emicizumab prophylaxis in hemophilia A with inhibitors. NEMJ. 2017; 377: 809 – 18.
42. Mahlangu JN, Oldenburg J, Paz-Priel I, et al. Emicizumab prophylaxis in patients who have hemophilia A without inhibitors. NEJM. 2018 August; 319 (9): 811 – 22.
43. Clinicaltrials.gov. A multicenter, open-label, phase III clinical trial to evaluate the efficacy, safety, and pharmacokinetics of subcutaneous administration of emicizumab in hemophilia A pediatric patients with inhibitors (NCT02795767). Available at: https://clinicaltrials.gov/ct2/show/NCT02795767. Accessed on: November 19, 2018.
44. Clinicaltrials.gov. A randomized, multicenter, open-label, phase III clinical trial to evaluate the efficacy, safety, and pharmacokinetics of prophylactic emicizumab versus no prophylaxis in hemophilia A patients without inhibitors (NCT02847637). Available at: https://clinicaltrials.gov/ct2/show/NCT02847637. Accessed on: November 19, 2018.
45. National Organization for Rare Diseases. Hemophilia A. Available at: https://rarediseases.org/rare-diseases/hemophilia-a/. Accessed on: December 4, 2018.
46. Kempton CL & White II GC. How we treat a hemophilia A patient with a factor VIII inhibitor. Blood. 2009; 133: 11 - 7.
47. Franchini M & Lippi G. Acquired factor VIII inhibitors. Blood. 2008; 112: 250 - 5.
48. Matsushita T, Shapiro A, Abraham A, et al. Phase 3 trial of concizumab in hemophilia with inhibitors. NEJM. 2023 Aug 30; 389 (9): 783 – 94.
49. Srivastava A, Rangarajan S, Kavakli K, et al. Fitusiran prophylaxis in people with severe haemophilia A or haemophilia B without inhibitors (ATLAS-A/B): a multicentre, open-label, randomised, phase 3 trial. Lancet. 2023 May; 10 (5): e322 – 32.
50. Young G, Srivastava A, Kavakli K, et al. Efficacy and safety of fitusiran prophylaxis in people with haemophilia A or haemophilia B with inhibitors (ATLAS-INH): a multicentre, open-label, randomised phase 3 trial. Lancet. 2023 Apr 29; 401 (10386): 1427 - 37.

Policy History		
#	Date	Change Description
2.8	Effective Date: 09/28/2026 P&T Date: 08/13/2026	Updated to include criteria for Hympavzi use for hemophilia A and B with inhibitors and the statement not allowing non-factor products to be used in combination
2.7	Effective Date: 10/09/2025	Updated to allow use of Alhemo in patients without inhibitors in hemophilia A and hemophilia B
2.6	Effective Date: 09/01/2025	UM medical management system update for BCBS and BCN for Advate, Adynovate, Afstyla, Alhemo, Alphanate/VWF Complex/Human, AlphaNine SD, Alprolix, Altuviiio, BeneFIX, Coagadex, Corifact, Eloctate, Esperoct, Hemofil M, Humate-P, Idelvion, Ixinity, Jivi, Koate, Kogenate FS, Kovaltry, Mononine, Novoeight, Nuwiq, Profilnine, Rebinyn, Recombinate, Rixubis, Tretten, Vonvendi, Wilate, and Xyntha

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.5	P&T Date: 06/05/2025 Effective Date: 07/21/2025	Updated to require a higher dose of factor in patients with inhibitors less than 5 BU/mL requesting Alhemo, require self-administration of all hemophilia products unless the member is clinically unable to do so, and include Qfitlia
2.4	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Qfitlia
2.3	Effective Date: 04/11/2025	UM medical management system update for BCBS and BCN for Qfitlia
2.2	Effective Date: 02/13/2025	Updated to include Alhemo
2.1	Effective Date: 01/16/2025	UM medical management system update for BCBS and BCN for Alhemo
2.0	Effective Date: 01/06/2025	UM medical management system update for MAPPO and BCNA for Hympavzi
1.9	Effective Date: 12/12/2024	Updated to include Hympavzi and include the trial and failure of preferred products statement
1.8	Effective Date: 10/31/2024	UM medical management system update for BCBS and BCN for Hympavzi
1.7	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 04/06/2023	Updated to include Altuviiio
1.5	Effective Date: 04/22/2022	Updated to add wording only requiring antibody levels for Hemlibra when requesting doses above the FDA recommended regimen
1.4	Effective Date: 06/10/2021	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 06/11/2020	Added Sevenfact
1.2	Effective Date: 02/03/2020	UM medical management system update for BCNA and MAPPO for Hemlibra
1.1	Effective Date: 12/05/2019	Updated Wilate indication to include hemophilia A
1.0	Effective Date: 05/09/2019	New coverage criteria UM medical management system update for Hemlibra for BCBS and BCN

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Appendix A
Medications covered by this policy include, but not limited to the following:

Medication Name	Benefit	HCPCS
Advate	Medical	J7192
Adynovate	Medical	J7207
Afstyla	Medical	J7210
Alhemo	Medical	J7173
Alphanate	Medical	J7186
AlphaNine SD	Medical	J7193
Alprolix	Medical	J7201
Altuviiio	Medical	J7214
BeneFIX	Medical	J7195
Coagadex	Medical	J7175
Corifact	Medical	J7180
Eloctate	Medical	J7205
Esperoct	Medical	J7204
Feiba	Medical	J7198
Hemlibra	Medical	J7170
Hemofil M	Medical	J7190
Humate-P	Medical	J7187
Hympavzi	Medical	J7172
Idelvion	Medical	J7202
Ixinity	Medical	J7213
Jivi	Medical	J7208
Koate	Medical	J7190
Kogenate FS	Medical	J7192
Kovaltry	Medical	J7211
Mononine	Medical	J7193
Novoeight	Medical	J7182
NovoSeven RT	Medical	J7189
Nuwiq	Medical	J7209
Profilnine	Medical	J7194
Qfitlia	Medical	J7174
Rebinyn	Medical	J7203

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Recombinate	Medical	J7192
Rixubis	Medical	J7200
Sevenfact	Medical	J7212
Tretten	Medical	J7181
Vonvendi	Medical	J7179
Wilate	Medical	J7183
Xyntha	Medical	J7185

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Herceptin Hylecta™ (trastuzumab and hyaluronidase-oysk)
HCPCS: J9356

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Herceptin Hylecta is a combination of trastuzumab and hyaluronidase indicated in adults for the treatment of HER2-overexpressing breast cancer.
- Per the 2024 National Comprehensive Cancer Network guidelines for breast cancer, patients are eligible for adjuvant HER2-directed treatment if they have HER2-positive breast cancer defined as:

- Single probe average HER2 copy number greater than or equal to 6.0 signals/cell
  OR
- Dual probe HER2/CEP17 ratio greater than or equal to 2.0
  OR
- Dual probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

References:

1. Herceptin Hylecta [prescribing information]. South San Francisco, CA: Genentech, Inc; June 2024.
2. Jackisch C, Hegg R, Stroyakovskiy D, et al. HannaH phase III randomized study: association of total pathological complete response with event free survival in HER2-positive early breast cancer treated with neoadjuvant-adjuvant trastuzumab after 2 years of treatment-free follow-up. Eur J Cancer. 2016; 62: 62 – 75.
3. Gligorov J, Ataseven B, Verrill M, et al. Safety and tolerability of subcutaneous trastuzumab for the adjuvant treatment of human epidermal growth factor receptor-2 positive early breast cancer: SafeHer phase III study's primary analysis of 2573 patients. Eur J Cancer. 2017 Sept; 82: 237 – 46.
4. National Comprehensive Cancer Network (NCCN). Breast cancer (Version 4.2025). 2025 April 17. Available from: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed December 10, 2024.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.0</td><td>Effective Date:

08/13/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>P&T Date:
08/07/2025

Effective Date:
12/01/2025</td><td>Updated to include a step on intravenous trastuzumab</td></tr>
<tr><td>1.8</td><td>Effective Date:
02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date:
02/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date:
02/02/2023</td><td>Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time</td></tr>
<tr><td>1.5</td><td>Effective Date:
02/10/2022</td><td>Updated to remove prescriber requirement</td></tr>
<tr><td>1.4</td><td>Effective Date:
04/08/2021</td><td>Updated policy with NCCN guideline definition of HER2-positive breast cancer</td></tr>
<tr><td>1.3</td><td>Effective Date:
12/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date:
04/16/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date:
03/16/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date:
05/09/2019</td><td>New Policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Hereditary Angioedema Medications

Berinert® (c1 esterase inhibitor, human) **- HCPCS: J0597**
Cinryze™ (c1 esterase inhibitor, human) **- HCPCS: J0598**
Firazyr® (icatibant acetate) **- HCPCS: J1744**
Kalbitor® (ecallantide) **- HCPCS: J1290**
Ruconest™ (c1 esterase inhibitor, recombinant) **- HCPCS: J0596**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- HAE is an autosomal dominant disease caused by a deficiency of the plasma protein C1 inhibitor. The incidence of HAE is estimated to be approximately 1 in 50,000 individuals. HAE due to C1 inhibitor (C1-INH) deficiency, consists of Type I HAE (C1-INH deficiency) and Type II HAE (C1-INH dysfunction). Type I is the most common, accounting for around 85% of cases. Type II occurs in approximately 15% of cases. This disease state is characterized by subcutaneous and submucosal edema involving any part of the skin and the respiratory and gastrointestinal tracts. The role of C1 inhibitor is to regulate activation of several compliment proteases, contact-system proteases, and the fibrinolytic system. During HAE attacks, these plasma proteolytic cascades are activated and several vasoactive substances such as bradykinin are generated. Bradykinin binds to receptors on endothelial cells and causes an increase in vascular permeability that results in edema.

- Angioedema attacks are often initiated by trauma, infection, and febrile illness, but many episodes occur without a known trigger. The frequency and severity of attacks varies among patients. Untreated patients have attacks every 7-14 days on average with the frequency ranging from practically never to every 3 days.

- Per the US hereditary angioedema association (HAEA) medical advisory board 2020 guidelines for the management of hereditary angioedema, diagnosis of HAE requires recognition of clinical symptoms, which include recurrent cutaneous angioedema (in the absence of urticaria), abdominal symptoms from gastrointestinal angioedema, and airway symptoms due oropharyngeal/laryngeal swelling, and if HAE is suspected based on clinical presentation appropriate testing includes measurement of serum C4 level, C1INH antigenic level, and C1INH functional level. In patients with onset of isolated angioedema symptoms after the age of 40 or with concomitant lymphoproliferative or autoimmune conditions, a C1q level is useful to help distinguish between HAE-C1INH and acquired C1INH deficiency. C1q levels are decreased in 80% of acquired C1INH deficiency and rarely low in HAE-C1INH.

- HAE with normal C1-INH antigenic levels (previously referred to as Type III HAE) is found predominantly in women. It has been suggested that HAE with normal C1-INH is caused by activating mutations in the gene for coagulation factor XII and thus not a disease of C1-esterase deficiency. Clinical trials have demonstrated that treatment with C1 inhibitors have no therapeutic effect in patients presenting with normal C1 inhibitor concentrations and function.

- Acute Treatment and Short-Term Prophylaxis

    - It is important to note that the treatment of acute attacks differs from short-term prophylaxis. Short-term prophylaxis is indicated for patients undergoing dental

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

procedures or surgery, both of which have been known to trigger an HAE attack. Fresh-frozen plasma has been reported to have shown a benefit for this indication, but its use is controversial because of its potential to exacerbate attacks in some patients. Epinephrine may provide temporary benefits, and neither corticosteroids nor antihistamines have shown to provide meaningful benefit in acute attacks or in short-term prophylaxis. Treatment with antifibrinolytics and 17α-alkylating androgens (such as danazol and stanozolol) takes several days to take effect; therefore, they are not suitable for acute treatment. Berinert (C1-inhibitor replacement therapy) is approved in the US for treatment of acute HAE attacks in adult and pediatric patients, and Kalbitor (ecallantide) is approved in the US for treatment of acute attacks in patients ≥ 12 years of age. Firazyr (icatibant) is a potent, specific, and selective B2 BK receptor antagonist that has been approved by the FDA for the acute treatment of HAE in adults. Ruconest (conestat alfa) was approved in 2014 and is a C1 esterase inhibitor [recombinant] indicated for the treatment of acute attacks in adult and adolescent patients. Ruconest cannot be used to treat laryngeal attacks. Ekterly (sebetralstat) is an oral tablet approved in 2025 and is a plasma kallikrein inhibitor indicated for the treatment of acute attacks of HAE in adult and pediatric pagients aged 12 years and older. Prior to these approvals, the cornerstone of therapy in the US included symptomatic relief with pain management, IV fluids and supportive care.

- Long-term Prophylaxis

  - For patients who experience more than one attack per month, long-term prophylaxis is suggested. The treatments include antifibrinolytics, 17α-alkylating androgens, fresh-frozen plasma, kallikrein inhibitors, and C1 inhibitors. Antifibrinolytics have been reported for use in prevention of HAE attacks based on low quality evidence. Rare but serious side effects have been associated with the use of these antifibrinolytic agents. The 17α-alkylating androgens were the standard of treatment and have a long term track record of efficacy; however, recently updated guidelines recommend androgen use as second line therapy due to potential adverse events. Cinryze is a purified, pasteurized, and nanofiltered plasma-derived C1 inhibitor (human) product that has been approved by FDA for routine prophylaxis against HAE attacks and for the treatment of acute attacks in adults and adolescent patients with HAE. Haegarda is a plasma-derived C1 inhibitor (human) that was approved in June 2017 for use in the US as prophylaxis against HAE attacks in adolescent and adult patients. C1 inhibitor therapy has been used for more than 30 years in Europe to treat patients with C1 inhibitor deficiency. Takhzyro and Orladeyo are kallikrein inhibitors approved in 2018 and 2020 respectively for prophylaxis against HAE attacks, Andembry is a Factor XII inhibitor approved in 2025 for the prophylaxis against HAE, and Dawnzera is a prekallikrein-directed antisense oligonucleotide approved in 2025 for the prophylaxis against HAE.

  - On August 23, 2018, the Food and Drug Administration (FDA) approved Shire's Takhzyro for prophylaxis to prevent attacks of hereditary angioedema (HAE) in patients 2 years of age or older. Takhzyro is the first human monoclonal antibody that targets plasma kallikrein to prevent attacks of edema. It differs from the current prophylactic treatments for HAE, Cinryze and Haegarda, which are both proteins designed to replace the missing C1 inhibitor in HAE patients. Orladeyo, an oral kallikrein inhibitor, was approved in December 2020 and provides the first orally administered non-steroidal option for preventing HAE attacks. Andembry, a subcutaneous Factor XII inhibitor was approved in June 2025 for prophylaxis to prevent attacks of HAE in adult and pediatric patients aged 12 years and older.

  - Per the US hereditary angioedema association (HAEA) medical advisory board 2020 guidelines for the management of hereditary angioedema, patients with HAE may require prophylactic treatment. The goal of prophylactic treatment is either to reduce the likelihood of swelling in a patient undergoing a stressor or procedure likely to precipitate an attack (short-term prophylaxis) or to decrease the overall number, severity, and burden of angioedema attacks with long-term prophylaxis (LTP). As there are significant differences in route of administration, side effect profiles, and efficacy between these drugs, patient preference and experience need to be considered in the selection of the most appropriate therapy. The decision on when to use LTP treatment should reflect the needs of the individual patient. Decisions regarding which patients should be considered for LTP should take into account the patient's quality of life and treatment preferences in the context of attack frequency, attack severity, comorbid conditions, and access to emergent treatment. Because disease severity may change over time, the need

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

to start or continue LTP should be periodically reviewed and discussed with the patient. First-line treatments for LTP include IV Cinryze, SC Haegarda, and SC Takhzyro (Orladeyo, Andembry, and Dawnzera hadn't been approved at the time these guidelines were published and therefore aren't included). The World Allergy Organization (WAO)/European Academy of Allergy and Clinical Immunology (EAACI): International guideline for the management of hereditary angioedema – The 2021 revision and update (published 2022) recommends IV Cinryze, SC Haegarda, SC Takhzyro, and oral Orladeyo as first-line LTP therapy all with an evidence level A.

References:

1. Berinert [Prescribing Information]. Kankakee, IL. CSL Behring. September 2021.
2. Cinryze [Prescribing Information]. Lexington, MA: Takeda. January 2021.
3. Firazyr [Prescribing Information]. Lexington, MA: Takeda. October 2021.
4. Sajazir [Prescribing Information]. Cambridge United Kingdom. Cycle Pharmaceuticals Ltd. May 2022.
5. Haegarda [Prescribing Information]. Kankakee, IL. CSL Behring. January 2022.
6. Kalbitor [Prescribing Information]. Lexington, MA: Takeda. November 2021.
7. Ekterly [prescribing information]. Cambridge MA. KalVista Pharmaceuticals, Inc. July 2025
8. Andembry [prescribing information]. King of Prussia, PA. CSL Behring. June 2025
9. Dawnzera [prescribing information]. Carlsbad, CA. Ionis Pharmaceuticals Inc. August 2025
10. Ruconest (C1 esterase inhibitor [recombinant]) [Prescribing Information]. Warren, NJ: Pharming. April 2020.
11. Redbook™. Truven Health Analytics. Accessed 8/18/2017.
12. Tarzi MD, Hickery A, Forster T, et al. An evaluation of tests used for the diagnosis and monitoring of C1 inhibitor deficiency: normal serum C4 does not exclude hereditary angio-edema. Clin Exp Immunol 2007; 149:513-516.
13. www.HAEA.org. Accessed October 3, 2016.
14. Gompels MM, Lock RJ, Abinun M, et al. C1 inhibitor deficiency: consensus document. Clin Exp Immunol 2005; 139:379-364.
15. Zuraw BL. Hereditary Angioedema. N Engl J Med 2008; 359:1027-36.
16. Gras J. Icatinab for hereditary angioedema. Drugs Today 2009; 45(12): 855-64.
17. Sachse, M et al. Hereditary Angioedema. Journal of Drugs in Dermatology 2006; 5(9): 848-852.
18. Cicardi M, Alberer W, Banerji A et al. Classification, diagnosis, and approach to treatment for angioedema: consensus report from the Hereditary Angioedema International Working Group. Allergy. 2014, 69(5):602- 16.
19. Zuraw BL, Bork K, Binkley K et al. Hereditary angioedema with normal C1 inhibitor function: Consensus of an international expert panel. Allergy Asthma Proc. 2012;33:S145-56.
20. Riedl, MA, Bernstein, JA, Li, H, et al. Recombinant human C1-esterase inhibitor relieves symptoms of hereditary angioedema attacks: phase 3, randomized, placebo-controlled trial. Ann of Allergy Asthma Immunol. 2014 Feb;112(2):163-9 e1.
21. Takhzyro [prescribing information]. Lexington, MA: Takeda; November 2018.
22. Maurer M, Magerl M, Betschel S, et. al. The international WAO/EAACI guideline for the management of hereditary angioedema-The 2021 revision and update. Allergy. 2022 Jul;77(7):1961-1990. doi: 10.1111/all.15214. Epub 2022 Feb 3. PMID: 35006617.
23. Orladeyo [prescribing information]. Durham, NC: BioCryst Pharmaceuticals, Inc. December 2025.
24. Busse PJ, Christiansen SC, Riedl MA, et al. US HAEA Medical Advisory Board 2020 Guidelines for the Management of Hereditary Angioedema. The Journal of Allergy and Clinical Immunology. Available online 6 September 2020 https://www.haea.org/assets/img/2020MAB_guidelines.pdf accessed December 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

25. Zuraw B, Farkas H. Hereditary angioedema: Epidemiology, clinical manifestations, exacerbating factors, and prognosis. UpToDate. https://www.uptodate.com/contents/hereditary-angioedema-epidemiology-clinical-manifestations-exacerbating-factors-and-prognosis accessed December 2020.
26. Cicardi M, Bork K, Caballero T, et al. Evidence-based recommendations for the therapeutic management of angioedema owing to hereditary C1 inhibitor deficiency: consensus report of an International Working Group. European Journal of Allergy and Clinical Immunology. First published 30 November 2011. https://onlinelibrary.wiley.com/doi/full/10.1111/j.1398-9995.2011.02751.x accessed December 2020.
27. U.S. National Library of Medicine. Genetic Conditions – Hereditary angioedema https://medlineplus.gov/genetics/condition/hereditary-angioedema accessed December 2020.

Policy History		
#	Date	Change Description
3.4	Effective Date: 06/11/2026	Updated renewal criteria and authorization period for Takhzyro to extend dosing interval from q2w > q4w in those individuals stable and acute attack free after 6 months.
3.3	Effective Date: 06/01/2026	UM medical management system update for MAPPO and BCNA for Cinryze
3.2	Effective Date: 02/12/2026	Annual Review - includes background updates for Orladeyo's new oral pellet formulation and lowering its FDA approved age from 12 years and older to 2 years and older. No updates to the criteria
3.1	Effective Date: 01/20/2026 P&T Date: 12/04/2025	Updated to remove genetic testing requirement. Removed as genetic testing isn't a requirement for diagnosis of HAE.
3.0	Effective Date: 10/09/2025	Updated to include Dawnzera for prophylaxis
2.9	Effective Date: 08/07/2025	Updated to include Andembry for prophylaxis and Ekterly for acute treatment. Removed bullet A. > h. > iii. (specific steps for Cinryze). Cinryze steps will now be captured in the t/f preferred verbiage.
2.8	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to require a trial and failure of Orladeyo as well as Haegarda and Takhzyro for Cinryze and removed additional step therapy criteria for Orladeyo
2.7	Effective Date: 12/12/2024	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 12/14/2023	Update to remove C1q level to align with the HAE guidelines for diagnosis of HAE
2.5	Effective Date:	Update to require generic Firazyr before other acute treatment options.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	12/01/2022	Changed Firazyr/Sajazir quantity limit from 12 to 6 syringes per 30 days
2.4	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
2.3	Effective Date: 02/04/2021	Updated to include Orladeyo. Updated specific step therapy for Cinryze. Updated preferred verbiage
2.2	Effective Date: 04/16/2020	Updated language for preferred products Added requirement to start prophylactic therapy based on maxized acute treatment
2.1	Effective Date: 05/09/2019	Updated criteria to reflect Ruconest cannot be used to treat laryngeal attacks
2.0	Effective Date: 11/01/2018	Criteria updated to include Takhzyro and add preferred product update
1.9	Effective Date: 11/09/2017	Criteria updated to include Haegarda
1.8	Effective Date: 02/09/2016	Criteria updated to include expanded Berinert indication for pediatric patients
1.7	Effective Date: 07/01/2015	UM medical management system update for BCN for Firazyr
1.6	Effective Date: 02/01/2015	UM medical management system update for BCN for Ruconest
1.5	Effective Date: 10/30/2014	Updated to reflect addition of Ruconest to the market
1.4	Effective Date: 10/01/2014	UM medical management system update for BCBSM for Berinert, Cinryze, Firazyr, Kalbitor, and Ruconest
1.3	Effective Date: 08/14/2014	Updated for expanded Kalbitor indication (now ages 12+), and indicated ages for all medications now specified in document. Expanded coverage for prescribing physicians to include allergists. Firazyr expanded to medical benefit, and HCPCS codes added for all medications.
1.2	Effective Date: 10/24/2013	Criteria update
1.1	Effective Date: 01/01/2013	UM medical management system update for BCN for Berinert
1.0	Effective Date: 05/10/2012	New Policy. UM medical management system update for BCN for Cinryze and Kalbitor

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Hyaluronic Acid Intra-Articular Injections

Durolane - HCPCS: J7318
Euflexxa - HCPCS: J7323
Gel-One - HCPCS: J7326
Gelsyn-3 - HCPCS: J7328
GenVisc 850 - HCPCS: J7320
Hyalgan - HCPCS: J7321
Hymovis - HCPCS: J7322
Monovisc - HCPCS: J7327
Orthovisc - HCPCS: J7324
Supartz, FX - HCPCS: J7321
Synojoynt - HCPCS: J7331
Synvisc - HCPCS: J7325
Synvisc–One - HCPCS: J7325
Triluron - HCPCS: J7332
TriVisc - HCPCS: J7329

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Osteoarthritis (OA) is a common degenerative condition affecting the knees. It is characterized by deterioration and loss of the articular cartilage, subchondral sclerosis and osteophyte formation, and is often accompanied by inflammation of the synovium. Currently, no curative therapy is available for osteoarthritis and thus the overall goals of management are to reduce pain and prevent disability.

- Hyaluronan, also known as hyaluronate, hyaluronic acid or viscosupplementation, is a naturally occurring macromolecule that is a major component of synovial fluid and is thought to contribute to its viscoelastic properties. To date, over ten hyaluronans have received FDA approval, each using the 515 device approval path, which is obtained simply by demonstrating that the product is similar to a previously approved device. Current literature and guideline recommendations do not support the use of one hyaluronic acid product over another.

- FDA approved hyaluronic acid agents are indicated for the treatment of pain in knee OA in patients 18 years of age and older who have failed nonpharmacologic treatment and simple analgesics or NSAIDs. Knee OA requires a comprehensive plan for management, including physical, psychological,

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

and/or pharmacologic therapies. The approved use for hyaluronic acid products aligns with the treatment recommendations laid out in the most recent guidelines for management of knee OA.

- 2019 American College of Rheumatology (ACR)/Arthritis Foundation (AF) Guideline for the Management of Osteoarthritis of the Hand, Hip, and Knee:
  - The 2019 ACR/AF guidelines strongly recommend the use of exercise, self-management programs, weight loss, tai chi, and gait aids (i.e. tibiofemoral knee brace, cane) in nonpharmacologic management of knee OA. Heat and therapeutic cooling, cognitive behavioral therapy, kinesiotaping, and yoga are additional nonpharmacologic options conditionally recommended for managing knee OA.
  - With regard to pharmacologic approaches to treatment, the guidelines strongly recommend the use of topical NSAIDs, keeping with the principle that local therapies with minimal systemic exposure are preferable prior to systemic. Oral NSAIDs and intra-articular glucocorticoids are also strongly recommended, with NSAIDs being the initial oral treatment of choice for knee OA. Acetaminophen, duloxetine, and tramadol are conditionally recommended.
  - Intraarticular hyaluronic acid injections are conditionally recommended against in patients with knee OA due to a lack of data demonstrating consistent benefit without trial bias; however, in clinical practice the choice to use hyaluronic acid in patients with knee OA who have had an inadequate response to nonpharmacologic and pharmacologic therapies may be more favorable than offering no intervention.
- 2019 Osteoarthritis Research Society International (OARSI) Guidelines for the Non-surgical Management of Knee, Hip, and Polyarticular Osteoarthritis.
  - The 2019 OARSI guidelines strongly emphasize core treatments (i.e. arthritis education, land-based exercise programs, mind-body exercise, dietary management) for all patients prior to initiating therapy.
  - Pharmacologic and nonpharmacologic treatments with a high consensus recommendation include aquatic exercise, gait aids, topical NSAIDs, oral NSAIDs, and intraarticular corticosteroids. Treatment with intra-articular hyaluronic acid is a low consensus recommendation and is conditionally recommended after achieving an inadequate response to high consensus treatment options.
  - The use of acetaminophen for knee OA was conditionally not recommended, while the use of oral and transdermal opioids was strongly not recommended.
- The 2021 American Academy of Orthopaedic Surgeons (AAOS) Evidence-Based Clinical Practice Guideline for the Management of OA of the Knee (Non-Arthroplasty) does not recommend hyaluronic acid intraarticular injection(s) for routine use in the treatment of symptomatic OA of the knee (moderate strength recommendation). Though clinical trial results evaluating benefit with HA treatment have been mixed, the gudelines acknowledge that some studies have

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

demonstrated statistically significant improvement in OA symptoms with the use of HA. As such, the group agrees that viscosupplementation may represent a viable option for select patient groups, particularly those that failed other treatments when appropriately indicated.

- Of note, the above guideline recommendations apply to patients with knee OA and no contraindications to recommended therapies. The choice of treatment(s) should be individualized to the patient, evaluating for contraindications, comorbidities, disease severity, past medical/surgical history, and personal preferences.

References:

1. Bannuru RR, Osani, MC, et al. OARSI guidelines for the non-surgical management of knee, hip, and polyarticular osteoarthritis.Osteoarth Cart 2019: 27: 1578-1589.
2. Rutjes AWS, Juni P, da Costa BR, et al. Viscosupplementation for osteoarthritis of the knee. Ann Int Med 2012;
3. WPS. Local Coverage Determination: Intra-articular Injections of Hyaluronan (L30149). Rev: 6/1/14, revision 4.
4. Kolasinski, SL, Neogi T, et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Mangement of Osteoarthritis of the Hand, Hip, and Knee. Arth Care & Res 2020; 72: 149-162.
5. Supartz FX [package insert]. Durham, NC; Bioventus LLC; April 2015.
6. Hyalgan [package insert]. Parsippany, NJ; Fidia Pharma USA Inc.; May 2014.
7. Euflexxa [package insert]. Parsippany, NJ; Ferring Pharmaceuticals; July 2016.
8. Synvisc/Synvisc-One [package insert]. Ridgefield, NJ; Genzyme Biosurgery; September 2014.
9. Orthovisc [package insert]. Raynham, MA; DePuy Mitek, Inc.; September 2014.
10. Gel-One [package insert]. Warsaw, IN; Zimmer; May 2011.
11. Monovisc [package insert]. Raynham, MA; DePuy Mitek, Inc.; February 2014.
12. GelSyn-3 [package insert]. Durham, NC; Bioventus LLC; February 2016;
13. GenVisc 850 [package insert]. Doylestown, PA; OrthogenRx, Inc; September 2015.
14. Hymovis [package insert]. Parsippany, NJ; Fidia Pharma USA Inc.; October 2015.
15. Durolane [package insert]. Durham, NC; Bioventus LLC; September 2017.
16. Trivisc [package insert]. Doylestown, PA; OrthogenRx, Inc; November 2017.
17. Synjoynt [package insert]. North Wales, PA; Teva Pharmaceuticals, Inc.
18. Triluron [package insert]. Florham Park, NJ; Fidia Pharma USA, Inc.; July 2019.
19. American Academy of Orthopaedic Surgeons Management of Osteoarthritis of the Knee (Non-Arthroplasty) Evidence-Based Clinical Practice Guideline. https://www.aaos.org/oak3cpg Published August 30, 2021. Accessed August 22, 2023.

Policy History		
#	Date	Change Description
2.0	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.9	Effective Date: 10/03/2024	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 10/12/2023	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 10/06/2022	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 10/07/2021	Removed Medicare criteria requiring trial and failure of pharmacologic and non-pharmacologic therapy, and FDA approved age
1.5	Effective Date: 10/08/2020	Changed age requirement, quantity limits, authorization period, and renewal criteria to reflect standard verbiage Updated coverage criteria as follows: - Added topical NSAIDs and duloxetine to list of pharmacologic agents in bullet i. - Removed topical and oral NSAID requirement as it conflicted with bullet i. - Removed bullet stating contraindications to NSAIDs qualifies for coverage; other guideline-approved treatment options are listed and available
1.4	Effective Date: 01/01/2019	PA added to Gel-one, GelVisc 850, Hyalgan, Hymovis, Monovisc, Orthovisc, Synvisc, Synvisc-One, TriVisc, Visco-3, Synojoynt, and Triluron for MAPPO and BCNA
1.3	Effective Date: 11/07/2019	Updated criteria to remove exclusion from commercial medical benefit
1.2	Effective Date: 02/14/2019	Policy updated to include Trivisc and Durolane
1.1	Effective Date: 02/08/2018	Updated to exclude all HA products from the medical benefit
1.0	Effective Date: 10/20/2019	Policy and Criteria Update

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ilaris® (canakinumab)
HCPCS: J0638

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ilaris is an interleukin (IL)-1β blocker that is approved for the following indications and administered subcutaneously by a healthcare provider:
    - Periodic Fever Syndromes:
        - Cryopyrin-Associated Periodic Syndromes (CAPS) in adults and children 4 years of age and older including Familial Cold Autoinflammatory Syndrome (FCAS) and Muckle-Wells Syndrome (MWS).
        - Tumor Necrosis Factor Receptor Associated Periodic Syndrome (TRAPS) in adult and pediatric patients.
        - Hyperimmunoglobulin D Syndrome (HIDS)/Mevalonate Kinase Deficiency (MKD) in adult and pediatric patients.
        - Familial Mediterranean Fever (FMF) in adult and pediatric patients.
    - Active Still's disease, including adult-onset Still's disease (AOSD) and systemic juvenile idiopathic arthritis (sJIA) in patients 2 years of age and older.
    - Symptomatic treatment of gout flare in adults in whom NSAIDs and colchicine are contraindicated, not tolerated, or do not provide an adequate response, and in whom repeated courses of corticosteroids are not appropriate.
- Periodic Fever Syndromes are a group of rare autoinflammatory diseases that cause disabling and persistent fevers which may be accompanied by joint pain, swelling, muscle pain and skin rashes with complications that can be life-threatening.
    - The most common syndrome is FMF, which mainly affects people of Eastern Mediterranean ancestry. It affects 1 in 250 to 1 in 1,000 individuals in these populations, many of whom are children. FMF is characterized by episodic attacks of fever lasting one to three days and accompanied, in most cases, by abdominal pain, pleurisy, and arthralgias/arthritis.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- TRAPS is characterized by recurrent fevers over months or years. Other clinical features include focal myalgias, conjunctivitis, and rash. Fever and associated symptoms commonly last at least five days and often continue for more than two weeks.

- HIDS/MKD is characterized by episodic attacks of fever lasting three to seven days accompanied, in most cases, by chills, cervical lymphadenopathy, abdominal pain, vomiting, and/or diarrhea.

- CAPS are a group of rare genetic diseases affecting approximately 200 to 300 people in the United States, attributed to a specific genetic mutation. There are two types of CAPS recognized that affect the majority of patients.

    - Familial Cold Auto-Inflammatory Syndrome (FCAS) – patients have recurrent intermittent episodes of fever and rash that primarily followed natural, artificial (e.g., air conditioning) or both types of generalized cold exposure.

    - Muckle-Wells Syndrome (MWS) – patients have chronic fever and rash that may wax and wane in intensity; sometimes exacerbated by generalized cold exposure. This syndrome may be associated with deafness or amyloidosis.

    - The diagnosis of CAPS is confirmed by genetic testing for NALP3 mutations. However in some patients the mutation is not detectable for various reasons. For these situations, diagnostic criteria include raised inflammatory markers (C-reactive protein [CRP] and serum amyloid A) plus at least two of six typical CAPS manifestations:

        - Urticaria-like rash
        - Cold-triggered episodes
            - Sensorineural hearing loss
        - Musculoskeletal symptoms
            - Chronic aseptic meningitis
        - Skeletal abnormalities

- Clinical guidelines for management of Periodic Fever Syndromes include the following recommendations:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2016 European League Against Rheumatism (EULAR) clinical guidelines for the management of FMF recommend first-line treatment with colchicine as soon as a clinical diagnosis of FMF is established. Biological therapy with an IL-1β blocker should be considered if inflammation is not controlled with a maximally tolerated dose of colchicine.

- The 2021 EULAR/American College of Rheumatology (ACR) clinical guidelines for the management and of IL-1 mediated autoinflammatory diseases recommend IL-1β blocker therapy as standard of care for patients with TRAPS, MKD and CAPS.

    - Ilaris (cankinumab) is the preferred IL-1β blocker for TRAPS and MKD.

    - Arcalyst® (rilonacept) is another IL-1β blocker indicated for the treatment of CAPS. Both products appear to have similar efficacy. Ilaris has a more convenient dosing regimen and is indicated for a younger age population.

- Still's disease (adult onset and systemic juvenile idiopathic arthritis (sJIA))

    - sJIA is a rare and distinct subtype of juvenile idiopathic arthritis that causes body-wide inflammation. It accounts for 4-15% of JIA and is defined as arthritis in ≥ 1 joint for at least 6 weeks duration in a child age < 16 years with or preceded by a fever of at least 2 weeks duration that is documented to be daily for at least 3 days and accompanied by one or more of the following: evanescent erythematous rash, generalized lymphadenopathy, hepatomegaly or splenomegaly, and serositis. The condition can occur in adulthood with similar features and is referred to as adult onset Still's disease (AOSD) when diagnosed in patients ages ≥16 years.

    - AOSD and sJIA may also be complicated by macrophage activation syndrome (MAS), a secondary hemophagocytic 309yndrome that can be life-threatening and requires urgent recognition and treatment. MAS presents with fevers, high ferritin levels, cytopenias, elevated liver enzyme, low fibrinogen levels, and high triglyceride levels. Regardless of MAS presence at presentation, careful monitoring is necessary as MAS can occur at anypoint during the disease course.

    - The underlying inflammatory process of AOSD and sJIA appears to be distinct from other categories of autoimmune arthritis, with interleukin (IL)-1 and IL-6 playing a central role. The goal of therapy focuses on prompt control of active inflammation and symptoms and prevention of disease- and or treatment-related morbidities like growth disturbances, joint damage and functional limitations.

    - Treatment recommendations vary depending on the presence of MAS.The 2021 ACR guideline for pharmacologic management of oligoarthritis, TMJ arthritis, and sJIA in children recommend the following for the treatment of sJIA:

        - Classes of pharmacologic interventions addressed in the recommendations include:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Any NSAIDs at therapeutic dosing
- Traditional DMARDs (i.e., methotrexate, sulfasalazine, hydroxychloroquine, leflunomide, calcineurin inhibitors (cyclosporin A, tacrolimus))
- Biologics (i.e., tumor necrosis factor inhibitors (adalimumab, etanercept, infliximab, golimumab, certolizumab pegol), abatacept, IL inhibitors (tocilizumab, anakinra, canakinumab))
- Glucocorticoids, including any oral or intravenous agent, or intraarticular triamcinolone acetonide or triamcinolone hexacetonide.

– In the presence of MAS, an IL-1 or IL-6 inhibitor (no preferred agent) and/or systemic glucocorticoids are recommended for initial treatment. If residual arthritis is present, a traditional DMARD may be added or treatment can be switched to a different biologic agent (no preferred agent).

– In sJIA without MAS, the guidelines recommend monotherapy with an IL-1 or IL-6 inhibitor (no preferred agent) and/or a brief trial of scheduled NSAIDs. The guidelines do not provide a recommended duration of initial use for NSAIDs. Traditional DMARDs are strongly recommended against as initial monotherapy as they are minimally effective at controlling systemic features of sJIA alone. Glucocorticoids are also conditionally recommended against as initial monotherapy; however, they may be used to help control systemic and joint manifestations of sJIA until an IL-1 or IL-6 inhibitor can be started. If a patient experiences an incomplete response or intolerance to first-line treatment, switching to an alternative IL-1 or IL-6 inhibitor is recommended (no preferred agent).

– Regardless of the presence of MAS, if a patient responds to initial treatment but residual arthritis is present, a traditional DMARD or switch to a different biologic (no preferred agent) is recommended.

– Ultimately, treatment is continued and the patient monitored until the sJIA becomes inactive, at which point it is recommended that the patient taper and stop biologics and/or glucocorticoids.

- Ilaris (canakinumab; IL-1 inhibitor) and Actemra (tocilizumab; IL-6 inhibitor) are the only biologic agents FDA approved to treat sJIA, and Ilaris is the only drug approved for AOSD. There are no guidelines for treating AOSD; however, literature recommends a similar treatment approach as with sJIA. The use of Kineret (anakinra; IL-1 inhibitor) for sJIA and both Kineret and Actemra for AOSD is supported by various trials, case studies, and case series. Additionally, the efficacy of Kineret and Actemra in sJIA provides further evidence supporting the use of both agents in AOSD. The significantly lower cost of Actemra and Kineret make these agents more cost-effective alternatives to Ilaris for the treatment of sJIA and AOSD.

- Gout Flares

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Gout is an inflammatory arthritis that results from hyperuricemia, which contributes to crystallization of monosodium urate monohydrate in the joints. It is one of the most common rheumatic diseases of adulthood with significant morbidity attributed to gout flares (i.e. severe pain, reduced quality of life, decreased physical function). Acutely, anti-inflammatory treatment (e.g., NSAIDs, colchicine, corticosteroids) is used to provide rapid pain relief and resolution of gout glares. Chronically, urate-lowering therapy (ULT; e.g., allopurinol, febuxostat, probenecid) reduce urate stores and, along with anti-inflammatory prophylaxis, reduces the risk of new flares.

- One of the mainstays of gout treatment is patient education on diet, lifestyle modifications, and management of comorbidities with a goal of decreasing the risk and frequency of acute gout attacks and lowering serum urate levels. Dietary modifications include limiting consumption of purine-rich meat and seafood, alcohol, and beverages sweetened by high-fructose corn syrup, and encouraging the consumption of vegetables and low-/non-fat dairy products. Elimination of non-essential medications that may induce hyperuricemia should also be considered.

- The American College of Rheumatology (ACR) guidelines for the management of gout (2020) strongly recommend the use of pharmacologic ULT in gout patients experiencing frequent gout flares, defined as $\geq$ 2 flares annually.

    - Allopurinol, a xanthine oxidase inhibitor (XOI), is the preferred first-line treatment option and is strongly recommended for all patients requiring ULT based on allopurinol's efficacy, safety, tolerability, and low cost. Treatment should be initiated with a lower starting dose to mitigate safety issues, and gradually titrated to a target serum urate (SU) level of < 6 mg/dL, not to exceed a maximum of 800 mg per day.

    - If SU levels are persistently above target and a patient exhibits continued gout flares (> 2 per year) or has non-resolving subcutaneous tophi despite initial treatment with a maximally tolerated or maximally dosed XOI, the guidelines conditionally recommend switching to a second XOI (i.e. febuxostat) over adding a uricosuric agent (e.g., probenecid). The conditional recommendation is due to the fact that no studies directly address the choice of switching to another XOI vs. adding a uricosuric agent when the ULT strategy requires a change.

    - The 2020 ACR guidelines did not include a formal vote on the indications for uricosuric agents like probenecid; however, they do concur with the 2012 guidelines that add-on therapy with a uricosuric agent to partially responsive XOI treatment can result in improved control of SU. Additionally, literature supports the use of probenecid as monotherapy if there is a contraindication or intolerance to XOIs as it provides an alternative mechanism for the treatment of gout.

- Concomitant anti-inflammatory prophylaxis (e.g., colchicine, NSAIDs, glucocorticoids) is strongly recommended when initiating ULT for at least 3-6 months after initiation to reduce the risk of gout flares. After cessation, monitoring for flare activity and as-needed continuation of anti-inflammatory therapy if the patient continues to experience gout flares is strongly recommended.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For patients experiencing gout flares:

    - The guidelines strongly recommend using oral colchicine, NSAIDs, or glucocorticoids (oral, intraarticular, or intramuscular) as appropriate first-line therapy over IL-1 inhibitors like Ilaris based on substantial trial data demonstrating efficacy, relative low cost, and tolerability of these agents in managing a flare. Dosing and duration should be guided by flare severity, and choice of first-line agent should be based on patient factors.

    - Those who are unable to take oral medications are strongly recommended treatment with injectable glucocorticoids over IL-1 inhibitors. The guidelines do, however, conditionally recommend use of an IL-1 inhibitor for patients experiencing gout flares for whom the preferred anti-inflammatory therapies are either ineffective, poorly tolerated, or contraindicated.

    - The guidelines do not specifically address Ilaris in these recommendations, though they acknowledge that there is high quality evidence from network meta-analyses supporting its use for gout flares; however, the ACR panel raised concerns that the comparator in clinical trials was weak and that cost would significantly favor the other lower-cost, guideline-recommended therapies.

- The approval of Ilaris for gout flares was based on two 12-week randomized, double-blind, active-controlled studies in adults with gout flares for whom NSAIDs and/or colchicine were contraindicated, not tolerated, or ineffective, and experienced at least three gout flares in the previous year (β-RELIEVED and β-RELIEVED-II). Patients were randomized to Ilaris 150 mg subcutaneous or intramuscular triamcinolone acetonide 40 mg at baseline and thereafter treated upon a new flare. A third 12-week trial was also conducted evaluating two formulations of Ilaris against intramuscular triamcinolone acetonide 40 mg. Concomitant treatment with ULT was not required and was reported by over 40% of patients at trial entry across all three trials. Findings from the studies showed that among patients unable to use NSAIDs and colchicine, pain intensity of the most affected joint at 72 hours post-dose was consistently lower for those treated with Ilaris compared with injectable triamcinolone. Treatment was also associated with a reduction in the risk of a new flare compared to triamcinolone.

- When used to treat acute gout flares, additional doses of Ilaris if needed should be administered at least 12 weeks apart per the prescribing information.

- The safety and effectiveness of Ilaris in treating these conditions were established in multiple clinical trials. The use of Ilaris in combination with other biologic agents or targeted disease-modifying antirheumatic drugs is not recommended due to a lack of robust clinical evidence to support the safety and efficacy of concurrent use.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Ilaris [prescribing information]. East Hanover, NJ: Novartis. November 2024.
2. Ozen S, Demirkaya E, Erer B, et al. EULAR recommendations for the management of familial Mediterranean fever. Ann Rheum Dis. 2016;75(4):644-651. doi:10.1136/annrheumdis-2015-208690
3. Nigrovic, PA. Cryopyrin-associated periodic syndromes and related disorders. UpToDate, Waltham, MA, 2020.
4. Padeh, YC. Hyperimmunoglobulin D Syndrome: Management. UpToDate, Waltham, MA, 2020.
5. Kuemmerle-Deschner JB, Ozen S, Tyrrell PN et al. Diagnostic criteria for cryopyrin-associated periodic syndrome (CAPS). Ann Rheum Dis. 2017;76(6):942.
6. Ozen S, Demirkaya E, Erer B, et al. EULAR recommendations for the management of familial Mediterranean fever. Ann Rheum Dis. 2016;75(4):644-651. doi:10.1136/annrheumdis-2015-208690
7. Romano M, Arici ZS, Piskin D, et al. The 2021 EULAR/American College of Rheumatology points to consider for diagnosis, management and monitoring of the interleukin-1 mediated autoinflammatory diseases: cryopyrin-associated periodic syndromes, tumour necrosis factor receptor-associated periodic syndrome, mevalonate kinase deficiency, and deficiency of the interleukin-1 receptor antagonist. Ann Rheum Dis. 2022;81(7):907-921. doi:10.1136/annrheumdis-2021-221801
8. Mandl, L. Treatment of adult Still's disease. UpToDate, Waltham, MA, 2020.
9. Onel KB, Horton db, et al. 2021 American College of Rheumatology Guideline for the Treatment of Juvenile Idiopathic Arthritis: Therapeutic Approaches for Oligoarthritis, Tempomandibular Joint Arthritis, and Systemic Juvenile Idiopathic Arthritis. Arthritis Rheumatol. 2022 Apr;74(4):553-569. doi: 10.1002/art.42037. Epub 2022 Mar 1.
10. 2012 American College of Rheumatology Guidelines for Management of Gout. Part 1: Systematic Nonpharmacologic and Pharmacologic Therapeutic Approaches to Hyperuricemia. Arthritis care and Research. Vol 64, No. 10, October 2012: 1431-1446.
11. Fitzgerald JD, et al. 2020 American College of Rheumatology Guideline for the Management of Gout. Arthritis Care and Research. Vol. 72, No. 6, June 2020:744-760.

Policy History		
#	Date	Change Description
2.9	Effective Date: 12/4/2025	Changed step on Actemra to step on a preferred tocilizumab product for Still's disease and systemic juvenile idiopathic arthritis indications
2.8	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
2.7	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
2.6	Effective Date: 10/12/2023	Updated policy to include criteria, authorization period, and supporting information for new indication for treating gout flares
2.5	Effective Date: 04/06/2023	Removed DMARDs from sJIA and AOSD step options Background info updated to reflect 2021 ACR recommendations for sJIA
2.4	Effective Date: 12/01/2022	Annual review of medical policy – no changes to criteria

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.3</td><td>Effective Date: 12/09/2021</td><td>Removed FDA approved indications criteria</td></tr>
<tr><td>2.2</td><td>Effective Date: 02/04/2021</td><td>Added trial and failure of Actemra and Kineret to criteria for sJIA and AOSD</td></tr>
<tr><td>2.1</td><td>Effective Date: 12/03/2020</td><td>Updated step criteria for AOSD and sJIA. Added criteria bullet d – not to use in combination with biologics. Changed renewal criteria to be consistent across all diagnoses.</td></tr>
<tr><td>2.0</td><td>Effective Date; 9/28/2020</td><td>UM medical management system update for MAPPO AND BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.9</td><td>Effective Date: 08/13/2020</td><td>Updates were made to the criteria, including adding criteria for a new indication</td></tr>
<tr><td>1.8</td><td>Effective Date: 11/7/2019</td><td>Criteria updated for step therapy for SIJA</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/15/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/09/2018</td><td>Change in verbiage for preferred therapy</td></tr>
<tr><td>1.5</td><td>Effective Date: 05/03/2018</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.4</td><td>Effective Date 05/04/2017</td><td>Added new criteria for TRAPS, HIDS/MKD, and FMF.</td></tr>
<tr><td>1.3</td><td>Effective Date 08/11/2016</td><td>Annual Update</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date:
02/01/2015</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date:
04/01/2014</td><td>UM medical management system update for BCBSM
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date:
08/08/2013</td><td>Criteria Update
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ilumya™ (tildrakizumab-asmn)
HCPCS: J3245

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ilumya is a an interleukin-23 (IL-23) antagonist indicated for the treatment of moderate-to-severe psoriasis in adults who are candidates for systemic therapy or phototherapy. Per the prescribing information, Ilumya should only be administered by a healthcare provider.

- Psoriasis is a chronic, painful and life-altering immune-mediated disease which predominantly manifests with skin and joint involvement. Patients may also experience significant cardiovascular and psychological comorbidities. Approximately 2% of U.S. adults are affected by psoriasis (men and women equally), and it can occur at any age. Approximately 90% of psoriasis-affected patients have plaque psoriasis, which is characterized by well-defined round or oval plaques that vary in size and often coalesce. The severity of psoriasis is defined as: mild = less than 3% of body affected; moderate = 3-10% of body affected; and severe being more than 10% of the body affected.

- Per the 2020 Joint American Academy of Dermatology - National Psoriasis Foundation (AAD/NPF) guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures: topical corticosteroids provide a high efficacy and good safety option for patients with localized disease. They are generally recommended as first-line therapy. Choice of steroid potency may depend on severity, location, patient preference, and patient age, while the duration of treatment may vary with steroid potency, location and severity of disease often ranging from 2-12 weeks. Therapeutic regimens may include 2-4 weeks with a topical steroid applied twice daily, followed by a maintenance regimen where topical steroids are alternated with a steroid-sparing topical agent. Treatment with topical steroids for over 12 weeks is recommended under careful supervision by a physician.

- Per the 2019 Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with phototherapy: phototherapy serves as a reasonable and effective treatment option for patients requiring more than topical medications and/or those wishing to avoid systemic medications or simply seeking an adjunct to a failing regimen. Guidelines also state that the majority of patients with mild-to-moderate disease have adequate disease control with topical therapies and phototherapy alone.

- Per the Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies: many oral medications, including methotrexate, cyclosporine, and acitretin, have been used for decades to treat psoriasis, each with its own benefits and risks. Most work by targeting the immune system, whereas others, such as acitretin, work predominantly by decreasing keratinocyte hyperproliferation, thus restoring the normal epidermal differentiation. Both methotrexate and cyclosporine are category A guideline recommendations for the treatment of moderate to severe psoriasis in adults and for severe, recalcitrant psoriasis, respectively. Studies examining the use of methotrexate and cyclosporine in psoriasis showed the primary efficacy endpoints met within 12-16 weeks. Acitretin is a category B guideline recommendation as monotherapy for plaque psoriasis, with full treatment response expected within 3-6 months.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Per the 2019 Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with biologics: biologic agents, as monotherapy or combined with other topical or systemic medications, have a high benefit-to-risk ration. Tumor necrosis factor (TNF)-alpha and IL-12/IL-23, IL-23, and IL-17 products have a category "A" recommendation as a monotherapy treatment option for adult patients with moderate-to-severe plaque psoriasis. Guidelines do not recommend one product over another and note the similar efficacy seen across biologics within the same class. There are no published, robust studies to support the use of more than one biologic product or targeted DMARD in combination.

References:

1. Ilumya prescribing information]. Whitehouse Station, NJ, Merck & Co., Inc., April 2024.
2. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy [published correction appears in J Am Acad Dermatol. 2020 Mar;82(3):780]. J Am Acad Dermatol. 2019;81(3):775-804. doi:10.1016/j.jaad.2019.04.042
3. Elmets CA, Korman NJ, Prater EF, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures [published online ahead of print, 2020 Jul 30]. J Am Acad Dermatol. 2020;S0190-9622(20)32288-X. doi:10.1016/j.jaad.2020.07.087
4. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
5. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072. doi:10.1016/j.jaad.2018.11.057

Policy History		
#	Date	Change Description
2.1	Effective Date: 10/09/2025	Annual review of criteria performed, no changes were made
2.0	Effective Date: 10/03/2024	Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria
1.9	Effective Date: 12/14/2023	Annual review of criteria performed, no changes were made
1.8	Effective Date: 12/01/2022	Annual review of criteria performed, no changes were made
1.7	Effective Date: 02/04/2021	Removed FDA approved indications criteria, phototherapy and oral DMARD criteria for psoriasis, and added trial of one topical corticosteroid for psoriasis

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 02/04/2021</td><td>Removal of the topical steroid criteria for psoriasis indication</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/03/2020</td><td>Previously approved criteria updated to align management between pharmacy and medical benefit for all listed indications</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/13/2020</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/15/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/09/2018</td><td>New Drug Review</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/01/2018</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 05/03/2018</td><td>Preliminary Drug Review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Imaavy™ (nipocalimab-aahu)
HCPCS: J9256

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Imaavy is a neonatal Fc receptor blocker indicated for the treatment of generalized myasthenia gravis (gMG) in adult and pediatric patients 12 years of age and older who are anti-acetylcholine receptor (AChR) or anti-muscle-specific tyrosine kinase (MuSK) antibody positive.

- Myasthenia gravis (MG) is a rare autoimmune disease resulting from an immunologic attack of AChR, MuSK, and/or other receptors found on the postsynaptic neuromuscular junction. It typically presents initially as asymmetric ptosis and diplopia and is known as ocular, or class I, MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into gMG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Depending on the severity of muscle weakness, at this point MG is classified as either class II for mild, class III for moderate, and class IV for severe presentation. Those with class V disease require intubation due to profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Imaavy has only been studied in patients with class II – IV disease. There is no safety and efficacy data to support use in patients with class I or V disease at this time.

- Imaavy is only indicated for use in patients with anti-AChR or anti-MuSK antibodies. An immunologic assay to detect for the presence of anti-AChR and anti-MuSK antibodies is the first step towards a diagnosis of MG. Once it is determined a patient has one of these antibody types, at least one other confirmatory test should be conducted. A positive edrophonium test, history of response to oral cholinesterase inhibitors, repetitive nerve stimulation (RNS), or single-fiber electromyography (SFEMG) all can be used to verify anti-AChR MG. Only a repetitive nerve stimulation (RNS) or single-fiber electromyography (SFEMG) can be used to confirm anti-MuSK antibody positive disease.

- The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. MuSK antibody positive disease is not typically associated with thymic abnormalities or thymoma. The 2021 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with gMG without thymoma based on class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Imaavy has not been studied in patients who have undergone thymectomy within 6 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Imaavy in these patient populations at this time regardless of antibody status.

- Safety and efficacy of Imaavy were established in the Vivacity-MG3 trial, a multicenter, randomized, double-blind, placebo-controlled study of 153 patients with gMG. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. They also had a myasthenia gravis activities of daily living (MG-ADL) score of at least 6. Patients were randomly assigned 1:1 to receive Imaavy plus standard of care (SOC) or placebo plus SOC. The primary endpoint was the mean change in MG-ADL score from baseline over

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

weeks 22, 23, and 24. The trial met its primary endpoint with reductions in MG-ADL score by 4.70 points in the Imaavy plus SOC group which was significantly more than the 3.25 point improvement from baseline observed in the placebo plus SOC arm (p-value = 0.002).

- Standard therapies recommended by the 2021 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, rituximab, Soliris®, IVIG, and PLEX.

    - Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

    - Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

    - Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. The onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no more frequently than every 3 to 6 months. Once the patient experiences treatment effect, doses should be maintained for six months to two years of therapy and then tapered to the lowest effective dose.

    - Oral methotrexate may be considered as a steroid-sparing agent in patients with gMG who have not tolerated or responded to steroid-sparing agents that are better supported by randomized clinical trial data.

    - Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

    - PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe gMG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX

    - There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. Treatment guidelines state rituximab should be considered as an early therapeutic option in patients with MuSK antibody positive MG who have an unsatisfactory response to initial immunotherapy. The efficacy of rituximab in refractory AChR antibody positive MG is uncertain. It is an option if patients fail or do not tolerate other immunosuppressive agents.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Soliris should be considered in the treatment of severe, refractory, AChR antibody positive gMG. Until further data become available to allow comparisons of cost and efficacy with other treatments guidelines state, Soliris should be considered after trials of other immunotherapies have been unsuccessful in meeting treatment goals.

- Imaavy has not been studied in combination with other medications used to treat MG such as Soliris; therefore, there is no data to support combination use of MG treatments.

References:

1. Imaavy [prescribing information]. Horsham, PA: Janssen Biotech, Inc.; April 2025.
2. Trouth AJ, Dabi A, Solieman N, et al. Myasthenia gravis: a review. Autoimmune Dis. 2012; 2012: 874680.
3. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2016 Jul 26; 87 (4): 419 - 25.
4. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
5. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
6. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
7. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 – 84.
8. Antozzi C, Vu T, Ramchandren S, et al. Efficacy and safety of nipocalimab in adults with generalised myasthenia gravis (Vivacity MG3): a randomised, double-blind, placebo-controlled phase 3 study. Lancet Neuro. 2025 Feb; 24: 105 – 16.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 07/01/2025</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/05/2025</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.1</td>
<td>Effective Date: 05/08/2025</td>
<td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
<tr>
<td>1.0</td>
<td>Effective Date: 02/13/2025</td>
<td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Imdelltra™ (tarlatamab-dlle)
HCPCS: J9026

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Imdelltra is a bispecific delta-like ligand 3 (DLL3)-directed CD3 T-cell engager indicated for the treatment of adult patients with extensive stage small cell lung cancer (ES-SCLC) with disease progression on or after platinum-based chemotherapy.

- Safety and efficacy were evaluated in the DeLLphi-301, a phase II, open-label, multicenter, multi-cohort study of 99 patients with relapsed/refractory SCLC with disease progression after receiving previous treatment with platinum-based chemotherapy and at least one other line of prior therapy. Patients had to have a ECOG score of 0 – 2, a platelet count greater than 100,000/µL, liver enzymes less than 5 times the upper limit of normal, and a creatinine clearance greater than 30 mL/min. They could not have HIV infection or hepatitis B or C virus infection unless the viral load was undetectable or any uncontrolled infection. Brain metastases and leptomeningeal disease must have been treated and unsymptomatic. Patients could not have myocardial infarction, cardiac angioplasty or stenting, unstable angina, New York Heart Association Class II or greater congestive heart failure events, or a thromboembolic events within the 12 months prior to Imdelltra administration. Subjects had not received prior bispecific DLL3-directed CD3 T cell engager. The primary endpoints were overall response rate (ORR) and duration of response (DOR). The ORR was 40% (95% CI: 31, 51) and median DOR was 9.7 months (range 2.7, 20.7+).

- Due to the risk of cytokine release syndrome and neurological toxicities, the step-up doses of Indelltra require patients to be monitored in an appropriate healthcare setting 22 – 24 hours post-infusion. Patients must also remain within 1 hour of an appropriate healthcare setting for a total of 48 hours from start of infusion and need to be accompanied by a caregiver.

- Imdeltlra has not been studied when given following prior treatment with Imdelltra or following any other DLL3)-directed CD3 T-cell engager therapy.

References:

1. Imdelltra [prescribing information]. Thousand Oaks, CA: Amgen, Inc.; November 2025.
2. Ahn MJ, Cho BC, Felip E, et al. Tarlatamab for patients with previously treated small-cell lung cancer. NEJM. 2023 Oct 20; 389: 2063 – 75.
3. National Comprehensive Cancer Network. Small cell lung cancer (Version 2.2026). 2025 Sept 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/sclc.pdf. Accessed on June 23, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 08/13/2026</td><td>Updated to remove criteria surrounding platelet count, liver function, creatinine clearance, no HIV, hepatitis B or C infection, no uncontrolled infection, no brain metastases, no myocardial infarction or cardiac issues, no pulmonary disease, and no thrombotic events within 12 months of administration</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/01/2025</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/08/2024</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Imfinzi™ (durvalumab)
HCPCS: J9173

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Imfinzi is indicated for

  - In combination with platinum-containing chemotherapy as neoadjuvant treatment, followed by Imfinzi continued as a single agent as adjuvant treatment after surgery, for the treatment of adult patients with resectable (tumors ≥ 4 cm and/or node positive) non-small cell lung cancer (NSCLC) and no known epidermal growth factor receptor (EGFR) mutations or anaplastic lymphoma kinase (ALK) rearrangements

  - The treatment of adult patients with unresectable stage III NSCLC who's disease has not progressed following concurrent platinum-based chemotherapy and radiation

  - In combination with Imjudo and platinum-based chemotherapy, for the treatment of adult patients with metastatic NSCLC with no sensitizing EGFR mutations or ALK genomic tumor aberrations

  - As a single agent, for the treatment of adult patients with limited-stage small cell lung cancer (LS-SCLC) whose disease has not progressed following concurrent platinum-based chemotherapy and radiation therapy

  - In combination with etoposide and either carboplatin or cisplatin, as first-line treatment of adult patients with extensive stage small cell lung cancer (SCLC)

  - In combination with gemcitabine and cisplatin, as treatment of adult patients with locally advanced or metastatic biliary tract cancer (BTC)

  - In combination with tremelimumab-actl, for the treatment of adult patients with unresectable hepatocellular carcinoma (uHCC)

  - In combination with carboplatin and paclitaxel followed by Imfinzi as a single agent, for the treatment of adult patients with primary advanced or recurrent endometrial cancer that is mismatch repair deficient (dMMR)

  - In combination with gemcitabine and cisplatin as neoadjuvant treatment, followed by single agent Imfinzi as adjuvant treatment following radical cystectomy, for the treatment of adult patients with muscle invasive bladder cancer (MIBC)

  - In combination with fluorouracil, leucovorin, oxaliplatin, and docetaxel as neoadjuvant and adjuvant treatment, followed by single agent Imfinzi, for the treatment of adult patients with resectable gastric or gastroesophageal junction adenocarcinoma

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- There are no studies to support use of Imfinzi following failure. NCCN treatment guidelines also do not recommend use of Imfinzi or other PD-L1 checkpoint inhibitors following a previous failure.

    - Imfinzi have not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Imfinzi. [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals LP.; November 2025.
2. Express Scripts® Drug Evaluation - Imfinzi™ (durvalumab injection for intravenous use – AstraZeneca Pharmaceuticals LP). Updated July 3, 2017.
3. Antonia SJ, Villegas A, Daniel D, et al. Durvalumab after chemoradiotherapy in stage III non–small-cell lung cancer. NEJM. 2017; 377 (20): 1919 - 29.
4. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 5.2026). 2026 March 13. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on April 28, 2026.
5. AstraZeneca Media Centre. AstraZeneca reports results from the ARCTIC trial in third-line non-small cell lung cancer. 24 April 2018. Available at: https://www.astrazeneca.com/media-centre/press-releases/2018/astrazeneca-reports-results-from-the-arctic-trial-in-third-line-non-small-cell-lung-cancer-24042018.html. Accessed May 11, 2018.
6. National Comprehensive Cancer Network. Small cell lung cancer (Version 2.2026). 2025 Sept 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/sclc.pdf. Accessed on April 28, 2026.
7. Paz-Ares L, Dvorkin M, Chen Y, et al. Durvalumab plus platinum–etoposide versus platinum–etoposide in first-line treatment of extensive-stage small-cell lung cancer (CASPIAN): a randomized, controlled, open-label, phase 3 trial. Lancet. 2019 Nov 23; 394 (10212): 1929 – 39.
8. Oh DY, He AR, Qin S, et al. Durvalumab plus gemcitabine and cisplatin in advanced biliary tract cancer. NEJM Evid. 2022 June 1; 1 (8): 1 – 11.
9. National Comprehensive Cancer Network. Biliary tract cancers (Version 1.2026). 2026 March 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/btc.pdf. Accessed on April 28, 2026.
10. Abou-Alfa GK, Chan SL, Kudo M, et al. Tremelimumab plus durvalumab in unresectable hepatocellular carcinoma. NEJM Evid. 2022 June 6; 8 (1): 1 – 12.
11. Johnson ML, Cho BC, Luft A, et al. Durvalumab with or without tremelimumab in combination with chemotherapy as first-line therapy for metastatic non–small-cell lung cancer: The phase III POSEIDON study. J Clin Oncol. 2022 Nov 3: JCO2200975. doi: 10.1200/JCO.22.00975.
12. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 1.2026). 2026 March 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on April 28, 2026.
13. Heymach JV, Harpole D, Mitsudomi T, et al. Perioperative durvalumab for resectable non–small-cell lung cancer. NEJM. 2023; 389 (18): 1672 – 84.
14. Cheng Y, Spigel DR, Cho BC, et al. Durvalumab after chemoradiotherapy in limited-stage small-cell lung cancer. NEJM. 2024 Sept 13; 391 (14): 1313 – 27.
15. Westin SN, Moore K, Chon HS, et al. Durvalumab plus carboplatin/paclitaxel followed by maintenance durvalumab with or without olaparib as first-line treatment for advanced endometrial cancer: the phase III DUO-E trial. J Clin Onc. 2023 Oct 21; 42 (3): https://doi.org/10.1200/JCO.23.02132.
16. National Comprehensive Cancer Network. Uterine neoplasms (Version 2.2026). 2025 Nov 14. Available at: https://www.nccn.org/professionals/physician_gls/pdf/uterine.pdf. Accessed on April 28, 2026.
17. National Comprehensive Cancer Network. Bladder Cancer (Version 1.2026). 2026 March 16. Available at:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed on April 28, 2026.
18. Powles T, Catto JWF, Galsky MD, et al. Perioperative durvalumab with neoadjuvant chemotherapy in operable bladder cancer. NEJM. 2024 Sept 15; 391 (19): 1773 – 86.
19. National Comprehensive Cancer Network. Gastric cancer (Version 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed on April 28, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.5</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.4</td><td>Effective Date: 07/21/2025

P&T Date: 06/05/2025</td><td>Updated the renewal criteria to only allow for only 24 months of therapy for metastatic non-small cell lung cancer and added the trial and failure of preferred products statement</td></tr>
<tr><td>2.3</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.2</td><td>Effective Date: 02/08/2024</td><td>Updated to remove indication specific criteria and list FDA approved indications and NCCN guideline recommendations</td></tr>
<tr><td>2.1</td><td>Effective Date: 02/02/2023</td><td>Updated to include the new indication of metastatic non-small cell lung cancer and updated renewal authorization to allow no less than 60 days of authorization</td></tr>
<tr><td>2.0</td><td>Effective Date: 12/01/2022</td><td>Updated to include the new indications for biliary tract cancer and hepatocellular carcinoma and reflect an authorization period of at least 60 days</td></tr>
<tr><td>1.9</td><td>Effective Date: 06/09/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.8</td><td>Effective Date: 06/10/2021</td><td>Removed indication for urothelial carcinoma as it is no longer FDA approved and updated renewal authorization to 6 months</td></tr>
<tr><td>1.7</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for PPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.6</td><td>Effective Date: 06/11/2020</td><td>Updated to include a new indication of extensive-stage small cell lung cancer</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 11/01/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/03/2019</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/09/2018</td><td>Updated document for new indication of stage III, unresectable non-small cell lung cancer without progression following concurrent chemotherapy and radiation</td></tr>
<tr><td>1.0</td><td>Effective Date: 02/08/2018</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Imjudo® (tremelimumab-actl)
HCPCS: J9347

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Imjudo is a cytotoxic T-lymphocyte-associated antigen 4 (CTLA-4) blocking antibody indicated in combination with Imfinzi for the treatment of adult patients with unresectable hepatocellular carcinoma (uHCC) and in combination with Imfinzi and platinum-based chemotherapy for the treatment of adult patients with metastatic non-small cell lung cancer (NSCLC) with no sensitizing epidermal growth factor receptor (EGFR) mutation or anaplastic lymphoma kinase (ALK) genomic tumor aberrations.

- The HIMALAYA trial was a randomized, open-label, multicenter, phase III study of 1,324 patients with unresectable, advanced HCC who had not been treated with prior systemic therapy and were not eligible for locoregional therapy. Patients were randomized to either Imfinzi alone, a single priming dose of Imjudo 300 mg added to Imfinzi 1500 mg followed by Imfinzi monotherapy every four weeks, or sorafenib 400 mg twice daily. The study excluded patients with co-infection of viral hepatitis B and hepatitis C; active or prior documented gastrointestinal (GI) bleeding within 12 months; ascites requiring non-pharmacologic intervention within 6 months; hepatic encephalopathy within 12 months before the start of treatment; and active or prior documented autoimmune or inflammatory disorders. All subjects had a Child-Pugh Score class A and an ECOG performance score of 0 – 1. The primary endpoint was overall survival (OS) between the Imjudo plus Imfinzi arm versus the sorafenib arm. OS improved from a median 13.8 months with sorafenib to 16.4 months with the dual immunotherapy representing a 22% reduction in the risk for death during the study period (HR 0.78; 95% CI: 0.66 - 0.92; p-value = 0.0035). At 3 years, OS rates were an estimated 31% with Imjudo in combination with Imfinzi versus 20% with sorafenib.

- The POSEIDON trial was a randomized, multicenter, active-controlled, open-label, phase III study of 1,013 previously untreated patients with EGFR/ALK wild-type mNSCLC. Patients were randomized to either Imjudo plus Imfinzi and platinum-based chemotherapy for up to four 21-day cycles, followed by Imfinzi once every 4 weeks until progression and one additional Imjudo dose; Imfinzi plus chemotherapy for up to four 21-day cycles, followed by Imfinzi once every 4 weeks until progression; or chemotherapy for up to six 21-day cycles. Chemotherapy options for all arms included carboplatin plus nab-paclitaxel regardless of histology, cisplatin or carboplatin plus gemcitabine for patients with squamous histology, and cisplatin or carboplatin plus pemetrexed for patients with non-squamous histology. Patients with non-squamous histology who received pemetrexed-platinum doublet could receive pemetrexed maintenance therapy if eligible. The study excluded patients with active infection, another primary malignancy, a medical contraindication to platinum-based doublet therapy, and active or prior documented autoimmune or inflammatory disorders. All subjects had an ECOG performance score of 0 – 1. The primary endpoints were progression-free survival (PFS) and OS for Imfinzi + chemotherapy versus chemotherapy. Key alpha-controlled secondary end points were PFS and OS for Imjudo plus Imfinzi and chemotherapy versus chemotherapy. PFS was significantly improved with Imfinzi plus chemotherapy versus chemotherapy (HR = 0.74; 95% CI: 0.62, 0.89; p-value = 0.0009; median 5.5 v 4.8 months); a trend for improved OS did not reach statistical significance (HR = 0.86; 95% CI: 0.72, 1.02; p-value = 0.0758; median 13.3 v 11.7 months; 24-month OS 29.6% v 22.1%). PFS

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(HR = 0.72; 95% CI: 0.60, 0.86; p-value = 0.0003; median 6.2 v 4.8 months) and OS (HR = 0.77; 95% CI: 0.65, 0.92; p-value = 0.0030; median 14.0 v 11.7 months; 24-month OS 32.9% v 22.1%) were significantly improved with Imjudo plus Imfinzi and chemotherapy versus chemotherapy alone.

- There are no studies to support use of Imjudo following failure of its use in combination with Imfinzi. NCCN guidelines also do not recommend use of Imjudo or PD-L1 checkpoint inhibitors following a previous failure. Imjudo has only been studied as first-line therapy for HCC.

References:

1. Imjudo [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals LP; July 2024.
2. Abou-Alfa GK, Chan SL, Kudo M, et al. Tremelimumab plus durvalumab in unresectable hepatocellular carcinoma. NEJM Evid. 2022 June 6; 8 (1): 1 – 12.
3. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 3.2024). 2024 Sept 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on December 10, 2024.
4. Johnson ML, Cho BC, Luft A, et al. Durvalumab with or without tremelimumab in combination with chemotherapy as first-line therapy for metastatic non–small-cell lung cancer: The phase III POSEIDON study. J Clin Oncol. 2022 Nov 3: JCO2200975. doi: 10.1200/JCO.22.00975.
5. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 11.2024). 2024 Oct 15. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on December 10, 2024.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 02/12/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/23/2023</td><td>UM medical management system update for BCNA, MAPPO, BCN, and BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.1	Effective Date: 02/02/2023	Updated to include the new indication of metastatic non-small cell lung cancer
1.0	Effective Date: 12/01/2022	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Immune Globulin Replacement Therapy Medication Use Guidelines

Alyglo™ (immune globulin intravenous (human-stwk) 10%) **- HCPCS: J1552**
Asceniv™ (immune globulin (human– slra)) **- HCPCS: J1599, J1554**
Bivigam® (immune globulin (human) 10%) **- HCPCS: J1556**
Carimune® NF (immune globulin (human)) **- HCPCS: J1566**
Cutaquig® (immune globulin (human– hipp)) **- HCPCS: J1599**
Cuvitru™ (SC only) (immune globulin (human) 20%)**- HCPCS: J1555**
Flebogamma® DIF (immune globulin (human) 5% & 10%) **- HCPCS: J1572**
GamaSTAN® S/D (IM) (immune globulin (human)) **- HCPCS: J1460/J1560 CPT /90281**
Gammagard® Liquid (IV & SC) (immune globulin (human) 10%) **- HCPCS: J1569**
Gammagard Liquid ERC® (immune globulin (human) 10%) **- HCPCS: J1599**
Gammagard® S/D (immune globulin (human)) **- HCPCS: J1566**
Gammaked™ (IV & SC) (immune globulin (human) 10%) **- HCPCS: J1561**
Gammaplex® (immune globulin (human)) **- HCPCS: J1557**
Gamunex®-C (IV & SC) (immune globulin (human) 10%) **- HCPCS: J1561**
Hizentra® (SC only) (immune globulin (human) 20%) **- HCPCS: J1559**
HyQvia® (SC only) (immune globulin (human) 10% with recombinant human hyaluronidase) **- HCPCS: J1575**
Octagam® (immune globulin (human)) **- HCPCS: J1568**
Panzyga® (immune globulin (human– ifas)) **- HCPCS: J1576**
Privigen® (immune globulin (human) 10%) **- HCPCS: J1459**
Qivigy® (immune globulin (human-kthm) 10%) **- HCPCS: J1577**
Xembify® (immune globulin (human–klhw)) **- HCPCS: J1558**
Yimmugo® (IV only) (immune globulin (human-dira)) **- HCPCS: J1553**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Acquired hemophilia A (AHA)
    - Acquired hemophilia A is characterized by neutralizing autoantibodies against factor VIII (FVIII). It is a rare disorder typically affecting pregnant women and those over the age of 60 years. Approximately half of patients have concomitant disorders, most often other autoimmune disorders or malignancy. In approximately 1 –

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

5% of cases, diagnosis occurs during pregnancy or within 1 year following childbirth. The bleeding phenotype of acquired FVIII inhibitors is variable ranging from life-threatening bleeds to mild or no bleeding. Subcutaneous hematomas are characteristic of AHA and can be the first indication of the disease.

- The 2020 International Recommendations on the Diagnosis and Treatment of Acquired Hemophilia A and the 2017 Updated Review of Evidence and Treatment Guidance state AHA should be considered in patients with recent onset of abnormal bleeding, an isolated prolongation in activated partial thromboplastin time (aPTT), and normal prothrombin time (PT). It should also be considered in nonbleeding patients not on anticoagulation, with an isolated prolonged aPTT, a mixing study consistent with an inhibitor, and a negative lupus anticoagulant (LA). Diagnosis is confirmed when FVIII activity is less than 50% of normal for the laboratory reference range and the patient has an anti-human factor VIII inhibitor level greater than 0.6 BU/mL.

- Immunosuppression therapy should be started in all adult patients with the goal of therapy to reduce the risk of bleeding by shortening the time to remission. Both the 2017 and 2020 guidance for treatment of AHA recommend use of corticosteroids alone or in combination with either cyclophosphamide or rituximab as first-line therapy. The 2020 guidelines recommend use of steroids alone in patients with FVIII level greater than or equal to 1% and an anti-human factor VIII inhibitor level less than or equal to 20 BU/mL. For patients with a FVIII level less than 1% and an anti-human factor VIII inhibitor level greater than 20 BU/mL, combination therapy should be started immediately. Therapy should continue for at least 4 weeks as 60 – 80% of patients will see an improvement in FVIII activity levels within that timeframe.

- Use of immunoglobin therapy is not recommended by either the 2020 or the 2017 guidance. However, it has been shown to possible be efficacious when used as part of the modified Bonn-Malmo Protocol (MBMP). The protocol combines immunoadsorption for inhibitor elimination, factor VIII substitution, intravenous immunoglobulin, and immunosuppression. During this protocol, patients received 0.3 g/kg/day of IVIG on days 5 – 7 of each 7 day treatment cycle. Treatment cycles were repeated several times, depending on the clinical response and the coagulation factor activity. In addition, one prospective, multicenter study of high-dose IGIV in 19 patients with AHA has been conducted. Patients received induction therapy with IGIV at a dose of 1,000 mg/kg x 2 consecutive days or 400 mg/kg x 5 consecutive days followed by maintenance doses at intervals as clinically indicated. The study showed some patients may experience beneficial effects and a decrease in anti-human factor VIII inhibitor levels with the use of IVIG.

- Allogeneic bone marrow transplant (BMT) recipients or patients treated with an anti-CD19 directed chimeric antigen receptor T-cell therapy (CAR-T)

  - Allogenic bone marrow transplant patients receive stem cells from another individual, either a matched related or an unrelated donor. These patients require both long- and short-term infection prevention measures depending on their degree of immunosuppression. Infection is the primary cause of death in approximately 17% to 20% of allogenic BMT patients. Treatment plans for infection prevention include individualized antimicrobial therapy, along with IVIG in select patients.

  - International Guidelines for Preventing Infectious Complications among Hematopoietic Cell Transplantation Recipients (2009) recommend against the routine use of IVIG within the first 100 days after BMT, citing a meta-analysis of randomized controlled trials showing no improvement in survival, infection prevention, or other transplant complications. In BMT patients with severe hypogammaglobulinemia, evidenced serum IgG less than 400 mg/dL, IVIG is recommended for the prevention of bacterial infection. Guidelines recommend against its use beyond 100 days after BMT in patients without severe hypogammaglobulinemia.

  - Recommended dosing for adult or adolescent BMT patients with severe hypogammaglobulinemia is 500 mg/kg/week. Recommended dosing for pediatric BMT patients with severe hypogammaglobulinemia is 400 mg/kg/week. Guidelines suggest monitoring serum IgG levels every 2 weeks for patients receiving

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

IVIG therapy.

- Autoimmune encephalitis

  – The autoimmune encephalitis syndromes have a wide clinical spectrum that ranges from typical limbic encephalitis to syndromes with complex neuropsychiatric symptoms such as deficits of memory, cognition, psychosis, seizures, abnormal movements, or coma. This group of disorders is associated with antibodies to neuronal cell surface/synaptic proteins. The target antigens usually play critical roles in synaptic transmission and plasticity. Clinical features include prodromal headache, fever, prominent psychiatric manifestations, insomnia, memory deficits, seizures, decreased level of consciousness, frequent dyskinesias, autonomic instability, and language dysfunction.

  - Autoimmune encephalopathy should be suspected in those with symptoms accompanied by cerebrospinal fluid (CSF) lymphocytic pleocytosis or oligoclonal bands; electroencephalography (EEG) with infrequent epileptic activity but frequent slow, disorganized activity that does not correlate with most abnormal movements; and brain magnetic resonance imaging (MRI) that is often normal or shows transient fluid-attenuated inversion recovery (FLAIR) or contrast-enhancing abnormalities in cortical (brain, cerebellum) or subcortical (hippocampus, basal ganglia, white matter) regions. CSF examination should be performed to evaluate for antibodies and should include cell count, protein, glucose, and viral cultures. Studies to exclude other pathogens should also be performed. EEG should be performed to exclude nonconvulsive seizures. In patients with paraneoplastic and autoimmune encephalitis, nonspecific EEG abnormalities are common and include focal or generalized slowing, epileptiform activity, and periodic lateralized epileptiform discharges (PLEDs). MRI is helpful in this clinical setting to exclude a cerebrovascular event or metastatic disease among others. Characteristic MRI findings in patients with paraneoplastic or autoimmune encephalitis include signal hyperintensities on fluid-attenuated inversion recovery (FLAIR) or T2-weighted images in affected brain regions (eg, medial temporal lobes and/or brainstem); subcortical regions and the cerebellum are sometimes affected as well.

  - The differential diagnosis of this clinical presentation includes primary psychiatric disorders, malignant catatonia, neuroleptic malignant syndrome, viral encephalitis, and encephalitis lethargica and should be ruled out before confirming a diagnosis of autoimmune encephalitis.

  - Based on observational studies and clinical experience, initial treatment with intravenous methylprednisolone and either 400 mg/kg IVIG per day for five days or plasma exchange in most patients. An alternative approach to stepwise escalation of immunotherapy is to use rituximab in combination with steroids and IVIG or plasma exchange as initial therapy. This approach is gaining favor in severely affected patients based on clinical experience and accumulating data supporting the effectiveness of rituximab in reducing relapses when used in the second-line setting.

- Autoimmune hemolytic anemia (AIHA)

  - AIHA is a decompensated acquired haemolysis caused by the host's immune system acting against its own red blood cell antigens. Warm AIHA is the most common type and is caused by antibodies that are active at body temperature. Patients may present with symptoms of anemia, hemolysis, pallor, splenomegaly, hepatosplenomegaly, or hemoglobinuria. Specific symptoms that occur may vary from one person to another and may depend upon the rate of onset, the rate of destruction of healthy red blood cells and the presence of an underlying disorder.

  - The 2017 British Diagnosis and Management of Primary Autoimmune Hemolytic Anemia guidelines state AIHA should be suspected based upon a thorough clinical evaluation, a detailed patient history, identification of characteristic symptoms, and a variety of tests. To confirm a diagnosis of warm AIHA, patients

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

should have a hemoglobin less than 10 g/dL and also symptoms of hemolysis including increased bilirubin, increased reticulocytes, decreased haptoglobin, normal or elevated lactate dehydrogenase, urinary hemosiderin, and/or blood in the urine. In addition, guidelines state patients should have a direct agglutination (Coombs) test performed and it should show they are positive for IgG autoantibodies.

- Immunosuppression therapy should be started in all patients with the goal of therapy to induce remission. The 2017 guidance for treatment of AIHA recommend use of corticosteroids alone as first-line treatment. If there is no response to steroids, rituximab should be started as second-line therapy. Third-line therapies include azathioprine, cyclosporin, danazol, mycophenolate mofetil, or splenectomy. The half-life of autoantibodies is approximately 2 – 3 weeks, so even if therapy halts production of autoantibodies, patients may still experience hemolysis for 2 – 3 weeks following therapy initiation. Therefore, patients should try each line of therapy for at least 21 days before failure is considered.

- Regular use of immunoglobin therapy is not recommended by the 2017 guidance. However, the guidelines do state IVIG may be useful in emergency situations. Evidence from case studies suggest 40% of patients respond to IVIG 0.4 – 0.5 g/kg/day for 5 days and most responders maintained their hemoglobin levels for greater than or equal to 3 weeks. Emergent treatment with IVIG is considered in the guidelines as short term treatment when patients have a pre-treatment hemoglobin level of less than 6 g/dL or as a temporizing measure prior to splenectomy.

- Dermatomyositis

  - Dermatomyositis (DM) is an idiopathic immune-mediated myopathy that can occur in children and adults. It commonly presents with progressive, symmetric, proximal muscle weakness and muscle inflammation that can affect a patient's ability to walk, run, and pick themselves up after a fall. Weakness typically begins with muscles closest to and within the trunk of the body, such as the neck, hip, back, and shoulder muscles. In addition to muscle symptomology, patients with DM typically present with a rash which is a key distinguishing feature of DM compared to polymyositis. Pathognomonic cutaneous features of DM are a heliotrope rash and Gottron's papules. Gottron's papules may resemble lesions of lupus erythematosus, lichen planus, or psoriasis; however, a heliotrope rash is rare in other disorders and therefore highly suggestive of dermatomyositis if present. Additional characteristic cutaneous features of DM include Gottron's sign, photodistributed erythema, nailfold changes, poikiloderma, psoriaform changes in the scalp, and calcinosis cutis. Systemic manifestations may also occur and include, but are not limited to, gastrointestinal ulcers, interstitial lung disease, dysphagia, and malignancy in adults. Most patients with DM exhibit both cutaneous disease and muscle weakness (classic DM), though the onset of cutaneous manifestations can precede myositis by several months in 30% of these patients or follow shortly after muscle involvement in about 10%. Cutaneous manifestations of DM may persist after successfully treating DM-associated myositis in patients with classic DM; these patients are termed as having post-myopathic DM. Additionally, a subset of patients may develop the characteristic cutaneous manifestations in the absence of muscle symptoms or related laboratory findings. These patients have a distinct form of DM referred to as clinically amyopathic DM and account for about 20% of patients with DM.

  - Diagnosis of DM is primarily clinical, generally depending on the presence of characteristic clinical and laboratory findings and may include laboratory tests, imaging studies, electromyography (EMG), and skin and/or muscle biopsy. Tests needed to aid in establishing a diagnosis vary between groups of patients depending on their presentation (i.e. highly characteristic clinical presentation, muscle weakness and nonspecific but typical findings, atypical findings, or cutaneous features without weakness). It is essential that DM be distinguished from other conditions that cause muscle weakness and/or a similar cutaneous presentation. Differential diagnoses may include but are not limited to drug-induced myopathy, myasthenia gravis, discoid lupus erythematosus, lichen planus, psoriasis, rosacea, sarcoidosis, discoid lupus erythematosus, graft versus host disease, subacute cutaneous lupus erythematosus, systemic lupus erythematosus, and tinea corporis.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Classification criteria have been used historically for diagnostic purposes. These criteria have defined DM primarily for clinical and epidemiologic research and are useful for clinicians to identify key features of disease; however, there are limitations to the sensitivity and specificity of these criteria for diagnostic purposes. Additionally, there is a lack of consistency as several sets of classification criteria have been published throughout the literature.

    - The European League Against Rheumatism (EULAR) and the American College of Rheumatology (ACR) revised classification criteria for adults and juvenile idiopathic inflammatory myopathies in 2017, which classifies patients as having definite, probable, and possible disease based on a score and corresponding probability of disease with two different scoring systems depending on whether a muscle biopsy was performed. The criteria include four variables related to muscle weakness, three related to skin manifestations, and others related to lab findings and other clinical manifestations. If a patient meets classification criteria for IIM, a classification tree further subclassifies patients as having amyopathic DM, DM, or juvenile DM.

    - The Myositis Association lists comprehensive diagnostic criteria on their website both for classic DM, amyopathic DM, and juvenile DM that has been developed based on research data and expert clinical experience.

    - Different DM expert groups have proposed classification criteria for DM that solely presents with cutaneous manifestations. A group of dermatology experts suggest biopsy-confirmed hallmark cutaneous manifestations of classic DM occurring for six months or more, no clinical evidence of proximal muscle weakness and no serum muscle enzyme abnormalities for at least 6 months, absence of exclusion criteria (i.e. systemic immunosuppressive therapy, use of drugs that may produce DM-like skin changes), and normal results for more extensive muscle testing if pursued. An expert group of neurologists and rheumatologists proposed similar criteria but also included electrophysiologic studies in their classification criteria.

- The goals of treatment are to improve muscle strength, to avoid the development of extramuscular complications, and resolution of cutaneous disease manifestations. Cutaneous manifestations of DM frequently respond to agents used to treat the associated myositis; however, they can persist despite the myositis effectively being treated and may require additional treatment.

- Glucocorticoids are considered first-line therapy. They are typically initiated with prednisone at a dose of 1 mg/kg per day (maximum daily dose of 80 mg) in adults and 2 mg/kg per day (maximum daily dose of 80 mg) in pediatric patients. A steroid-sparing immunosuppressive agent is generally started along with glucocorticoid treatment so the patient can eventually begin to taper their steroids. Methotrexate or azathioprine are the recommended steroid-sparing immunosuppressive agents for adults, while methotrexate is preferred for pediatric patients with cyclosporine as an alternative. Tapering of glucocorticoids is based on a combination of the improvement in muscle enzymes and recovery of muscle strength. Ideally, normalization of enzymes and complete recovery of muscle strength should occur before glucocorticoids are tapered. The initial response to glucocorticoids in the patient with DM typically takes four to six weeks for normalization of creatine kinase (CK) levels or three to four months to regain muscle strength.

- Some patients either relapse after an initial response to therapy or fail to respond to glucocorticoids and immunosuppressant therapy. These patients are considered to have recurrent or resistant disease. IVIG is considered the next step when the patient experiences recurrent or resistant disease after glucocorticoids and immunosuppressant therapy, and its use for refractory DM in adults is supported by the 2012 American Academy of Neurology guidelines for IVIG in the treatment of neuromuscular disorders.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - The efficacy of IVIG in adults was demonstrated in a double-blind, placebo-controlled trial of 15 DM patients with resistant disease who continued prednisone and were randomly assigned to a monthly IVIG infusion (2 g/kg) or placebo for 3 months. Patients assigned to IVIG all had significant improvement in their muscle strength and neuromuscular symptom scores.

  - The benefits of IVIG in pediatric patients has been reported in multiple observational studies of children with juvenile DM who previously failed glucocorticoid therapy and in the majority of cases immunosuppressants as well. Reported patients experienced improvement in skin disease and muscle strength; additionally, use of IVIG reduced the cumulative glucocorticoid dose for most patients. IVIG was commonly dosed at 2 g/kg (maximum dose 70 g) as a single dose every two weeks for three doses, then monthly according to the childhood arthritis and rheumatology research alliance (CARRA) consensus clinical treatment plans for juvenile DM.

- Other therapies that have been shown to have some effectiveness in adults with refractory DM either alone or in combination with other treatment modalities include cyclosporine, mycophenolate mofetil, chlorambucil, and cyclophosphamide. For pediatric patients, cyclosporine has also shown some effectiveness in refractory juvenile DM, while a number of other therapies are considered investigational and require further studies to determine their role in juvenile DM.

- Adult patients with amyopathic DM or post-myopathic DM with persistent cutaneous lesions require additional treatment. A multifaceted approach is generally necessary to achieve a response for cutaneous DM. This includes photoprotection, antipruritic agents, topical corticosteroids or topical calcineurin inhibitors, and systemic medications. Skin lesions of DM are often resistant to photoprotection and topical therapies alone, therefore necessitating initiation of systemic therapy. Glucocorticoids have limited evidence for efficacy for cutaneous DM and are not generally advised if they are no longer required for extracutaneous manifestations of DM. For mild cutaneous DM (< 10% BSA, minimal pruritis), hydroxychloroquine is suggested as initial systemic therapy. Response should be evident after 6 - 12 weeks of treatment with a 3 month trial appropriate to assess treatment efficacy. Methotrexate may be added for patients whose response to hydroxychloroquine is inadequate or used alone if hydroxychloroquine cannot be tolerated. For severe cutaneous DM (> 10% BSA involvement, intolerable pruritis, or otherwise disabling disease) methotrexate is recommended as initial systemic therapy with improvement expected within 8 - 12 weeks. Hydroxychloroquine may subsequently be added if there is an insufficient response to methotrexate or the two can be started simultaneously depending on the clinician's experience. Once a satisfactory response is achieved with hydroxychloroquine or methotrexate and is maintained for several months, slow tapering should be initiated to the lowest dose necessary to maintain the response.

- Patients with amyopathic DM or post-myopathic DM who fail to respond to methotrexate and/or hydroxychloroquine or who relapse after an initial response have refractory cutaneous disease and require more aggressive immunomodulatory and immunosuppressive agents. IVIG and mycophenolate mofetil are considered treatments of choice for cutaneous DM refractory to conventional therapies. Comparative studies have not been performed between these agents.

  - IVIG is administered monthly as a 2 g/kg infusion with clinical improvement expected within 2 - 3 cycles, but full benefit to be realized after about 6 months. The interval between treatments is typically lengthened in a progressive fashion once the patient is at a complete or near complete clinical response, however, relapse may occur upon treatment discontinuation. Improvement in cutaneous DM was reported in a randomized, placebo-controlled trial evaluating 2 g/kg IVIG monthly for DM-related myositis. Marked improvement in skin disease occurred in 8 of 12 patients treated with IVIG in either the initial or crossover phase of the trial with improvement evident 15 days after the first infusion and peaking between the second and third. Retrospective studies, case reports, and case series further support IVIG in refractory DM.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Mycophenolate mofetil for cutaneous DM is supported by uncontrolled studies and a case series. These studies suggest higher doses may be required to effectively treat cutaneous manifestations of DM. Mycophenolate mofetil is started as 500 mg twice daily for two weeks then titrated, if tolerated, up to 1.5 g twice daily with improvement in skin disease expected within two to three months of treatment. Due to the slow onset of action, overlapping treatment (i.e. with methotrexate) may reduce the risk of disease flares during titration. If the response is poor after three months, transitioning to alternative treatment is recommended.

- Other therapies for refractory cutaneous DM may include azathioprine, cyclosporine, cyclophosphamide, chlorambucil, and dapsone. There is a lack of strong evidence supporting these therapies which, along with the serious adverse effect profile associated with many of these agents, suggests that they may best be suited for patients who have failed or cannot receive IVIG or mycophenolate mofetil.

- Drug induced secondary hypogammaglobulinemia

  - Secondary hypogammaglobulinemia can occur due to a number of underlying conditions that decrease immunoglobulin production or increase protein loss, or due to immunosuppressive medications that decrease immunoglobulin production. It is distinct from hypogammaglobulinemia, which occurs due to inborn errors of immunity. The prevalence of secondary hypogammaglobulinemia is increasing due to the expanding utilization of highly specialized treatments, including B-cell targeted therapies and chimeric antigen receptor (CAR) T-cell therapy. Secondary hypogammaglobulinemia has been associated with an increased risk of infectious complications in certain patient populations.

  - There are many drugs that can induce secondary hypogammaglobulinemia. Rituximab, a CD20 monoclonal antibody, is the most widely used of these therapies. Secondary hypogammaglobulinemia associated with rituximab may be persistent and has been associated with increased infectious risk. Newer anti-CD20 monoclonal antibodies, such as ofatumumab, ocrelizumab, ublituximab, and obinutuzumab are also associated with reports of secondary hypogammaglobulinemia. Rates may be variable for different anti-CD20 monoclonal antibody therapies, with studies reporting a higher frequency of disease with rituximab than with the newer anti-CD20 agents. Monitoring immunoglobulin levels before and during treatment with anti-CD20 monoclonal antibody therapy is recommended.

  - CAR T-cell therapies target B-cell antigens including CD19 and B-cell maturation antibody (BCMA), as a treatment for B-cell leukemias and lymphomas, and multiple myeloma. These therapies result in B-cell aplasia, and hypogammaglobulinemia has been observed in a significant proportion of patients. Checking baseline immunoglobulin levels, specific antibody titers, and lymphocyte subsets before initiation of CAR T-cell therapy followed by monitoring of IgG levels monthly for 3 to 6 months after the initiation of therapy with less frequent monitoring further out from therapy is recommended.

  - Bispecific T-cell engager (BiTE) therapy is a class of bispecific monoclonal antibodies that bind CD3 on T-cells and a specific antigen on a target simultaneously, leading to T-cell-mediated killing of the target cell. Current B-cell antigen targets of BiTEs include CD19, CD20, BCMA (, and G protein-coupled receptor, group 5, member D. B-cell aplasia observed with CD19 BiTE therapy is typically of shorter duration than that associated with CD19 CAR T-cells, and hypogammaglobulinemia appears to occur in a minority of patients. However, the incidence of hypogammaglobulinemia with BCMA- and GPRC5D-BiTE therapy is very high, and infections are common.

  - Many other therapies can cause secondary hypogammaglobulinemia and are agents that selectively target cells and pathways of the immune system to achieve their therapeutic effects and are used primarily in the treatment of rheumatic, inflammatory, and malignant diseases. The likelihood of clinically significant infection

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

primarily depends upon the actions of the drug in question, its dose, and the duration of treatment. In addition, there are other patient-specific factors that contribute to the risk. The most important are: the nature of the underlying disease process; the functional status and medical fragility of the patient; and the concomitant use of other immunosuppressive medications with synergistic adverse immunologic effects.

- The 2022 American Academy of Allergy, Asthma, and Immunology practical guidance for the diagnosis and management of secondary hypogammaglobulinemia state when low levels of IgG are detected in patients on a drug with the ability to cause secondary hypoimmunoglobulinemia their history should be reviewed for serious, recurrent infections and IgG levels should be redrawn to make sure the lower levels were not transient. Antibody titers should be done to determine titer levels for tetanus and *Streptococcal* pneumonia. Patients should be vaccinated when appropriate with vaccine titers being done 4 – 6 weeks after vaccination.

- If patients have a history of recurrent, severe, or unusual infections with either an IgG level less than 700 mg/dL, a suboptimal response to vaccination, and failed antibiotic prophylactic therapy; an IgG level less than 400 mg/dL and failed prophylactic antibiotic therapy; or an IgG level less than 150 mg/dL should be considered for IVIG replacement therapy. The starting dose is 400 – 600 mg/kg/month with a target IgG level of 800 mg/dL. Discontinuation of the offending agent should be considered when other treatment options are available. IgG levels should be monitored every 3 months with assessment of discontinuation of IVIG 9 – 12 months after discontinuation of the medication causing the secondary hypoimmunogammaglobulinemia.

- Fetal alloimmune thrombocytopenia

  - Fetal alloimmune thrombocytopenia is the most common type of severe thrombocytopenia in fetuses and neonates. It results from incompatibility between parents for platelet-specific antigens. These antigens are inherited in the fetus in an autosomal codominant fashion. Fetal-maternal passage of platelets leads to the development of specific antibodies to the exposed antigen in the pregnant patient.

  - The diagnosis is usually made after an affected pregnancy when either severe unexplained thrombocytopenia presents in a neonate or fetal or neonatal intracranial hemorrhage is diagnosed in the presence of thrombocytopenia. Confirmation of the diagnosis requires both demonstration of platelet-specific antigen incompatibility between the parents or between the mother and the neonate and the presence of maternal antibodies against the involved antigen. The most significant complication of fetal alloimmune thrombocytopenia is intracranial hemorrhage.

  - Because the majority of intracranial hemorrhages occur before the onset of labor, treatment must be initiated antenatally to prevent them. Treating the mother with IVIG is the mainstay of therapy for fetal alloimmune thrombocytopenia. Depening of the severity of disease in prior pregnancies, the 2011 Fetal and Neonatal Alloimmune Thrombocytopenia Management Algoirithm recommend initiation of therapy should begin at different gestational timeframes.

    - When the mother has had an infant with thrombocytopenia but no intracranial hemorrhage, IVIG should be started at 20 weeks gestation at a dose of 2 g/kg/week or 1 g/kg/week with 0.5 mg/kg/day of prednisolone. At 32 weeks gestation, the dose of IVIG is increased to 2 g/kg/week and should be given with 0.5 mg/kg/day of prednisolone.

    - When the mother has had a previous fetus or neonate with intracranial hemorrhage diagnosed at 28 or more weeks of gestation, IVIG should be initiated at a dose of 1 g/kg/week at 12 weeks gestation. At 20 weeks, the dose of IVIG can be increased to 2 g/kg/week or 0.5 mg/kg/day prednisolone can be added to the patient's drug regimen. At 28 weeks gestation, the patient should receive 2 g/kg/week IVIG with 0.5 mg/kg/day prednisolone.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- When the mother has had a previous fetus with intracranial hemorrhage diagnosed at less than 28 weeks of gestation, IVIG should be initiated at a dose of 2 g/kg/week at 12 weeks gestation. At 20 weeks gestation, 1 mg/kg/day prednisolone should be added to the patient's drug regimen until delivery.

- HIV infected children

  - HIV infected children are at increased risk of infections and prevention of infections is a critical component of care.

  - Current guidelines, encompassing recommendations from CDC, the National Institutes of Health, the HIV Medicine Association of the Infectious Diseases Society of America, the Pediatric Infectious Diseases Society, and the American Academy of Pediatrics, strongly recommend IVIG use among HIV-infected children who have hypogammaglobulinemia to prevent serious bacterial infections (SBIs). The recommendation is based on evidence from trials where IVIG has been shown to decrease the frequency of bacterial infections, increase the time free from serious bacterial infections, and decrease the frequency of hospitalization in children with AIDS. The guidelines cite the supporting evidence is from studies that include children or children/adolescents, but not studies limited to post-pubertal adolescents.

  - The recommended dose is 400 mg/kg every 2-4 weeks to maintain the serum IgG level.

- Hypogammaglobulinemia associated with either chronic lymphocytic leukemia (CLL), multiple myeloma, or anti-CD20 monoclonal antibody treated B-cell lymphoma

  - Chronic lymphocytic leukemia

    - Chronic lymphocytic leukemia patients are at increased risk of infections and require management with infection prevention and antibiotic prophylaxis. Infections are the most common complication and cause of death in CLL patients. Patients with advanced disease and hypogammaglobulinemia are at in increased risk of serious infections.

    - National Comprehensive Cancer Network (NCCN) Chronic Lymphocytic Leukemia 2020 guidelines recommend IVIG in CLL patients with reduced serum IgG levels and recurrent infections requiring intravenous antibiotics or hospitalization. It is only recommended in patients with severe hypogammaglobulinemia, evidenced by serum IgG less than 400 - 500 mg/dL. Recommended dosing is 400 mg/kg every 4 weeks. Patients should receive concomitant prophylactic antibiotic therapy in accordance with the 2020 NCCN guidelines for Prevention and Treatment of Cancer-Related Infections.

    - In addition, American Academy of Allergy, Asthma, and Immunology 2016 guidelines recommend IVIG in patients with CLL with recurrent serious bacterial infections, along with reduced IgG, and subprotective antibody levels following diphtheria, tetanus, or pneumococcal immunizations. Monitoring of serum IgG levels during treatment is recommended to determine the need for continuation of therapy.

  - Multiple myeloma

    - Patients with multiple myeloma are at an increased risk of infections throughout the stages of the disease. Infections are a significant cause of morbidity and mortality in these patients, particularly those with advanced disease and hypogammaglobulinemia. Comprehensive treatment plans

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

include infection prevention precautions, prophylactic antibiotics, and, in select patients, IVIG.

- The 2020 Multiple Myeloma NCCN treatment guidelines recommend considering IVIG for patients with reduced serum IgG levels and recurrent, life-threatening infections. It is only recommended in patients with severe hypogammaglobulinemia, evidenced by serum IgG less than 400 - 500 mg/dL. Recommended dosing is 400 mg/kg every 4 weeks. Patients should receive concomitant prophylactic antibiotic therapy in accordance with the 2020 NCCN guidelines for Prevention and Treatment of Cancer-Related Infections.

- American Academy of Allergy, Asthma, and Immunology 2016 guidelines recommend IVIG in patients with recurrent serious bacterial infections and sub protective antibody levels following diphtheria, tetanus, or pneumococcal immunizations. This recommendation is based off a meta-analysis and systematic review showing a reduction in serious infections and mortality in patients receiving IVIG.

- B-cell lymphoma

  - Patients with B-cell lymphoma who are being treated with an anti-CD20 monoclonal antibody or CAR-T therapy are at an increased risk of infections due to the cytotoxic nature of their treatment. Infections are a significant cause of morbidity and mortality in these patients, particularly those with advanced disease and hypogammaglobulinemia. Comprehensive treatment plans include infection prevention precautions, prophylactic antibiotics, and, in select patients, IVIG.

  - The 2020 B-cell lymphoma NCCN treatment guidelines state patients on these therapies may experience hypogammaglobulinemia and recommend IVIG for patients with reduced serum IgG levels and recurrent, life-threatening infections. Recommended dosing is 400 mg/kg every 4 weeks. Patients should receive concomitant prophylactic antibiotic therapy in accordance with the 2020 NCCN guidelines for Prevention and Treatment of Cancer-Related Infections.

- Hypogammaglobulinemic neonates

  - Preterm and low birth weight infants are deficient in IgG and often cared for in intensive care units, where they are at risk for sepsis. IVIG has been studied as an immune enhancing agent to reduce the risk of sepsis in these settings. In a study of patients with very low birth rate, defined as 700 grams to 1,300 grams, the prevalence of sepsis was reduced within the first 30 days of life. Typically, in clinical practive, physicians treat all patients with a birth weight of less than 1500 grams with IVIG. However, a more recent Cochrane review concluded that IVIG was not associated with a reduction in mortality, although it was associated with a 3% reduction in sepsis and 4% reduction in 1 or more episodes of a serious infection.

  - American Academy of Allergy, Asthma, and Immunology 2016 guidelines state that the use of prophylactic IVIG may provide benefit in preventing sepsis for preterm infants. While the routine use of IVIG in neonates for the prevention of infection is not recommended, high-risk patients in acute care settings may benefit from therapy. Published studies have shown IVIG dosing of 0.5 g/kg to 2 g/kg weekly for approximately 4 weeks to be safe and effective.

- Inflammatory demyelinating polyneuropathy (acute)

  - Historically, Guillain-Barré syndrome (GBS) was considered a single disorder. It now is recognized as a heterogeneous syndrome with several variant forms.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Each form of GBS has distinguishing clinical, pathophysiologic, and pathologic features. Acute inflammatory demyelinating polyradiculoneuropathy (AIDP) is the most common form in the United States and Europe, representing approximately 85% - 90% of cases. The typical clinical features are a progressive, fairly symmetric, muscle weakness accompanied by absent or depressed deep tendon reflexes. The weakness can vary from mild difficulty with walking to nearly complete paralysis of all extremity, facial, respiratory, and bulbar muscles. Severe respiratory muscle weakness necessitating ventilatory support develops in about 30% of patients and dysautonomia occurs in 70% of patients. GBS usually progresses over a period of about two weeks.

- The initial diagnosis of GBS is based upon clinical presentation. The certainty of the diagnosis is supported if cerebrospinal fluid (CSF) analysis and electrodiagnostic studies showing abnormalities typical of GBS. Therefore, these studies should be performed in all patients with suspected GBS. Lumbar puncture often reveals an elevated CSF protein with a normal CSF white blood cell count. This finding, known as albuminocytologic dissociation, is present in 50% - 66% of patients with GBS in the first week after the onset of symptoms and greater than or equal to 75% of patients in the third week. Nerve conduction studies (NCS) and needle electromyography (EMG) are valuable for confirming the diagnosis of GBS and for providing some information regarding prognosis. In addition, electrodiagnostic studies are useful in classifying the main variants of GBS as demyelinating (eg, acute inflammatory demyelinating polyneuropathy) or axonal (eg, acute motor axonal neuropathy). Demyelinating forms of GBS are supported by features of demyelination including decreased motor nerve conduction velocity, prolonged distal motor latency, increased F wave latency, conduction blocks, and temporal dispersion.

  - The main modalities of therapy for Guillain-Barré syndrome (GBS) are plasma exchange and administration of IVIG. Patients recover sooner when treated early. IVIG is recommended in nonambulatory patients within 4 weeks of neuropathic symptom onset, and in ambulatory patients who are not yet recovering within 4 weeks of neuropathic symptom onset. The beneficial effects of plasma exchange and IVIG are believed to be equivalent while combining the two treatments is not beneficial. Intravenous immune globulin is given for five days at 0.4 g/kg per day.

- Inflammatory demyelinating polyneuropathy (chronic, CIDP)

  - CIDP, also known as chronic inflammatory demyelinating polyradiculoneuropathy, is an acquired, immune-mediated neuropathy affecting peripheral nerves and nerve roots. It is characterized by a relapsing-remitting or progressive course, glucocorticoid responsiveness, and electrodiagnostic or pathologic features of demyelination. In its classic form, CIDP manifests as a symmetric, motor-predominant neuropathy that results in both proximal and distal muscle weakness. Recognized variants include asymmetric and/or sensory-predominant forms. All share the common pathophysiology of inflammatory demyelination. Although relatively rare, CIDP is important to recognize among the varied causes of polyneuropathy as it is treatable with immunomodulatory therapies.

  - There is a temporal continuum between acute inflammatory demyelinating polyneuropathy (AIDP), which is the demyelinating form of Guillain-Barré syndrome (GBS), and CIDP. The time course of progression and the occurrence of relapses are used to distinguish between these entities. GBS commonly reaches its nadir within three to four weeks but does not progress beyond eight weeks. CIDP continues to progress or has relapses for greater than eight weeks. GBS is typically monophasic, but up to two relapses in the first eight weeks from onset can occur. Three or more relapses in the first eight weeks is highly suggestive of acute CIDP. Relapses closer to the eight week time period is more suggestive of CIDP.

  - The diagnosis of CIDP should be considered in patients presenting with a progressive or relapsing-remitting polyneuropathy involving both motor and sensory axons along with areflexia, particularly when weakness predominates and affects proximal and distal muscles simultaneously and symmetrically. While the initial suspicion for CIDP is clinical, the diagnosis is confirmed by evidence of peripheral nerve demyelination, which must be demonstrated by electrodiagnostic findings or rarely by nerve biopsy, and exclusion of other disorders that may cause or mimic CIDP.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Electromyography (EMG) should be performed in all patients with suspected CIDP and is a critical component of the evaluation. The characteristic electrophysiologic features of a definitive CIDP diagnosis per the EFNS/PNS guidelines are those of peripheral nerve demyelination which include at least one of the following:
    - Greater than or equal to 50% prolongation of motor distal latency above the upper limit of normal in two nerves
    - Greater than or equal to 30% reduction of motor conduction velocity below the lower limit of normal in two nerves
    - Greater than or equal to 20% prolongation of F-wave latency above the upper limit of normal in two nerves or greater than 50% if the amplitude of the distal negative peak compound motor action potention (CMAP) is less than 80% of the lower limit of normal
    - Absence of F waves in two nerves, if these nerves have amplitudes of distal negative peak CMAPs greater than or equal to 20% of the lower limit of normal, plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
    - Partial motor conduction block, defined by a greater than 50% amplitude reduction of the proximal negative peak CMAP relative to distal, if distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal, in two nerves, or in one nerve plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
    - Abnormal temporal dispersion, defined by a greater than 30% duration increase between the proximal and distal negative peak CMAP in at least two nerves
    - Distal CMAP duration (interval between onset of the first negative peak and return to baseline of the last negative peak) increase in at least one nerve (median greater than or equal to 6.6 ms, ulnar greater than or equal to 6.7 ms, peroneal greater than or equal to 7.6 ms, tibial greater than or equal to 8.8 ms) plus at least one other demyelinating parameter, meeting any of the definite criteria, in at least one other nerve
- The EFNS/PNS guidelines state probable CIDP is considered when patients have greater than or equal to 30% amplitude reduction of the proximal negative peak CMAP relative to the distal, excluding the posterior tibial nerve, if the distal negative peak CMAP is greater than or equal to 20% of the lower limit of normal in two nerves or in one nerve plus at least one other demyelinating parameter meeting any of the definite criteria in at least one other nerve.
- Cerebrospinal fluid (CSF) analysis is recommended in patients with probable CIDP and particularly for patients in whom the clinical and electrophysiologic findings are inconclusive. Albuminocytologic dissociation is a hallmark of CIDP and represents supportive evidence in the EFNS/PNS diagnostic criteria for probable CIDP.
- Magnetic resonance imaging (MRI) with gadolinium of the spine (including spinal roots, cauda equina), brachial plexus, lumbosacral plexus, and other nerve regions can be used to look for enlarged or enhancing nerves. MRI abnormalities are useful as supportive criteria for probable CIDP in the EFNS/PNS guideline.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The initial dose of IVIG is 2 g/kg infused over two to five days (eg, 0.4 g/kg per day for five days). Many patients with CIDP require a treatment trial of repeat IVIG dosing every two to six weeks depending on clinical course.

- Idiopathic thrombocytopenia purpura (ITP, acute)

  - Immune thrombocytopenia (ITP), defined as a platelet count less than 100,000/µL, is an acquired form of thrombocytopenia that is primarily due to autoantibody-mediated destruction of platelets. The autoantibodies may also affect megakaryocytes and impair platelet production. ITP is a diagnosis of exclusion, characterized by isolated thrombocytopenia without a clinically apparent condition responsible for the low platelet count; there are no reliable laboratory tests to confirm the diagnosis.

  - The time elapsed since diagnosis determines whether ITP is referred to as newly diagnosed, persistent, or chronic. Patients are considered newly diagnosed up to three months since diagnosis. Patients have persistent disease if they are still experiencing low platelet counts in the 3 to 12 month timeframe from diagnosis. If symptoms persist more than 12 months from diagnosis, the disease is labeled as chronic.

  - The most commonly used agents for initial treatment of ITP for those who require it are glucocorticoids and IVIG. Intravenous anti-D immune globulin is a type of immune globulin that may be effective in patients who have an Rh+ blood type and have not had a splenectomy. IVIG raises the platelet count more rapidly than glucocorticoids and therefore, is often used for patients with active bleeding, patients who need an urgent invasive procedure, or patients who experience side effects with glucocorticoids. For all patients with severe bleeding and a platelet count less than 30,000/µL, immediate platelet transfusion along with ITP-specific therapy with IVIG and high-dose glucocorticoids are recommended. ITP-specific therapy should also be administered to patients with a new diagnosis of ITP and a platelet count less than 20,000/µL, even in the absence of bleeding symptoms, because the thrombocytopenia may be persistent and become more severe. Some patients with platelet counts greater than 30,000/µL may require treatment if they have an increased risk of bleeding (eg, peptic ulcer disease, high risk of falling), other hemostatic defects (eg, use of antiplatelet agents or anticoagulants), a history of bleeding at a higher platelet count, or a need for surgery/invasive procedures.

  - IVIG is administered at 1 g/kg daily for one or two days; 1 g/kg for one day is often sufficient. Alternative dosing can also be used, for example, 400 mg/kg daily for five days. The IVIG can be stopped when a response occurs even if the full course has not been completed.

- Idiopathic thrombocytopenia purpura (ITP, chronic)

  - Immune thrombocytopenia, defined as a platelet count less than 100,000/µL, is an acquired form of thrombocytopenia that is primarily due to autoantibody-mediated destruction of platelets. The autoantibodies may also affect megakaryocytes and impair platelet production. ITP is a diagnosis of exclusion, characterized by isolated thrombocytopenia without a clinically apparent condition responsible for the low platelet count; there are no reliable laboratory tests to confirm the diagnosis.

  - The time elapsed since diagnosis determines whether ITP is referred to as newly diagnosed, persistent, or chronic. Patients are considered newly diagnosed up to three months since diagnosis. Patients have persistent disease if they are still experiencing low platelet counts in the 3 to 12 month timeframe from diagnosis. If symptoms persist more than 12 months from diagnosis, the disease is labeled as chronic.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The threshold for pharmacologic treatment depends on multiple factors including ongoing bleeding symptoms, risk factors for bleeding, such as, sports or an active lifestyle, concomitant medical conditions and medications, anxiety, fatigue, and access to medical care. Decisions should be individualized and made in collaboration with the patient and family. Children with chronic ITP should be managed by a pediatric hematologist whenever possible.

- IVIG is considered a rescue therapy for patients with chronic ITP rather than routine, ongoing therapy. It should only be used in patients meeting the requirements for acute treatment and who have had a platelet count less than 100,000/µL for more than 12 months. The most commonly used agents for treatment of acute drop in platelets in patients with chronic ITP are glucocorticoids and IVIG. Intravenous anti-D immune globulin is a type of immune globulin that may be effective in patients who have an Rh+ blood type and have not had a splenectomy. IVIG raises the platelet count more rapidly than glucocorticoids and therefore, is often used for patients with active bleeding, patients who need an urgent invasive procedure, or patients who experience side effects with glucocorticoids. For all patients with severe bleeding and a platelet count less than 30,000/µL, immediate platelet transfusion along with ITP-specific therapy with IVIG and high-dose glucocorticoids are recommended. ITP-specific therapy should also be administered to patients with a platelet count less than 20,000/µL, even in the absence of bleeding symptoms, because the thrombocytopenia may be persistent and become more severe. Some patients with platelet counts greater than 30,000/µL may require treatment if they have an increased risk of bleeding (eg, peptic ulcer disease, high risk of falling), other hemostatic defects (eg, use of antiplatelet agents or anticoagulants), a history of bleeding at a higher platelet count, or a need for surgery/invasive procedures.

- For patients with chronic ITP whose symptoms and risks are not adequately controlled using first-line therapies and for those who remain dependent on glucocorticoid therapy to control symptoms, second-line treatments include rituximab, eltrombopag, romiplostim, and splenectomy. Other agents that are sometimes used for patients who require chronic immunosuppression include azathioprine, 6-MP, or MMF. The choice among these options is complex and highly dependent on the values and preferences of the patient and family.

- Idiopathic thrombocytopenia purpura in pregnancy

  - ITP occurs in approximately 1 to 3 in 10,000 pregnancies with only a subset of patients having platelet counts less than 50,000/µL. This is approximately 10-fold greater than the incidence of ITP in the general population which is estimated to be 3 in 100,000 adults. As in non-pregnant individuals, the risk of bleeding is greater with platelet counts less than 20,000 to 30,000/µL, although there is no absolute platelet count threshold above which bleeding does not occur. Data indicates an increased risk of bleeding if platelet count is below 20,000 to 30,000/µL for a vaginal delivery or below 50,000/µL for a cesarean section.

  - The American Society of Hematology recommends medical management of ITP in pregnancy in the following scenarios: patients are in their 3rd trimester with platelets less than 10,000/µL; platelets are 10,000 to 30,000/µL with bleeding; platelets are less than 10,000 µL after steroid failure; platelets are 10,000 to 30,000/µL and the patient is experiencing bleeding after steroid failure; and the patient is in their 3rd trimester with platelets 10,000 to 30,000 µL and asymptomatic following steroid failure.

  - Due to their efficacy and low cost, many consider corticosteroids to be first line treatment for ITP in pregnancy. However, the many adverse effects of corticosteroids are amplified during pregnancy, and pregnancy-specific toxicities such as gestational diabetes, weight gain, acceleration of bone loss, hypertension, and possibly placental abruption and premature labor must be recognized. Furthermore, some studies have associated the use of corticosteroids in the first trimester with congenital anomalies, such as orofacial clefts.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Alternatively, others have suggested that IVIG should be the first line therapy for pregnancy-associated ITP, especially when a long duration of therapy may not be required. Compared to corticosteroids, IVIG is less likely to induce toxicities such as hypertension. ASH guidelines consider IVIG to be an appropriate first line agent for severe thrombocytopenia, or thrombocytopenic bleeding in the third trimester. However, responses to IVIG tend to be transient, and multiple courses of therapy may be required at significant cost and patient inconvenience. Treatment with 2 g/kg IVIG infused over two to five days is an effective means of raising the platelet count rapidly.

- Kawasaki syndrome

  - Kawasaki disease (KD) is one of the most common vasculitides of childhood. KD also occurs rarely in adults. It is typically a self-limited condition with fever and manifestations of acute inflammation lasting for an average of 12 days without therapy. However, complications such as coronary artery (CA) aneurysms, depressed myocardial contractility and heart failure, myocardial infarction, arrhythmias, and peripheral arterial occlusion may develop and lead to significant morbidity and mortality.

  - There is no single test to diagnose KD. Diagnosis requires the presence of fever lasting greater than or equal to 5 days combined with other physical findings, without an alternative explanation, that could include bilateral bulbar conjunctival injection, oral mucous membrane changes such as fissured lips or strawberry tongue, peripheral extremity changes such as erythema of palms or soles, edema of hands or feet, polymorphous rash, cervical lymphadenopathy.

  - Randomized, controlled studies and meta-analyses have confirmed that IVIG, in conjunction with aspirin, started within 10 days of fever onset reduces the risk of CA aneurysms from approximately 25% to less than 5%. IVIG has additional beneficial effects in KD, such as rapid resolution of the almost universal lymphocytic myocarditis seen in the disease. IVIG is not effective if more than ten days have elapsed from onset of symptoms. Expeditious diagnosis and timely treatment are critical to achieve the optimal clinical outcome. The usual dose of IVIG is 2 g/kg as a single dose, or 400 mg/kg daily for 5 days.

- Lambert-Eaton myasthenic syndrome (LEMS)

  - LEMS is a rare acquired autoimmune disorder characterized by proximal weakness of extremities, decreased reflexes, and dryness of mouth and eyes. Weakness normally spreads proximally (most common in the upper arms and legs) to distally (involving feet and hands) and from the posterior towards the head, finally reaching the oculobulbar region. This is in contrast to myasthenia gravis, in which weakness typically starts in the head and then descends. The characteristic weakness is thought to be caused by antibodies generated against the P/Q-type voltage-gated calcium channel (VGCC) present on presynaptic nerve terminals and by diminished release of ACh. More than one-half of LEMS cases are associated with small cell lung cancer which expresses functional VGCC.

  - The diagnosis of LEMS is confirmed by electrodiagnostic studies including repetitive nerve stimulation and anti-P/Q-type VGCC antibody testing. The electrodiagnostic evaluation of suspected LEMS typically involves the following elements: routine motor and sensory nerve conduction studies, high-frequency repetitive nerve stimulation and/or exercise testing, and electromyography (EMG). Antibodies against the P/Q-type VGCC) are present in approximately 85% to 95% of patients with LEMS.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There are no clinical practice guidelines for LEMS. The most effective treatments increase the presynaptic release of acetylcholine and thereby reverse the underlying physiologic deficit present in LEMS. If adequate to induce stable functional muscle strength, no further treatment may be needed. Amifampridine is FDA approved to treat LEMS and used as a first line treatment option as it improves the release of acetylcholine. For patients who do not improve sufficiently second line treatment options include IVIG and oral immunosuppressants such as prednisone, azathioprine, mycophenolate mofetil, and cyclosporine. Some experts are reluctant to use oral immunosuppressive agents such as azathioprine in patients with cancer because of concerns that such treatment may exacerbate the malignancy.

- A number of small studies suggests benefit of IVIG in LEMS, with both clinical improvement such as improved muscle strength and a reduction in the voltage-gated calcium channel antibodies. The recommended dose of IVIG is 2 g/kg administered over 2 – 5 days every 4 - 12 weeks depending on duration of response.

- Multifocal motor neuropathy (MMN)

  - MMN is a rare disorder in which focal areas of multiple motor nerves are attacked by one's own immune system. Typically, MMN is slowly progressive resulting in asymmetrical weakness of a patient's limbs. Patients frequently develop weakness in their hand(s) causing them to drop objects or be unable to turn a key in a lock. The weakness associated with MMN can be recognized as fitting a specific nerve territory. There is essentially no objective sensory abnormalities, such as, numbness, tingling, or pain. Patients with MMN can have other symptoms, including twitching, or small random dimpling of the muscle under the skin which neurologists call fasciculations. MMN is associated with increased levels of specific antibodies to GM1, a ganglioside or sugar-containing lipid found in peripheral nerves. Elevated titers of anti-GM1 antibodies are present in 30% to 80% of patients. However, it is unclear whether anti-GM1 antibodies are involved in the pathogenesis of MMN.

  - The European Federation of Neurological Societies/Peripheral Nerve Society (EFNS/PNS) have specific requirments for the diagnosis of MMN to be made. Two core criteria must be present in a patient. The first is a slowly progressive, focal asymmetric limb weakness defined as motor involvement in the moror nerve distribution of at least two nerves for more than one month. If signs and symptoms are present only in the distribution of one nerve, only a possible diagnosis can be made. The second core criterion is a lack objective sensory abnormalities except for minor vibration sense abnormalities in the lower limbs. The diagnosis is supported by nerve conduction studies that demonstrate focal demyelination and condution block in motor nerves and normal sensory nerves. Additional supportive clinical criteria include predominant upper limb involvement, decreased or absent tendon reflexes in the affected limb, absence of cranial nerve involvement, cramps and fasciculations in the affected limb, and a response in terms of disability or muscle strength to immunomodulatory treatment. MMN can be ruled out if the patient has upper motor neuron signs, marked bulbar involvement, sensory impairment more marked than minor vibration loss in the lower lilmbs, or diffuse symmetric weakness during the initial weeks.

  - MMN is treatable with IVIG. However, unlike chronic inflammatory demyelinating polyneuropathy, MMN is generally unresponsive to glucocorticoids or plasma exchange, and these therapies have been associated with clinical worsening in some cases. The EFNS/PNS and the American Academy of Neurology treatment guidelines recommend IVIG 2 g/kg given over two to five days for initial treatment of patients with MMN who require treatment due to disease progression or disability has been shown to be effective.

- Myasthenia gravis (MG)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Myasthenia gravis is a rare autoimmune disease resulting from an immunologic attack of AChR, muscle-specific tyrosine kinase (MuSK), and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities.

- Approximately 10-15% of MG cases will become refractory resulting in profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Refractory disease is defined by the 2016 international consensus guidance for management of myasthenia gravis as worsening or unchanged disease despite use of corticosteroids and at least two different immunosuppressive therapies used in adequate doses for an adequate duration with persistent symptoms and/or side-effects that limit function.

- A proportion of patients with myasthenia gravis will experience myasthenic crisis. Impending myasthenic crisis is defined as rapid clinical worsening of myasthenia gravis that, in the opinion of the treating clinician, could lead to crisis within days to weeks. Myasthenic crisis is defined by increasing respiratory muscle and/or bulbar muscle weakness severe enough to necessitate intubation and/or mechanical ventilation. Patients experiencing symptoms of crisis should be admitted to the hospital and assessed for the need for ventilation. The 2016 international consensus guidance for management of myasthenia gravis state therapy with immunoglobulin or plasma exchange (PLEX), also known as rapid therapy, should initiated. These interventions provide a quick reversal of the exacerbation but benefits only last a few weeks. Therefore, immunosuppressive therapy should also be started to provide a longer benefit over the rapid therapies.

- The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. The 2016 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on Class II evidence from a meta-analysis. Thymectomy should only be performed once a patient's MG has stabilized. In patient with persistent mild residual respiratory impairment or dysphagia despite treatment with pyridostigmine and immunosuppression, a course of IVIG or PLEX can be given/done preoperatively. This practice is empiric, with a goal of reducing the risk of a postoperative flare evolving quickly into myasthenic crisis. Treatment should be timed to end the week prior to surgery so that the effects of the rapid therapy peak and persist through the perioperative period.

- Standard therapies recommended by the 2016 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, IVIG, and PLEX.

    - Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

    - Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

    - Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

more frequently than every 3 to 6 months. Once the patient experiences treatment effect and doses should be maintained for six months to two years of therapy and then tapered to the lowest effect dose.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. A number of case reports and case series support the efficacy of rituximab in patients with refractory MG. In a prospective study of 22 patients with refractory MG treated with rituximab, the mean time to relapse was 17 months. Among 14 patients taking prednisone, the mean daily dose decreased from 25 mg at baseline to 7 mg after treatment with a mean follow-up of 29 months. In an observational study of 72 patients with new-onset or refractory generalized MG, those treated with low-dose rituximab had shorter time to remission, lower use of adjunctive treatments, and fewer adverse events than patients treated with conventional immunosuppressive therapy.

- Pediatric acute-onset neuropsychiatric syndrome (PANS)/pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections (PANDAS)

  - PANDAS is a clinical diagnosis in children who have an acute manifestation of varied neuropsychiatric symptoms following a streptococcal (strep) infection. A child may be diagnosed with PANDAS when obsessive compulsive disorder (OCD), a tic disorder, or both suddenly appear or become worse after an illness caused by streptococci, such as strep throat or scarlet fever. The symptoms are usually dramatic, happening “overnight and out of the blue.” In addition to OCD and tics, children may become moody or irritable, experience anxiety attacks, show concerns about separating from parents or loved ones, or have issues with attention and concentration. PANS has similar features to PANDAS including OCD, eating restrictions, anxiety, attention deficit disorder, and academic decline and develops following a viral or bacterial infection. Although PANS/PANDAS are emerging autoimmune encephalopathic diseases, these two conditions are unique from autoimmune encephalitis (AE) which presents with seizures or new focal CNS findings, MRI abnormalities, and/or elevated white blood cell count in the cerebral spinal fluid. AE patients also have cognitive dysfunction whereas cognitive function remains intact with PANS/PANDAS. In addition, PANS/PANDAS patients often experience a relapsing/remitting course with rapid progression to maximum symptoms and rapid return to previous function.

  - While the etiology of PANDAS is still unclear, studies suggest that the condition is brought on by a cross-reaction between antibodies to Streptococcus pyogenes and structures on neuronal cells in the brain. GABHS bacteria use molecular mimicry to appear nearly identical to molecules found in normal human tissues, thereby allowing the bacteria to evade detection for long periods of time. Once the GABHS bacteria is recognized as foreign to the body, the immune system reacts not only to the strep infection but also to the human host molecules that were mimicked. The result is an abrupt onset of PANDAS symptoms.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- PANDAS/PANS is a diagnosis of exclusion. Differentiating PANDAS from phenotypically similar conditions, such as OCD, tic disorders, and autism spectrum disorder (ASD), remains challenging and controversial due to both heterogeneous presentations and the likelihood that at least some instances of these other disorders share overlapping pathophysiology. Currently, PANDAS is characterized by five working diagnostic criteria including: OCD and/or tic disorder; pediatric onset between the age of 3 and the start of puberty; an abrupt onset and episodic course of symptoms; a temporal relationship between GABHS infection and onset and/or exacerbation; and neurologic abnormalities, such as motoric hyperactivity, choreiform movements, or tics during exacerbations. Children who present with abrupt onset of OCD and/or tic disorder, separation anxiety, or urinary frequency should be evaluated for PANDAS by testing for GABHS infection. The diagnosis is considered probable when patients present with an abrupt onset of neuropsychiatric symptoms, have evidence of recent GABHS infection, and remission of neuropsychiatric symptoms with antibiotic therapy. Because clinical diagnostic classification is challenging, more research is clearly needed to identify reliable diagnostic biomarkers of active disease including autoantibodies, inflammatory cells, metabolic profiles, and/or neuroimaging signatures. The quality of the evidence for the use of IVIG in ASD is still below what is commonly accepted for a routinely used treatment with the bulk of the studies being uncontrolled. Many studies demonstrated bias, including selection bias (lack of randomization), performance bias (lack of blinding), detection bias (lack of standardized outcomes), attrition bias (retrospective studies are prone to losing patients to follow-up), and reporting bias (case studies tend to report positive rather than negative outcomes). Thus, the current set of studies presented should be used to design and implement well-controlled, blinded randomized clinical trials in the future. Additionally, the populations used in these studies are very heterogeneous with many different immune system abnormalities, making it hard to determine if there is a particular subset of children with ASD in which the treatment may be most effective. Consensus guidelines are silent on the use of IVIG to treat symptoms related to autism.

- If PANDAS is an autoimmune disorder, and this remains controversial, then immunomodulatory treatments might be beneficial, but as of yet are unproven. Most of the medical treatment approaches targeting immune modulation are supported by weak or conflicting evidence. A recent comprehensive review by Sigra et al identified 12 treatment studies with published outcomes data. Eleven of the 12 studies were judged to have a moderate or high risk of bias, including selection bias, performance bias, detection bias, attrition, reporting bias, other bias, or a combination of these issues. The one exception was a randomized, controlled clinical trial conducted by Williams et al comparing IVIG with placebo for treatment of PANDAS OCD in 35 children which showed no difference between the IVIG and placebo groups in OCD severity scores or proportion of responders. In contrast, follow-up open-label treatment trials in these patients reported improvement in all participants regardless of their initial treatment group assignment. The follow-up data suggests patients and care givers are experiencing a placebo effect and not true treatment related resolution of symptoms.

- In addition to the Sigra et al review, Hayes completed an additional evidence-based review of the use of IVIG in PANDAS. Of the 92 records reviewed, 3 studies reported met inclusion requirements which consisted of enrollment of at least 10 patients, reporting of aggregate data for the patient population, published in 2001 or later, and assessment of patient-oriented efficacy and/or safety outcomes. The first included study by Perlmutter et al was a randomized-controlled trial of 30 pediatric patients with severe, infection-triggered exacerbations of OCD or tic disorders comparing treatment with IVIG, plasma exchange, or placebo. While results suggest that IVIG was both effective in reducing neuropsychiatric symptoms severity when compared w/ placebo, the study also had a significant number of limitations. First, there was a small sample size with no power analysis and no intent to treat analysis. Eighteen percent (3 of 17) of patients underwent additional treatment with IVIG, PE, or other additional treatments from 1 month to 1 year. Also the authors note results may not be generalizable due to strict inclusion criteria. Hayes also included the Williams et al along with the Lyon et al study. The analysis resulting in the same conclusions citing study limitations, smaller than expected effect size due to greater placebo effect and lower treatment benefit of IVIG which led to the study being underpowered. In addition, select outcome measures relied on parent report with the potential for recall bias, and the long-term outcomes may reflect benefit from the additional treatment in the follow-up months. The final study included in the Hayes report was completed by Melamed et al. It was a prospective, open-label, single-arm pretest/posttest study evaluating the use of IVIG in 21 patients with PANS. Results suggest that patients with moderate-to-severe PANS treated with IVIG experienced

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

improvement in neuropsychological symptoms. In a subset of patients with long-term follow-up, up to 46 weeks post-treatment, symptom relief was sustained. There were significant limitations to this study as well, including no control or comparator group; a small sample size with no power analysis; an open-label trial; no intent to treat analysis; and only a subset of patients had long-term data available. Evaluating the strength of evidence in both the Sigra and Hayes reviews, there is currently insufficient data to clearly support the use of any immune modulating treatment, including IVIG, for PANDAS due to significant flaws in clinical trial design and multiple sources of bias.

- Pediatric intractable epilepsy

  - Patients with epilepsy whose seizures do not successfully respond to antiseizure drug therapy are considered to have drug-resistant epilepsy (DRE). This condition is also referred to as intractable, medically refractory, or pharmacoresistant epilepsy. As many as 20% to 40% of patients with epilepsy are likely to have refractory epilepsy.

  - Epilepsy surgery should be considered in appropriate patients with DRE when seizures are sufficiently frequent or severe as to significantly increase the mortality risk or disrupt the patient's quality of life. Surgery is a reasonable option for people with refractory epilepsy if seizures start in one area of the brain and that area can be removed safely. Vagus nerve stimulation (VNS) therapy is a way of controlling seizures in people who do not respond to medications and may not respond to surgery. The vagus nerve sends information from your neck down to the chest and stomach and then back up again. The vagus nerve then sends information up to the brain. Stimulation of the vagus nerve can change the likelihood of the brain to have seizures. The "classic" ketogenic diet is a special high-fat, low-carbohydrate diet that helps to control seizures in some people with epilepsy. It is prescribed by a physician and carefully monitored by a dietitian. It is usually used in children with seizures that do not respond to medications.

  - The efficacy of IVIG treatment for severe childhood epilepsy was evaluated in a retrospective, multicenter study comprising 64 consecutive patients treated with IVIG for either epileptic encephalopathy or refractory epilepsy. Nine patients (14%) demonstrated complete resolution and 10 (15.6%) exhibited partial improvement. Of these 19 responders (29.7%), eight relapsed. Although IVIG is not suitable for all cases of epilepsy, it may prove efficacious for specific epileptic syndromes, mainly idiopathic West syndrome and electrical status epilepticus during sleep.

- Polymyositis (PM)

  - Polymyositis is a type of inflammatory myopathy characterized by proximal skeletal muscle weakness and muscle inflammation. Muscle weakness usually happens over days, weeks, or months. It can affect a patient's ability to walk, run, and pick themselves up after a fall. The weakness typically begins with muscles closest to and within the trunk of the body, such as the muscles of the neck, hips, back, and shoulders. The exact cause of the disease is unknown but it shares many characteristics with autoimmune disorders. In some cases, the disease may be associated with viral infections, connective tissue disorders, or an increased risk for malignancies.

  - Diagnosis is based on a clinical examination that may include laboratory tests, imaging studies, electromyography (EMG), and a muscle biopsy. There is no agreed upon criteria for diagnosis with multiple methods published throughout the literature. The 2005 International Consensus Guidelines for Trials of Therapies in the Idiopathic Inflammatory Myopathies guidelines suggest diagnosis can be made with an abnormal biopsy consistent with PM and no pathognemic rash suggestive of dermatomyositis. In contrast, the Myositis Association lists comprehensive diagnostic criteria on their website stating patients should present without skin symptoms and four of the following: symmetrical muscle weakness in the shoulders/upper arms or hips/upper legs and trunk; elevated skeletal

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

muscle-associated enzymes; muscle pain on grasping or spontaneous pain; a triad of muscle-related changes on EMG including short, small, low-amplitude polyphasic motor unit potentials, fibrillation potentials, and bizarre high-frequency repetitive discharges; positive for any of the myositis-specific autoantibodies; nondestructive arthritis or arthralgias; signs of systemic inflammation; or muscle biopsy findings compatible with inflammatory myositis. In addition, Dalakas MC & Hohlfeld developed their own diagnostic requirements. Due to the lack of consistent diagnostic criteria, PM is generally considered a disease of exclusion and is typically diagnosed when all other disorders are ruled out.

- The goals of treatment are to improve muscle strength and to avoid the development of extramuscular complications. Glucocorticoids are considered first-line therapy for PM. They are typically initiated with prednisone at a dose of 1 mg/kg per day, to a maximum daily dose of 80 mg. A steroid-sparing immunosuppressive agent, either methotrexate or azathioprine, is generally started along with glucocorticoid treatment so the patient can eventually begin to taper their steroids. Tapering of glucocorticoids is based on a combination of the improvement in muscle enzymes and recovery of muscle strength. Ideally, normalization of enzymes and complete recovery of muscle strength should occur before glucocorticoids are tapered. The initial response to glucocorticoids in the patient with PM typically takes four to six weeks for normalization of creatine kinase (CK) levels or three to four months to regain muscle strength.

- Some patients either relapse after an initial response or fail to respond to glucocorticoids and immunosuppressant therapy. These patients are considered to have recurrent or resistant disease. Multiple options exist as second-line therapy for those who do not respond adequately to glucocorticoids plus azathioprine or methotrexate. IVIG is considered the next step when the patient experiences recurrent or resistant disease. In PM, no controlled studies have been conducted, but IVIG has seems to be effective in approximately 70% of patients. Other therapies that have been shown to have some effectiveness either alone or in combination with other therapies include cyclosporin, mycophenolate mofetil, chlorambucil, and cyclophosphamide.

- Post-transfusion purpura

  - Post-transfusion purpura (PTP) is a rare but serious transfusion-associated complication characterized by thrombocytopenia developing within 2 weeks of transfusion accompanied by bleeding of variable severity that can be life-threatening. The prevalence of PTP is unknown and difficult to establish as the disease is difficult to differentiate from other thrombocytopenic conditions. According to case reports and series, previously pregnant women are the most commonly affected group with likelihood of developing PTP increasing with prior exposure to a specific human platelet antigen (HPA) absent on the patient's platelets. Subsequent transfusions re-expose recipients to the antigen triggering an immune response that induces platelet destruction. The most commonly implicated antibody is anti-HPA-1a made by patients with an HPA-1b/1b genotype.

  - PTP presents as severe thrombocytopenia with less than 10,000 platelets/μL sometimes accompanied by life-threatening bleeding with symptoms occurring 5 - 10 days after transfusion of blood products containing platelets (including whole blood, packed RBCs, platelets, and plasma). Bleeding is typically mucocutaneous (e.g. petechiae, epistaxis, gingival bleeding) with the most common sites of bleeding being the mucous membranes, the gastrointestinal tract, and the urinary tract. PTP is considered a self-limited disease with recovery of platelet counts seen in approximately 20 days.

  - Diagnosis of PTP can be challenging due to the wide array of thrombocytopenic syndromes with symptomatic overlap. Differential diagnosis includes immune thrombocytopenic purpura (ITP), drug-induced thrombocytopenia (DITP), thrombotic thrombocytopenic purpura (TTP), heparin-induced thrombocytopenia (HIT), disseminated intravascular coagulation (DIC), sepsis, and pseudo thrombocytopenia.

  - Patients with acute, severe thrombocytopenia that develops approximately 5-10 days following a blood transfusion, together with primarily mucocutaneous

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

bleeding and the presence of potent HPA-specific platelet antibodies, is diagnostic of PTP. Platelet antibody testing is required to confirm diagnosis. HPA genotyping may also be of additional benefit.

- Antibodies against HPA-1, HPA-2, HPA-3, HPA-4, HPA-5, and HPA-15 have been detected in the sera of patients with PTP. Direct and indirect antibody testing can be used to detect these platelet-specific antibodies; indirect methods test for antibodies in the patients plasma or serum while direct methods detect antibodies attached the patient's platelets. Direct testing can be limited in the presence of severe thrombocytopenia.

- Enzyme-linked immunosorbent assays (ELISA) are the most widely available technique for platelet antibody testing and can be used for both direct and indirect testing. Examples of platelet antibody assays that are widely used include the antigen capture ELISA (ACE), the modified antigen capture ELISA (MACE), the monoclonal antibody immobilization of platelet antigens (MAIPA) assay, and the platelet antibody bead array (PABA). Highly sensitive and specific antigen capture tests like the PABA or MAIPA assays should be performed since a strong HPA antibody is the hallmark of PTP. It is common for sera to contain platelet antibodies targeting multiple HPA even though HPA-1a antibodies are the most frequently detected in the serum of suspected PTP patients.

- HPA typing confirms HPA antibody specificity and guides clinical care for future transfusions. Two commonly used techniques include polymerase chain reaction using sequence-specific primers (PCR-SSP) and 5'exonuclease strategies. The typical result in PTP cases is the presence of HPA-1a antibodies in the patient's serum and an HPA-1b/1b (HPA-1a negative) genotype.

- The treatment of choice for PTP is intravenous immunoglobulin (IVIG) with recommended doses of 400 - 500 mg/kg/day for 1 - 10 days or 1 - 2 g/kg/day for 2 - 5 days. A favorable response to treatment is noted within as little as 2 days, with response rates of up to 90% having been reported. Corticosteroids may be given in addition to IVIG; however, the effectiveness of corticosteroids has not been proven. Platelet transfusions are generally ineffective at increasing platelet counts; however, they should be administered to patients with life-threatening bleeding. For cases refractory to IVIG or for more complex cases, whole blood or plasma exchange may be considered to quickly reduce the levels of autoantibodies.

- Recurrence of PTP following subsequent transfusion is not common; however, previously affected patients who require transfusion should receive HPA-compatible blood products.

- Primary humoral immunodeficiency diseases

  - Transient hypogammaglobulinemia of infancy (THI)

    - Transient hypogammaglobulinemia of infancy is a type of primary immunodeficiency characterized by reduced IgG levels beginning at 5 to 24 months of age. Diagnosis of other common variable immunodeficiencies are not excludable until after this transient period. THI typically resolves at age 2 to 6 years old in the absence of diagnosis of another immunodeficiency disorder. While many patients remain asymptomatic, some experience recurrent infections such as upper and lower respiratory infections. Severe infections, including urinary tract infections, gastroenteritis, and invasive infections, may occur in severe cases. IVIG is recommended in THI patients with severe, life-threatening infections, or recurrent infections despite antibiotic therapy. Dosing of 400 mg/kg every 3 weeks has been effective in published studies

  - X-linked agammaglobulinemia (congenital agammaglobulinemia)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - X-linked agammaglobulinemia (congenital agammaglobulinemia) occurs in male infants, usually presenting in the first 3 years of life. Patients have either agammaglobulinemia or hypogammaglobulinemia, along with very low or absent CD19+ cells. Diagnosis is confirmed by molecular genetic testing for the BTK gene or protein expression. Lack of protein expression is considered when the patient has absent BTK mRNA on Northern blot analysis of neutrophils or monocytes or has absent BTK protein in monocytes or platelets. Probable diagnosis can also be made based off a family history of documented agammaglobulinemia or hypogammaglobulinemia. Diagnosis can also be confirmed when a patient has maternal cousins, uncles, or nephews with less than 2% CD19+ B-cells.

  - The most common clinical manifestations of this condition are bacterial infections, which can lead to sepsis, osteomyelitis, septic arthritis, and central nervous system infections. Patients are also susceptible to viral, fungal, and parasitic infections. Some patients may be diagnosed more proactively if there is a document history of the disease in the family. Median age of onset is 2.6 years in patients with a family history and 5.4 years in patients without a family history of the disease.

  - Immunoglobulin replacement therapy is the cornerstone of therapy in X-linked agammaglobulinemia. Observational studies show that it lowers morbidity and mortality in these patients. American Academy of Allergy, Asthma, and Immunology 2016 guidelines recommend lifelong immunoglobulin replacement therapy as both necessary and lifesaving. It must be used in combination with infection avoidance measures, vaccinations, and aggressive antibiotic therapy for infections. Recommended dosing for IVIG is 400 - 600 mg/kg every 3 - 4 weeks. Recommended dosing for subcutaneous IVIG is 100 - 200 mg/kg per week.

- Common variable immunodeficiency (CVID)

  - Common variable immunodeficiency is a heterogeneous primary immunodeficiency disorder affecting both children and adults. CVID comprises a group of hypogammaglobulinemia syndromes, stemming from multiple genetic defects, where patients have impaired B-cell differentiation and immunoglobulin production. Diagnosis is contingent on significantly reduced serum IgG levels, low levels of IgA and/or IgM, reduced response to immunizations, and exclusion of other immunodeficiency disorders.

  - Most patients experience chronic lung disease, autoimmune disorders, gastrointestinal disease, an increased susceptibility to lymphoma, and recurrent infections. Approximately 25% of patients have symptom onset during childhood or adolescence. Children, in particular, present with recurrent ear infections and concomitant autoimmune cytopenias and allergic disease. In severe cases, children present with failure to thrive.

  - IVIG has proven to reduce recurrent infections and complications in these patients. It is recommended for patients with significant impairments in immune globulin production, evidenced by approximately two standard deviations below the normal range for IgG and lack for response to protein and polysaccharide vaccines. IVIG with close monitoring may be considered in patients with less severe impairments in immune globulin production and minor responses to some vaccines. While the recommended maintenance dose is 400 mg/kg every 4 weeks, higher doses may be used in patients with recurrent major infections, chronic lung disease, enteropathy, and in pregnancy.

- Immunoglobulin subclass deficiency (e.g., X-Linked immunodeficiency with hyper-IgM)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Immunoglobulin subclass deficiency is a rare primary immunodeficiency diagnosed in adults and children with recurrent infections. Patients with immunoglobulin subclass deficiency have reduced serum concentrations of one or more subclasses of IgG, but normal total concentrations of IgG. Patients with laboratory findings of reduced subclasses of IgG, recurrent infections, and inadequate response to a vaccine challenge are considered to have clinically significant immunoglobulin subclass deficiency. Levels of IgG subclasses, including IgG1, IgG2, IgG3, or IgG4, should be confirmed on two occasions at least 2 - 4 weeks apart. Approximately 15% of patients also have an IgA deficiency. Many patients have concomitant asthma, chronic obstructive pulmonary disease (COPD), vasculitis, and cytopenias.

  - Like patients with other primary immunodeficiencies, these patients most often present with recurrent sinopulmonary infections. They require comprehensive treatment plans, including infection prevention precautions, along with management of COPD, asthma, and other conditions that would predispose them to infections. Aggressive antibiotic therapy and prophylaxis are recommended for patients with recurrent infections. Immunoglobulin replacement therapy is recommended in patients with recurrent infections not resolved with prophylactic antibiotics. Evidence from retrospective studies have shown that IVIG treatment demonstrated reduced infections, decreases antibiotic use, and improved quality of life. American Academy of Allergy, Asthma, and Immunology 2016 guidelines state that IVIG may provide benefit in patients with isolated IgG subclass deficiency and recurrent infections. Recommended dosing is 400 - 600 mg/kg every 4 weeks.

- Combined immunodeficiency syndromes

  - Combined immunodeficiency syndromes include Wiskott-Aldrich syndrome, Severe Combined Immune Deficiency (SCID), DiGeorge Syndrome, and Ataxia Telangiectasia and are rare, inherited syndromes. These patients are prone to many opportunistic infections, and susceptibility often increases with age. Disease severity and degree of immunodeficiency is often dependent on the genetic defect. Patients with mild defects may not present with symptoms until early adulthood. SCID is often differentiated from other combined immunodeficiencies as a more severe condition with significant mortality as an infant due to infection.

  - American Academy of Allergy, Asthma, and Immunology 2016 guidelines recommend immunoglobulin replacement therapy in patients with primary immune defects with absent B-cells, hypogammaglobulinemia, and impaired specific antibody production. Immunoglobulin replacement therapy is also FDA approved for the treatment of combined immunodeficiency syndromes, including Wiskott-Aldrich syndrome and SCID. There are many combined immunodeficiencies, each with different molecular genetic defects. Please refer to clinical guidelines and literature to determine disease-specific diagnostic criteria and information about specific molecular genetic defects. Recommended dosing is usually 400 - 600 mg/kg every 4 weeks.

- Idiopathic hypogammaglobulinemia

  - Hypogammaglobulinemia is a general term describing serum levels of IgG which are below the lower limits of normal. Diagnosis of a primary immunodeficiency is often retrospective and of exclusion. Patients with hypogammaglobulinemia should receive a comprehensive treatment plan, including infection prevention precautions, antibiotic prophylaxis, and adequate management of disease states that would predispose them to infections, including asthma and COPD. In patients with recurrent infections despite these measures, immunoglobulin replacement therapy is appropriate. American Academy of Allergy, Asthma, and Immunology 2016 guidelines recommend immunoglobulin replacement therapy in patients with hypogammaglobulinemia and impaired specific antibody production. Recommended dosing is usually 400 - 600 mg/kg every 4 weeks in these patients.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Prophylactic post exposure for hepatitis A, measles (rubeola), varicella, and rubella in early pregnancy (GammaSTAN only)
  - Human immune globulin (IG) is a blood product used to provide antibodies for short-term prevention of infectious diseases. GamaSTAN is the only intravenous immunoglobulin product approved for the use of post-exposure prophylaxis for Hepatitis A, measles, varicella, and rubella in early pregnancy. Its labeled indications are as follows:
    - Prophylaxis following exposure to hepatitis A. It is not indicated in persons with clinical manifestations of hepatitis A or in those exposed more than 2 weeks previously.
    - To prevent or modify measles in a susceptible person, one who has not been vaccinated and has not had measles previously, exposed fewer than 6 days previously. GamaSTAN is also indicated for pregnant women without evidence of immunity and may be especially indicated for susceptible household contacts of measles patients, particularly contacts under 1 year of age, for whom the risk of complications is highest.
    - To modify varicella. Passive immunization against varicella in immunosuppressed patients is best accomplished by use of varicella zoster immune globulin (human). If unavailable, GamaSTAN, promptly given, may also modify varicella.
    - To modify rubella in exposed women who will not consider a therapeutic abortion.
  - Hepatitis A
    - IG provides protection against hepatitis A through passive transfer of antibody and has been shown to be 80 - 90% effective at preventing hepatitis A when administered within 2 weeks of exposure. Efficacy is greatest for post-exposure prophylaxis when IG is administered early in the incubation period. When administered later in the incubation period, IG might only attenuate the clinical expression of HAV infection.
    - According to the Advisory Committee on Immunization Practices (ACIP) recommendations for prevention of hepatitis A through active or passive immunization, people who have recently been exposed to Hepatitis A and have not been previously vaccinated should receive a single dose of IG as soon as possible within two weeks of exposure as efficacy when administered after 2 weeks has not been established.
    - If the hepatitis A vaccine is recommended for the person receiving IG, it may be administered simultaneously at a separate injection site.
  - Measles (Rubeola)
    - IG has historically been the blood product of choice for short-term measles prophylaxis and has been used as prophylaxis to prevent or attenuate measles disease since the 1940s, when it was demonstrated that IG can reduce the risk for measles or modify disease if administered within 6 days of exposure with a dose response effect.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The ACIP recommends IG to prevent or modify measles in persons who are nonimmune within 6 days of exposure. It is not indicated for people who have received at least 1 dose of measles-containing vaccine at an age of greater than or equal to 12 months unless they are severely immunocompromised. Susceptible patient groups at risk for severe disease and complications from measles who should receive IG according to the ACIP recommendations include infants less than 12 months of age, pregnant women without evidence of measles immunity, and severely immunocompromised persons regardless of immunologic or vaccination status.

- Nonimmune patients 12 months of age or older who were exposed to measles and received GamaSTAN should also receive a measles vaccine, however, measles vaccine must be administered separately at least 5 months after GamaSTAN at which point the measles antibody titer will have disappeared.

- IG is not recommended to control measles outbreaks, but rather to reduce the risk for infection and complications in the person receiving it. IG has not been shown to prevent rubella or mumps infection after exposure and is not recommended for that purpose.

- Varicella

  - VariZIG®, a varicella zoster immune globulin preparation, is approved by the FDA and recommended by the ACIP for use as post-exposure prophylaxis of varicella in patients at high risk for severe disease who lack evidence of varicella immunity and for whom the vaccine is contraindicated. VariZIG is approved to be administered as soon as possible following varicella exposure, ideally within 96 hours for greatest effectiveness and after no more than 10 days. VariZIG is intended to reduce the severity of varicella. There is no convincing evidence that it will reduce the incidence of infection after exposure or modify established varicella infections. High risk groups for whom VariZIG is indicated include: immunocompromised children and adults, newborns of mothers with varicella shortly before or after delivery, premature infants, neonates and infants less than 1 year of age, adults without evidence of immunity, and pregnant women.

  - If VariZIG is unavailable, GamaSTAN may be given promptly to modify varicella post-exposure in immunosuppressed patients.

- Rubella

  - Rubella infection in pregnant women, especially during the first trimester, can result in miscarriages, stillbirths, and congenital rubella syndrome (CRS; an array of birth defects that often includes cataracts, hearing loss, mental retardation, and congenital heart defects). In addition, infants with CRS frequently exhibit both intrauterine and postnatal growth retardation. The risk for congenital infection and defects is highest during the first 12 weeks of gestation, and the risk for any defect decreases after the 12th week of gestation.

  - MMR vaccines should not be administered to women known to be pregnant or attempting to become pregnant. Additionally, post exposure MMR vaccination has not been shown to prevent or alter the clinical severity of rubella or mumps and is therefore not recommended for this purpose.

  - Some studies have suggested that the use of GamaSTAN in susceptible women post-rubella exposure can lessen the likelihood of infection and fetal damage. As such, GamaSTAN may be beneficial to modify rubella in pregnant women who will not consider a therapeutic abortion. GamaSTAN is not, however, recommended or approved for routine prophylaxis in early pregnancy in unexposed women.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Pure red cell aplasia (PRCA)

  - Pure red cell aplasia is a syndrome defined by a normocytic normochromic anemia with severe reticulocytopenia and marked reduction or absence of erythroid precursors from the bone marrow. Acquired PRCA may be either a primary disorder or secondary to some other disorder or agent. Primary acquired PRCA is an autoimmune disorder that is frequently antibody-mediated. Myelodysplastic syndromes may also present with the morphologic appearance of PRCA. Secondary acquired PRCA may be associated with collagen vascular or autoimmune disorders such as systemic lupus erythematosus; lymphoproliferative disorders such as chronic lymphocytic leukemia or large granular lymphocyte leukemia; infections, particularly parvovirus B19; thymoma and other solid tumors; or a variety of other disorders, drugs, or toxic agents.

  - Diagnosis of PRCA is established when the patient meets all of the following: normocytic, normochromatic red blood cells; an absolute reticulocyte count less than 10,000/µL (less than 1% reticulocytes); normal white blood cell and platelet counts in the absence of a concurrent disorder such as CLL; less than 1% erythroblasts on bone marrow differential count; and no significant abnormalities in the myeloid, lymphocytic, or megakaryocyte lineages, unless the patient has a concurrent diagnosis of CLL or CML.

  - Once a diagnosis is confirmed, the next step is to determine the cause which dictates the patient's treatment course. Testing should be done to distinguish between idiopathic, myelodysplastic, or secondary PRCA. All individuals who do not have CLL, CML, or myelodysplastic syndrome should have nucleic acid testing of peripheral blood for parvovirus B19 and treatment should not begin until those results are back. If the patient is taking a drug known to cause PRCA, the drug should be discontinued immediately. All other possible secondary causes should be investigated as appropriate as well.

  - For most causes of PRCA, immunosuppression is considered first-line therapy. However, if the patient is found to have PRCA due to parvovirus B19, IVIG is considered first-line therapy. IVIG contains antibodies against parvovirus and can reverse PRCA. Responses have been reported with doses as low as 400 mg/kg, although some have used the 2 g/kg dose divided over two to five days. While good response with IVIG is seen in patients with parvovirus B19, IVIG has not shown good efficacy in PRCA due to other causes.

  – Refractory Pemphigus Foliaceous

  – Pemphigus is a group of potentially life-threatening blistering disorders characterized by intraepithelial blisters in mucous membranes and skin that form due to a loss of keratinocyte adhesion. There are four major types: pemphigus vulgaris, pemphigus foliaceus, immunoglobulin A (IgA) pemphigus, and paraneoplastic pemphigus. Each form is distinguished by their own clinical features, autoantigens, and laboratory findings. Pemphigus vulgaris and pemphigus foliaceus are the two most common forms of pemphigus.

  – Pemphigus foliaceus is an autoimmune skin disorder characterized by the loss of intercellular adhesion of keratinocytes in the upper parts of the epidermis that results in the formation of superficial blisters. The most common sites of involvement include the scalp, face, and trunk. Skin lesions are typically small, scattered, superficial blisters that rapidly evolve into scaly and crusted erosions that can remain localized or converge to cover large areas of the skin. The Nikolsy sign, induction of skin blistering with manual pressure, is often present. Variants of pemphigus foliaceus include endemic pemphigus foliaceus, which presents similarly to the idiopathic form but is related to an environmental trigger, and pemphigus erythematosus, which describes pemphigus foliaceus localized to the malar region of the face. Pemphigus foliaceus may also be drug-induced with manifestations similar to idiopathic disease.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Assessing clinical, histologic, immunopathologic, and serologic findings is essential to proper diagnosis. Diagnosis requires clinical presentation and histopathology consistent with pemphigus foliaceus with either a positive DIF microscopy or serologic detection of autoantibodies against epithelial cell surface antigens. The following tests can confirm diagnosis of disease: lesional skin or mucosal biopsy for routine hematoxylin and eosin (H&E) staining; perilesional skin or mucosal biopsy for direct immunofluorescence (DIF); serum collection for enzyme-linked immunosorbent assay (ELISA) and indirect immunofluorescence (IIF). All patients with pemphigus foliaceus have positive DIF results demonstrating intercellular deposition of IgG, though negative DIF studies may occur in patients with drug-induced pemphigus. IIF demonstrates intercellular deposits of IGG. Greater than 80% of patients with pemphigus foliaceus have circulating antibodies detectable by IIF. IIF cannot distinguish between pemphigus foliaceus and vulgaris. ELISA for IgG antibodies to desmoglein 1 and desmoglein 3 is more sensitive and specific than IIF for diagnosing pemphigus vulgaris and pemphigus foliaceus, with a sensitivity greater than 90%. Desmoglein 1 autoantibodies are found on ELISA for pemphigus foliaceus.

- Differential diagnosis includes seborrheic dermatitis, impetigo, subacute cutaneous lupus erythematosus, IgA pemphigus, and the non-IgA pemphigus form of subcorneal pustular dermatosis.

- Pemphigus foliaceus is associated with the potential for severe morbidity and mortality therefore, treatment is indicated at the time of disease onset regardless of presenting disease severity. The goal of treatment is to induce complete remission while minimizing treatment-related adverse effects.

- An international consensus of experts supports the use of systemic glucocorticoids as first-line therapy for pemphigus foliaceus. Systemic glucocorticoids are typically given to attain rapid disease control with clinically significant improvement seen within 2 - 3 weeks. Their use is supported by randomized trials and studies documenting improvement in pemphigus with glucocorticoid monotherapy as well as extensive clinical experience. Oral therapy with prednisone, methylprednisolone, or prednisolone is the most common mode of administration at 0.5 to 1.5 mg/kg/day of prednisone or prednisolone, though higher doses can also be used. Full disease control requires 6 - 8 weeks. Tapering should begin once disease activity is under control with a goal of reaching the lowest dose needed to keep the disease controlled.

    - Immunomodulators are used adjunctively to minimize glucocorticoid consumption and reduce the risk of adverse effects of long-term and high-dose glucocorticoid therapy. They can be used at the onset of therapy particularly in cases of increased risk with corticosteroid therapy, complications due to prolonged use, or dose dependency above 10 mg/day of prednisone. First-line corticosteroid-sparing immunomodulator agents according to an international consensus of experts include azathioprine and mycophenolate mofetil. Adjuvant therapy is maintained until oral glucocorticoids have been completely discontinued and dose reduction begins 8 weeks after discontinuation of glucocorticoids. There is limited evidence that adding adjuvants is superior to corticosteroid monotherapy. Evidence has shown that the primary benefit of adjuvant therapy is in its glucocorticoid-sparing effect rather than a disease-modifying effect.

- Rituximab may also be used as a first-line treatment in new-onset moderate-to-severe pemphigus along with prednisone to allow for reduced prednisone doses, lower rates of corticosteroid-induced side effects, and more rapid corticosteroid tapering. A limiting factor to this regimen for initial treatment, however, is the high cost of rituximab.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Disease activity is considered under control after a period of weeks during which no new lesions form, the Nikolsy sign is no longer present, and the majority of lesions have healed. Therapy at this point should be slowly reduced to the lowest dose required to prevent new lesions from appearing. Glucocorticoids are tapered first followed by a gradual reduction of non-steroidal adjuvant.

- Patients with refractory pemphigus foliaceus unresponsive to traditional first-line treatment may benefit from rituximab, IVIG, immunoadsorption, plasmapheresis, or cyclophosphamide. There is a lack of robust, high-quality literature on the treatment of refractory pemphigus in addition to a lack of definitive guidelines on how to best approach refractory treatment. Choice of treatment is influenced by patient tolerability, treatment availability, and treatment-specific contraindications.

- IVIG in refractory pemphigus foliaceus is typically combined with systemic corticosteroids initially and immunomodulator adjuvants. The recommended dose of IVIG for refractory pemphigus foliaceus is 2 g/kg over 2 to 5 days per month.

- Solid organ transplant

- Patients at high risk for antibody mediated rejection (AMR) includes but is not limited to highly sensitized patients based on panel reactive antibody evaluation, those receiving an ABO incompatible organ, specific characteristics of donor-specific antibodies such as type and strength. AMR can occur after transplant, most commonly within 6 months.

- Pre-treatment with IVIG (desensitization) has been shown to reduce the risk of AMR in highly sensitized solid organ transplant patients. The goal of therapy is early antibody elimination with IVIG, pheresis, or a combination of modalities. A variety of protocols have been developed for the use of IVIG in treating AMR after solid organ transplant. The usual dose of IVIG is 2 g/kg every 4 weeks.

- Stiff Person Syndrome

  - Stiff-person syndrome (SPS, also referred to as stiff-man syndrome) is a rare disorder involving progressive muscle stiffness, rigidity, and spasm involving the axial muscles that results in severely impaired ambulation. Women are affected two to three times more often than men with the average age of presentation between 20 and 50 years. SPS is often associated with type 1 diabetes mellitus and other autoimmune disorders.

  - The three major types of SPS include Classic SPS, partial SPS, and paraneoplastic SPS. Classic SPS accounts for 70 - 80% of SPS patients; characteristics of classic SPS include truncal stiffness, generalized rigidity, and frequent muscle spasms, all of which result in a wide-based, awkward gait. The clinical hallmark of SPS is an extreme degree of muscle stiffness and rigidity. Partial SPS accounts for 10 - 15% of SPS patients, the most common form being stiff-limb syndrome where patients present with difficulty ambulating due to stiffness and lack of mobility affecting one limb (typically the leg) while sparing the trunk. Paraneoplastic SPS is extremely rare and seen in less than 2% of SPS patients. Clinically, paraneoplastic SPS is indistinguishable from classic SPS; however, paraneoplastic SPS patients are usually glutamic acid decarboxylase (GAD) antibody-negative and often have concurrent features of an underlying neoplasm. Malignancies associated with SPS include breast cancer, lung cancer, and Hodgkin lymphoma. Remission of neurologic symptoms has been noted after excision of the tumor and subsequent glucocorticoid treatment.

    - There are no formally accepted criteria for diagnosing SPS. Muscle hardening to a board-like sensation is probably the most specific clinical observation establishing diagnosis. The presence of the following is generally considered necessary for diagnosis: stiffness in axial and limb muscles

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

resulting in impaired ambulation; presence of superimposed episodic spasms precipitated by sudden movement, noise, or emotional upset; a positive therapeutic response to oral diazepam or findings of continuous motor-unit activity on electromyography (EMG) are abolished by IV diazepam; and absence of other neurologic disorders that could explain the clinical features.

- Diagnostic evaluation may include:
  - Anti-glutamic acid decarboxylase (GAD) antibody testing, which is positive in approximately 2/3 of patients. If present, anti-GAD antibodies support diagnosis; however, they may be absent.
  - A therapeutic trial of diazepam starting at 5 mg orally four times daily and slowly titrating up to the max dose required for symptom control without excessive sedation.
  - EMG testing including to evaluate response to oral diazepam
- In patients with characteristic clinical findings, anti-GAD antibodies, and a positive response to diazepam, diagnosis can be made without an EMG. The pain and stiffness characteristic of SPS, however, may mimic other conditions including ankylosing spondylitis, Parkinson disease, tetanus, axial dystonia, and focal limb or joint disorders. Alternative diagnoses must be ruled out.
- Treatment of SPS is directed at controlling symptoms to improve mobility and function. Benzodiazepines are considered the ideal initial symptomatic treatment for SPS with either diazepam 20 - 80 mg/day in three to four divided doses or clonazepam 10 - 30 mg orally two to four times daily. Diazepam daily doses to control disease may be as high as 100 – 200 mg/day while clonazepam can reach a maximum of 24 – 32 mg/day.
- In patients intolerant to high doses of benzodiazepines or with an unsatisfactory response, clinical experience supports the use of baclofen beginning at 10 mg 2 - 3 times daily with a gradual upward titration to a maximum of 80 mg daily in divided doses. Baclofen can be used as monotherapy or in conjunction to benzodiazepine therapy depending on the extent of benefit achieved from the maximally tolerated benzodiazepine. The use of baclofen is supported by clinical experience thought it has not been tested in randomized trials.
- For patients with continued inadequate symptomatic relief and in patients with severe disease where symptoms continue to significantly interfere with activities of daily living, the use of immune modulating therapy is recommended. IVIG is generally initiated in patients lacking symptomatic relief after the use of benzodiazepines and/or baclofen, corresponding to the European Federation of Neurological Societies (EFNS) 2008 guidelines for the use of IVIG in the treatment of neurological diseases. IVIG is administered initially at 2 g/kg given in a treatment course over 2 - 3 infusions, each usually separated by 3 - 5 days. If the first round of IVIG does not produce a significant change in function, a second round can be tried with dosing of 2 g/kg per infusion given every 2 weeks for up to 4 doses.
- Additional therapies that may be beneficial for SPS based on findings from case reports and small uncontrolled series include corticosteroids, azathioprine, levetiracetam, valproic acid, gabapentin, plasma exchange, and rituximab/rituximab biosimilars.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Systemic Lupus Erythematous (SLE)

- Systemic lupus erythematosus (SLE) is a chronic autoimmune disease that can affect virtually any organ in the body. SLE is a clinically heterogenous disease with patients presenting with variable clinical manifestations that range from mild joint and skin involvement to life-threatening renal, hematologic, or central nervous system involvement. The diagnosis is generally based on clinical grounds in the presence of characteristic serological or laboratory abnormalities after having excluded alternative diagnoses. A prominent feature of disease is the production of antinuclear antibodies (ANA). Constitutional symptoms, such as, fatigue, fever, and weight loss, are typically present in most SLE patients at some point during the disease course with fatigue being the most common complaint. Arthritis and arthralgias occur in over 90% of SLE patients and often present as one of the earliest manifestations of disease. Mucocutaneous, cardiac, renal, gastrointestinal, pulmonary, neuropsychiatric, hematologic, and ophthalmologic involvement may also occur.

- The goals of SLE therapy are to ensure long-term survival, have the lowest possible disease activity, prevent organ damage, minimize drug-related toxicities, and improve quality of life. Treatment is individualized based on the clinical manifestations, disease activity and severity, and patient comorbidities.

- Treatment in SLE should aim at remission or low disease activity and prevention of flares in all organs while maintained on the lowest possible dose of steroids. SLE flares can be treated according to the severity of organ involvement via adjusting current ongoing therapies to higher doses, switching medications, or adding new therapies. Treatment of organ or life-threatening SLE includes an initial treatment with high-intensity immunosuppressive therapy to control disease activity followed by less intensive long-term therapy to consolidate the response and prevent relapse.

- According to the 2019 update of the EULAR recommendations for the management of SLE, hydroxychloroquine is recommended for all patients with SLE unless contraindicated. Glucocorticoids can provide rapid symptom relief and may be used with hydroxychloroquine. The dose and route of administration of glucocorticoids are dependent on the type and severity of organ involvement. Immunosuppressive therapies such as methotrexate, azathioprine, and mycophenolate should be considered if a patient is not responding to hydroxychloroquine with or without glucocorticoids or is unable to reduce glucocorticoid doses to under 7.5 mg/day for chronic use. They can also be included as initial therapy for organ-threatening disease. Cyclophosphamide is another immunosuppressant option, however, it's recommended only to be used for severe organ threatening or life-threatening SLE or as rescue therapy for patients unresponsive to other immunosuppressants.

- Hematologic manifestations of SLE frequently requiring treatment include thrombocytopenia and autoimmune hemolytic anemia (AIHA). The 2019 EULAR recommendations suggest first-line treatment of significant lupus thrombocytopenia, platelets less than 30,000/mm^3, with high dose glucocorticoids in combination with an immunosuppressant, such as, azathioprine, mycophenolate mofetil, or cyclosporine. The role of the immunosuppressant is primarily for maintenance of response after acute treatment and as a glucocorticoid-sparing agent. IVIG may be considered in the acute phase after an inadequate response to high-dose glucocorticoids or to avoid glucocorticoid-related complications. The recommended dose of IVIG per the guidelines is 1 g/kg/day for 1 - 2 days. Refractory cases may be treated with rituximab/rituximab biosimilar or cyclophosphamide.

- The use of IVIG in SLE outside of significant lupus thrombocytopenia is not recommended by or addressed in the 2019 EULAR guidelines. Some small case reports and series have shown some benefit of IVIG in cutaneous lupus erythematosus, central nervous system lupus, and lupus myocarditis, however, there is a paucity of robust data or literature definitively supporting the clinical efficacy and use of IVIG for these and other manifestations of SLE.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There are multiple IVIG treatment options. There an no clinical trials comparing the efficacy of one therapy to another. Choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability.

- Immune globulin replacement therapy is indicated for many labeled and off-label indications and is traditionally dosed using a patient's actual body weight. IVIG and SCIG products have insignificant distribution into fat tissue and are only present in the intravascular space and extracellular fluids. Clinical literature supports alternative dosing strategies that provide comparable drug exposure without altering the clinical outcomes of treatment. Therefore, pateints should be dosed using adjusted body weight in situations where the pateint's dody mass index is 30 kg/m^2 or greater or their actual body weight is 20% to 30% higher than their ideal body weight.

References:

1. Asceniv [prescribing information]. Boca Raton, FL: ADMA Biologics; April 2019.
2. Bivigam [prescribing information]. Boca Raton, FL: ADMA Biologics; July 2019.
3. Carimune NF [prescribing information]. Kankakee, IL: CSL Behring AG; May 2018.
4. Cutaquig [prescribing information]. Hoboken, NJ: Octapharma USA, Inc.; October 2021.
5. Cuvitru [prescribing information]. Lexington, MA: Baxalta US, Inc.; September 2021.
6. Flebogamma DIF [prescribing information]. Barcelona, Spain: Instituto Grifols, S.A., September 2019.
7. GamaSTAN S/D [prescribing information]. Research Triangle Park, NC: Grifols Therapeutics LLC; February 2018.
8. Gammagard [prescribing information]. Westlake Village, CA: Baxalta US, Inc.; March 2021.
9. Gammagard S/D [prescribing information]. Toronto, Ontario, Canada: Shire Pharma Canada ULC; July 2018.
10. Gammaked [prescribing information]. Research Triangle Park, NC: Grifols Therapeutics LLC; June 2018.
11. Gammaplex 10% [prescribing information]. Durham, NC: Bio Products Laboratory Ltd; September 2019.
12. Gammaplex 5% [prescribing information]. Durham, NC: Bio Products Laboratory Ltd; September 2019.
13. Gammunex-C [prescribing information]. Research Triangle Park, NC: Grifols Therapeutics LLC; January 2020.
14. Hizentra [prescribing information]. Kankakee, IL: CSL Behring AG; April 2021.
15. HyQvia [prescribing information]. Westlake Village, CA: Baxalta US, Inc.; March 2021.
16. Octagam 5% [prescribing information]. Hoboken, NJ: Octapharma USA Inc.; April 2019.
17. Octagam 10% [prescribing information]. Hoboken, NJ: Octapharma USA Inc.; July 2021.
18. Panzyga [prescribing information]. New York, NY: Pfizer Labs; January 2021.
19. Pivigen [prescribing information]. Kankakee, IL: CSL Behring AG; March 2019.
20. Xembify [prescribing information]. Research Triangle Park, NC: Grifols Therapeutics LLC; August 2020.
21. Alyglo [prescribing information]. Teaneck, NJ: GC Biopharma USA, Inc.; December 2023.
22. Yimmugo [prescribing information. Dreieich, Germany: Biotest AG; June 2024.
23. Qivigy [prescribing information]. Fort Lee, NJ: Kedrion Biopharma Inc.; September 2025.
24. Kruse-Jarres R, Kempton CL, Baudo F, et al. Acquired hemophilia A: updated review of evidence and treatment guidance. Am J Hematol. 2017; 92: 695 – 705.
25. Tiede A, Collins P, Knoebl P et al. International recommendations on the diagnosis and treatment of patients with acquired hemophilia A. Haematol. 2020 July; 105 (7): 1791 – 1801.
26. Zeitler H, Ulrich-Merzenich G, Hess L, et al. Treatment of acquired hemophilia by the Bonn-Malmo Protocol: documentation of an in-vivo immunomodulating concept. Blood. 2005; 105 (6): 2287 – 93.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

27. Schwarz RS, Gabriel DA, Aledort GL, et al. A prospective study of treatment of acquired (autoimmune) factor VIII inhibitors with high-dose intravenous gammaglobulin. Blood. 1995; 86 (2): 797 – 804.
28. Hill QA, Stamps R, Massey E, et al. The diagnosis and management of primary autoimmune hemolytic anemia. Br J Hematol. 2017; 176: 395 – 411.
29. Shvidel L, Stanevsky A, & Sigler E. Warm autoimmune hemolytic anemia. NEJM. 2019 Nov 7; 381 (19): 1881.
30. Flores G, Cunningham-Rundles C, Newland AC, et al. Efficacy of intravenous immunoglobulin in the treatment of autoimmune hemolytic anemia: results in 73 patients. Am J Hematol. 1993 Dec; 44 (4): 237 -42.
31. Macintyre EA, Linch DC, Macey MG, et al. Successful response to intravenous immunoglobulin in autoimmune haemolytic anaemia. Br J Haematol. 1985 Jun; 60 (2): 387 - 8.
32. Bussel JB, Cunningham-Rundles C, & Abraham C. Intravenous treatment of autoimmune hemolytic anemia with very high dose gammaglobulin. Vox Sang. 1986; 51 (4): 264 - 9.
33. Majer RV & Hyde RD. High-dose intravenous immunoglobulin in the treatment of autoimmune haemolytic anaemia. Clin Lab Haematol. 1988; 10 (4): 391 - 5.
34. Pacheco LD, Berkowitz RL, Moise KJ, et al. Fetal and neonatal alloimmune thrombocytopenia: a management algorithm based on risk stratification. Obstet Gynecol. 2011; 118: 1157 – 63.
35. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2016 Jul 26; 87 (4): 419 - 25.
36. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
37. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
38. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
39. Donofrio PD, Berger A, Brannagan TH, et al. Consensus statement: the use of intravenous immunoglobulin in the treatment of of neuromuscular conditions, report of the AANEM ad hoc committee. Muscle Nerve. 2009; 40: 890 – 900.
40. Barth D, Nabavi Nouri M, Ng E, et al. Comparison of IVIG and PLEX in patients with myasthenia gravis. Neurology. 2011 Jun 7; 76 (23): 2017 - 23.
41. Zinman L, Ng E, & Bril V. IV immunoglobulin in patients with myasthenia gravis: a randomized controlled trial. Neurology. 2007 Mar 13; 68 (11): 837 - 41.
42. Oddis CV, Rider LG, Reed AM, et al. International consensus guidelines for trials of therapies in the idiopathic inflammatory myopathies. Arthritis & Rheum. 2005 Sept; 52 (9): 2607 – 15.
43. Lundberg EI, Tjärnlund A, Bottai M, et al. 2017 european league against rheumatism/american college of rheumatology classification criteria for adult and juvenile idiopathic inflammatory myopathies and their major subgroups. Ann Rheum Dis. 2017; 76: 1955 – 64.
44. Aggarwal R, Rider L, Ruperto N, et al. 2016 american college of rheumatology/European league against rheumatism criteria for minimal, moderate, and major clinical response in adult dermatomyositis and polymyositis. Arthritis & Rheum. 2017 May; 69 (5): 898 – 910.
45. The Myositis Foundation. Polymyositis. Available at: https://www.myositis.org/about-myositis/types-of-myositis/polymyositis/. Accessed on October 20, 2020.
46. Genetic and Rare Disease Information Center. Polymyositis. 2017 Sept 25. Available at: https://rarediseases.info.nih.gov/diseases/7425/polymyositis. Accessed on October 20, 2020.
47. Cherin P, Pelletier S, Teixeira A, et al. Results and long-term followup of intravenous immunoglobulin infusions in chronic, refractory polymyositis: an open study with thirty-five adult patients. Arthritis Rheum. 2002 Feb; 46 (2): 467 - 74.
48. Dalakas MC & Hohlfeld R. Polymyositis and dermatomyositis. Lancet. 2003 Sept 20; 362 (9388): 971 – 82.
49. Means RT. Pure red cell aplasia. Blood. 2016; 128 (21): 2504 – 9.
50. Mouthona L, Guillevina L, & Tellierb Z. Intravenous immunoglobulins in autoimmune- or parvovirus B19-mediated pure red-cell aplasia. Autoimmunity Reviews. 2005 June; 4 (5): 264 – 9.
51. Frickhofen N, Chen ZJ, Young NS, et al. Parvovirus B19 as a cause of acquired chronic pure red cell aplasia. Br J Haematol. 1994 Aug; 87 (4): 818 - 24.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

52. Raanani P, Gafter-Gvili A, Paul M, et al. Immunoglobulin prophylaxis in hematopoietic stem cell transplantation: systematic review and meta-analysis. J Clin Oncol. 2009; 27 (5): 770 - 781.
53. Tomblyn M, Chiller T, Einsele H, et al. Guidelines for preventing infectious complications among hematopoietic cell transplantation recipients: a global perspective. Biol Blood Marrow Transplant. 2009; 15 (10): 1143 - 238.
54. National Comprehensive Cancer Nework. Chronic lymphocytic leukemia/small lymphocytic lymphoma (Version 1.2022). 2021 Sept 8. Available from: https://www.nccn.org/professionals/physician_gls/pdf/cll_blocks.pdf. Accessed on January 6, 2022.
55. National Comprehensive Cancer Nework. Multiple myeloma (Version 4.2022). 2021 Dec 14. Available from: https://www.nccn.org/professionals/physician_gls/PDF/myeloma.pdf. Accessed on January 6, 2022.
56. National Comprehensive Cancer Network. Prevention and treatment of cancer-related infections (Version 1.2021). 2021 July 2. Available from: https://www.nccn.org/professionals/physician_gls/PDF/myeloma.pdf. Accessed on January 6, 2022.
57. Perez EE, Orange JS, Bonilla F, et al. Update on the use of immunoglobulin in human disease: a review of evidence. J Allergy Clin Immunol. 2017; 139 (3S): S1 - S46.
58. Bussel JB. Intravenous gammaglobulin in the prophylaxis of late sepsis in very-low-birth-weight infants: preliminary results of a randomized, double-blind, placebo-controlled trial. Rev Infect Dis. 1990; 12 Suppl 4: S457 - S462.
59. Fanaroff AA, Korones SB, Wright LL, et al. A controlled trial of intravenous immune globulin to reduce nosocomial infections in very-low-birth-weight infants. NEJM. 1994; 330 (16): 1107 - 13.
60. Justiz Vaillant AA & Wilson AM. Transient hypogammaglobulinemia of infancy. In: StatPearls. Treasure Island (FL): StatPearls Publishing; September 10, 2020.
61. Pimenta FMCA, Palma SMU, Constantino-Silva RN, et al. Hypogammaglobulinemia: a diagnosis that must not be overlooked. Braz J Med Biol Res. 2019; 52 (10): e8926.
62. Bonilla FA, Khan DA, Ballas ZK, et al. Practice parameter for the diagnosis and management of primary immunodeficiency. J Allergy Clin Immunol. 2015; 136 (5): 1186 – 205.
63. Chapel H & Cunningham-Rundles C. Update in understanding common variable immunodeficiency disorders (CVIDs) and the management of patients with these conditions. Br J Haematol. 2009; 145 (6): 709 – 27.
64. Hawkins J, Aster RH, & Curtis BR. Post-transfusion purpura: current perspectives. J Blood Med. 2019; 10: 405 - 15.
65. Centers for Disease Control and Prevention. Update: prevention of hepatitis A after exposure to hepatitis A virus and in international travelers: updated recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. 2007; 56 (41): 1080 - 4.
66. Centers for Disease Control and Prevention. Prevention of hepatitis A through active or passive immunization: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. 2006; 55 (RR-07): 1 - 23.
67. Centers for Disease Control and Prevention. Measles, mumps, and rubella - vaccine use and strategies for elimination of measles, rubella, and congenital rubella syndrome and control of mumps: recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. 1998; 47 (RR-08): 1 - 57.
68. Centers for Disease Control and Prevention. Prevention of varicella. recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. 2007; 56 (RR04): 1 - 40.
69. Centers for Disease Control and Prevention. Prevention of measles, rubella, congenital rubella syndrome, and mumps: summary recommendations of the Advisory Committee on Immunization Practices (ACIP). MMWR. 2013; 62 (RR-04): 17 - 8.
70. McKeon A, Robinson MT, McEvoy KM, et al. Stiff-man syndrome and variants clinical course, treatments, and outcomes. Arch Neurol. 2012; 69 (2): 230 - 8.
71. Helfgott SM. Stiff-person syndrome. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
72. Elovaara I, Apostolski S, van Doorn P, et al. EFNS guidelines for the use of intravenous immunoglobulin in treatment of neurological diseases: EFNS task force on the use of intravenous immunoglobulin in treatment of neurological diseases. Eur J Neurol. 2008; 15: 893 – 908.
73. Bhatti AB & Gazali ZA. Recent advances and review on treatment of stiff person syndrome in adults and pediatric patients. Cureus. 2015 Dec; 7 (12): e427.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

74. Hertl M & Sitaru C. Pathogenesis, clinical manifestations, and diagnosis of pemphigus. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
75. Hertl M & Geller S. Initial management of pemphigus vulgaris and pemphigus foliaceus. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
76. Hertl M & Eming R. Management of refractory pemphigus vulgaris and pemphigus foliaceus. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
77. Joly P, Horvath B, Patsatsi A, et al. Updated S2K guidelines on the management of pemphigus vulgaris and foliaceus initiated by the European academy of dermatology and venereology (EADV). JEADV. 2020; 34: 1900 - 13.
78. Murrell DF, Pena S, Joly P, et al. Diagnosis and management of pemphigus: recommendations of an international panel of experts. J Am Acad Dermatol. 2020 March; 82 (3): 575 - 85.
79. Fanouriakis A, Kostopoulou M, Alunno A, et al. 2019 update of the EULAR recommendations for the management of systemic lupus erythematosus. Ann Rheum Dis. 2019; 78: 736 - 45.
80. Wallace DJ. Overview of the management and prognosis of systemic lupus erythematosus in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
81. Wallace DJ & Gladman DD. Clinical manifestations and diagnosis of systemic lupus erythematosus in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
82. Clarke J. Management of refractory discoid lupus and subacute cutaneous lupus. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
83. Costenbader KH. Non-coronary cardiac manifestations of systemic lupus erythematosus in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
84. Schur PH. Neurologic manifestations of systemic lupus erythematosus. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
85. Miller ML. Diagnosis and differential diagnosis of dermatomyositis and polymyositis in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
86. Vlegugels RA. Cutaneous dermatomyositis in adults: overview and initial management. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
87. Vlegugels RA. Management of refractory cutaneous dermatomyositis in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
88. Miller ML. Initial treatment of dermatomyositis and polymyositis in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
89. Miller ML, et al. Clinical manifestations of dermatomyositis and polymyositis in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
90. Miller ML. Treatment of recurrent and resistant dermatomyositis and polymyositis in adults. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
91. Bohan A & Peter JB. Polymyositis and dermamyositis. NEJM. 1975 Feb 20; 292(8): 344 - 7.
92. Leclair V & Lundberg IE. New myositis classification criteria – what we have learned since bohan and peter. Curr Rheumatol Rep. 2018; 20 (4): 18.
93. Huber AM, et al. Protocols for the initial treatment of moderately severe juvenile dermatomyositis: Results of a Children's Arthritis and Rheumatology Research Alliance Consensus Conference. Arthritis Care and Research. 2010; 62(2): 219-225.
94. Huber AM, Giannini EH, Bowyer SL, et al. Childhood arthritis and rheumatology research alliance consensus clinical treatment plans for juvenile dermatomyositis with persistent skin rash. J Rheumatol. 2017 Jan; 44 (1): 110 - 6.
95. Hutchinson C & Feldman BM. Juvenile dermatomyositis and polymyositis: treatment, complications, and prognosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
96. Hutchinson C & Feldman BM. Juvenile dermatomyositis and polymyositis: diagnosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
97. Kim S, Khan P, Robinson AB, et al. Childhood arthritis and rheumatology research alliance consensus clinical treatment plans for juvenile dermatomyositis with skin predominant disease. Pediatric Rheumatology. 2017 Jan 11; 15: 1.
98. VariZig [prescribing information]. Roswell, GA: Saol Therapeutics Inc; June 2018.
99. Dalmau J & Rosenfeld MR. Paraneoplastic and autoimmune encephalitis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
100. GBS/CIDP Foundation International. Multifocal motor neuropathy (MMN). 2020. Available at: https://www.gbs-cidp.org/variants/multifocal-motor-neuropathy/. Accessed on November 30, 2020.
101. Lange DJ & Robinson-Papp J. Multifocal motor neuropathy. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

102. Joint Task Force of the EFNS and the PNS. European Federation of Neurological Societies/Peripheral Nerve Society guideline on management of multifocal motor neuropathy. Report of a joint task force of the European Federation of Neurological Societies and the Peripheral Nerve Society--first revision. J Peripher Nerv Syst. 2010 Dec; 15 (4): 295 - 301.
103. Satya-Murti S, Shepard KM, & Kaufman JM. An analysis of AANs evidence-based guideline for IVIg use in neurologic disorders: provider impact and payer perspectives. Neurology Clinical Practice. 2012; 2: 134 -8.
104. Sirven JI. Evaluation and management of drug resistant epilepsy. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
105. Epilepsy Foundation. Treating refractory epilepsy. 2014 March 22. Available at: https://www.epilepsy.com/learn/drug-resistant-epilepsy/treating-refractory-epilepsy. Accessed on November 30, 2020.
106. Geva-Dayan K, Shorer Z, Menascu S, et al. Immunoglobulin treatment for severe childhood epilepsy. Pediatr Neurol. 2012 Jun; 46 (6): 375 - 81.
107. Vriesendorp FJ. Guillain-Barre syndrome in adults: clinical features and diagnosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
108. American Association of Neuromuscular & Electrodiagnostic Medicine. Acute inflammatory demyelinating polyradiculopathy. 2020. Available at: https://www.aanem.org/Patients/Muscle-and-Nerve-Disorders/Acute-Inflammatory-Demyelinating-Polyradiculopathy. Accessed on November 30, 2020.
109. Vriesendorp FJ. Guillain-Barre syndrome in adults: treatment and prognosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
110. Lewis RA & Ashok Muley S. Chronic inflammatory demyelinating polyneuropathy: treatment and prognosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
111. Lewis RA & Ashok Muley S. Chronic inflammatory demyelinating polyneuropathy: etiology, clinical features, and diagnosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
112. Neunert C, Terrell DR, Arnold DM, et al. American Society of Hematology 2019 guidelines for immune thrombocytopenia. Blood Adv. 2019; 3 (23): 3829 – 66.
113. Neunert CE. Current management of immune thrombocytopenia. Hematology Am Soc Hematol Educ Program. 2013; 2013 (1): 276 – 82.
114. Cines DB & Levine LD. Thrombocytopenia in pregnancy. Hematology Am Soc Hematol Educ Program. 2017; 2017 (1): 144 – 51.
115. Arnold DM. Immune thrombocytopenia (ITP) in adults: initial treatment and prognosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
116. George JN & McIntosh JJ. Thrombocytopenia in pregnancy. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
117. George JN & Arnold DM. Immune thrombocytopenia (ITP) in adults: second-line and subsequent therapies. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
118. Siberry GK, Abzug MJ, Nachman S, et al. Guidelines for the prevention and treatment of opportunistic infections among HIV-exposed and HIV-infected children: recommendations from CDC, the National Institutes of Health, the HIV Medicine Association of the Infectious Diseases Society of America, the Pediatric Infectious Diseases Society, and the American Academy of Pediatrics. Pediatr Infect Dis J. 2013 November; 32 (2): i – KK4.
119. The National Institute of Child Health and Human Developments Intravenous Immunoglobulin Study Group. Intravenous immune globulin for the prevention of bacterial infections in children with symptomatic human immunodeficiency virus infection. NEJM. 1991 Jul 11; 325 (2): 73 – 80.
120. Spector SA, Gelber RD, McGrath N, et al. A controlled trial of intravenous immune globulin for the prevention of serious bacterial infections in children receiving zidovudine for advanced human immunodeficiency virus infection. NEJM. 1994 Nov 3; 331 (18): 1181 – 7.
121. Newburger JW, Takahashi M, Gerber MA, et al. Diagnosis, treatment, and long-term management of Kawasaki disease: a statement for health professionals from the Committee on Rheumatic Fever, Endocarditis, and Kawasaki Disease, Council on Cardiovascular Disease in the Young, American Heart Association (AHA). Pediatrics. 2004 Dec; 114 (6): 1708 - 33.
122. Oates-Whitehead RM, Baumer JH, Haines L, et al. Intravenous immunoglobulin for the treatment of Kawasaki disease in children. Cochrane Database Syst Rev 2003; CD004000.
123. Sundel R. Kawasaki disease: initial treatment and prognosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
124. Keogh M, Sedehizadeh S, & Maddison P. Treatment for Lambert-Eaton myasthenic syndrome. Cochrane Database Syst Rev 2011; :CD003279.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

125. Weinberg DG. Lambert Eaton myasthenic syndrome: treatment and diagnosis. In: UpToDate, Post, TW (ed), UpToDate, Waltham, MA, 2020.
126. Bain PG, Motomura M, Newsom-Davis J, et al. Effects of intravenous immunoglobulin on muscle weakness and calcium-channel autoantibodies in the Lambert-Eaton myasthenic syndrome. Neurology. 1996; 47: 678.
127. Muchnik S, Losavio AS, Vidal A, et al. Long-term follow-up of Lambert-Eaton syndrome treated with intravenous immunoglobulin. Muscle Nerve. 1997; 20: 674.
128. Rich MM, Teener JW, & Bird SJ. Treatment of Lambert-Eaton syndrome with intravenous immunoglobulin. Muscle Nerve. 1997; 20: 614.
129. Takano H, Tanaka M, Koike R, et al. Effect of intravenous immunoglobulin in Lambert-Eaton myasthenic syndrome with small-cell lung cancer: correlation with the titer of anti-voltage-gated calcium channel antibody. Muscle Nerve. 1994; 17: 1073.
130. Bird SJ. Clinical and electrophysiologic improvement in Lambert-Eaton syndrome with intravenous immunoglobulin therapy. Neurology. 1992; 42: 1422.
131. Patwa HS, Chaudhry V, Katzberg H, et al. Evidence-based guideline: intravenous immunoglobulin in the treatment of neuromuscular disorders: report of the Therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Neurology. 2012; 78: 1009.
132. Kälble T, Alcaraz A, et al. Guidelines on renal transplantation. Arnhem, The Netherlands: European Association of Urology (EAU); 2009 Mar. [cited March 21, 2013]; Available from: http://www.uroweb.org/fileadmin/tx_eauguidelines/2009/Full/Renal_Transplant.pdf
133. BlueCross BlueShield Association Medical Policy # 8.01.05; Intravenous Immune Globulin Therapy, Last Reviewed November 2019.
134. Jordan SC, et al. Evaluation of intravenous immunoglobulin as an agent to lower allosensitization and improve transplantation in highly sensitized adult patients with end-stage renal disease: report of the NIH IG02 trial. J Am Soc Nephrol. 2004; 15: 3256 - 62.
135. National Comprehensive Cancer Network. B-cell lymphoma (Version 5.2021). 2021 Sept 22. Available from: https://www.nccn.org/professionals/physician_gls/pdf/b-cell_blocks.pdf. Accessed on January 6, 2022.
136. Hardin H, Shao W, & Bernstein JA. An updated review of pediatric autoimmune neuropsychiatric disorders associated with Streptococcus/pediatric acute-onset neuropsychiatric syndrome, also known as idiopathic autoimmune encephalitis: what the allergist should know. Ann Allergy Asthma Immunol. 2023; 131: 567 – 75.
137. Gilbert DL, Mink JW, & Singer HS. A pediatric neurology perspective on pediatric autoimmune neuropsychiatric disorder associated with streptococcal infection and pediatric acute-onset neuropsychiatric syndrome. J Pediatrics. 2018 Aug; 199: 243 – 51.
138. Swedo SE, Leonard HL, Garvey M, et al. Pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections: clinical description of the first 50 cases. Am JPsychiatry. 1998; 155: 264.
139. Allen AJ, Leonard HL, & Swedo SE. Case study: a new infection-triggered, autoimmunesubtype of pediatric OCD and Tourette's syndrome. J Am Acad Child Adolesc Psychiatry. 1995; 34: 307.
140. Swedo SE, Leonard HL, & Rapoport JL. The pediatric autoimmune neuropsychiatric disorders associated with streptococcal infection (PANDAS) subgroup: separating fact from fiction. Pediatrics. 2004; 113: 907.
141. Gerber MA, Baltimore RS, Eaton CB, et al. Prevention of rheumatic fever and diagnosis and treatment of acute Streptococcal pharyngitis: a scientific statement from the American Heart Association Rheumatic Fever, Endocarditis, and Kawasaki Disease Committee of the Council on Cardiovascular Disease in the Young, the Interdisciplinary Council on Functional Genomics and Translational Biology, and the Interdisciplinary Council on Quality of Care and Outcomes Research: endorsed by the American Academy of Pediatrics. Circulation. 2009; 119: 1541.
142. Kurlan R & Kaplan EL. The pediatric autoimmune neuropsychiatric disorders associated with streptococcal infection (PANDAS) etiology for tics and obsessive-compulsive symptoms: hypothesis or entity - practical considerations for the clinician. Pediatrics. 2004; 113: 883.
143. Murphy ML & Pichichero ME. Prospective identification and treatment of children with pediatric autoimmune neuropsychiatric disorder associated with group A streptococcal infection (PANDAS). Arch Pediatr Adolesc Med. 2002; 156: 356.
144. Singer HS. PANDAS and immunomodulatory therapy. Lancet. 1999; 354: 1137.
145. Perlmutter SJ, Leitman SF, Garvey MA, et al. Therapeutic plasma exchange and intravenous immunoglobulin for obsessive-compulsive disorder and tic disorders in childhood. Lancet. 1999. 354: 1153.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

146. Johnson DR, Kurlan R, Leckman J, et al. The human immune response to streptococcal extracellular antigens: clinical, diagnostic, and potential pathogenetic implications. Clin Infect Dis. 2010; 50: 481.
147. Thienemann M, Murphy T, Leckman J, et al. Clinical management of pediatric acute-onset neuropsychiatric syndrome: part I psychiatric and behavioral interventions. J Child Adolesc Psychopharmacol. 2017; 27: 566.
148. Osterlund A & Engstrand L. An intracellular sanctuary for Streptococcus pyogenes in human tonsillar epithelium--studies of asymptomatic carriers and in vitro cultured biopsies. Acta Otolaryngol. 1997; 117: 883.
149. Osterlund A, Popa R, Nikkilä T, et al. Intracellular reservoir of Streptococcus pyogenes invivo: a possible explanation for recurrent pharyngotonsillitis. Laryngoscope. 1997; 107: 640.
150. Osterlund A & Engstrand L. Intracellular penetration and survival of Streptococcus pyogenesin respiratory epithelial cells in vitro. Acta Otolaryngol. 1995; 115: 685.
151. Thulin P, Johansson L, Low DE, et al. Viable group A streptococci in macrophages during acute soft tissue infection. PLoS Med. 2006; 3: e53.
152. Brown K, Farmer C, Farhadian B, et al. Pediatric acute-onset neuropsychiatric syndrome response to oral corticosteroid bursts: an observational study of patients in an academic community-based PANS clinic. J Child Adolesc Psychopharmacol. 2017; 27: 629.
153. Brown KD, Farmer C, Freeman GM, et al. Effect of early and prophylactic nonsteroidal anti-inflammatory drugs on flare duration in pediatric acute-onset neuropsychiatric syndrome: an observational study of patients followed by an academic community-based pediatric acute-onset neuropsychiatric syndrome clinic. J Child Adolesc Psychopharmacol. 2017; 27: 619.
154. Williams KA, Swedo SE, Farmer CA, et al. Randomized, controlled trial of intravenous immunoglobulin for pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections. J Am Acad Child Adolesc Psychiatry. 2016; 55: 860.
155. Orefici G, Cardona F, Cox CJ, et al. Pediatric autoimmune neuropsychiatric disorders associated with streptococcal infections (PANDAS). 2016 Feb 10. In: Ferretti JJ, Stevens DL, Fischetti VA, editors. Streptococcus pyogenes: Basic Biology to Clinical Manifestations [Internet]. Oklahoma City (OK): University of Oklahoma Health Sciences Center; 2016–. PMID: 26866234.
156. Cooperstock MS, Swedo SE, Pasternack MS, et al. Clinical management of pediatric acute-onset neuropsychiatric syndrome: part III treatment and prevention of infections. J Child Adol Psychopharm. 2017; 27 (7): 594 - 606.
157. Frankovich J, Swedo S, Murphy T, et al. Clinical management of pediatric acute-onset neuropsychiatric syndrome: part II use of immunomodulatory therapies. J Child Adol Psychopharm. 2017; 27 (7): 573 - 93.
158. Swedo S, Frankovich J, & Murphy T. Overview of treatment of pediatric acute-onset neuropsychiatric syndrome. J Child Adol Psychopharm. 2017; 27 (7): 62 - 65.
159. Kalman B. Autoimmune encephalitides: a broadening field of treatable conditions. The Neurologist. 2017 Jan; 22 (1): 1 - 13.
160. Baj J, Sitarz S, Forma A, et al. Alterations in the nervous system and microbiota after B-hemolytic streptococcus group A infection-characteristics and diagnostic criteria of PANDAS recognition. Int J Mol Sci. 2020; 21: 1476.
161. Leon J, Hommer R, Grant P, et al. Longitudinal outcomes of children with pediatric auto-immune neuropsychiatric disorder associated with streptococcal infections (PANDAS). Eur Child Adolesc Psychiatry. 2018 May; 27 (5): 637 - 43.
162. Chang K, Frankovich J, Cooperstock M, et al. Clinical evaluation of youth with pediatric acute onset neuropsychiatric syndrome (PANS): recommendations from the 2013 PANS Consensus Conference. J Child Adolesc Psychopharmacol. 2015 Feb 1; 25 (1): 3 - 13.
163. Kovacevic M, Grant P, Swedo SE. Use of intravenous immunoglobulin in the treatment of 12 youths with pediatric autoimmune neuropsychiatric disorder associated with streptococcal infection. J Child Adolesc Psychopharmacol. 2015 Feb; 25 (1): 65 – 69.
164. Pavone P, Falsaperla R, Cacciaguerra G, et al. PANS/PANDAS: clinical experience in IVIG treatment and state of the art in rehabilitation approaches. NeuroSci. 2020; 1: 75 – 84.
165. Melamed I, Kobayashi RH, O'Connor M, et al. Evaluation of intravenous immunoglobulin in pediatric acute-onset neuropsychiatric syndrome. J Child Adolesc Psychopharmacol. 2021; 31 (2): 118 - 28.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

166. Hajjari P, Oldmark MH, Fernell E. Pediatric acute-onset neuropsychiatric syndrome (PANS) and intravenous immunoglobulin (IVIG): comprehensive open label trial in ten children. BMC Psychiatry. 2022; 22: 535.
167. Otani IM, Lehman HK, Jongco AM, et al. Practical guidance for the diagnosis and management of secondary hypogammaglobulinemia: a work group report of the AAAAI primary immunodeficiency and altered immune response committees. JACI. 2022 May; 149 (5): 1525 – 60.
168. Monahan R, Otani IM, Lehman HK, et al. A second look at secondary hypogammaglobulinemia. Annals AAI. 2025 March; 134 (3): 269 – 78.

Policy History		
#	Date	Change Description
4.7	Effective Date: 06/22/2026	UM medical management system update for MAPPO and BCNA for Qivigy
4.6	Effective Date: 05/11/2026	UM medical management system update for MAPPO and BCNA for Gammagard Liquid ERC
4.5	Effective Date: 12/04/2025	Updated to include Qivigy and criteria for drug induced secondary hypogammaglobulinemia
4.4	Effective Date: 10/27/2025	UM medical management system update for MAPPO and BCNA for Yimmugo
4.3	Effective Date: 10/20/2025	UM medical management system update for BCBS and BCN for Qivigy
4.2	Effective Date: 08/07/2025	Updated to include Gammagard Liquid ERC
4.1	Effective Date: 07/14/2025	UM medical management system update for BCBS and BCN for Gammagard Liquid ERC
4.0	Effective Date: 08/08/2024	Updated to add Yimmugo, remove the statement requiring subcutaneous products only be allowed for the FDA approved indication, and require immunoglobulin not be used in combination with biologic therapies for CIDP
3.9	Effective Date: 07/11/2024	UM medical management system update for BCBS and BCN for Yimmugo
3.8	Effective Date: 06/06/2024	Annual review of criteria, no changes were made to the criteria.
3.7	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made Background was updated to include information regarding IVIG in PANDAS
3.6	Effective Date: 04/01/2024	UM medical management system update for MAPPO and BCNA for Alyglo
3.5	Effective Date: 02/08/2024	Updated to add Flebogamma DIF and Alyglo
3.4	Effective Date: 01/18/2024	UM medical management system update for BCBS and BCN for Alyglo

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3.3	Effective Date: 06/08/2023	Updated Inflammatory demyelinating polyneuropathy (acute) criteria due to Medical director's feedback to require lumbar puncture and if non-confirmotory, then require EMG/NCS or an MRI
3.2	Effective Date: 04/06/2023	Updated to allow approval for no less than 60 days for any indication
3.1	Effective Date: 10/06/2022	Updated to not allow use of IVIG with any other biologic therapy for myasthenia gravis
2.9	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
2.8	Effective Date: 02/04/2021	Updated all criteria to reflect current recommendations for diagnosis and treatment
2.7	Effective Date: 09/28/2020	UM medical management system update for BCNA and MAPPO for Cutaquig and Xembify
2.6	Effective Date: 04/16/2020	Updated weight based dosing changes and cost table
2.5	Effective Date: 02/03/2020	UM medical management system update for BCNA and MAPPO for Cuvitru and Panzyga
2.4	Effective Date: 11/07/2019	Removed Flebogamma DIF and updated weight based dosing requirements
2.3	Effective Date: 10/01/2019	UM medical management system update for BCNA and MAPPO for Asceniv
2.2	Effective Date: 08/15/2019	UM medical management system update for BCBSM and BCN for Xembify Added Xembify and Gammaked
2.1	Effective Date: 06/01/2019	UM medical management system update for BCBSM and BCN for Asceniv
2.0	Effective Date: 02/14/2019	Added Cutaquig
1.9	Effective Date: 12/06/2018	Added Panzyga
1.8	Effective Date: 11/01/2018	Reviewed policy for new Hizentra indication but no changes required. Updated criteria for hypogammaglobulinemia – added IgG levels, removed necessity for immunization after no response to vaccines.
1.7	Effective Date: 05/03/2018	Added criteria for autoimmune encephalitis and PANDAS was placed under investigational use
1.6	Effective Date: 08/10/2017	Updated CIDP criteria.
1.5	Effective Date: 02/09/2017	Added Cuvitru (new product) and GamaSTAN. Updated criteria for MMN.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 11/10/2016</td><td>Annual Review of Policies</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/12/2015</td><td>Updated criteria – Require 2 vs. 1 preferred IG products;
Added HyQvia (new product)</td></tr>
<tr><td>1.2</td><td>Effective Date: 05/08/2014</td><td>Updated criteria - include preferred product</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/02/2013</td><td>Added Bivigam (new product)</td></tr>
<tr><td>1.0</td><td>Effective Date: 11/2012</td><td>Initial Dose changed to Usual Doses Investigational indications updated: Add:
• Atopic dermatitis
• Autism
• Hemolytic anemia
• Hyper IgE syndrome
• Miller-Fisher syndrome
• Neuromyelitis optica
• Steven’s Johnson syndrome
• Wegener’s granulomatosis

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Infliximab Policy

Avsola™ (infliximab-axxq) **- HCPCS: Q5121**
Inflectra® (infliximab-dyyb) **- HCPCS: Q5103**
Ixifi™ (infliximab-qbtx) **- HCPCS: Q5109**
Infliximab (Remicade®)**- HCPCS: J1745**
Infliximab-abda- HCPCS: Q5104
Renflexis® (infliximab-abda) **- HCPCS: Q5104**
Zymfentra® (infliximab-dyyb) **- HCPCS: J1748**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Infliximab is a tumor necrosis factor inhibitor (TNFi) approved for the following indications:
  - Induction and maintenance treatment of adults and pediatric patients 6 years of age and older with moderately to severely active Crohn's disease (CD) who have had an inadequate response to conventional therapy
  - Adults with fistulizing CD
  - Induction and maintenance treatment of adults with moderately to severely active ulcerative colitis (UC) who have had an inadequate response to conventional therapy
  - Induction and maintenance treatment of pediatric patients 6 years of age and older with moderately to severely active UC who have had an inadequate response to conventional therapy
  - Treatment of adults with moderately to severely active rheumatoid arthritis (RA) when used in combination with methotrexate
  - Adults with active ankylosing spondylitis (AS)
  - Adults with psoriatic arthritis (PsA)
  - Treatment of adults with chronic severe (i.e., extensive and/or disabling) plaque psoriasis who are candidates for systemic therapy and when other systemic therapies are medically less appropriate

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Remicade by Janssen was the first infliximab product approved by the FDA. Since its introduction to market, four infliximab biosimilar products have also been approved: Inflectra, Renflexis, Avsola and Ixifi. In addition, Janssen released an "unbranded" formulation of infliximab in November 2021. This "unbranded biologic" is not a biosimilar but rather the same drug re-labeled, similar to authorized generics for non-biologics. Zymfentra is the first subcutaneous version of infliximab that is initially indicated only for maintenance treatment of moderately to severely active UC or CD following treatment with an infliximab product administered IV.

- There is a large body of literature, punctuated by the NOR-SWITCH trial, evaluating the impact of switching from reference infliximab (Remicade) to a biosimilar. The great majority of studies do not report differences in safety, efficacy, or immunogenicity after a single switch. Data suggests a low risk of safety concerns or loss of efficacy after switching to biosimilar infliximab. There are no studies showing that if a biosimilar does not work, a patient will respond to the innovator product or another biosimilar.

- There is insufficient information regarding the concurrent use of infliximab products with other biologic agents or targeted DMARDs. Due to the lack of robust clinical evidence and the possibility of an increased risk of infection, infliximab products are not recommended for use in combination with other biologics or targeted DMARDs.

- Crohn's Disease

    - Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

    - The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

    - Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

    - A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Ulcerative Colitis

    - Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

    - The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

    - The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

    - The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

- Rheumatoid Arthritis

    - The 2021 American College of Rheumatology (ACR) Guidelines for the Treatment of Rheumatoid Arthritis (RA) established recommendations for the care of adult RA patients. The guidelines state that treatment decisions should follow a shared decision-making process and should be reevaluated within a minimum of 3 months based on the efficacy and tolerability of the DMARD(s) chosen.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For the initial treatment of symptomatic RA, the guidelines strongly recommend the use of conventional synthetic DMARD (csDMARD) monotherapy in those who are DMARD-naive. csDMARD monotherapy is a less costly first line treatment option with an extensive safety record accompanied by well-documented clinical efficacy and a large body of clinical experience and familiarity among prescribers. csDMARDs in the guidelines refer to methotrexate (MTX), hydroxychloroquine, leflunomide (LEF), and sulfasalazine. Azathioprine, cyclosporine, minocycline, and gold were not included due to their infrequent use in RA and lack of new data since the prior guidelines were published. Oral MTX is recommended as the preferred initial DMARD for patients with moderate-to-high disease activity, and hydroxychloroquine is recommended as the preferred initial DMARD for patients with low disease activity.

- If disease activity remains moderate or high despite optimal dosing of methotrexate monotherapy, the use of dual therapy with methotrexate plus biologic DMARD (bDMARD; etanercept, adalimumab, infliximab, golimumab, certolizumab pegol, abatacept, tocilizumab, sarilumab, rituximab) or targeted synthetic DMARD (tsDMARD; tofacitinib, baricitinib, upadacitinib) therapy is conditionally recommended over the use of triple therapy (i.e., addition of sulfasalazine and hydroxychloroquine). The guidelines do not inform preference of bDMARD over tsDMARD therapy (or vice-versa) for use in combination with MTX. No one agent has been shown to be superior to another. The guidelines do acknowledge the emergence of safety signals for the JAK inhibitor class (tsDMARD), and state that further modification of this recommendation may be necessary as additional data are published.

- A treat-to-target approach is conditionally recommended over usual care for patients who have had an inadequate response to bDMARDs or tsDMARDs. Treat-to-target refers to a systematic approach involving frequent monitoring of disease activity using validated instruments and modification of treatment to minimize disease activity with the goal of reaching a pre-defined target (low disease activity or remission).

- Ankylosing Spondylitis

  - Axial spondyloarthritis, comprising ankylosing spondylitis (AS) and non-radiographic axial spondyloarthritis (NRAS), is the main form of chronic inflammatory arthritis affecting the axial skeleton. Non-radiographic means that damage to the joints is not visible on X-ray. When changes to the vertebrae (the bones of the spine) or sacroiliac joints don't show any changes on an X-ray, that's known as NRAS. Once the joints are clearly affected on an X-ray, a person can be diagnosed with AS.

  - The 2019 American College of Rheumatology recommendations for AS and NRAS are similar. In adult patients who have active disease despite treatment with nonsteroidal anti-inflammatory drugs (NSAIDS), treatment with TNFi are recommended. They do not recommend any particular TNFi as the preferred choice for the typical patient. Secukinumab or ixekizumab is recommended over the use of a second TNFi in patients with primary nonresponse to the first TNFi, whereas for patients with a secondary nonresponse (i.e., those who relapse after an initial response) it may be beneficial to switch to a different TNFi rather than immediately switch to a different biologic class. In the case of nonresponse (primary or secondary), the guidelines recommend against switching to treatment with a biosimilar since clinical response would not be expected to be different.

- Psoriasis

  - Psoriasis is a chronic, painful and life-altering immune-mediated disease which predominantly manifests with skin and joint involvement. Patients may also experience significant cardiovascular and psychological comorbidities. Approximately 2% of U.S. adults are affected by psoriasis (men and women equally), and it can occur at any age. Approximately 90% of psoriasis-affected patients have plaque psoriasis, which is characterized by well-defined round or oval plaques that

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

vary in size and often coalesce. The severity of psoriasis is defined as: mild = less than 3% of body affected; moderate = 3-10% of body affected; and severe being more than 10% of the body affected.

- Per the 2020 Joint American Academy of Dermatology (AAD) - National Psoriasis Foundation (NPF) guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures: topical corticosteroids provide a high efficacy and good safety option for patients with localized disease. They are generally recommended as first-line therapy. Choice of steroid potency may depend on severity, location, patient preference, and patient age, while the duration of treatment may vary with steroid potency, location and severity of disease often ranging from 2-12 weeks. Therapeutic regimens may include 2-4 weeks with a topical steroid applied twice daily, followed by a maintenance regimen where topical steroids are alternated with a steroid-sparing topical agent. Treatment with topical steroids for over 12 weeks is recommended under careful supervision by a physician.

- Per the 2019 Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with phototherapy: phototherapy serves as a reasonable and effective treatment option for patients requiring more than topical medications and/or those wishing to avoid systemic medications or simply seeking an adjunct to a failing regimen. Guidelines also state that the majority of patients with mild-to-moderate disease have adequate disease control with topical therapies and phototherapy alone.

- Per the 2020 Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies: many oral medications, including methotrexate, cyclosporine, and acitretin, have been used for decades to treat psoriasis, each with its own benefits and risks. Most work by targeting the immune system, whereas others, such as acitretin, work predominantly by decreasing keratinocyte hyperproliferation, thus restoring the normal epidermal differentiation. Both methotrexate and cyclosporine are category A guideline recommendations for the treatment of moderate to severe psoriasis in adults and for severe, recalcitrant psoriasis, respectively. Studies examining the use of methotrexate and cyclosporine in psoriasis showed the primary efficacy endpoints met within 12-16 weeks. Acitretin is a category B guideline recommendation as monotherapy for plaque psoriasis, with full treatment response expected within 3-6 months.

- Per the 2019 Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with biologics: biologic agents, as monotherapy or combined with other topical or systemic medications, have a high benefit-to-risk ration. TNFi, interleukin-12/23 inhibitor (IL-12/IL-23i), IL-23i, and IL-17i biologics have a category "A" recommendation as a monotherapy treatment option for adult patients with moderate-to-severe plaque psoriasis. TNFi biosimilars approved by the FDA should be considered similar to the reference branded version of the drug and therefore interchangeable. Guidelines do not recommend one product over another and note the similar efficacy seen across biologics within the same class.

– Psoriatic Arthritis

- Psoriatic Arthritis (PsA) is a chronic inflammatory disease often associated with psoriasis. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50, and causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

- Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis: all recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.

- If PsA remains active despite OSM therapy, switching to a TNFi, an IL-17i, or an IL-12/23i biologic is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

– Generalized Pustular Psoriasis

- Generalized pustular psoriasis (GPP) is a rare and potentially life-threatening neutrophilic skin disease characterized by flares consisting of widespread eruptions of painful, sterile pustules. Patients with acute GPP may appear systemically ill and require hospital admission for adequate supportive care, and flares can be so disruptive to the system that they can trigger sepsis, cardiovascular complications, and renal failure. Flare frequency varies among patients and may be spontaneous or triggered by stress, infection, medication, or pregnancy. The clinical course of GPP varies and can be relapsing with recurrent flares or persistent with intermittent flares.

- The European Rare and Severe Psoriasis Expert Network (ERASPEN) consensus statement on phenotypes of pustular psoriasis (2017) define GPP as macroscopically visible primary sterile pustules occurring on non-acral skin and not within psoriasis plaques. GPP may occur with or without systemic inflammation and with or without psoriasis vulgaris and should only be diagnosed when the condition has relapsed at least once or when it persists for more than 3 months.

- The goals of treatment of GPP are to improve skin manifestations, alleviate systemic symptoms, and minimize the risk for life-threatening systemic complications. There are no standard US or international guidelines for the treatment of GPP as high-quality data on the efficacy of treatments is lacking. Japanese guidelines for the treatment of GPP (2018) and the National Psoriasis Foundation (NPF) Medical Board (2012) recommend an oral retinoid (e.g. acitretin), cyclosporine, methotrexate, and various biologics as potential systemic treatments for GPP. In the United States, these therapies are used off-label to treat GPP flares, and the choice of systemic agent is based on disease severity. Demonstration of efficacy with any of these agents is solely based on limited evidence from case reports and small, uncontrolled trials. No randomized controlled trials or other comparative studies have been done comparing treatment methods.

- Infliximab has a long history of off-label use in GPP and use is supported by the NPF Medical Board and the Japanese guidelines. It is often used for more severe disease as marked improvement can be seen within the first few days of treatment. Japanese guidelines cite the effects of infliximab as apparent within 24-48 hours in many cases and a clear effect often seen after 1 to 3 administrations. Once the flare has resolved, patients can be transitioned to alternative therapies like methotrexate or a retinoid or remain on infliximab for maintenance.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Singh JA, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis Rheumatol. 2019 Jan; 71 (1): 5-32.
2. Elmets CA, Korman NJ, Prater EF, Wong EB, Rupani RN, Kivelevitch D et al, Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures, Journal of the American Academy of Dermatology (2020), doi: https://doi.org/10.1016/j.jaad.2020.07.087.
3. Elmets CA, Lim HW, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy. J Am Acad Dermatol 2019; 81: 775-804. https://doi.org/10.1016/j.jaad.2019.04.042
4. Menter A, Strober BE, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol 2019; 80: 1029-1072. https://doi.org/10.1016/j.jaad.2018.11.057
5. Menter A, Gelfand JM, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol 2020; 82: 1445-1486. https://doi.org/10.1016/j.jaad.2020.02.044.
6. Jørgensen KK, Olsen IC, Goll GL et al. Switching from originator infliximab to biosimilar CT-P13 compared with maintained treatment with originator infliximab (NOR-SWITCH): a 52-week, randomised, double-blind, non-inferiority trial. Lancet. 2017; 389: 2304–16.
7. Fraenkel L, et al. 2021 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Care & Research. 2021 Jul; 73 (7):924-939.
8. Ward, MM, Deodhar, A, Akl, EA, et al. 2019 Update of the American College of Rheumatology/Spondylitis Association of America/Spondyloarthritis Research and Treatment Network Recommendations for the Treatment of Ankylosing Spondylitis and Nonradiographic Axial Spondyloarthritis. Arthritis Rheumatol. 2019 Oct;71(10):1599-1613.
9. Actemra (tocilizumab) [prescribing information]. South San Francisco, CA: Genentech Inc; May 2020.
10. Cimzia (certolizumab pegol) [prescribing information]. Smyrna, GA: UCB, Inc. September 2019.
11. Cosentyx (secukinumab) [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals; June 2020.
12. Enbrel (etanercept) [prescribing information]. Thousand Oaks, CA: Immunex Corporation; March 2020.
13. Entyvio (vedolizumab) [prescribing information]. Deerfield, IL: Takeda Pharmaceuticals America Inc; March 2020.
14. Humira (adalimumab) [prescribing information]. North Chicago, IL: AbbVie; March 2020.
15. Ilumya (tildrakizumab) [prescribing information]. Cranbury, NJ: Sun Pharmaceutical Industries, Inc; July 2020.
16. Inflectra (infliximab-dyyb) [prescribing information].New York, NY: Pfizer; June 2019.
17. Kevzara (sarilumab) [prescribing information]. Bridgewater, NJ: Sanofi0Aventis; April 2018.
18. Kineret (anakinra) [prescribing information]. Stockholm, Sweden: Swedish Orphan Biovitrum AB; June 2018.
19. Olumiant (baricitinib) [prescribing information]. Indianapolis, IN: Eli Lilly; July 2020.
20. Orencia (abatacept) [prescribing information]. Princeton, NJ: Bristol-Myers Squibb; June 2020.
21. Otezla (apremilast) [prescribing information]. Thousand Oaks, CA: Amgen Inc; April 2020.
22. Remicade (infliximab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; May 2020.
23. Renflexis (infliximab-abda) [prescribing information]. Whitehouse Station, NJ: Merc Sharp & Dohme Corp; October 2025.
24. Rinvoq (upadacitinib) [prescribing information]. North Chicago, IL: AbbVie Inc; July 2020.
25. Rituxan (rituximab) [prescribing information]. South San Francisco, CA: Genentech Inc; August 2020.
26. Siliq (brodalumab) [prescribing information]. Bridgewater, NL: Valeant Pharmaceuticals North America LLC; May 2018.
27. Simponi (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.
28. Simponi Aria (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

29. Skyrizi (risankizumab-rzaa) [prescribing information]. North Chicago, IL: AbbVie Inc; March 2020.
30. Stelara (ustekinumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; July 2020.
31. Taltz (ixekizumab) [prescribing information]. Indianapolis, IN: Eli Lilly and Co; May 2020.
32. Tremfya (guselkumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; July 2020.
33. Xeljanz (tofacitinib) [prescribing information]. New York, NY: Pfizer; December 2019
34. Avsola (infliximab-axxq) [prescribing information]. Thousand Oaks, CA: Amgen Inc; December 2019.
35. Ixifi (infliximab-qbtx) [prescribing information]. New York, NY: Pfizer; December 2017.
36. Navarini AA, Burden AD, et al. European consensus statement on phenotypes of pustular psoriasis. J Eur Acad Dermatol Venerel. 2017 Nov;32(11):1792-1799. doi: 10.1111/jdv.14386.
37. Fujita H, Terui T, et al. Japanese guidelines for the management and treatment of generalized pustular psoriasis: The new pathogenesis and treatment of GPP. Journal of Dermatology 2018; 45: 1235-1270.
38. Robinson A, Van Voorhees, AS, et al. Treatment of pustular psoriasis: From the Medical Board of the National Psoriasis Foundation. J Am Acad Dermatol 2012;67:279-88.
39. Kalb RE. Pustular psoriasis: Pathogenesis, clinical manifestations, and diagnosis. In: UpToDate, Shefner JM (Ed), UpToDate, Waltham, MA. (Accessed September 6, 2022).
40. Kalb RE. Pustular psoriasis: Management. In: UpToDate, Shefner JM (Ed), UpToDate, Waltham, MA. (Accessed September 6, 2022).
41. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
42. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
43. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
44. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448
45. IPD Analytics. Payer & Provider Insights. Immunology: Tumor Necrosis Factor (TNF) Inhibitors. July 2023. Accessed August 24, 2023. https://www.ipdanalytics.com
46. Zymfentra (infliximab-dyyb) [prescribing information] Jersey City, NJ: Celltrion Inc. October 2023.

Policy History		
#	Date	Change Description
3.6	Effective Date: 07/01/2026 P&T Date 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.
3.5	Effective Date: 12/04/2025	Added unbranded Renflexis product – Infliximab-abda – to the policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3.4	Effective Date: 10/09/2025	Annual review of criteria performed, no changes were made
3.3	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
3.2	Effective Date: 12/14/2023	Updated to add FDA approved indications
3.1	Effective Date: 10/12/2023	Annual review of criteria performed, no changes were made
3.0	Effective Date: 10/06/2022	Added criteria for generalized pustular psoriasis
2.9	Effective Date: 12/09/2021	Removed FDA approved indication, phototherapy and oral DMARD criteria for psoriasis, and the oral DMARD criteria for psoriatic arthritis, and added trial of one topical corticosteroid for psoriasis indication.
2.8	Effective Date: 08/12/2021	Removal of criteria requiring documented negative TB test
2.7	Effective Date: 02/04/2021	Removal of the topical steroid criteria for psoriasis indication
2.6	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications.
2.5	Effective Date: 08/21/2020	UM medical management system update for MAPPO and BCNA for Avsola
2.4	Effective Date: 04/16/2020	Updated criteria to include dose optimization of preferred product statement and updated pricing table
2.3	Effective Date: 03/01/2020	UM medical management system update for BCBS for Avsola
2.2	Effective Date: 02/06/2020	Updated to include biosimilar Avsola (infliximab-axxq). UM medical management system update for BCN for Avsola
2.1	Effective Date: 08/15/2019	Updated to include a credible explanation statement
2.0	Effective Date: 06/03/2019	UM medical management system update for BCNA and MAPPO for Ixifi
1.9	Effective Date: 05/09/2019	Updated criteria to include trial of preferred products
1.8	Effective Date: 09/07/2018	The Treatments for RA Policy is being retired; all RA criteria was listed in this document.
1.7	Effective Date: 08/09/2018	Criteria update-Ixifi addition and Step Therapy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.6	Effective Date: 02/08/2018	New criteria document; added drugs including biosimilars
1.5	Effective Date: 10/01/2017	UM medical management system update for BCBS for Renflexis
1.4	Effective Date: 07/05/2017	UM medical management system update for BCNA and MAPPO for Remicade, Renflexis, and Inflectra
1.3	Effective Date: 05/04/2017	Annual review of medical policy and template update
1.2	Effective Date: 04/01/2017	UM medical management system update for BCBS for Remicade and Inflectra
1.1	Effective Date: 10/01/2016	UM medical management system update for BCN for Remicade, Renflexis, and Inflectra
1.0	Effective Date: 05/05/2016	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Injectable Antiemetic Products

Akynzeo® (fosnetupitant and palonosetron) – HCPCS: J1454
Aprepitant Injectable Emulsion – HCPCS: J3590
Cinvanti® (aprepitant) – HCPCS: J0185
Focinvez™ (fosaprepitant) – HCPCS: J1434
Navitrux™ (fosaprepitant) – HCPCS: J3590
Sustol® (granisetron) (subcutaneous formulation) – HCPCS: J1627

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Chemotherapy induced nausea and vomiting (CINV) is one of patients' most feared side effects of the medication. Three distinct types of CINV have been defined, with important implications for both prevention and management: acute emesis, which most commonly begins within one to two hours of chemotherapy and usually peaks in four to six hours; delayed emesis, occurring more than 24 hours after chemotherapy; and anticipatory emesis, occurring prior to treatment as a conditioned response in patients who have developed significant nausea and vomiting during previous cycles of chemotherapy. The goal of antiemetic therapy is the complete prevention of CINV, and this should be achievable in the majority of patients receiving chemotherapy, even with highly emetic agents.

- The most important factor determining the likelihood of acute or delayed emesis developing during chemotherapy is the intrinsic emetogenicity of the particular agent. Although other factors may be important, such as patient age, sex, and history of alcohol consumption, these factors are not currently used to select the antiemetic strategy. The 2004 Perugia Antiemetic Consensus Guideline meeting . divided chemotherapeutic agents into four categories based upon the risk of emesis in the absence of antiemetic prophylaxis: highly emetic has a 90% risk of emesis; moderately emetic has a 30% to 90% risk of emesis; low emetogenic agents have a 10% to 30% risk of emesis; and minimally emetic drugs have a less than 10% risk of emesis. For combination regimens, the emetic level is determined by identifying the most emetic agent in the combination and then assessing the relative contribution of the other agents.

- The three categories of drugs with the highest therapeutic index for the management of CINV are the type three 5-hydroxytryptamine (5-HT3) receptor antagonists, the neurokinin-1 receptor (NK1R) antagonists, and glucocorticoids, especially dexamethasone. In addition, more recent data has demonstrated substantial antiemetic activity for the antipsychotic medication olanzapine when used in combination with other antiemetics. These agents are used alone and in specific combinations, depending on the emetogenicity of the specific chemotherapy regimen being administered and its tendency to produce not only acute but also delayed emesis.

- Multiple guidelines recommend use of combination therapy with a NK1R antagonist, a 5-HT3 receptor antagonist, dexamethasone, and olanzapine day 1 for highly or moderately emetogenic chemotherapy regimens. Dexamethasone and olanzapine should be continued days 2 to 4. If aprepitant was given day 1, it should be used also on days 2 and 3.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Akynzeo [prescribing information]. Iselin, NJ: Helsinn Therapeutics, Inc.; February 2023.
2. Cinvanvti [prescribing information]. San Diego, CA: Heron Therapeutics, Inc.; April 2026.
3. Focinvez [prescribing information]. Bridgewater, NJ: Amneal Pharmaceuticals LLC; March 2026.
4. Sustol [prescribing information]. San Diego, CA: Heron Therapeutics, Inc ; February 2026.
5. Roila F, Hesketh PJ, Herrstedt J, Antiemetic Subcommittee of the Multinational Association of Supportive Care in Cancer. Prevention of chemotherapy- and radiotherapy-induced emesis: results of the 2004 Perugia International Antiemetic Consensus Conference. Ann Oncol. 2006; 17 (1): 20 - 8.
6. Herrstedt J, Clark-Snow R, Ruhlmann CH, et al. MASCC/ESMO antiemetic guidelines: introduction to the 2023 guidelines update. Support Care Cancer. 2023 Dec 22; 32: https://doi.org/10.1007/s00520-023-08219-y.
7. Hesketh PJ, Kris MG, Basch E, et al. Antiemetics: ASCO guideline update. J Clin Onc. 2020 July 13; 388 (24): https://doi.org/10.1200/JCO.20.01296.
8. National Comprehensive Cancer Network. Antiemetics (Version 2.2026). 2026 June 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/antiemesis.pdf. Accessed on June 26, 2026.

Policy History		
#	Date	Change Description
1.2	Effective Date: 08/13/2026	Updated to include Navitrux and Aprepitant Injectable Emulsion
1.1	Effective Date: 01/01/2026	UM medical management system update for MAPPO and BCNA for Akynzeo, Cinvanti, Focinvez, and Sustol
1.0	Effective Date: 10/09/2025	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Inlexzo™ (gemcitabine)
HCPCS: J9183

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Bladder cancer is one of the more common forms of cancer. Approximately 75% - 80% of newly diagnosed bladder cancers are classified as non-muscle invasive bladder cancer (NMIBC), a type of cancer that has grown through the lining of the bladder but hasn't yet invaded the muscle layer. This type of cancer is associated with high rates of recurrence, between 30 to 80%, and the risk of progression to invasive and metastatic disease.

- Treatment and care of patients with high-risk NMIBC, including those with carcinoma in situ (CIS), often involves removing the tumor followed by Bacillus Calmette-Guérin (BCG) bladder instillation therapy to reduce the risk of recurrence. Few effective treatment options exist for patients who develop BCG-unresponsive disease. The failure to achieve a complete response, or the disappearance of all signs of cancer as seen on cystoscopy, biopsied tissue, and urine, is associated with an increased risk of death or a disease-worsening event.

- Inlexzo is a nucleoside metabolic inhibitor-containing intravesical system indicated for the treatment of adult patients with BCG-unresponsive, NMIBC with CIS with or without papillary tumors.

- The 2025 National Comprehensive Cancer Network Bladder Cancer Treatment Guidelines recommend TURBT for staging followed by a single dose of intravesicular mitomycin or gemcitabine as the first step in treatment. Following the tumor evaluation, if the tumor is considered high-grade, BCG is the preferred adjuvant therapy and intravesicular mitomycin or gemcitabine provide additional options to those who aren't candidates for BCG therapy. BCG is typically given weekly for 6 weeks at induction followed by maintenance of 3 weekly instillations at month 3, 6, 12, 18, 24, 30, and 36. Two 6-week BCG induction courses should be completed before the patient is considered non-responsive to the therapy. If patients have had recurrence or are considered non-responsive to BCG therapy, cystectomy, Keytruda®, Anktiva®, and Adstiladrin® are currently recommended as second-line therapies.

- Safety and efficacy were evaluated in cohort 2 of the SunRISe-1 trial, a phase IIb, single-arm, multicenter study of 83 patients with BCG-unresponsive, NMIBC with CIS, with or without papillary tumors (T1, or high-grade Ta) following transurethral resection. BCG-unresponsive NMIBC CIS was defined as persistent or recurrent CIS alone or with Ta/T1 disease within 12 months of adequate BCG therapy. Adequate BCG therapy was defined as a minimum administration of at least five of six doses of an initial induction course plus either of: at least two of three doses of maintenance therapy or at least two of six doses of a second induction course. Patients received Inlexzo into the bladder every 3 weeks for 6 months, followed by once every 12 weeks for up to 18 months, or until unacceptable toxicity, persistence or recurrence of CIS and/or high-

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

grade papillary disease, or progression. The primary endpoints were complete response rate at any time defined as negative results for cystoscopy and duration of response. Results show 82% of study participants achieved a complete response (95% CI: 72, 90). This high response rate demonstrated strong durability with 51% of these patients maintained a complete response for at least one year.

- Inlexzo has not been compared to generic gemcitabine bladder instillation in a randomized controlled trial and there is no data to suggest Inlexzo is superior to generic gemcitabine bladder instillation.

References:

1. Inlexzo [prescribing information]. Horsham, PA: Janssen Biotech, Inc.; September 2025.
2. Clinicaltrials.gov. A study of TAR-200 in combination with cetrelimab, TAR-200 alone, or cetrelimab alone in participants with non-muscle invasive bladder cancer (NMIBC) unresponsive to intravesical bacillus calmette-guérin who are ineligible for or elected not to undergo radical cystectomy (SunRISe-1). Available at: https://clinicaltrials.gov/study/NCT04640623. Accessed on September 11, 2025.
3. Daneshmand S, Van der Heijden MS, Jacob JM, et al. TAR-200 for bacillus calmette-guérin-unresponsive high-risk non-muscle-invasive bladder cancer: results from the phase IIb SunRISe-1 study. J Clin Oncol. 2025 Jul 30: JCO2501651. doi: 10.1200/JCO-25-01651.
4. American Cancer Society. Key statistics for bladder cancer. 2025 Jan 22. Available at: https://www.cancer.org/cancer/bladder-cancer/about/key-statistics.html. Accessed on September 11, 2025.
5. National Comprehensive Cancer Network. Baldder cancer (Version 1.2025). 2025 March 25. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed on September 11, 2025.

<table>
<tr><td colspan="3">Policy History</td></tr>
<tr><td>#</td><td>Date</td><td>Change Description</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/13/2026</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 12/04/2025	New Policy

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Intravenous Iron Replacement

Feraheme® (ferumoxytol) **- HCPCS: Q0138 / Q0139**
Generic Ferrlect® (sodium ferric gluconate complex) **- HCPCS: J2916**
INFeD (iron dextran) **- HCPCS: J1750**
Injectafer® (ferric carboxymaltose) **- HCPCS: J1439**
Monoferric® (ferric derisomaltose) **- HCPCS: J1437**
Venofer® (iron sucrose) **- HCPCS: J1756**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- The most common causes of iron deficiency anemia are decreased dietary intake, reduced absorption, and blood loss. In resource-rich countries such as the United States, the major cause of iron deficiency is blood loss, either overt or occult. Overt bleeding is usually caused by trauma, hematemesis or melena, hemoptysis, menorrhagia, pregnancy and delivery, or hematuria. Occult bleeding is usually caused by gastrointestinal conditions, such as, gastritis, malignancy, or telangiectasia or hemolysis with urinary losses. The most common symptoms of anemia are fatigue, weakness, headache, irritability, exercise intolerance, shortness of breath on exertion, vertigo, and angina. Diagnosis of iron deficiency anemia is made by low hemoglobin and hematocrit levels and serum ferritin level. Serum ferritin is the key indicator of iron stores in otherwise healthy adults.

- The treatment for iron deficiency anemia is iron replacement, usually with oral over-the-counter (OTC) iron preparations or via intravenous iron. In the presence of functioning erythropoiesis, iron supplementation is adequate to replenish iron stores and restore blood loss. However, due to the gastrointestinal adverse effects of oral iron as well as absorption issues, intravenous iron may be preferable.

- There are currently multiple intravenous iron therapies on the market. Neither the 2026 Kidney Disease: Improving Global Outcomes (KDIGO) clinical practice guideline for anemia in chronic kidney disease or the 2026 National Comprehensive Cancer Network hematopoietic growth factors treatment guidelines recommend one intravenous product over another. All have similar efficacy and there is no head to head data showing superiority of one product over the other. Choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability.

References:

1. Feraheme [prescribing information]. Waltham, MA: AMAG Pharmaceuticals, Inc.; June 2022.
2. Ferrlecit [prescribing information]. Bridgewater, NJ: Sanofi-Aventis US, LLC; March 2022.
3. INFeD [prescribing information]. Madison, NJ: Allergan USA, Inc.; September 2021.
4. Injectafer [prescribing information]. Shirley, NY: American Regent, Inc.; May 2023.
5. Triferic AVNU [prescribing information]. Wixom, MI: Rockwell Medical, Inc.; March 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

6. Venofer [prescribing information]. Shirley, NY: American Regent, Inc.; June 2022.
7. Monoferric [prescribing information]. Morristown, NJ: Pharmacosmos Therapeutics Inc.; February 2022.
8. National Comprehensive Cancer Network. Hematopoietic growth factors (Version 3.2026). 2025 Dec 15. Available at: https://www.nccn.org/professionals/physician_gls/pdf/growthfactors.pdf. Accessed on June 22, 2026.
9. Adkinson NF, Strauss WE, Macdougall IC, et al. Comparative safety of intravenous ferumoxytol versus ferric carboxymaltose in iron deficiency anemia: a randomized trial. Am J Hematol. 2018; 93: 683.
10. Hetzel D, Strauss W, Bernard K, et al. A phase III, randomized, open-label trial of ferumoxytol compared with iron sucrose for the treatment of iron deficiency anemia in patients with a history of unsatisfactory oral iron therapy. Am J Hematol. 2014; 89: 646.
11. Macdougall IC, Strauss WE, McLaughlin J, et al. A randomized comparison of ferumoxytol and iron sucrose for treating iron deficiency anemia in patients with CKD. Clin J Am Soc Nephrol. 2014; 9: 705.
12. Eknoyan G, Lameire N, Kasiske BL, et al. KDIGO clinical practice guideline for anemia in chronic kidney disease. 2026 Jan. Kidney Intern. 109 (Suppl 1S): S1 – 99.

Policy History		
#	Date	Change Description
1.6	Effective Date: 08/13/2026	Updated to remove Triferic and Triferic AVNU which have been discontinued by the manufacturer
1.5	Effective Date: 08/07/2025	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 08/08/2024	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 08/10/2023	Annual review of criteria was performed, no changes were made
1.2	Effective Date: 08/08/2022	UM medical management system update for Injectafor and Monoferric for BCNA and MAPPO
1.1	Effective Date: 08/04/2022	Updated criteria to require the use of more than one preferred product
1.0	Effective Date: 06/10/2021	New policy for Medicare Part B only

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

Izervay™ (avacincaptad pegol)
HCPCS: J2782

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Geographic atrophy is an advanced and severe form of dry age-related macular degeneration (AMD). It is caused by the gradual breakdown of light-sensitive cells in the macula resulting in the growth of irreversible lesions in the retinal pigment epithelium (RPE). GA progression causes a gradual loss of visual function. Symptoms include scotomas, difficulty recognizing faces, decreased reading speed, impaired dark adaptation, low luminance deficit (LLD), impaired contrast sensitivity, and difficulty driving at night. More than half of all patients with GA will experience significant impairment of everyday vision, and about 20% of patients will develop severe vision loss with visual acuity of 20/200 or worse.

- The exact cause of GA is unknown but it is thought the disease is the result of a multifactorial process. The most significant risk factors include age and family history with genetics playing a role in disease development. It is thought errors found in the genes of the complement cascade may cause inflammation making the eye more susceptible to GA. Smoking and a higher body mass index are also risk factors.

- Diagnosis is made by an ophthalmologist during a dilated exam and/or with retinal imaging. In a dilated exam, geographic atrophy appears as a patch of retina that's missing its dark melanin pigment. Imaging techniques including retinal color photographs, optical coherence tomography (OCT), or autofluorescence photographs can also be used to detect GA.

- Izervay is a C5 complement inhibitor indicated for the treatment of GA secondary to AMD. It targets the complement overactivation generating GA progression preventing lesion growth and reducing the likelihood of severe disease.

- GA can be secondary to other conditions outside of AMD. Those include Stargardt disease, cone rod dystrophy, or toxic maculopathies like plaquenil maculopathy. Izervay has only been studied in patients with GA secondary to dry AMD and therefore should not be used to treat GA secondary to other conditions.

- Izervay has not been studied in patients with a visual acuity worse than 20/320. Use should be limited to those patients with visual acuity equal to or better than 20/320.

References:

1. Izervay [prescribing information]. Parsippany, NJ: Iveric bio, Inc.; March 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2. Jaffe GJ, Westby K, Csaky KG, et al. C5 inhibitor avacincaptad pegol for geographic atrophy due to age-related macular degeneration: a randomized pivotal phase 2/3 trial. Ophthalmology. 2021 Apr; 128 (4): 576 - 86.
3. Patel SS, Lally DR, Hsu J, at al. Avacincaptad pegol for geographic atrophy secondary to age-related macular degeneration: 18-month findings from the GATHER1 trial. Eye. 2023 March 24. Available at: https://doi.org/10.1038/s41433-023-02497-w. Accessed on August 8, 2023.
4. Clinicaltrials.gov. A phase 3 multicenter, randomized, double masked, sham- controlled clinical trial to assess the safety and efficacy of intravitreal administration of Zimura (complement C5 inhibitor) in patients with geographic atrophy secondary to age-related macular degeneration (NCT 04435366). Available at: https://clinicaltrials.gov/ct2/show/NCT04435366. Accessed on August 8, 2023.
5. The Eye Diseases Prevalence Research Group. Prevalence of age-related macular degeneration in the United States. Arch Ophthalmol. 2004; 122 (4): 564 – 572.
6. Flaxel CJ, Adelman RA, Bailey ST, et al. Age-related macular degeneration preferred practice pattern. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/age-related-macular-degeneration-ppp. Accessed on August 12, 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/15/2023</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 10/12/2023</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 08/17/2023</td><td>UM medical management system update for BCBSM and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/08/2023</td><td>Preliminary drug review

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Jemperli (dostarlimab-gxly)
HCPCS: J9272

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Jemperli is a programmed death receptor-1 (PD-1)–blocking antibody indicated:
    - In combination with carboplatin and paclitaxel, followed by Jemperli as a single agent, for the treatment of adult patients with primary advanced or recurrent endometrial cancer (EC)
    - As a single agent for the treatment of adult patients with mismatch repair deficient (dMMR) recurrent or advanced EC, as determined by an FDA-approved test, that has progressed on or following prior treatment with a platinum-containing regimen in any setting and are not candidates for curative surgery or radiation
    - As a single agent for the treatment of adult patients with dMMR recurrent or advanced solid tumors, as determined by an FDA-approved test, that have progressed on or following prior treatment and who have no satisfactory alternative treatment options
- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Jemperli following failure. NCCN treatment guidelines also do not recommend use of PD-L1 checkpoint inhibitors following a previous failure.
- Jemperli has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Jemperli [prescribing information]. Philadelphia, PA: GlaksoSmithKline LLC; September 2025.
2. Oaknin A, Tinker AV, Gilbert L, et al. Clinical activity and safety of the anti-programmed death 1 monoclonal antibody dostarlimab for patients with recurrent or advanced mismatch repair-deficient endometrial cancer: a nonrandomized phase 1 clinical trial. JAMA Oncol. 2020 Oct 1; 6 (11): 1 – 7.
3. National Comprehensive Cancer Network. Uterine neoplasms (Version 3.2026). 2026 June 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/uterine.pdf. Accessed on June 22, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.7</td><td>Effective Date: 08/13/2026</td><td>Updated to include the trial and failure of preferred products statement</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 04/10/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/06/2023</td><td>Updated approval length to allow for no less than a 60 day approval duration</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/09/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.1</td><td>Effective Date: 07/26/2021</td><td>UM medical management system update for all lines of business
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/10/2021</td><td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kadcyla® (ado-trastuzumab emtansine)
HCPCS: J9354

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Kadcyla is a HER2-targeted antibody and microtubule inhibitor conjugate indicated
    - As a single agent, for the treatment of patients with HER2-positive, metastatic breast cancer who previously received trastuzumab and a taxane, separately or in combination in patients who have either:
        - Received prior therapy for metastatic disease, or
        - Developed disease recurrence during or within six months of completing adjuvant therapy
    - The adjuvant treatment of patients with HER2-positive early breast cancer who have residual invasive disease after neoadjuvant taxane and trastuzumab-based treatment
- Per the NCCN guidelines for breast cancer, patients are eligible for adjuvant HER2-directed treatment if they have HER2-positive breast cancer defined as:
    - Single probe average HER2 copy number greater than or equal to 6.0 signals/cell
      OR
    - Dual probe HER2/CEP17 ratio greater than or equal to 2.0
      OR
    - Dual probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell

References:

1. Kadcyla [package insert]. San Francisco, CA: Genentech Inc; May 2025.
2. Burstein & Harold MD. Adjuvant medical therapy for HER2 positive breast cancer. Uptodate.com. March 2013.
3. Hogan K. Preliminary medication review antineoplastics: ado-trastuzumab emtansine (Kadcyla) [Genentech]. RegenceRx; 2013.
4. TEC Specialty Pharmacy Report. Ado-trastuzumab emtansine (Kadcyla) 03-2013.
5. National Comprehensive Cancer Network. Breast cancer (Version 1.2026). 2026 Jan 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on February 18, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.5</td><td>Effective Date: 04/16/2026</td><td>Updated to include the trial and failure of preferred products statement</td></tr>
<tr><td>2.4</td><td>Effective Date: 04/10/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.3</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.2</td><td>Effective Date: 04/06/2023</td><td>Updated approval length to allow for no less than a 60 day approval duration</td></tr>
<tr><td>2.1</td><td>Effective Date: 06/09/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>2.0</td><td>Effective Date: 06/10/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.8</td><td>Effective Date: 06/11/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 06/06/2019</td><td>Updated with new indication</td></tr>
<tr><td>1.5</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/09/2018</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/10/2017</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/11/2016</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 07/01/2015</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/08/2013</td><td>Initial Criteria Write-Up</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kanuma™ (sebelipase alfa)
HCPCS: J2840

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Lysosomal acid lipase deficiency (LAL-D) is an autosomal recessive lysosomal storage disorder caused by a mutation on the LIPA gene. It is characterized by accumulation of undegraded triglycerides and cholesteryl esters due to a deficiency or insufficient activity of the enzyme lysosomal acid lipase (LAL). Age of onset and phenotypic spectrum are variable and range from an infantile-onset form or Wolman disease with severe clinical course and death before 1 year of age to childhood/adult-onset disease with milder symptoms, historically also known as cholesteryl ester storage disease. The most common symptoms of Wolman's disease include abdominal distension, hepatosplenomegaly, ascites, fibrosis of the liver, vomiting, diarrhea, steatorrhea, malnutrition, failure to thrive, calcification of the adrenal gland, and developmental delays. Patients with cholesteryl ester storage disease present with a range of symptoms depending on the degree of LAL activity including hypercholesterolemia, hypertriglyceridemia, high-density lipoprotein deficiency, abnormal lipid deposits, hepatomegaly, splenomegaly, adrenomegaly, fatty liver disease, and liver fibrosis.

- LAL-D diagnosis is confirmed through identifying reduced lysosomal acid lipase activity in peripheral leukocytes or skin fibroblasts followed by genetic testing that shows the patient has a mutation of the LIPA gene.

- Enzyme replacement is the standard of care in lysosomal acid lipase deficiency. Kanuma is the only enzyme replacement therapy FDA approved for the treatment of pediatric and adult patients with LAL-D. Kanuma has been studied in patients as young as 1 month of age. All patients studied were symptomatic at study entry and showed improvement in liver function, lipid panel, hepatosplenomegaly, and gastrointestinal symptoms.

References:

1. Kanuma [prescribing information]. New Haven, CT: Alexion Pharmaceuticals, Inc.; July 2024.
2. Burton BK, Balwani M, Feillet F, et al. A phase 3 trial of sebelipase alfa in lysosomal acid lipase deficiency. N Engl J Med. 2015; 373: 1010 – 20.
3. Jones SA, Plantaz D, Vara R, et al. Effect of sebelipase alfa on survival and liver function in infants with rapidly progressive lysosomal acid lipase deficiency. Molecular Gene Met. 2015;114 (2): S59.
4. Erwin AL. The role of sebelipase alfa in the treatment of lysosomal acid lipase deficiency. Therap Adv Gastroenterol. 2017 Jul; 10 (7): 553 – 62.
5. National Organization for Rare Disorders. Wolman disease. 2015. Available at: https://rarediseases.org/rare-diseases/wolman-disease/. Accessed on July 6, 2020.
6. National Organization for Rare Disorders. Cholesteryl ester storage disease. 2019. Available at: https://rarediseases.org/rare-diseases/cholesteryl-ester-storage-disease/. Accessed on July 6, 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

7. Jones SA, Rojas-Caro S, Quinn AG, et al. Survival in infants treated with sebelipase alfa for lysosomal acid lipase deficiency: an open-label, multicenter, dose-escalation study. Orphanet J Rare Dis. 2017 Feb 8; 12 (1): 25 – 36.
8. Balwani M, Breen C, Enns GM, et al, Clinical effect and safety profile of recombinant human lysosomal acid lipase in patients with cholesteryl ester storage disease. Hepatology. 2013 Sep; 58 (3): 950 – 7.
9. Valayannopoulos V, Malinova V, Honzík T, et al. Sebelipase alfa over 52 weeks reduces serum transaminases, liver volume and improves serum lipids in patients with lysosomal acid lipase deficiency. J Hepatol. 2014 Nov; 61 (5): 1135 – 42.
10. Burton BK, Balwani M, Feillet F, et al. A phase 3 trial of sebelipase alfa in lysosomal acid lipase deficiency. N Engl J Med. 2015 Sep 10; 373 (11): 1010 - 20.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.9</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes made to the criteria at this time</td></tr>
<tr><td>1.7</td><td>Effective Date: 10/12/2023</td><td>Updated to remove prescriber requirement</td></tr>
<tr><td>1.6</td><td>Effective Date: 10/06/2022</td><td>Annual review – no changes made to the criteria at this time</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/07/2021</td><td>Annual review of policy. No changes were made to the criteria.</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/08/2020</td><td>New policy created for this disease state and drug. The Enzyme Replacement Therapy policy will be retired</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update for MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 01/01/2017</td><td>UM medical management system update for BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/01/2016</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 01/01/2016</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kebilidi™ (eladocagene exuparvovec-tneq)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Aromatic L-amino acid decarboxylase (AADC) deficiency is an autosomal recessive ultrarare disorder caused by a mutation on the DOPA decarboxylase (DDC) gene. It is characterized by a dysfunctional AADC enzyme which is responsible for the production of the neurotransmitters dopamine, serotonin, epinephrine, and norepinephrine. When the enzyme is not functional or has decreased activity, a smaller number of these neurotransmitters are produced leading to neurons not being able to communicate and send signals properly throughout the body.

- The symptoms of AADC deficiency typically begin shortly after birth or when the child is a few months old. There is a wide range of possible symptoms, and the severity of the disease varies among affected individuals. The two most common symptoms are hypotonia in the trunk and oculogyric crises. These crises are characterized by abnormal rotation of the eyeballs and gaze deviation, uncontrolled movements of the head and neck, muscle spasms, agitation, and irritability. They can last several hours and tend to recur every 2 to 5 days. Other movement disorders can be present, such as hypokinesia, hypertonia in the limbs, dystonia, athetosis, chorea, and tremors. Dysfunction of the autonomic nervous system can lead to excessive sweating, hypersalivation, ptosis, nasal congestion, temperature instability, hypotension, and hypoglycemia. Gastrointestinal symptoms including gastric reflux, constipation, or diarrhea are common. Because of the disease itself and because of the numerous possible symptoms, children with AADC deficiency have developmental delays and are not able to reach normal milestones such as walking and talking, have feeding difficulties, and experience failure to thrive. They are prone to many medical complications and might also have difficulty adapting to those complications as their autonomic nervous system is dysfunctional and can react inappropriately to stressors such as surgery or infections.

- The 2017 consensus guidelines for the diagnosis and treatment of AADC deficiency state confirmation of disease involves three core diagnostic tests: a lumbar puncture showing cerebral spinal fluid (CSF) with low levels of 5-hydroxyindoleacetic acid (5-HIAA), homovanillic acid (HVA) and 3-methoxy-4-hydroxyphenylglycol (MHPG) and high concentrations of 3-O-methyldopa (3-OMD), L-Dopa, and 5-OH tryptophan (5-HTP); genetic testing showing mutations in the DCC gene; and decreased AADC enzyme activity in the plasma. If genetic diagnosis is performed as the first step, functional confirmation should be completed by measuring AADC enzyme activity in the plasma and/or neurotransmitter metabolites in CSF. Guidelines do recommend performing all three diagnostic tests to confirm diagnosis.

- Management includes a multidisciplinary approach to address the specific needs of the affected individual. Numerous medications can help manage symptoms although the most appropriate treatment regimen greatly varies among affected individuals. There is limited scientific evidence for the efficacy of most treatment options due to the rarity of the disease. First-line treatments include dopamine agonists, monoamine oxidase B [MAO-B] inhibitors, and vitamin B6. Guidelines prefer the use of non-ergot derived dopamine agonists including pramipexole, ropinirole, and rotigotine, and state they should be tried. Guidelines also recommend a trial of MAO-B inhibitors although literature support for use is minimal. Vitamin B6 is considered due to its use as a cofactor for the AADC enzyme and the possibility it may increase residual enzyme activity. Other medications may also be considered for treatment of patient specific symptoms, such as melatonin, benzodiazepines, or anticholinergics.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Kebilidi is a disease modifying therapy approved for the treatment of adult and pediatric patients with AADC deficiency. It is an adeno-associated virus (AAV) vector-based gene therapy that replaces the disfunction DDC gene in AADC patients with a functional copy. This indication is approved under accelerated approval based on change from baseline in gross motor milestone achievement at 48 weeks post-treatment. Continued approval for this indication may be contingent upon verification and description of clinical benefit in a confirmatory clinical trial.

- Safety and efficacy of Kebilidi was evaluated in in an open-label, single arm, natural history cohort study of 13 pediatric patients with genetically confirmed, severe AADC deficiency who had achieved skull maturity assessed with neuroimaging. Twelve of the 13 patients had the severe phenotype of AADC deficiency, defined as having no motor milestone achievement at baseline and no clinical response to standard of care therapies. The one remaining patient had a "variant" of the severe disease phenotype with the ability to sit with assistance but with lack of head control. Patients were excluded from the trial if they had any significant structural brain abnormality or had an anti-AAV2 neutralizing antibody titer over 1,200 folds. Patients received a single total dose of 1.8×10^{11} vg of Kebilidi given as four intraputaminal infusions in a single stereotactic neurosurgical procedure. Patients treated with Kebilidi were compared to an external untreated natural history cohort of 43 pediatric patients with severe AADC deficiency who had at least one motor milestone assessment after 2 years of age. The primary surrogate endpoint was gross motor milestone achievement evaluated at week 48 and assessed using the Peabody Developmental Motor Scale, Second Edition (PDMS-2). Gross motor milestone achievement at Week 48 was assessed in 12 of the 13 patients treated in the study with one patient dropping out prior to week 48. Eight (67%) of the 12 treated patients achieved a new gross motor milestone at week 48: 3 patients achieved full head control, 2 patients achieved sitting with or without assistance, 2 patients achieved walking backwards, and the patient with the "variant" severe phenotype was able to sit unassisted. The two patients who achieved walking backwards at week 48 were treated before 2 years of age. The four patients who were unable to achieve new gross motor milestones at week 48 were treated between the ages of 2.8 and 10.8 years. In comparison, none of the 43 untreated patients with the severe phenotype had documented motor milestone achievement at last assessment at a median age of 7.2 years (range 2 to 19 years).

- The plan considers cellular and gene therapies to be proven effective to treat a condition if the following are true: the drug has full Food and Drug Administration approval that was not obtained under the FDA's accelerated approval pathway and the drug met all of its primary endpoint(s) in its pivotal trials, or if confirmatory trials were required, the drug met its primary endpoint(s) in its confirmatory trial(s). Cellular and gene therapies that haven't been proven effective (do not meet the listed criteria) are considered a benefit contract exclusion for most plans.

- Kebilidi was approved under the FDA's accelerated approval pathway, and therefore, is considered experimental/investigational until further confirmatory trials are complete and the medication gets full FDA approval.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Kebilidi [prescribing information]. Warren, NJ: PTC Therapeutics, Inc.; November 2024.
2. Clinicaltrials.gov. An open-label trial to address the safety of the SmartFlow MR-compatible ventricular cannula for administering eladocagene exuparvovec to pediatric subjects (NCT04903288). Available at: https://clinicaltrials.gov/study/NCT04903288. Accessed on November 14, 2024.
3. Chien YH, Lee NC, Tseng SH, et al. AGIL-AADC gene therapy results in sustained improvements in motor and developmental milestones over 5 years in children with AADC deficiency. Neuro. 2019 April 9; 92 (Suppl 15): 4.6 – 058.
4. Hwu PWL, Chein YH, Lee NC, et al. Safety and improved efficacy outcomes in children AADC deficiency treated with eladocagene exuparvovec gene therapy: results from three clinical trials. Neuro. 2020 April 14; 94 (Suppl 15): 4688.
5. Chien YH, Lee NC, Tseng SH, et al. Efficacy and safety of AAV2 gene therapy in children with aromatic L-amino acid decarboxylase deficiency: an open-label, phase 1/2 trial. Lancet Child Adolesc Health. 2017 Dec 1; 1 (4): 265-273.
6. Leveille E & Blau N. Aromatic l-amino acid decarboxylase deficiency. 2024 Nov 14. Available at: https://rarediseases.org/rare-diseases/aromatic-l-amino-acid-decarboxylase-deficiency/. Accessed on November 14, 2024.
7. Hyland K & Reott M. Prevalence of aromatic l-amino acid decarboxylase deficiency in at-risk populations. Ped Neuro. 2020 May; 106: 38 – 42.
8. Wassenberg T, Molero-Luis M, Jeltsch K, et al. Consensus guideline for the diagnosis and treatment of aromatic l-amino acid decarboxylase (AADC) deficiency. Orphanet J Rare Dis. 2017 Dec; 12 (1): 12 – 33.
9. Tai CH, Lee NC, Chien YH, et al. Long-term efficacy and safety of eladocagene exuparvovec in patients with AADC deficiency. Molecular Ther. 2022 Feb; 30 (2): 509-18.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.8</td><td>Effective Date:
01/20/2026

P&T Date:
12/04/2025</td><td>Updated to experimental/investigational designation</td></tr>
<tr><td>1.7</td><td>Effective Date:
02/03/2025</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 12/12/2024</td><td>New policy - this criteria replaces previously approved preliminary criteria.</td></tr>
<tr><td>1.5</td><td>Effective Date: 11/22/2024</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/06/2023</td><td>Updated approval duration to 3 months</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/04/2022</td><td>Annual review - No changes to the criteria at this time</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/12/2021</td><td>Annual review - No changes to the criteria at this time</td></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2020</td><td>Preliminary drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Khapzory™ (levoleucovorin)
HCPCS: J0642

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Khapzory is indicated as rescue therapy after high-dose methotrexate (MTX) in patients with osteosarcoma; for diminishing the toxicity associated with overdosage of folic acid antagonists or impaired methotrexate elimination; and for the treatment of patients with metastatic colorectal cancer in combination with fluorouracil. Khapzory is not indicated for the treatment of pernicious anemia and megaloblastic anemia secondary to lack of vitamin B12 because of the risk of progression of neurologic manifestations despite hematologic remission.

- Khapzory can be used in adult patients for all indications and pediatric patients for osteosarcoma and toxicity due to overdose of folic acid antagonists or impaired methotrexate elimination. Safety and efficacy in pediatric patients has not been established when used for colorectal cancer.

- Leucovorin and levoleucovorin are the mainstays of rescue therapy and reducing toxicity due to overdose of folic acid antagoinsts. Leucovorin has been commercially available for decades but from time to time it can be in short supply. If it is currently unavailable due to supply chain issues, the FDA will list the drug as such on its website. Both the 2024 National Comprehensive Cancer Network treatment guidelines for bone cancers and colon cancers have leucovorin listed with treatment regimens. While the bone cancer guidelines due not mention use of levoleucovorin, the colon cancer guidelines state there is no data to manage guidance in sitations of leucovorin shoartage but one strategy is the use of levoleucovorin in its place. Guidelines state levoleucovorin should only be considered in times of leucovorin shortage due to the cost being much more expensive than leucovorin.

- Methotrexate is considered high-dose at doses greater than or equal to 500 mg/m2. To eliminate the toxic effects, multiple leucovin doses are given over a period of two to three days. Successful rescue by leucovorin depends on rapid elimination of methotrexate by the kidneys, which requires aggressive pretreatment and posttreatment hydration and urinary alkalinization to a pH greater than 7. Once methotrexate drug concentrations are below 0.05 µM and any renal failure issues have been resolved, rescue therapy can be discontinued.

- Generic levoleucovorin is available. Khapzory has not been studied against any generic levoleucovorin and has no known safety or efficacy advantages over the generic products.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Khapzory [prescribing information]. Irvine, CA: Spectrum Pharmaceuticals, Inc.; November 2024.
2. National Comprehensive Cancer Network. Bone cancer (Version 1.2025). 2024 August 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bone.pdf. Accessed on December 11, 2024.
3. National Comprehensive Cancer Network. Colon Cancer (Version 5.2024). 2024 Aug 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on December 11, 2024.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.8</td><td>Effective Date: 02/12/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 02/02/2023</td><td>Updated approval length to allow for FDA recommended dosing for at least 60 days</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/06/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/07/2021</td><td>Annual review of policy. No changes were made to the criteria</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/08/2020</td><td>Annual Review</td></tr>
<tr><td>1.2</td><td>Effective Date: 11/07/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 07/01/2019</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 12/06/2018	Abbreviated Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	Yes
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kisunla™ (donanemab-azbt)
HCPCS: J0175

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Alzheimer's disease is a progressive disease, with pathophysiological changes and clinical manifestations occurring along a continuum. It continues to be a growing health crisis worldwide, affecting patients with the disease and their families. Approximately 7.2 million Americans aged 65 years and older are currently living with Alzheimer's dementia. About 5 million individuals 65 years of age and older may have mild cognitive impairment (MCI) due to Alzheimer's disease, presenting as memory loss and confusion that does not interfere with activities of daily living; however, it may also be secondary to other conditions.

- It is estimated that 10-15% of individuals with MCI go on to develop dementia each year. Within 5 years, approximately 32% of patients with MCI due to Alzheimer's disease progress to dementia. The progression from MCI to dementia marks the point at which the symptoms of Alzheimer's disease will have gradually led to behavior and personality changes, a decline in cognitive abilities that interfere with a person's ability to carry out daily activities independently, and eventually more severe loss of mental function and problems recognizing family and friends. Diagnosis of MCI and of Alzheimer's dementia is based on clinical evaluation determining cognitive and functional status and not solely on test scores, with progressive cognitive decline demonstrated on subsequent follow ups with the patient.

    - Historically, only symptomatic therapies have been available for treating Alzheimer's dementia. These agents do not act on the evolution of the disease. Standard medical treatment for Alzheimer's disease dementia includes cholinesterase inhibitors (donepezil, galantamine, rivastigmine) and N-methyl-D-aspartate (NMDA) antagonists (memantine).

    - All cholinesterase inhibitors are approved for use in mild and moderate Alzheimer's dementia, though donepezil and transdermal rivastigmine are also approved to treat severe Alzheimer's dementia. Memantine, however, is not recommended in mild disease and is only approved for patients with moderate to severe Alzheimer's dementia.

- Current research efforts are focused on identifying and treating patients as early as possible for the best chance of slowing or stopping the progression of Alzheimer's disease. The accumulation of amyloid beta plaques is a defining pathophysiological feature of Alzheimer's disease that can be exhibited as early as the MCI stage of disease and potentially even earlier, before symptoms arise; as such, a great deal of research has focused on clearing amyloid beta from the brain early in the disease process in an attempt to affect disease progression.

- The presence of amyloid beta plaques can be confirmed by an amyloid positron emission tomography (PET) scan or a cerebrospinal fluid (CSF) test via lumbar puncture; these are the longest-standing FDA-cleared methods to confirm amyloid pathology. More recently in May 2025, the FDA cleared the first blood-based biomarker (BBM) test to detect amyloid plaques associated with Alzheimer's disease. Confirmation of the presence of amyloid pathology and other Alzheimer's disease biomarkers has not

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

historically been guideline recommended for the diagnosis of Alzheimer's disease at any point in the disease process, and testing for these biomarkers has primarily been used for research and in settings where the use of FDA-approved therapies requires confirmation of their presence.

- Amyloid PET imaging uses a class of radiopharmaceuticals that detect levels of amyloid in the human brain; examples of such radiopharmaceuticals include Amyvid™ (florbetapir F18), Neuraceq™ (florbetaben F18) and Vizamyl™ (flutemetamol F18). These scans can be interpreted as positive (elevated amyloid) or negative (non-elevated amyloid).If the amyloid PET is positive with abnormal amyloid beta pathology present, cognitive and/or functional testing is necessary to assist in confirming and staging Alzheimer's disease. A positive amyloid PET alone is not diagnostic of Alzheimer's disease.

- CSF testing measures beta-amyloid, specifically beta-amyloid 1-42 which is a marker of amyloid plaques, and total-tau (tTau) and phosphorylated-tau (pTau181) which are markers of neurofibrillary tangles and provide insight into the intensity of neurodegeneration. CSF testing can be useful in differential diagnosis of Alzheimer's disease and other causes of cognitive impairment. In contrast to amyloid PET scans which are typically high cost and limited in availability, the use of CSF assays offers the potential to provide a more affordable and more accessible option to verify amyloid pathology in the brain, as well as detection of both amyloid and tau biomarkers at once.

    - Elevated CSF levels of tTau and pTau181 are associated with faster progression of cognitive decline.

    - There are currently three CSF tests cleared by the FDA for the evaluation of Alzheimer's disease: 1) Lumipulse® G β-Amyloid Ratio (1-42/1-40) test, 2) Elecsys® beta-Amyloid (1-42) CSF II (Abeta42) and Elecsys® Phospho-Tau (181P) CSF (pTau181) assays (used as a pTau181/Abeta42 ratio), and 3) Elecsys® beta-Amyloid (1-42) CSF II (Abeta42) and Elecsys® Total-Tau (tTau)CSF assays (used as a tTau/Abeta42 ratio). Refer to Appendix 1 for additional information regarding these tests.

    - As with the amyloid PET, a positive result on CSF test alone is not diagnostic of Alzheimer's disease.

- BBM tests for Alzheimer's disease pathology provide a less invasive, more accessible alternative to amyloid PET and CSF testing. To date, there are two FDA approved BBM tests for Alzheimer's disease: Lumipulse G pTau217/β-Amyloid 1-42 Plasma Ratio and Elecsys pTau181 plasma test. Refer to Appendix 2 for additional information.

    - The Lumipulse G pTau217/β-Amyloid 1-42 Plasma Ratio is approved for the early detection of amyloid plaques associated with Alzheimer's disease in adults aged 50 years and older exhibiting signs and symptoms of the disease. The test is intended for patients presenting in specialized care settings with demonstrable symptoms and signs of cognitive decline and, as with amyloid PET and CSF testing, must be interpreted in conjunction with other clinical information.

        - A clinical study comparing the Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio with amyloid PET scan or CSF test results showed 91.7% of individuals with Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio positive results had the presence of amyloid plaques by PET scan or CSF test, and 97.3 % of individuals with negative results had a negative amyloid PET scan or CSF test result. Based on this, the FDA found that the Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio is substantially equivalent to the Lumipulse G β-amyloid Ratio (1-42/1-40) CSF test.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In October 2025, the FDA approved Roche's Elecsys pTau181 plasma test, the only BBM test indicated to aid in the initial assessment of AD and other causes of cognitive decline in the primary care setting. It is approved for patients 55 years of age and older presenting with signs, symptoms, or complaints of cognitive decline. The test measures pTau 181 protein, one of the key markers of amyloid plaque and tau aggregate pathology, and is intended to rule out AD-related pathology in conjunction with other clinical information and assessments.

    - FDA clearance of Elecsys pTau181 was supported by a non-interventional clinical study in an early disease-stage, low-prevalence population reflective of what is commonly seen in primary care. Among the 312 participants, the test ruled out Alzheimer's pathology with a 97.9% negative predictive value.

- The Alzheimer's Association's clinical practice guideline on the use of blood-based biomarkers in the diagnostic workup of suspected Alzheimer's disease within specialized care settings (2025) recommends the following in patients with objective cognitive impairment presenting for specialized memory-care. They do not endorse specific tests and caution that there is significant variability in diagnostic test accuracy and many commercially available BBM tests do not meet the recommended thresholds.

    - Using a BBM test with >90% sensitivity and >75% specificity for initial triage in the diagnostic workup of AD (conditional recommendation, low certainty evidence). A negative finding rules out amyloid pathology and a positive result requires confirmatory testing with amyloid PET or CSF biomarker analysis.

    - Using a high-sensitivity (> 90%) and high-specificity (> 90%) BBM test as a confirmatory test in the diagnostic workup of Alzheimer's disease (conditional recommendation, low certainty evidence). BBM testing that meets these thresholds may serve as a substitute for amyloid PET imaging or CSF biomarker testing. Negative results rule out AD pathology while positive results rule in AD pathology

- Updated criteria for the diagnosis and staging of Alzheimer's disease from the Alzheimer's Association Workgroup (2024) and the Alzheimer's Association's clinical practice guideline on the use of blood-based biomarkers in the diagnostic workup of suspected Alzheimer's disease within specialized care settings (2025) support a biologically based diagnosis of Alzheimer's disease using the above biomarkers, with the caveat that their use in clinical settings is for the evaluation of symptomatic individuals, and not those who are cognitively unimpaired. Additionally, the guidelines acknowledge that though the presence of abnormal biomarkers may be sufficient to confirm Alzheimer's pathology in a symptomatic individual, it should not preclude a clinician from exercising their clinical judgment and searching for other contributors to the patient's symptoms.

- Amyloid pathology can also be found in both cognitively unimpaired adults and in patients with other neurodegenerative disorders; therefore, a positive amyloid PET and/or CSF result alone may be insufficient to establish a diagnosis of Alzheimer's disease or other cognitive disorders. Results from these tests should be interpreted in tandem with other clinical diagnostic evaluations, including cognitive and/or functional testing.

- Validated mental and functional status exams are important tools for assessing cognitive and behavioral functions and measuring activities of daily living and are frequently used when screening older adults for MCI or dementia. They represent a portion of the necessary workup for cognitive impairment or dementia and, like biomarker evaluations, should be interpreted in the context of other clinical information prior to finalizing a diagnosis. Two of the most widely used mental status scales include the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Mini-Mental State Examination (MMSE) and the Montreal Cognitive Assessment (MoCA), while the Functional Activities Questionnaire (FAQ) is a commonly used functional status exam.

  - The MMSE evaluates temporal and spatial orientation, memory, attention/concentration, language, and visuospatial function. It is scored on a 30-point scale with scores <24 typically regarded as abnormal and indicative of cognitive impairment. Of note, age, education, and race/ethnicity have been shown to affect MMSE scores and should be considered when evaluating an individual patient.

  - The MoCA includes a broader range of cognitive domains, particularly executive abilities, and is able to detect more subtle cognitive deficits that characterize MCI. It evaluates delayed word recall, visuospatial/executive function, language, attention/concentration, and orientation. The MoCA is also scored on a 30-point scale, with scores of 18-25 suggestive of MCI. The cut-off score of 18 is usually considered to separate MCI from Alzheimer's disease, though there is overlap in the scores as AD is determined by the presence of cognitive impairment as well as the loss of functional independence.

  - The FAQ is a subjective 10-item scale that assesses a patient's functional abilities, specifically instrumental activities of daily living (IADL; e.g., preparing meals, performing chores, running errands, traveling outside of one's neighborhood, keeping track of finances). Per-item scores range from 0-3, with higher scores indicating greater functional impairment. There is no established cut-off score for IADL impairment, though a cut point of 9 (i.e., dependent in 3 or more activities) is recommended to indicate impaired function and possible cognitive impairment. The total FAQ score may be useful in differentiating MCI and mild Alzheimer's dementia.

- The Clinical Dementia Rating Scale (CDR) is another validated clinical instrument used to assess and standardize Alzheimer's disease staging that is most often used in research settings and is commonly used to stage dementia progression over time. It is derived from the scores in each of six different categories, or "box scores": memory, orientation, judgment, community affairs, home hobbies, and personal are. Memory is considered the primary category while all others are secondary. According to the CDR Global scores, Alzheimer's disease stages can be defined as unimpaired cognition (CDR Global = 0), MCI due to Alzheimer's (CDR Global = 0.5), mild Alzheimer's dementia (CDR Global = 1), moderate Alzheimer's dementia (CDR Global = 2), and severe Alzheimer's dementia (CDR = 0.3). If the memory box score is 0.5, the CDR Global score can only be 0.5 or 1.

- Ruling out other conditions with similar presentation is essential during diagnostic workup for a patient being evaluated for Alzheimer's disease. Examples of situations where a diagnosis of Alzheimer's disease may be unlikely are listed below; these examples are not all-inclusive. Additionally, when feasible and medically appropriate, patients should be weaned from medications that may contribute to cognitive impairment.

  - Evidence of concomitant cerebrovascular disease, defined by a history of stroke temporally related to the onset or worsening of cognitive impairment; or the presence of multiple or extensive infarcts or severe white matter hyperintensity burden,

  - Features of Lewy Body dementia other than the dementia itself,

  - Prominent features of behavioral variant frontotemporal dementia,

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Prominent features of semantic variant primary progressive aphasia or non-fluent/agrammatic variant primary progressive aphasia

- Evidence for another neurological disease or a non-neurological medical comorbidity (e.g., HIV dementia, dementia of Huntington's disease) or medication use that could have a substantial effect on cognition.

- Vitamin B12 or folate deficiency

- Psychiatric diagnoses or symptoms, such as hallucinations, anxiety, major depression, or delusions

- The first FDA approved treatment for Alzheimer's disease that could potentially modify the disease process was Aduhelm® (aducanumab-avwa), a human immunoglobulin gamma 1 (IgG1) monoclonal antibody directed against aggregated soluble and insoluble forms of amyloid beta protein, for the treatment of Alzheimer's disease in patients with mild forms of Alzheimer's disease (i.e., MCI due to Alzheimer's or mild Alzheimer's dementia) as this was the population treated in clinical trials and no safety and effectiveness data is available on initiating treatment in earlier or later stages of the disease than were studied. Aduhelm was approved on June 7, 2021, and brought a first-in-class product to market. However, Aduhelm was approved via the accelerated approval pathway based on the reduction in amyloid beta plaques observed in clinical trials; discordant results of Aduhelm's identically designed Phase III EMERGE and ENGAGE trials failed to provide sufficient evidence to support that the lowering of beta amyloid plaque yields a clinical benefit of improved cognition and delayed disease progression. As such, Aduhelm has had minimal impact on the Alzheimer's population in the time since its approval due to uncertain clinical efficacy, negative press surrounding its approval, and questionable long-term safety, and was discontinued in November 2024.

- On January 6, 2023, the FDA granted Biogen/Eisai's Leqembi® (lecanemab-irmb) accelerated approval based on amyloid plaque reduction, making it the second humanized IgG1 monoclonal antibody directed against amyloid beta for the treatment of Alzheimer's disease. On July 6, 2023, the FDA granted full approval to Leqembi for the treatment of AD in patients with MCI or mild dementia stage of disease and confirmed presence of amyloid, the population in which treatment was initiated in clinical trials. The conversion to full approval was supported by data from the Phase III, randomized, placebo-controlled Clarity AD trial that demonstrated the drug's clinical benefit as it relates to amyloid reduction.

  - Clarity AD was conducted over 18 months in patients 50 to 90 years of age with early Alzheimer's disease (i.e., MCI due to Alzheimer's or mild Alzheimer's dementia) and evidence of amyloid on PET or by CSF testing (n=1,795). The primary endpoint was the change from baseline at 18 months in the score on the Clinical Dementia Rating Sum of Boxes (CDR-SB; range, 0-18 with higher scores indicating greater impairment), which assesses three domains of cognition (memory, orientation, judgment/problem solving) and three domains of function (community affairs, home/hobbies, personal care). Key secondary endpoints included change in amyloid burden on PET and the scores on a variety of other cognitive and functional assessment scales.

  - Participants treated with Leqembi demonstrated a statistically significant 27% less decline in CDR-SB compared to placebo at 18 months, with a mean difference of -0.45 ($p<0.001$). Other measures of cognition assessed in the trial also showed statistically significant differences favoring the lecanemab treatment arm. It should be noted that statistical significance in the change in CDR-SB may not demonstrate a clinically important change, as some experts suggest that the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

minimum clinically important difference (MCID) in CDR-SB where a clinically meaningful change to patients, caregivers or clinicians is apparent is generally a change of 1 to 2 points.

- Change in amyloid burden on PET, another key secondary endpoint, was assessed in a substudy involving 698 participants. At 18 months, the lecanemab group demonstrated a statistically significant larger amount of beta amyloid removal compared with placebo, corresponding to a mean percentage difference of -76.0% ($p<0.001$). 32.4% of those in the lecanemab arm reached amyloid negativity; however, it's worth noting that 7.8% of those in the placebo arm also were amyloid negative at 18 months.

- On July 2, 2024, the FDA approved Eli Lilly's Kisunla for the treatment of Alzheimer's disease, with the caveat that Kisunla should be initiated in patients with MCI or mild dementia stage of disease, the population in which treatment was initiated in the clinical trials. Kisunla marks the third FDA approved anti-amyloid therapy for early symptomatic Alzheimer's disease, and the second to gain full FDA approval based on demonstration of statistically significant clinical benefit in clinical trials alongside Leqembi. Kisunla targets a specific epitope of beta amyloid found within beta amyloid plaque to facilitate plaque removal. Of the approved anti-amyloid therapies, Kisunla is the first and only agent with evidence to support a limited-duration treatment regimen based on amyloid plaque removal, which could potentially result in fewer infusions and lower treatment costs.

- Approval of Kisunla was based on results from the double-blind, placebo-controlled, parallel-group, Phase III TRAILBLAZER-ALZ-2 trial. Participants (n=1,736) were required to have a diagnosis of MCI or mild dementia stage of Alzheimer's disease with confirmed presence of amyloid pathology based on amyloid PET imaging and a progressive change in memory function for at least 6 months. Eligible participants were also required to have the following during the screening period (i.e. within 63 days) prior to randomization:

    - An MMSE score $\geq$ 20 but $\leq$ 28

    - Baseline brain magnetic resonance imaging (MRI), without findings showing:

        - Increased risk for Amyloid-related imaging abnormalities (ARIA) and/or intracerebral hemorrhage (e.g., findings suggestive of ARIA-E and/or cerebral amyloid angiopathy (prior cerebral hemorrhage greater than 1 cm at greatest diameter, more than 4 cerebral microhemorrhages, more than 1 area of superficial siderosis, any macrohemorrhage or severe white matter disease) or other lesions (aneurysm, vascular malformation) that could potentially increase the risk of intracerebral hemorrhage

        - Presence of other clinically significant lesions that could indicate a dementia diagnosis other than Alzheimer's disease

- Additionally, those included in the study were required to have low/medium or high tau levels based on visual assessment of tau PET imaging, with tau levels considered prognostic of rate of clinical decline. Treatment effect was hypothesized to be more difficult to demonstrate in participants with high tau levels due to their more advanced disease state. Patients ranged from 59 to 86 years old, with a mean age of 73 years. Of the total trial population, 68% had low/medium tau level and 32% had high tau.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Patients in TRAILBLAZER-ALZ-2 were randomized 1:1 to receive Kisunla (n=860) or placebo (n=876) for a total of up to 72 weeks. Patients who achieved a prespecified reduction in amyloid levels as measured by amyloid PET at weeks 24, 52, and 76 were switched to placebo. Analyses were conducted on two primary populations within the trial: the low/medium tau level population, and the combined population of low/medium plus high tau groups.

    - The primary endpoint was change in the integrated Alzheimer's Disease Rating Scale (iADRS) score from baseline to 76 weeks. The iADRS is a combination of the Alzheimer's Disease Assessment Scale-Cognitive subscale (ADAS-Cog13) score, which assesses cognition, and the Alzheimer's Disease Cooperative Study – instrumental Activities of Daily Living (ADCS-iADL) scale score, which assesses function. The total score ranges from 0 to 144, with lower scores reflecting worse cognitive and functional performance. Other efficacy endpoints evaluated in the trial included the CDR-SB, the ADAS-Cog13, and the ADCS-iADL.

    - Patients treated with Kisunla demonstrated a statistically significant reduction in clinical decline on iADRS compared to placebo at week 76 in both the combined tau group (2.92, $p<0.0001$) and the low/medium tau group (3.25, $p<0.0001$), equating to a 22% slowing of disease progression at week 76 in the combined tau group and 35% slowing of disease progression at week 76 in the low-medium tau group.

    - Statistically significant reduction in clinical decline on CDR-SB compared to placebo at week 76 was also demonstrated in the combined tau group (-0.70, $p<0.0001$) and the low/medium tau group (-0.67, $p<0.0001$), correlating to a 29% slowing of disease progression at week 76 in the combined group and a 36% slowing of disease progression in the low/medium tau group. Statistically significant differences between treatment groups were also demonstrated as measured by ADCS-Cog13, and ADCS-iADL at week 76 ($p<0.001$).

    - The percentages of patients that reached the prespecified reductions in amyloid and were eligible for switch to placebo based on amyloid PET levels at Week 24, Week 52, and Week 76 timepoints were 17%, 47%, and 69%, respectively. Of note, amyloid PET values could increase after Kisunla treatment is stopped, and there is no data beyond the 76-week trial to guide whether additional Kisunla dosing may be needed for longer-term clinical benefit or how long the amyloid reductions with treatment will last.

- With the approval of Kisunla, we now have two Phase III clinical trials of anti-amyloid therapies (i.e., Clarity AD and TRAILBLAZER-ALZ-2) that have demonstrated an association between amyloid clearance and slowing of cognitive decline in the early Alzheimer's patient population; however, the available evidence, particularly in light of the history of mixed results with previously trialed and failed anti-amyloid therapies in the pipeline, does not unequivocally suggest that amyloid clearance will definitively improve cognitive outcomes. It also remains unclear whether the modest effect on cognition and function demonstrated in the trial will be clinically relevant when used in the real world. There is disagreement among experts about clinical meaningfulness of the magnitude of change in the cognitive outcomes of these trials, and despite the demonstrated statistical significance of the reduction in cognitive decline, we cannot say with certainty that treatment with Kisunla and other anti-amyloid therapies will yield a meaningful change in the patient's status for the benefit to outweigh the risk to treatment. Ultimately, uncertainty remains around the amyloid hypothesis and we do not have adequate data for anti-amyloid therapies to show a correlation between amyloid removal and treatment effect, or differences in outcomes by achieving or not achieving amyloid negativity.

- Any cognitive benefits seen with Kisunla and other anti-amyloid therapies must be weighed against the potential harms of treatment, especially in light of the risk of amyloid-related imaging abnormalities (ARIA) with edema and/or cerebral microhemorrhage. We must also recognize that ARIA risk with real world use may be greater than that in clinical trials due to issues like limited clinical expertise and accessibility issues affecting monitoring. ARIA can occur spontaneously in patients with Alzheimer's disease, with the three main risk factors being exposure to anti-amyloid treatment, presence of pre-treatment microhemorrhages, and APOE ε4 carrier status. Per the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

labeling, testing for ApoE ε4 status is recommended prior to initiating treatment to inform the risk of ARIA development, though it is not a requirement. The prescriber should educate the patient on test results and its implications, including the risk of ARIA associated with APOE ε4 status. For those opting out of testing, the prescriber should inform patients they can still be treated with Kisunla; however, it cannot be determined if they are at higher risk for ARIA based on APOE ε4 status. The benefits of treatment versus the potential risk of ARIA should be considered prior to initiating treatment with Kisunla. An FDA-authorized test to detect ApoE ε4 alleles to identify those at risk of ARIA is not currently available, and those that are available may vary in accuracy and design.

- Caution should also be exercised when considering administration of Kisunla in patients with factors indicating increased risk of intracerebral hemorrhage, in particular those who need concomitant anticoagulant therapy, as well as when considering the administration of antithrombotics or a thrombolytic agent (e.g., tissue plasminogen activator) to a patient already being treated with Kisunla. Because ARIA-E can cause focal neurologic deficits that can mimic an ischemic stroke, treating clinicians should consider whether such symptoms could be due to ARIA-E before giving thrombolytic therapy in a patient being treated with Kisunla.

    - Patients with a history of transient ischemic attacks (TIAs) or stroke within the previous 12 months and those with an inadequately controlled bleeding disorder (including platelet count <50,000 or International Normalized Ratio [INR] >1.5) were not eligible to participate in Leqembi clinical trials in early Alzheimer's disease. Given that these factors may increase the risk of intracerebral hemorrhage in this patient population, it is clinically appropriate to apply the same exclusions to Kisunla and other future anti-amyloid therapies.

- The cognitive decline associated with MCI and mild Alzheimer's disease dementia often spans many years. The limited follow up duration of Kisunla's Phase III trial may be insufficient to conclude how effective Kisunla is for treating early Alzheimer's disease in the long term. Ultimately, longer trials are warranted to determine the true efficacy and safety of Kisunla in early Alzheimer's disease. With the lack of information surrounding long-term use, safety, and the real-world effects of Kisunla, a number of questions arise including the appropriate duration of treatment, if or at what point effectiveness will start to decline, and how discontinuation of Kisunla upon reaching undetectable levels of amyloid beta plaque will affect the trajectory of Alzheimer's disease progression.

- Shortly after Kisunla's approval, 36-month results from the open-label, long-term extension study (OLE) of Clarity AD were presented at the 2024 Alzheimer's Association International Conference (AAIC), with data appearing to support that Leqembi continues to work and maintain a similar slowing of cognitive decline as in the original 18-month trial, and that earlier treatment provides greater effect.

- At the 2025 AAIC, four-year results from Leqembi's Clarity AD OLE and 36-month results from Kisunla's TRAILBLAZER-ALZ2 long-term extension (LTE) were presented.

    - In the Clarity AD OLE, the mean change from baseline in CDR-SB in the Leqembi-treated group was -1.75 points after 48 months of treatment compared to a prespecified natural history cohort of Alzheimer's disease. The OLE also demonstrated a 34% reduction in the relative risk of progression to the next disease stage through 4 years of treatment. Additionally, the tau PET substudy of Clarity AD showed that after 4 years of Leqembi treatment, 69% of patients who had low tau levels showed improvement or no decline, and 56% showed improvement from baseline on CDR-SB global cognitive and functional scale.

        - The 4-year OLE data appear to demonstrate consistent benefits of continuous treatment with Leqembi. It should be noted that the 4-year data analysis varied from that conducted at 36 months in that only patients who had been established on Leqembi from inception of the Clarity AD trial were included in the data set.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Of the 849 patients who had received Leqembi from the beginning of Clarity AD, roughly half had dropped out by the 48-month mark. It is unknown whether these patients experienced disease progression, intolerable side effects, or were lost to follow up due to some other factor. Those who are still enrolled may potentially be doing well because they are more actively managing their disease.

  - Treated patients were again compared to historical data from untreated Alzheimer's patients in the Alzheimer's Disease Neuroimaging Initiative (ADNI). Use of a natural history cohort for comparison presents potential risks for bias and confounding. Additionally, neither the ADNI cohort nor either active treatment arm can be considered representative of the broader Alzheimer's population that would be treated in the real world.

- The TRAILBLAZER-ALZ 2 LTE included 550 patients who initiated Kisunla in the core study and either continued or were switched to placebo after reaching amyloid negativity. Those receiving placebo in the core study were switched to Kisunla for the LTE to evaluate delayed treatment outcomes (n=657).

  - Compared with the ADNI natural history cohort, Kisunla reduced cognitive decline by -0.6 at 18 months and then -1.2 at 36 months on the CDR-SB.

  - Earlier initiation of Kisunla reduced risk of progression to the next disease stage by 27% on the CDR-Global compared to patients with delayed initiation of Kisunla treatment.

  - More than 75% of participants reached amyloid clearance within 76 weeks of starting Kisunla.

  - After up to 2.5 years of observed data in patients who had completed Kisunla treatment, accumulation of amyloid plaque remained slow.

  - The LTE data appears to support that Kisunla continues to provide clinical benefit even after discontinuation of therapy and that earlier treatment provides a more pronounced treatment effect. Caveats to consider when interpreting this data are similar to those of Clarity AD OLE and include that the LTE compared the progression of treated patients to data from a natural history cohort of untreated patients in lieu of a placebo control group, which could potentially confound the results. Additionally, nearly half of patients in the early start Kisunla group dropped out of the study by 36 months for unknown reasons, and, as with Leqembi, those who are still enrolled may potentially be doing well because they are more actively managing their disease.

- Data appears supportive of chronic Leqembi treatment; however, with new data on Kisunla suggesting that patients can stop taking drug once they reach amyloid negativity and treatment benefit continues to grow, the question remains whether there is value, or lack thereof, in continuing treatment of anti-amyloid therapies post-plaque clearance. Controlled head-to-head studies directly comparing the different drugs and treatment regimens are needed to find a resolution to the conflicting conclusions drawn from these extension trials.

- The Centers for Medicare & Medicaid Servies (CMS) recognizes the need for additional information surrounding treatment with Kisunla and other anti-amyloid therapies in the real world. On April 7, 2022, CMS released a national policy for coverage of monoclonal anti-amyloid antibodies approved by the FDA for the treatment of Alzheimer's disease. Under the National Coverage Determination (NCD), Medicare will only provide coverage of FDA approved anti-amyloid antibodies under Coverage with Evidence Development (CED) when furnished in accordance with prespecified coverage criteria laid out in the NCD for patients with a

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

clinical diagnosis of MCI due to Alzheimer's disease or mild Alzheimer's disease dementia, both with confirmed presence of amyloid beta pathology consistent with Alzheimer's disease.

  - Coverage of these anti-amyloid therapies under CED requires participation in CMS-approved prospective comparative studies, and providers must participate in an approved registry to gather information on patient outcomes with treatment to further evaluate whether these products are reasonable and necessary in the Medicare-eligible population. The data collected by these registries is expected to help answer such questions as whether Kisunla and other approved anti-amyloid therapies meaningfully improve health outcomes with real-world use, whether the benefits and harms of these therapies are dependent on select factors in a patient's care, and how the benefits and harms of treatment may change over time. A CED cycle is considered completed once CMS completes reconsideration of the CED coverage decision and the study participation requirement as a condition of coverage is removed. At this time, an analysis of the data collected by CMS for the early Alzheimer's population has not yet been made available to further inform decisions around the long-term use of anti-amyloid therapies.

  - Refer to CMS's NCD: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer's Disease for a complete description.

- To date, there is no literature available to support the use of Kisunla in combination with other anti-amyloid therapies.

- On June 10, 2024, the FDA's Peripheral and Central Nervous System Drugs Advisory Committee convened and unanimously voted 11-0 in favor of Kisunla, voting that the available data supported Kisunla's effectiveness in the population enrolled in clinical trials, which excluded patients with low or no tau burden, and that the benefits outweigh the risks of Kisunla in the treatment of Alzheimer's disease in the population enrolled in the clinical trials. Though the vote was unanimous, the committee recognized that questions remained around Lilly's decision to cease dosing once a patient achieved amyloid clearance, particularly with regard to how clinicians in the real world would monitor for and determine when to cease dosing, and they acknowledged that longer-term follow up would be beneficial to provide more clear guidance on both stopping treatment and potentially restarting. The committee also acknowledged that we lack answers to questions surrounding Kisunla's duration of benefit, how to monitor patients between drug stoppage and restarting, and what will happen with side effects in the interim or upon restarting treatment, and that data on patients within different subgroups was lacking, in particular the higher risk ApoE 4 homozygotes and those with little to no representation in the trial which lacked diversity.

- Appropriate use recommendations (AUR) for Kisunla were developed by the Alzheimer's Disease and Related Disorders Therapeutic Workgroup in 2025 to guide implementation of Kisunla use in real-world practice, prioritizing safety considerations and opportunity for effectiveness. The recommendations primarily align with the TRAILBLAZER-ALZ2 inclusion and exclusion criteria with slight variations, often erring more conservatively. AUR include, but are not limited to, the following:

  - Appropriate candidates for Kisunla include patients with MCI or mild dementia due to Alzheimer's disease (Clinical Stage 3 or 4, respectively) with biomarker confirmation of amyloid via PET or CSF testing. CSF biomarker ratios and amyloid PET are considered equivalent in terms of accuracy and performance, and the choice of test may be driven by access concerns or patient preference.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- No BBM tests were FDA approved at the time of AUR publication, and clinical experience and performance in real-world populations were noted as not yet well established. The AUR therefore do not recommend establishing treatment eligibility solely on a positive blood biomarker test; however, in the advent of BBM test approval, the AUR anticipates that these tests will meet appropriate performance criteria to be considered appropriate for establishing eligibility for treatment with Kisunla and other anti-amyloid therapies for Alzheimer's disease.

- APOE genotyping should be performed to inform risk of ARIA development.

- Pre-treatment MRI should be obtained within at most 12 months and ideally less than 6 months of treatment initiation. Those unable to undergo MRI would not be eligible for Kisunla treatment.

- The AUR recommend against using Kisunla in patients receiving anticoagulants, including warfarin, heparin, and direct oral anticoagulants, until additional safety data are available.

- It is reasonable for clinicians to consider discontinuing treatment if amyloid clearance is demonstrated by a negative amyloid PET, typically obtained 12-18 months post-treatment initiation. The rationale for limited treatment duration is based on Kisunla's selectivity for insoluble, mature plaques imaged by PET. Only amyloid PET is validated to assess amyloid plaque clearance in response to treatment; however, the Work Group acknowledges that. knowledge gaps exist around the ability to implement amyloid PET-based stopping rules for Kisunla in clinical practice.

- Based on the current information available, there is insufficient evidence that Kisunla provides a meaningful clinical benefit in patients with mild Alzheimer's disease, and that potential benefits of therapy outweigh the risks of treatment. Therefore, further demonstration of clinical benefit and safety is warranted.

References:

1. Aduhelm [prescribing information]. Cambridge, MA: Biogen, Inc.; July 2021.
2. Albert MS, DeKosky ST, et al. The diagnosis of mild cognitive impairment due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimer's Dement. 2021 May; 7(3): 270-279.
3. Alexander GC, Emerson S, and Kesselheim AS. Evaluation of Aducanumab for Alzheimer Disease Scientific Evidence and Regulatory Review Involving Efficacy, Safety and Futility. JAMA. 2021;325(17):1717-1718. doi:10.1001/jama.2021.3854.
4. Alzheimer's Association 2025 Alzheimer's Disease Facts and Figures. Alzheimers Dement 2025; 21(5).
5. Arevalo-Rodriquez I, Smailagic N, et al. Mini-Mental State Examination (MMSE) for the detection of Alzheimer's disease and other dementias in people with mild cognitive impairment (MCI) (Review). Cochrane Database of Systematic Reviews. 2015, Issue 3. Art. No,: CD010783.
6. Armstrong, A. (2024, June 10). Lilly's donanemab sails through FDA meeting with 2 unanimous votes in favor. FierceBiotech.com. Accessed on July 9, 2024. Available at: https://www.fiercebiotech.com/biotech/lillys-donanemab-sails-through-fda-meeting-unanimous-votes-favor
7. Budd Haeberlein S, von Hehn C, Tian Y, et al. EMERGE and ENGAGE topline results: two phase 3 studies to evaluate aducanumab in patients with early Alzheimer's Disease. Presented at: 12th Annual CTAD Meeting. December 4-7, 2019; San Diego, CA.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Castrillo-Viguera C, Chalkias S, Burkett P, Wu S, Chen H, Harrison K, Yurgalevitch C, Budd Haeberlein S. EMBARK: A Phase 3b, open-label, single-arm, safety study to evaluate the long-term safety and efficacy of aducanumab in eligible participants with Alzheimer's disease. Presented at: American Academy of Neurology (AAN) 2021, April 17th - April 22nd, 2021; Virtual. P1.013.
9. Centers for Medicare & Medicaid Services Medicare Coverage Database. National Coverage Determination: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer's Disease. April 7, 2022. https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?ncdid=375&ncdver=1. (Accessed September 29, 2025).
10. Centers for Medicare & Medicaid Services Medicare Coverage Database. Coverage with Evidence Development. September 10, 2024. https://www.cms.gov/medicare/coverage/evidence. (Accessed September 29, 2025).
11. Chapleau M, Iaccarino L, Soleimani-Meigooni D, Rabinovici GD. The Role of Amyloid PET in Imaging Neurodegenerative Disorders: A Review. J Nucl Med. 2022 Jun;63(Suppl 1):13S-19S. doi: 10.2967/jnumed.121.263195. PMID: 35649652; PMCID: PMC9165727.
12. Cross, Ryan. "New Data for Alzheimer's Drugs Raise Hopes, and Questions, About Bigger Benefits Over Time". Endpoints News. July 30, 2025. https://endpoints.news/new-data-for-alzheimers-drugs-raise-hopes-and-questions-about-bigger-benefits-over-time/. Accessed September 29, 2025.
13. Dickerson BC, Atri A, et al. The Alzheimer's Association clinical practice guideline for the Diagnostic Evaluation, Testing, Counseling, and Disclosure of Suspected Alzheimer's Disease and Related Disorders (DETeCD-ADRD): Executive summary of recommendations for specialty care. Alzheimer's Dement. 2025;21:e14337. DOI: 10.1002/alz.14337
14. Eli Lilly and Company. Donanemab in Early Symptomatic Alzheimer's Disease: Efficacy and Safety from the TRAILBLAZER-ALZ 2 Long-Term Extension. Presented at: Alzheimer's Association International Conference; July 27-31, 2025; Toronto, Canada.
15. FDA News Release. FDA Clears First Blood Test Used in Diagnosing Alzheimer's Disease. May 16, 2025. Accessed August 29, 2025. Available at: https://www.fda.gov/news-events/press-announcements/fda-clears-first-blood-test-used-diagnosing-alzheimers-disease
16. Gonzalez DA, Gonzales MM, et al. Comprehensive evaluation of the Functional Activities Questionnaire (FAQ) and its reliability and validity. Assessment. 2022 June; 29(4): 748-763.
17. IPD Analytics. Payer & Provider Insights. July 2024. Accessed July 3, 2024. https://www.ipdanalytics.com
18. Jack CR Jr, et al. Revised criteria for diagnosis and staging of Alzheimer's disease: Alzheimer's Association Workgroup. Alzheimers Dement. 2024 Jun 27. doi: 10.1002/alz.13859. Epub ahead of print. PMID: 38934362.
19. Kisunla [prescribing information]. Indianapolis, IN: Eli Lilly; July 2024.
20. Knopman DS, Jones DT, and Greicius MD. Failure to demonstrate efficacy of aducanumab: An analysis of the EMERGE and ENGAGE trials as reported by Biogen, December 2019. Alzheimer's Dement. 2020; 1-6.
21. Labcorp. Elecsys pTau181. Updated February 8, 2026. Accessed March 9, 2026. Available at: https://www.labcorp.com/tests/452560/elecsys-ptau-181-plasma.
22. Labcorp. Lumipulse pTau-217/Beta Amyloid 42 Ratio. Accessed March 9, 2026. Available at: https://www.labcorp.com/treatment-areas/neurology/clinical-testing/ptau217betaamyloid42ratio
23. Leqembi [prescribing information]. Nutley, NJ: Eisai, Inc.; July 2025.
24. Lin GA, Whittington MD, Wright A, Agboola F, Herron-Smith S, Pearson SD, Rind DM. Lecanemab for Early Alzheimer's Disease: Final Evidence Report. Institute for Clinical and Economic Review, April 17, 2023.
25. Manufacturer press release. FDA grants accelerated approval for Aduhelm as the first and only Alzheimer's disease treatment to address a defining pathology of the disease. 7 June 2021. Accessed 8 June 2021. Available at: https://www.globenewswire.com/news-release/2021/06/07/2243019/0/en/FDA-grants-accelerated-approval-for-ADUHELM-as-the-first-and-only-Alzheimer-s-disease-treatment-to-address-a-defining-pathology-of-the-disease.html.
26. Manufacturer press release. Lilly's Kisunla (donanemab-azbt) Approved by the FDA for the Treatment of Early Symptomatic Alzheimer's Disease. July 2, 2024. Accessed on July 3, 2024. Available at: https://investor.lilly.com/news-releases/news-release-details/lillys-kisunlatm-donanemab-azbt-approved-fda-treatment-early

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

27. Manufacturer press release. Lilly's Kisunla (donanemab-azbt_ showed growing benefit over three years in early symptomatic Alzheimer's disease. July 30, 2025. Accessed on September 11, 2025. Available at: https://investor.lilly.com/news-releases/news-release-details/lillys-kisunla-donanemab-azbt-showed-growing-benefit-over-three
28. Manufacturer press release. Roche's Elecsys pTau181 becomes the only FDA -cleared blood test for use in primary care to rule out Alzheimer's related amyloid pathology. October 12, 2025. Accessed on March 9, 2026. Available at: https://www.roche.com/investors/updates/inv-update-2025-10-13b
29. Marshall GA, Zoller AS, et al. Functional Activities Questionnaire items that best discriminate and predict progression from clinically normal to mild cognitive impairment. Curr Alzheimer Res. 2015; 12(5): 493-502.
30. Mayo AM. Use of the Functional Activities Questionnaire in Older Adults with Dementia. In: Try This: Best Practices in Nursing Care to Older Adults with Dementia. Greenberg SA (Ed). 2016. Accessed on November 14, 2023. Available at: https://www.alz.org/careplanning/downloads/functional-activities-questionnaire.pdf
31. McKhann GM, Knopman DS, et al. The diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimer's Dement. 2011 May; 7(3): 263-269.
32. Morris, J.C. (1993). The clinical dementia rating (CDR): Current version and scoring rules. Neurology, 43(11), 2412-2414
33. O'Bryant SE, Lacritz LH, Hall LH, et al. Validation of the new interpretive guidelines for the clinical dementia rating scale sum of boxes score in the National Alzheimer's Coordinating Center database. Arch Neurol. 2010;67(6):746-749.
34. Press Release. FDA Grants Accelerated Approval for Alzheimer's Drug. 7 June 2021. Accessed 8 June 2021. Available at: https://www.prnewswire.com/news-releases/fda-grants-accelerated-approval-for-alzheimers-drug-301306966.html.
35. Protocol for: van Dyck CH, Swanson CJ, Aisen P, et al. Lecanemab in early Alzheimer's disease. N Engl J Med 2023;388:9-21. DOI: 10.1056/NEJMoa2212948
36. Rabinovici GD, et al. Donanemab: Appropriate use recommendations. J Prev Alzheimers Dis. 2025 May;12(5):100150. doi: 10.1016/j.tjpad.2025.100150. Epub 2025 Mar 27. PMID: 40155270; PMCID: PMC12180672.
37. Schneider L. A resurrection of aducanumab for Alzheimer's disease. Lancet Neurol. Published online December 4, 2019. doi: 10.1016/S1474-4422(19)30480-6.
38. Sims JR, Zimmer JA, et al. Donanemab in Early Symptomatic Alzheimer Disease. JAMA 2023;330(6):512-527. doi:10.1001/jama.2023.13239
39. Swanson CJ, et al. A randomized, double-blind, phase 2b proof-of-concept clinical trial in early Alzheimer's disease with lecanemab, an anti-Aβ protofibril antibody. Alzheimer's Research & Therapy (2021) 13:80.
40. Van Dyck CH, Swanson CJ, et al. Lecanemab in Early Alzheimer's Disease. New Engl J Med. 2023; 388:9-2. DOI: 10.1056/NEJMoa2212948.
41. Van Dyck, C. The Lecanemab Clarity AD Open-Label Extension in Early Alzheimer's Disease: Initial Findings from the 48-Month Analysis. Presented at: Alzheimer's Association International Conference; July 27-31, 2025; Toronto, Canada
42. Williams, MM et al. Progression of Alzheimer disease as measured by Clinical Dementia Rating sum of boxes scores. Alzheimer's Dement. 2012 Aug 1;9(1 0):S39–S44. doi: 10.1016/j.jalz.2012.01.005

Policy History		
#	Date	Change Description
1.6	Effective Date: 04/16/2026	For commercial benefit, removed bullet stating that BCBSM/BCN is awaiting results of ongoing clinical trials since Kisunla has full FDA approval

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td></td><td>Changed Medicare criteria to “Coverage of the requested drug will be provided in accordance with CMS’s National Coverage Determination: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer’s Disease” and removed corresponding quantity limits, authorization period, and renewal criteria

Updating supporting information to include Elecsys p-Tau181 plasma test and Appendix 2: Blood Biomarker Tests Cleared by the FDA for the Evaluation of Alzheimer’s Disease</td></tr>
<tr><td>1.5</td><td>Effective Date:

10/09/2025</td><td>Added CSF testing as an option for confirming amyloid-beta pathology to Medicare criteria

Expanded MRI time limits from within the past 60 days to within at most the past 12 months</td></tr>
<tr><td>1.4</td><td>Effective Date:

02/13/2025</td><td>Added initial criteria, quantity limits, authorization period, and renewal criteria for Medicare benefit only</td></tr>
<tr><td>1.3</td><td>Effective Date:

08/08/2024</td><td>New policy. This criteria replaces previously approved preliminary criteria.</td></tr>
<tr><td>1.2</td><td>Effective Date:

07/15/2024</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date:</td><td>Updated proposed Medicare preliminary criteria to reference National Coverage Determination vs. National Coverage Analysis</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	08/10/2023	
1.0	Effective Date: 12/01/2022	Preliminary drug review

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

Appendix 1: CSF Tests Cleared by the FDA for the Evaluation of Alzheimer's Disease (AD) Biomarkers*

Test	What is measured	Results Interpretation	Notes
Lumipulse β-Amyloid Ratio (1-42/1-40) Fujirebio Diagnostics, Inc.	Ratio of AB 1-42 and AB 1-40 concentrations Determines likelihood of amyloid plaques	Negative (normal): ≥ 0.073 Likely positive (abnormal): 0.059-0.072 Positive (abnormal): ≤ 0.058	AB 1-42 accumulation leads to plaque aggregation and neurotoxicity in AD AB 1-40 remains relatively stable and less prone to aggregating Likely positive and positive results are more likely to be consistent with a positive amyloid PET result; however, these results do not establish a diagnosis of AD or other cognitive disorders.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Elecsys beta-amyloid (1-42) CSF II and Elecsys Phospho-Tau (181P)CSF (pTau181) Roche	Used together to measure the ratio of pTau181 and AB 1-42 concentrations Ratio provides a surrogate marker of amyloid plaque burden with 90% concordance with Amyloid PET imaging	Negative (normal): ratio ≤ lab-designated ratio cut-off Positive (abnormal): ratio > lab-designated ratio cut-off	Increases in CSF pTau181 concentration is associated with more rapid cognitive decline in AD Results below the cut-off reduces the likelihood of AD causing the cognitive impairment Intended to be used in addition to other clinical diagnostic evaluations.
Elecsys beta-amyloid (1-42) CSF II and Elecsys Total-Tau CSF Roche	Used together to measure the ratio of tTau and AB 1-42 concentrations Ratio provides a surrogate marker of amyloid plaque burden concordant with Amyloid PET imaging	Negative (normal): ratio ≤ lab-designated ratio cut-off Positive (abnormal): ratio > lab-designated ratio cut-off	Expected to be available 4th quarter 2023 High CSF tTau can also be found in other neurodegenerative disease (e.g., Creutzfeldt-Jakob disease) Intended to be used in addition to other clinical diagnostic evaluations.

AB – amyloid beta; pTau181 – phosphorylated tau-181; tTau – total Tau

*All are cleared by the FDA for adults 55 and older presenting with cognitive impairment who are being evaluated for AD and other causes of cognitive decline.

*Results from different assays may be different and cannot be used interchangeably.

*Results must be interpreted in conjunction with other diagnostic tools, such as neurological examination, neurobehavioral tests, imaging, routine lab tests.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Appendix 2: Blood Biomarker Tests Cleared by the FDA for the Evaluation of Alzheimer's Disease (AD)*

Test	What is measured	Results Interpretation	Notes
Lumipulse G pTau217/β-Amyloid 1-42 plasma ratio Fujirebio Diagnostics, Inc.	Ratio of phosphorylated tau 217 to AB 1-42 The numerical ratio of the levels of these proteins correlates to the presence or absence of amyloid plaque, reducing the need for an amyloid PET with a 91.8% positive predictive value	Positive (abnormal): ratio ≥0.00738 Intermediate (uncertain): ratio 0.00371 – 0.00737 Negative: ratio ≤0.00370 (normal)	Intended for use in specialized care settings only, in adults age 50 years and older Not to be used as a screening or stand-alone diagnostic test. Results should be interpreted in conjunction with other pertinent clinical information Results are highly concordant with amyloid PET and amyloid CSF ratio results Patients with intermediate results are uncertain to have amyloid pathology and should consider further testing

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Elecsys p-Tau181 Roche	Used to measure plasma levels of phosphorylated tau 181, a protein that increases as amyloid plaques accumulate in the brain A 97.9% negative predictive value for ruling out AD	Negative: ≤0.722 pg/mL (consistent with a negative amyloid PET scan; investigate for causes other than amyloid pathology) Positive: >0.722 pg/mL (may not be consistent with a positive amyloid PET; further investigation required to determine if amyloid is a cause)	Intended to aid in the initial assessment for AD in adults 55 years and older in the primary care setting. Not recommended for patients who are symptomatic and already referred to a specialist Results should be interpreted in conjunction with other clinical information A positive test result may not be consistent with a positive amyloid PET scan result. Patients with an initial positive result should be further investigated to determine whether the amyloid pathology can be a cause of cognitive impairment.

AB – amyloid beta

*Results must be interpreted in conjunction with other diagnostic tools, such as neurological examination, neurobehavioral tests, imaging, routine lab test

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kresladi™ (marnetegragene autotemcel)

HCPCS: J3590

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Leukocyte adhesion deficiency-I (LAD-I) is a rare, autosomal recessive pediatric immunodeficiency disorder involving both B and T cells and is characterized by an inability of leukocytes to migrate to the site of infection to kill offending microbes, predisposing patients to recurrent and fatal infections. LAD-I is caused by mutations in the ITGB2 gene encoding for the beta-2 integrin component of CD18. CD18 is a key protein that facilitates leukocyte adhesion and extravasation from blood vessels to combat infections.

- During infancy, patients with LAD-I suffer from recurrent life-threatening bacterial and fungal infections that respond poorly to antibiotics and require frequent hospitalizations. Characteristics of patients with LAD-I include: delayed separation of the umbilical cord, recurrent pyogenic infections, with onset in the first weeks of life, infections caused mainly by *Staphylococcus aureus* and *Pseudomonas aeruginosa*, absent pus formation, and periodontitis. Children who survive infancy experience recurrent severe infections including pneumonia, gingival ulcers, necrotic skin ulcers, and septicemia.

- There are two phenotypes of LAD-I directly related to the degree of CD18 deficiency: severe deficiency and moderate deficiency. Severe LAD-I is seen in patients with less than 2% of the normal surface expression of CD18. Without a successful bone marrow transplant, survival beyond childhood is rare. Moderate LAD-I is seen in patients with some surface expression of CD18 (variably characterized as 2 to 30% of normal).

- LAD-I is estimated to impact an estimated 800 to 1,000 individuals in the U.S. and Europe. In the U.S., the incidence of LAD-I is estimated to range from approximately one in 100,000 to one in 200,000 live births, with roughly two-thirds of affected patients classified as having the severe form of the disease. Currently the only potential curative treatment is an allogeneic hematopoietic stem cell transplant (HSCT).

- Management of LAD-I depends on the clinical severity. Mild-to-moderate disease usually responds to antibiotic therapy, while severe disease requires bone marrow transplantation or HSCT. The main aspect of treatment is antibiotic therapy to treat the repeated, characteristic infections associated with the LAD syndrome disorders. Prompt antibiotic therapy is essential during acute infectious episodes.

- Kresladi is an autologous hematopoietic stem cell (HSC)-based gene therapy indicated for the treatment of pediatric patients with severe LAD-I due to biallelic variants in ITGB2 without an available human leukocyte antigen (HLA)-matched sibling donor for allogeneic hematopoietic stem cell transplant.

    - This indication is approved under accelerated approval based on increase in neutrophil CD18 and CD11a surface expression. Continued approval may be contingent upon verification and description of clinical benefit in a confirmatory trial(s).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The efficacy of Kresladi was evaluated in one open-label, single-arm, multicenter study in 9 pediatric patients with molecularly confirmed ITGB2-associated severe LAD-I. Severe LAD-I was defined as having neutrophil CD18 expression <2% or CD11a and/or CD11b expression <2% (if neutrophil CD18 expression ≥2%), documented biallelic ITGB2 mutations, and clinical history consistent with severe LAD-I or a known family history. Patients with an available HLA-identical sibling donor for allogeneic HSCT were excluded.

    - The surrogate endpoints for efficacy included improvement in CD18 and CD11a surface expression in neutrophils at Month 12 and sustained expression through Month 24 post-infusion.

    - Seven out of 9 patients had baseline neutrophil CD18 expression <2% and thus were evaluable for post-treatment CD18 assessment. CD18 expression increased in all 7 patients after Kresladi infusion with median CD18 surface expression at Month 12 and Month 24 post-infusion of 54% (range: 20% to 87%) and 50% (range: 16% to 82%), respectively. Neutrophil CD18 expression was sustained through at least Month 42 post-infusion in all 7 patients.

    - Neutrophil CD11a surface expression increased after Kresladi infusion in all 9 patients. Median CD11a surface expression at Month 12 and Month 24 post-infusion were 45% (range: 18% to 75%) and 39% (range: 17% to 65%), respectively. Neutrophil CD11a surface expression was sustained through at least Month 42 post-infusion in all 9 patients.

    - Increases in neutrophil CD18 and CD11a cell surface expression reflect improved function of a protein complex of the two biomarkers on the surface of neutrophils which is used as a surrogate endpoint that is reasonably likely to predict clinical benefit in LAD-I for accelerated approval. The clinical benefit of Kresladi will be confirmed in patients with severe LAD-I through post-marketing requirements. Rocket Pharmaceuticals stated that FDA guidance on the path from accelerated to full approval involves the continued long-term follow-up of the original clinical trial and evaluation of real-world experience with Kresladi.

- The plan considers cellular and gene therapies to be proven effective to treat a condition if the following are true: the drug has full FDA approval that was not obtained under the FDA's accelerated approval pathway and the drug met all of its primary endpoint(s) in its pivotal trials, or if confirmatory trials were required, the drug met its primary endpoint(s) in its confirmatory trial(s). Cellular and gene therapies that haven't been proven effective (do not meet the listed criteria) are considered a benefit contract exclusion for most plans.

- Kresladi was approved under the FDA's accelerated approval pathway, and therefore, is considered experimental/investigational until further confirmatory trials are complete and the medication gets full FDA approval.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Kresladi [prescribing information]. Cranbury NJ: Rocket Pharmaceuticals, Inc.; March 2026.
2. Rocket Pharma News Release Details. Rocket Pharmaceuticals Announces FDA Approval of KRESLADI™ for Pediatric Patients with Severe Leukocyte Adhesion Deficiency-I (LAD-I). March 27, 2026 https://ir.rocketpharma.com/news-releases/news-release-details/rocket-pharmaceuticals-announces-fda-approval-kresladitm/
3. U.S. Food && Drug Administration. FDA News Release. FDA approves first gene therapy for severe leukocyte adhesion deficiency type I. March 26, 2026. https://www.fda.gov/news-events/press-announcements/fda-approves-first-gene-therapy-severe-leukocyte-adhesion-deficiency-type-i
4. Justiz Vaillant AA, Ahmad F. Leukocyte Adhesion Deficiency. [Updated 2023 Jul 3]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK539770
5. National Library of Medicine. A clinical trial to evaluate the safety and efficacy of RP-L201 in subjects with leukocyte adhesion deficiency-I. ClinicalTrials.gov. Study Details | A Clinical Trial to Evaluate the Safety and Efficacy of RP-L201 in Subjects With Leukocyte Adhesion Deficiency-I | ClinicalTrials.gov
6. Etzioni A, Leukocyte-adhesion deficiency. UpToDate. Literature current through Dec.2023; accessed January 2024. https://www.uptodate.com/contents/leukocyte-adhesion-deficiency?search=leukocyte
7. Johnson V. Rocket's LAD-I gene therapy BLA accepted for priority review. CGTlive. October 2, 2023. https://www.cgtlive.com/view/rocket-lad-i-gene-therapy-bla-rp-l201-priority-review

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 06/11/2026</td><td>New Drug Review</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/01/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 04/06/2026</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Krystexxa® (pegloticase)
HCPCS: J2507

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Gout is an inflammatory arthritis that results from hyperuricemia, which contributes to crystallization of monosodium urate monohydrate in the joints. It is one of the most common rheumatic diseases of adulthood with significant morbidity attributed to gout flares (i.e. severe pain, reduced quality of life, decreased physical function).

- One of the mainstays of gout treatment is patient education on diet, lifestyle modifications, and management of comorbidities with a goal of decreasing the risk and frequency of acute gout attacks and lowering serum urate levels. Dietary modifications include limiting consumption of purine-rich meat and seafood, alcohol, and beverages sweetened by high-fructose corn syrup, and encouraging the consumption of vegetables and low-/non-fat dairy products. Elimination of non-essential medications that may induce hyperuricemia should also be considered.

- The American College of Rheumatology (ACR) guidelines for the management of gout (2020) strongly recommend the use of pharmacologic urate-lowering therapy (ULT) in gout patients with any of the following:

    - ≥ 1 subcutaneous tophi

    - Evidence of radiographic damage attributable to gout (i.e., gouty arthropathy)

    - Frequent gout flares defined as ≥ 2 flares annually.

- A target-to-treat strategy is strongly recommended for all patients receiving ULT to optimize patient outcomes by achieving and maintaining a serum urate target of < 6 mg/dL. Dose titration and subsequent dosing should be individualized to the patient and guided by serial serum urate values to achieve the target level as opposed to utilizing a fixed standard-dose strategy for ULT.

- Per the updated guidelines, allopurinol, a xanthine oxidase inhibitor (XOI), is the preferred first-line treatment option for all patients requiring ULT, including those with moderate-to-severe chronic kidney disease (CKD) stage > 3. This recommendation is based on allopurinol's efficacy, safety, tolerability, and low cost. Treatment should be initiated with a lower starting dose (< 100 mg per day) to mitigate safety issues and gradually titrated to a target serum urate (SU) level of < 6 mg/dL, not to exceed a maximum of 800 mg per day.

- If despite initial treatment with a maximally tolerated or maximally dosed XOI serum urate levels are persistently above target and a patient exhibits continued gout flares (> 2 per year) or has non-resolving subcutaneous tophi, the guidelines conditionally recommend switching to a second XOI (i.e. febuxostat (Uloric®)) over adding a uricosuric agent.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - The conditional recommendation is due to the fact that no studies directly address the choice of switching to another xanthine oxidase inhibitor or adding a uricosuric agent (e.g., probenecid) when the ULT strategy requires a change.

  - The guidelines strongly recommend initiating febuxostat therapy with a low dose (< 40 mg/day), with subsequent dose titration guided by serum urate levels to a target of < 6 mg/dL, up to a maximum of 80 mg per day.

  - Febuxostat carries a boxed warning of an increased risk of cardiovascular death in gout patients with established cardiovascular disease. Switching to an alternative oral ULT agent is conditionally recommended by the guidelines for patients taking febuxostat with a history of cardiovascular disease (CVD) or a new CVD-related event if available and consistent with other guideline recommendations.

- The 2020 ACR guidelines did not include a formal vote on the indications for uricosuric agents like probenecid; however, they do concur with the 2012 guidelines that add-on therapy with a uricosuric agent to partially responsive XOI treatment can result in improved control of serum urate as demonstrated in several studies of lesinurad added to XOI therapy. Additionally, literature supports the use of probenecid as monotherapy if there is a contraindication or intolerance to XOIs as it provides an alternative mechanism for the treatment of gout. Of note, treatment with uricosuric agents like probenecid should be avoided in patients with a history of nephrolithiasis or moderate-to-severe CKD (stage > 3).

- Patients with gout for whom treatment with XOI, uricosurics, and other interventions have failed to achieve target serum urate levels, and who continue to have frequent gout flares (≥2 per year) or who have non-resolving subcutaneous tophi are strongly recommended to switch to pegloticase (Krystexxa), an intravenously administered PEGylated uric acid specific enzyme indicated for the treatment of chronic gout in adult patients refractory to conventional therapy. Per the guidelines, Krystexxa is strongly recommended against in the following situations:

  - As first-line therapy, in accordance with FDA approved labeling.

  - For patients with gout who have persistently elevated serum urate levels above target despite maximally tolerated treatments and interventions but have infrequent gout flares (< 2 per year) and no tophi.

- The safety and efficacy of Krystexxa was studied in two replicate randomized, double-blind, placebo-controlled, Phase III trials each conducted over 6 months (i.e. GOUT1 and GOUT2). Krystexxa demonstrated a significantly greater plasma urate lowering response (i.e. SU < 6mg/dL) than placebo, thereby meeting the primary endpoint of the studies. Patients involved in the trial had a baseline serum uric acid of 8.0 mg/dL or greater, had a contraindication to allopurinol or failed to normalize uric acid levels with the maximum appropriate dose of allopurinol, and had at least one of the following:

  - ≥ 3 gout flares in the previous 18 months

  - ≥ 1 tophus

  - Gouty arthropathy, defined clinically or radiographically as joint damage due to gout.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Krystexxa's labeling was expanded in 2022 to allow co-administration with methotrexate based on the MIRROR randomized controlled trial, which showed significant improvement and sustained patient response to Krystexxa with methotrexate 15 mg/week compared to Krystexxa alone. The addition of immunomodulatory therapies like methotrexate is often done with biologics to reduce the risk of anti-drug antibody development, which can blunt clinical response to treatment. Data from MIRROR showed that adding weekly methotrexate to Krystexxa yielded a greater than 30 percentage point increase in efficacy ($p<0.0001$) and a significant reduction in infusion reactions from 31% with Krystexxa alone down to 4%.

- Consistent with the FDA approved labeling, Krystexxa should not be used concomitantly with oral urate-lowering therapies. The risk of infusion reactions, including anaphylaxis, is higher in patients who have lost therapeutic response to Krystexa. Co-administration with oral urate-lowering therapies may mask any potential loss of efficacy. Additionally, Krystexxa has not been evaluated to treat asymptomatic hyperuricemia or hyperuricemia not associated with gout.

References:

1. 2012 American College of Rheumatology Guidelines for Management of Gout. Part 1: Systematic Nonpharmacologic and Pharmacologic Therapeutic Approaches to Hyperuricemia. Arthritis care and Research. Vol 64, No. 10, October 2012: 1431-1446.
2. Becker MA, Schumacher HR, MacDonald PA et al. [abstract] Clinical efficacy and safety of successful long-term urate lowering with febuxostat or allopurinol in subjects with gout. J Rheum 2009 Jun; 36 (6): 1273-82.
3. Chao J, Terkeltaub R. [abstract] A critical reappraisal of allopurinol dosing, safety, and efficacy for hyperuricemia in gout. Curr Rheum Rep 2009 Apr; 11(2): 135-40.
4. Edwards Lawrence. Treatment-failure gout: A moving target. Arth & Rheum; 58 (9): 2587-2590.
5. Fitzgerald JD, et al. 2020 American College of Rheumatology Guideline for the Management of Gout. Arthritis Care and Research. Vol. 72, No. 6, June 2020:744-760.
6. Krystexxa™ (pegloticase) [package insert]. Savient Pharmaceuticals. July 2022.
7. Manufacturer press release. FDA Approves KRYSTEXXA® (pegloticase) Injection Co-Administered With Methotrexate, Expanding the Labeling to Help More People with Uncontrolled Gout Achieve a Complete Response to Therapy. July 8, 2022. Available at: FDA Approves KRYSTEXXA® (pegloticase) Injection Co-Administered With Methotrexate, Expanding the Labeling to Help More People with Uncontrolled Gout Achieve a Complete Response to Therapy
8. Perez-Ruiz F. Pharmacologic urate-lowering therapy and treatment of tophi in patients with gout. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed May 10, 2021).
9. Reinders M, Jansen TL. New advances in the treatment of gout: review of pegloticase. Ther and Clin Risk Mgt 2010; 6: 543-550.
10. Sundy J, Baraf H, Yood R et al. Efficacy and tolerability of pegloticase for the treatment of chronic gout in patient's refractory to conventional treatment. JAMA 2011; 306 (7): 711-720.
11. Tilleman JA, et al. Urate-Lowering Therapy for the Prevention and Treatment of Gout Flare. US Pharm. 2017;42(3):33-37.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.4</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.3</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.2</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.1</td><td>Effective Date: 06/08/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.0</td><td>Effective Date: 06/09/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 06/10/2021</td><td>Policy updated to align with 2020 ACR guidelines for management of gout
Criteria changes for the following:
Number of flares per year
Serum uric acid requirement
Change t/f of allopurinol to t/f of any XOI
Removal of dose requirement to instead reflect maximally tolerated or maximally titrated dose
Probenecid use in combination with any XOI, not just allopurinol</td></tr>
<tr><td>1.8</td><td>Effective Date: 8/13/2020</td><td>Addition of preferred drug step; changed baseline serum uric acid requirement to reflect population studied in the trial. Updated supporting information.</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/15/2019</td><td>Removal of Uloric from step therapy and change in step therapy, addition of not taking urate-lowering therapies and lifestyle modification</td></tr>
<tr><td>1.6</td><td>Effective Date: 05/09/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.5</td><td>Effective Date: 05/03/2018</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.4</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 05/04/2017</td><td>Changes: Annual Review/Medicare Disclaimer added</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/11/2016</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 04/01/2014</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/2011</td><td>New Drug Review. UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kymriah™ (tisagenlecleucel)
HCPCS: Q2042

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.

    - Kymriah is indicated for patients up to 25 years of age with B-cell precursor acute lymphoblastic leukemia that is refractory or in second or later relapse. It is also approved for use in adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy including DLBCL not otherwise specified, high-grade B-cell lymphoma, and DLBCL arising from follicular lymphoma. It is not indicated for treatment of patients with primary central nervous system lymphoma.

    - Safety and efficacy was established in two studies. The first was the ELIANA trial, an open-label, multicenter single-arm study of 107 pediatric and young adult patients with relapsed/refractory B-cell precursor ALL. All patients were screened, 88 were enrolled in the study, 68 were treated with CAR-T, and 63 were evaluable for efficacy. Nine percent of the enrolled subjects did not receive the product due to manufacturing failure. Treatment consisted of lymphodepleting chemotherapy (fludarabine 30 mg/m2 daily for 4 days and cyclophosphamide 500 mg/m2 daily for 2 days) followed by a single dose of Kymriah. Tumors must have had CD19 expressing tumor cells. Patients were included if they were primary refractory defined as not achieving a complete response after 2 cycles of a standard chemotherapy regimen or chemo refractory as defined by not achieving a complete response after 1 cycle of standard chemotherapy for relapsed leukemia; has Philadelphia chromosome positive (Ph+) ALL and were intolerant to or failed 2 lines of tyrosine kinase inhibitor therapy (TKI) or if TKI therapy was contraindicated; they were ineligible for allogeneic stem cell transplant (SCT); or had any bone marrow (BM) relapse after allogenic SCT. Patients were excluded if they had Burkitt's lymphoma, active hepatitis B or C, any uncontrolled infection, grade 2 to 4 graft-versus-host disease, concomitant genetic syndrome with the exception of Down's syndrome, or if they have received allogeneic cellular therapy, such as donor lymphocyte infusion within 6 weeks prior to Kymriah infusion. Efficacy was based on complete remission (CR) within 3 months after infusion, the duration of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

CR, and proportion of patients with CR and minimal residual disease (MRD) < 0.01% by flow cytometry (MRD-negative). Among the 63 infused patients, 52 (83%) achieved CR/CRi, all of which were MRD-negative. With a median follow-up of 4.8 months from response, the median duration of CR/CRi was not reached (range: 1.2 to 14.1+ months). Median time to onset of CR/CRi was 29 days with onset of CR/CRi between 26 and 31 days for 50/52 (96%) responders. The stem cell transplantation rate among those who achieved CR/CRi was 12% (6/52).

- Efficacy was also established in the JULIET trial, an open-label, multicenter, single-arm trial of 160 adult patients with relapsed or refractory DLBCL, who received ≥ 2 lines of chemotherapy, including rituximab and anthracycline, or relapsed following autologous hematopoietic stem cell transplantation (HSCT). Of the160 patients enrolled, 106 patients received Kymriah. Eleven patients enrolled did not receive Kymriah due to manufacturing failure and 38 other patients did not receive Kymriah due to death (n = 16), physician decision (n = 16), or adverse events (n = 3). Patients with active central nervous system malignancy, prior allogenic HSCT, an ECOG performance status ≥ 2, a creatinine clearance < 60, alanine aminotransferase > 5 times normal, cardiac ejection fraction < 45%, or absolute lymphocyte concentration less than 300/μL were excluded from the study. The primary endpoints were complete response (CR) rate and duration of response (DOR). The median time to first response was 0.9 months (range: 0.7 to 3.3 months). The median duration of response was not reached. Response durations were longer in patients who achieved CR as compared to patients with a best response of partial response (PR). Of the 22 patients who experienced a CR, 9 achieved this status by 1 month, 12 more by month 3, and the last by month 6 after Kymriah infusion.

- Efficacy and safety were established for follicular lymphoma in the ELARA trial, a phase II, single-arm, multicenter, open-label trial of 94 adult patients with relapsed/refractory follicular lymphoma after at least two prior therapies. Patients were excluded from the study if they had active central nervous system malignancy, prior allogenic HSCT, an ECOG performance status ≥ 2, transformed FL, or histological grade 3b FL. To be included, patients had to have measurable disease. The primary endpoint was complete response rate. The CR rate was 69% (95% CI, 60-78). Overall response rate (ORR) was 86% (95% CI, 78-92) with a 12-month progression-free survival (PFS) of 67% (95% CI, 56-76) and nine-month DOR was 76% (95% CI, 65-84). For patients who had a complete response, 12-month PFS was 86% (95% CI, 74-92) and the estimated DOR rate was 87% (95% CI, 75-93).

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- While use of Kymriah has not been established in patients with a creatinine clearance of less than 60 mL/minute, other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Kymriah should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 ml/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. While Kymriah has only been studied in patients with a LVEF greater than or equal to 45%, there is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Kymriah should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.

- A provider portal that is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Kymriah [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; December 2025.
2. Clinicaltrials.gov. A phase II, single arm, multicenter trial to determine the efficacy and safety of CTL019 in pediatric patients with relapsed and refractory b-cell acute lymphoblastic leukemia. Available at: https://clinicaltrials.gov/ct2/show/study/NCT02435849. Accessed on August 3, 2017.
3. LaRussa A. Chimeric antigen receptor (CAR) t-cell therapy. 10 Sept. 2015. Available at: www.lls.org/treatment/types-of-treatment/immunotherapy/chimeric-antigen-receptor-car-t-cell-therapy. Access on August 3, 2017.
4. National Comprehensive Cancer Network. Pediatric acute lymphoblastic leukemia (Version 1.2026). 2025 August 11. Available at: https://www.nccn.org/professionals/physician_gls/pdf/ped_all.pdf. Accessed on March 3, 2026.
5. National Comprehensive Cancer Network. Acute lymphoblastic leukemia (Version 2.2025). 2025 June 27. Available at: https://www.nccn.org/professionals/physician_gls/pdf/all.pdf. Accessed on March 3, 2026.
6. National Comprehensive Cancer Network. B-cell lymphomas (Version 2.2026). 2026 March 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on March 3, 2026.
7. Lee DW et al. Current concepts in the diagnosis and management of cytokine release syndrome. Blood. 2014 Jul 10; 124 (2): 188 - 195.
8. Clinicaltrials.gov. A phase II, single arm, multicenter trial to determine the efficacy and safety of CTL019 in adult patients with relapsed or refractory diffuse large b-cell lymphoma (DLBCL). Available at: https://clinicaltrials.gov/ct2/show/NCT02445248. Accessed on August 3, 2017.
9. Clinicaltrials.gov. A phase II, single arm, multicenter open label trial to determine the efficacy and safety of tisagenlecleucel (CTL019) in adult patients with refractory or relapsed follicular lymphoma (NCT03568461). Available at: https://clinicaltrials.gov/ct2/show/NCT03568461?cond=follicular+lymphoma&intr=%22Kymriah%22+OR+%22Tisagenlecleucel-T%22+OR+%22CTL019%22&draw=2&rank=1. Accessed on March 9, 2022.
10. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 6, 2022.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
1.9	Effective Date: 04/15/2026	Updated to remove no prior allogenic stem cell transplant, lymphocyte counts, liver function test, no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, no clinically significant CNS disease, no measureable FL, no transformed FL, and no grade 3b FL. Also added requirements of no active infection and updated the approval length to 6 months
1.8	Effective Date: 06/05/2025	Updated to change the provider portal from Audaire Health to the appropriate provider portal
1.7	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/08/2023	Updated to require physicians to provide clinical outcomes data using the Audaire Health platform
1.5	Effective Date: 08/04/2022	Updated to align criteria across all CAR-T policies and include new indication for use in relapsed/refractory FL
1.4	Effective Date: 04/14/2022	Updated to remove CD19 requirement as NCCN guidelines state CAR-T can work without being positive for CD19 disease and add preliminary criteria for use in relapsed/refractory FL
1.3	Effective Date: 08/12/2021	New policy - this policy replaces previously approved criteria that was embedded in Chimeric Antigen Receptor-T Cell Class policy which will be retired
1.2	Effective Date: 03/08/2018	UM medical management system update for BCNA and MAPPO

Line of Business	**PA Required in Medical Management System (Yes/No)**
BCBS	Yes
BCN	Yes
MAPPO	Yes
BCNA	Yes

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 12/01/2017</td><td>UM medical management system update for BCBS

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/09/2017</td><td>UM medical management system update for BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Lamzede® (velmanase alfa-tycv)
HCPCS: J0217

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Alpha-mannosidosis is an ultra-rare genetic lysosomal storage disorder that begins in childhood and progresses through adulthood. It is caused by a mutation on the MAN2B1 gene resulting in a deficiency of alpha-mannosidase and the body not being able to breakdown α-mannosyl rich N-linked oligosaccharides. The prevalence is estimated to be 1 in every 500,000 people in the general population.

- The symptoms, progression and severity of alpha-mannosidosis vary widely from one person to another, including between siblings who share the same mutation. Alpha-mannosidosis represents a spectrum or continuum of disease and is highly individualized. The disorder is generally broken down into three separate subtypes: mild (type 1), moderate (type 2), and severe (type 3).

1. The mild form may not be evident until the teen years and progresses slowly. Symptoms typically include muscle weakness and skeletal abnormalities are usually not present. A person with type 1 may have normal cognitive and physical development, however, even this later-onset form may be accompanied by mild to moderate intellectual disability. In some cases, the clinical progression of the disease appears to slow down or stop as the affected individual grows beyond school age.

2. In the moderate form of the disorder, signs of skeletal abnormalities and muscle weakness may appear before ten years of age and progress slowly. Type 2 also may be characterized by distinctive facial features including widely spaced or unevenly developed teeth, macroglossia, prominent forehead, flattened nasal bridge, and prognathism. Abnormalities affecting the eyes may include strabismus, opacity of the cornea, and farsightedness. Ataxia may develop by the age of 20-30.

3. The severe form begins within the first year of life. In most cases, infants appear normal at birth, but the condition grows progressively worse. Type 3 alpha-mannosidosis is characterized by rapid progression of intellectual disability, hydrocephalus, progressive ataxia, hepatosplenomegaly, skeletal abnormalities, and coarse facial features.

- The 2019 diagnostic algorithm for the recognition of alpha-mannosidosis in pediatric and adult patients states analysis of oligosaccharides in urine can be considered as an initial screening procedure. An abnormal result in the measurement of the biomarker is to be considered suggestive of the disease but not sufficient for a definite diagnosis. The determination of enzymatic activity is considered the first choice for screening. Alpha-mannosidosis is confirmed when patients have a biochemical assay showing decreased alpha-mannosidase activity in white blood cells or skin fibroblasts less than 10% of normal and genotyping revealing two pathogenic mutations of the MAN2B1 gene.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Lamzede is an enzyme replacement therapy for the treatment of non-central nervous system manifestations of alpha-mannosidosis in adult and pediatric patients. Prior to Lamzede's approval, therapy was supportive and focused on preventing emerging complications, such as, hydrocephalus, otitis media, hearing loss, dental caries, joint symptoms, and kyphoscoliosis. There are studies regarding the use of HSCT in patients with outcomes reported as variable with mixed reports on the neurocognitive impact of the therapy. In 2004, results were published for four patients, aged 3 to 23 years, who had undergone HSCT, suggesting that intellectual function in these patients stabilized with improvement in adaptive skills and verbal memory function. Transplant-related complications are more frequent and severe in older patients, which means HSCT is more of an option in the first years of life making early identification of affected patients critical. Lamzede has not been studied in patients who have undergone a HSCT.

References:

1. Lamzede [prescribing information]. Cary, NC: Chiesi USA, Inc.; February 2023.
2. Lund AM, Borgwardt L, Cattane F, et al. Comprehensive long-term efficacy and safety of recombinant human alpha-mannosidase (velmanase alfa) treatment in patients with alpha-mannosidosis. J Inherit Metab Dis. 2018 Nov; 41 (6): 1225 – 33.
3. National Organization of Rare Diseases. Alpha-mannosidosis. 2018. Available at: https://rarediseases.org/rare-diseases/alpha-mannosidosis/. Accessed on February 20, 2023.
4. Guffon N, Tylki-Szymanska A, Borgwardt L, et al. Recognition of alpha-mannosidosis in pediatric and adult patients: presentation of a diagnostic algorithm from an international working group. Mole Gen & Metab. 2019; 126: 470 – 4.
5. Chiesi. Discover alpha mannosidosis. 2022. Available at: https://www.alphamannosidosis.com/en/for-healthcare-professionals/disease-information/disease-progression/. Accessed on February 20, 2023.
6. Grewal SS, Shapiro EG, Krivit W, et al. Effective treatment of alpha-mannosidosis by allogeneic hematopoietic stem cell transplantation. J Pediatr. 2004; 144: 569 – 73.

Policy History		
#	Date	Change Description
1.6	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made
1.5	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
1.4	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 05/01/2023</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 04/06/2023</td><td>New policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 03/09/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/02/2023</td><td>Preliminary drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Lantidra™ (donislecel-jujn)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- T1D affects nearly 1.9 million people in the united States. It is characterized by the autoimmune-mediated loss of insulin-producing β-cells within the islets of Langerhans in the pancreas and results in a complete deficiency of insulin, which can cause potentially life-threatening conditions like hyper and hypoglycemia, ketoacidosis, and dehydration.

- Of the total population with T1D in the United States, fewer than 80,000 are affected with a rare subset of T1D that is termed "brittle" diabetes. Brittle T1D is particularly difficult to treat as it is characterized by severe instability of blood glucose levels with frequent and unpredictable hypoglycemic episodes that often necessitate hospitalization. These patients have difficulty managing the amount of insulin needed to prevent hyperglycemia without causing frequent episodes of hypoglycemia. Their hypoglycemic episodes are often severe and may contribute to hypoglycemic unawareness, a hallmark of brittle T1D that can make the condition worse as the patient becomes unable to detect drops in blood sugar and may not be able to treat themselves to prevent blood glucose from further dropping. Hypoglycemia unawareness and severe hypoglycemia can lead to injuries resulting from loss of consciousness or seizures and can even be fatal.

- Secondary complications of diabetes like neuropathy, cardiovascular disease, and retinopathy can be common in brittle T1D due to lack of effective glucose control despite intensive insulin therapy, and these patients with difficult-to-treat diabetes exhibit a significant excess mortality.

- The most effective means of preventing or reducing symptoms and chronic complications of T1D is keeping blood glucose levels tightly controlled with insulin therapy. The American Diabetes Association (ADA) Standards of Medical Care in Diabetes (2025) recommends that most individuals with T1D should be treated with multiple daily injections (MDI) of prandial and basal insulin, or continuous subcutaneous insulin infusion (i.e., an insulin pump). There is no consensus to guide choosing which form of insulin administration is best for a given individual; therefore, the choice of MDI or an insulin pump is based on the needs of the patient. MDI and insulin pump therapy are considered by the ADA to be intensive insulin therapy. Evidence supports intensive insulin therapy as providing the best combination of effectiveness and safety for people with T1D, and the Diabetes Control and Complications Trial (DCCT) demonstrated that intensive therapy with MDI or an insulin pump reduced A1C and was associated with improved long-term outcomes.

- Intensive therapy has been associated with higher rates of severe hypoglycemia and hypoglycemia unawareness. The ADA recommends a target A1c goal for most nonpregnant adults of <7% without significant hypoglycemia, and that healthcare professionals consider de-intensifying therapy as appropriate to reduce hypoglycemia risks if this A1c target is too stringent and is limited by hypoglycemia.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Level 1 hypoglycemia is defined as a measurable glucose concentration < 70 mg/dL but ≥ 54 mg/dL. Level 2 hypoglycemia is defined as blood glucose concentration < 54 mg/dL and is the threshold at which neuroglycopenic symptoms (e.g., warmth, weakness, difficulty thinking/confusion, tiredness/drowsiness) begin to occur and requires immediate action to resolve the event. Patients with level 2 hypoglycemia without adrenergic symptoms (e.g., sweating, hunger, tingling, shakiness, tachycardia, anxiety) or neuroglycopenic symptoms likely have hypoglycemia unawareness. Level 3 hypoglycemia is a severe event characterized by altered mental and/or physical functioning requiring assistance from another person for recover.

- The ADA recommends insulin-treated patients with hypoglycemia unawareness, one level 3 hypoglycemic event, or a pattern of unexplained level 2 hypoglycemia should be advised to raise glycemic targets to avoid hypoglycemia, to partially reverse hypoglycemia unawareness, and reduce risk of future episodes. Recurrent level 2 and/or level 3 hypoglycemia is considered an urgent medical issue that requires intervention with a treatment plan adjustment, behavioral intervention, and possibly the use of technology to assist in identifying and preventing the hypoglycemia.

- In recent years there have been significant advances in diabetes technology to aid in establishing tight glycemic control and minimizing hypoglycemia risk beyond optimizing the traditional self-administration of insulin and self-monitoring of blood glucose. The most commonly utilized diabetes technology includes continuous glucose monitoring (CGM) devices, insulin pumps, and automated insulin delivery (AID) systems. Per the ADA, the type(s) and selection of devices should be individualized based on a person's specific needs, preferences, and skill level.

- Monitoring blood glucose is integral to effective therapy to both monitor for and prevent hypoglycemia and hyperglycemia. Specific needs and goals are individualized to the patient and should guide decisions behind glucose monitoring, including consideration of continuous glucose monitoring (CGM) use. The 2025 Standards of Care recommend that people with diabetes should be offered any type of diabetes device (e.g., insulin pens, glucose meters, CGM or AID systems) and emphasize the need to start CGM early in T1D to promote early achievement of goals. Per the ADA, CGM should be offered for diabetes management in adults on intensive insulin therapy (i.e., MDI or insulin pump) who are capable of using the device safely, and choice of device is individualized to the patient. Sensor-augmented CGM and CGM-assisted pump therapy are available and provide alarm-based prevention of hypoglycemia. Evidence has shown that CGM appears useful in decreasing the time spent in hypoglycemic range in patients with impaired awareness.

- The ADA Standards recommend AID systems be offered for diabetes management to both children and adults with T1D who are capable of using the device safely, and the choice of device is based on the individual's circumstances, preferences, and needs. These devices increase and decrease insulin delivery based on sensor-derived glucose levels to mimic natural insulin delivery. AID systems consist of an insulin pump, a CGM device, and an algorithm for calculating insulin delivery. Basal insulin is adjusted in real time and some systems may also deliver automatic correction doses.

- For children and adults with T1D on MDI who are not able to use or who do not choose an AID system, the ADA recommends offering insulin pump therapy alone with or without sensor-augmented pump low glucose suspend feature and/or AID systems. Insulin pumps deliver rapid-acting insulin throughout the day to manage blood glucose levels and have a modest advantage for lowering A1c and reducing severe hyperglycemia rates in children and adults. Sensor-augmented pumps suspend

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

insulin when glucose is low or are predicted to go low within the next half hour and offer an opportunity to reduce hypoglycemia. AID systems are preferred over nonautomated pumps and MDI in patients with T1D.

- The FDA describes AID systems (i.e., a CGM device linked to an insulin pump with the capability to automatically stop, reduce, or increase insulin infusion based on prespecified glucose thresholds) as "artificial pancreas device systems" (APDS). The components are designed to communicate together to automate maintenance of blood glucose concentrations at a specified range or target to minimize the incidence and severity of hypoglycemic and hyperglycemic events. There are different types of APDS that are approved for use and regulated by the FDA:

- Sensor-augmented pump with low glucose suspend and sensor-augmented pumps with predictive low glucose management (e.g., suspend before low). When the device alarms, the user must take an action to assess their glucose level and resume the insulin infusion.

- A control-to-range system, where insulin dosing is adjusted if glucose levels reach or approach predetermined higher and lower thresholds. Patients still need to monitor their blood glucose, set basal rates for their pump, and give premeal bolus insulin.

- A control-to-target system which sets target glucose levels and tries to maintain them at all times. It is a fully automated system that only requires CGM calibration by the user.

- A hybrid "closed-loop" system, which uses automated insulin delivery with continuous basal insulin delivery adjustments; however, mealtime requires the patient to enter their carbohydrates in order for the pump to determine the required bolus meal dose of insulin. A completely "closed-loop" system is not currently marketed in the United States.

- Beyond intensive insulin therapy and the use of the latest diabetes technologies, treatment for patients with difficult-to-treat brittle T1D is limited to whole pancreas transplant as a means of repairing β-cell function, but it carries both surgical and post-procedural risks and may not be appropriate for all T1D patients. Due to potential adverse effects of lifelong immunosuppression post-transplant, the 2025 ADA guidelines recommend reserving pancreas transplant for those with T1D undergoing simultaneous kidney transplant, following kidney transplant, or those with recurrent ketoacidosis or severe hypoglycemia despite intensive glycemic management.

- An alternative to whole pancreas transplantation is allogenic (donor-derived) islet cell transplantation, which is available in the United States as the FDA approved cell therapy Lantidra (donislecel-jujn). Islet cell transplantation has generally been reserved for patients with frequent and severe metabolic complications who have consistently failed to achieve glycemic control with intensive insulin management. Though it may be less-invasive than whole pancreas transplant, surgical and post-procedural risks do still exist and risks must be balanced against the potential benefit for each individual patient.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The FDA approved Lantidra in June 2023 as the first FDA approved allogenic pancreatic islet cell therapy and the first-ever cellular therapy to treat T1D. Lantidra was approved to treat adults with T1D who are unable to approach target HbA1c because of current repeated episodes of severe hypoglycemia despite intensive diabetes management and education. Treatment with Lantidra requires use in conjunction with concomitant immunosuppression. Limitations of use to Lantidra are as follows:

- When considering the risks associated with the infusion procedure and long-term immunosuppression, there is no evidence to show a benefit of administration of Lantidra in patients whose diabetes is well-controlled with insulin therapy or patients with hypoglycemic unawareness who are able to prevent current repeated severe hypoglycemic events (neuroglycopenia requiring active intervention from a third party) using intensive diabetes management (including insulin, devices, and education).

- Repeated intraportal islet infusions are not recommended in patients who have experienced prior portal thrombosis, unless the thrombosis was limited to second- or third-order portal vein branches.

- There is no evidence to support the safe and effective use of Lantidra in patients with liver disease, renal failure, or who have received a renal transplant.

- Approval was based on two prospective, open-label, single-arm studies (Phase I/II UIH-001 and Phase III UIH-002) in which a combined total of 30 adult patients with T1D and hypoglycemic unawareness received at least one infusion and a maximum of three infusions of Lantidra. Patients were required to have a diagnosis of T1D for more than 5 years complicated by reduced awareness of hypoglycemia and/or episodes of severe hypoglycemia that persisted despite intensive insulin management efforts. Severe hypoglycemia was defined as an event with symptoms compatible with hypoglycemia in which the subject required the assistance of another person, and which was associated with either a blood glucose level <50 mg/dL (2.8 mmol/L) or prompt recovery after oral carbohydrate, intravenous glucose, or glucagon administration. Reduced hypoglycemia awareness was reported by the subject and defined by the absence of adequate autonomic symptoms at glucose values < 54 mg/dL. Subjects with a history of previous transplant were excluded from the trial.

- Of the 30 total participants, 11 received one infusion, 12 received two, and 7 received three. Of the 11 who did not receive a second infusion, 4 were insulin-independent, 3 did not have a donor, and 4 were intolerant to immunosuppression or withdrew from the trial within 6 months. All 7 who received a third infusion were insulin-independent. One subject was unable to geta third infusion due to infection.

- Insulin independence, defined as not requiring exogenous insulin to achieve adequate glycemic control, was one of the efficacy endpoints studied and was achieved by about 70% of subjects. Lantidra demonstrated a mean total duration of insulin independence of 5.1 years in study 1 (n = 10) and 3.2 years in study 2 (n = 20).

- In the pooled population, 5 patients had no days of insulin independence. For the remaining 25 who achieved insulin independence, 4 patients (13.3%) were insulin independent for < 1 year, 12 patients (36.7%) for one to five years, and 9 patients for > 5 years.

- The FDA in their evaluation of Lantidra prior to the April 2021 FDA Cellular, Tissue, and Gene Therapies Advisory Committee meeting considered durable insulin independence without evidence of hypoglycemia a stronger demonstration of clinical benefit compared to adequate glycemic control without serious hypoglycemia.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Restoring insulin independence removes the risk of hypoglycemia from exogenous insulin; therefore, for those who have achieved insulin independence, there is a reasonable expectation that severe hypoglycemia would not occur.

- In UIH-001 and UIH-002, changes in severe hypoglycemic event (SHE) occurrence and A1c from baseline at 1 year post last transplant were evaluated as trial endpoints in addition to insulin independence; however, the FDA questioned clinical meaningfulness of the data on these endpoints. Most patients (25/30) did not have a documented SHE in the year prior to their first transplant so an absence in the year after would not represent a change. Additionally, 83% of patients across both trials experienced anemia as a side effect which can falsely lower A1c and affect endpoint interpretation; therefore, there are limitations in being able to demonstrate clinical meaningfulness of A1c improvement from baseline.

- Based on available Lantidra data, the duration of insulin independence cannot be predicted based on the total number of transplants achieved. Additionally, baseline SHE frequency is not predictive of the likelihood of a patient to achieve insulin independence post-Lantidra.

- Lantidra may be administered for up to a maximum of three infusions. To date, there are no data regarding the effectiveness or safety for patients receiving more than three infusions. Per the prescribing information, a second infusion may be performed if the patient does not achieve independence from exogenous insulin within one year of infusion or within one year after losing independence from exogenous insulin after a previous infusion. A third infusion may be performed using the same criteria as for the second infusion.

References:

1. Lantidra [prescribing information]. CellTrans, Inc.; Chicago, IL: June 2023.
2. American Diabetes Association. Statistics About Diabetes. July 28, 2022. Accessed on July 7, 2023. Available at: https://diabetes.org/about-us/statistics/about-diabetes
3. Vantyghem MC, Press M. Management strategies for brittle diabetes. Ann Endocrinol (Paris). 2006 Sep;67(4):287-96. doi: 10.1016/s0003-4266(06)72600-2. PMID: 17072232.
4. Holt RIG, DeVries JH, Hess-Fischl A, Hirsch IB, Kirkman MS, Klupa T, Ludwig B, Nørgaard K, Pettus J, Renard E, Skyler JS, Snoek FJ, Weinstock RS, Peters AL. The Management of Type 1 Diabetes in Adults. A Consensus Report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD). Diabetes Care. 2021 Nov;44(11):2589-2625. doi: 10.2337/dci21-0043. Epub 2021 Sep 30. PMID: 34593612.
5. American Diabetes Association Professional Practice Committee; 7. Diabetes Technology: Standards of Care in Diabetes—2025. Diabetes Care 1 January 2025; 48 (Supplement_1): S146–S166. https://doi.org/10.2337/dc25-S007.
6. American Diabetes Association Professional Practice Committee; 6. Glycemic Goals and Hypoglycemia: Standards of Care in Diabetes—2025. Diabetes Care 1 January 2025; 48 (Supplement_1): S128–S145. https://doi.org/10.2337/dc25-S006.
7. American Diabetes Association Professional Practice Committee; 9. Pharmacologic Approaches to Glycemic Treatment: Standards of Care in Diabetes—2025. Diabetes Care 1 January 2025; 48 (Supplement_1): S181–S206. https://doi.org/10.2337/dc25-S009.
8. Lantidra™ (donislecel) for the treatment of brittle type 1 diabetes mellitus. Cellular, tissue, and gene therapies advisory committee briefing document. April 15, 2021. Accessed on June 30, 2023. Available at: https://www.fda.gov/media/147529/download.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

9. FDA Briefing Document. Cellular, Tissue, and Gene Therapies Advisory Committee Meeting: BLA 125734 Donislecel, Applicant: CellTrans, Inc. April 15, 2021. Accessed on June 30, 2023. Available at https://www.fda.gov/media/147525/download.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 12/4/25</td><td>Annual review of criteria performed, no changes were made for Medicare benefit</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 10/15/2023</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/10/2023</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Leqembi (lecanemab-irmb) **- HCPCS: J0174**
Leqembi Iqlik (lecanemab-irmb) **- HCPCS: J3590**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Alzheimer's disease is a progressive disease, with pathophysiological changes and clinical manifestations occurring along a continuum. It continues to be a growing health crisis worldwide, affecting patients with the disease and their families. Approximately 7.2 million Americans aged 65 years and older are currently living with Alzheimer's dementia. About 5 million individuals 65 years of age and older may have mild cognitive impairment (MCI) due to Alzheimer's disease, presenting as memory loss and confusion that does not interfere with activities of daily living; however, it may also be secondary to other conditions.

- It is estimated that 10-15% of individuals with MCI go on to develop dementia each year. Within 5 years, approximately 32% of patients with MCI due to Alzheimer's disease progress to dementia. The progression from MCI to dementia marks the point at which the symptoms of Alzheimer's disease will have gradually led to behavior and personality changes, a decline in cognitive abilities that interfere with a person's ability to carry out daily activities independently, and eventually more severe loss of mental function and problems recognizing family and friends. Diagnosis of MCI and of Alzheimer's dementia is based on clinical evaluation determining cognitive and functional status and not solely on test scores, with progressive cognitive decline demonstrated on subsequent follow ups with the patient.

    - Historically, only symptomatic therapies have been available for treating Alzheimer's dementia. These agents do not act on the evolution of the disease. Standard medical treatment for Alzheimer's disease dementia includes cholinesterase inhibitors (donepezil, galantamine, rivastigmine) and N-methyl-D-aspartate (NMDA) antagonists (memantine).

    - All cholinesterase inhibitors are approved for use in mild and moderate Alzheimer's dementia, though donepezil and transdermal rivastigmine are also approved to treat severe Alzheimer's dementia. Memantine, however, is not recommended in mild disease and is only approved for patients with moderate to severe Alzheimer's dementia.

- Current research efforts are focused on identifying and treating patients as early as possible for the best chance of slowing or stopping the progression of Alzheimer's disease. The accumulation of amyloid beta plaques is a defining pathophysiological feature of Alzheimer's disease that can be exhibited as early as the MCI stage of disease and potentially even earlier, before symptoms arise; as such, a great deal of research has focused on clearing amyloid beta from the brain early in the disease process in an attempt to affect disease progression.

- The presence of amyloid beta plaques can be confirmed by an amyloid positron emission tomography (PET) scan or a cerebrospinal fluid (CSF) test via lumbar puncture; these are the longest-standing FDA-cleared methods to confirm amyloid pathology. More recently in May 2025, the FDA cleared the first blood-based biomarker (BBM) test to detect amyloid plaques associated with Alzheimer's disease. Confirmation of the presence of amyloid pathology and other Alzheimer's disease biomarkers has not

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

historically been guideline recommended for the diagnosis of Alzheimer's disease at any point in the disease process, and testing for these biomarkers has primarily been used for research and in settings where the use of FDA-approved therapies requires confirmation of their presence.

- Amyloid PET imaging uses a class of radiopharmaceuticals that detect levels of amyloid in the human brain; examples of such radiopharmaceuticals include Amyvid™ (florbetapir F18), Neuraceq™ (florbetaben F18) and Vizamyl™ (flutemetamol F18). These scans can be interpreted as positive (elevated amyloid) or negative (non-elevated amyloid).If the amyloid PET is positive with abnormal amyloid beta pathology present, cognitive and/or functional testing is necessary to assist in confirming and staging Alzheimer's disease. A positive amyloid PET alone is not diagnostic of Alzheimer's disease.

- CSF testing measures beta-amyloid, specifically beta-amyloid 1-42 which is a marker of amyloid plaques, and total-tau (tTau) and phosphorylated-tau (pTau181) which are markers of neurofibrillary tangles and provide insight into the intensity of neurodegeneration. CSF testing can be useful in differential diagnosis of Alzheimer's disease and other causes of cognitive impairment. In contrast to amyloid PET scans which are typically high cost and limited in availability, the use of CSF assays offers the potential to provide a more affordable and more accessible option to verify amyloid pathology in the brain, as well as detection of both amyloid and tau biomarkers at once.

    - Elevated CSF levels of tTau and pTau181 are associated with faster progression of cognitive decline.

    - There are currently three CSF tests cleared by the FDA for the evaluation of Alzheimer's disease: 1) Lumipulse® G β-Amyloid Ratio (1-42/1-40) test, 2) Elecsys® beta-Amyloid (1-42) CSF II (Abeta42) and Elecsys® Phospho-Tau (181P) CSF (pTau181) assays (used as a pTau181/Abeta42 ratio), and 3) Elecsys® beta-Amyloid (1-42) CSF II (Abeta42) and Elecsys® Total-Tau (tTau)CSF assays (used as a tTau/Abeta42 ratio). Refer to Appendix 1 for additional information regarding these tests.

    - As with the amyloid PET, a positive result on CSF test alone is not diagnostic of Alzheimer's disease.

- BBM tests for Alzheimer's disease pathology provide a less invasive, more accessible alternative to amyloid PET and CSF testing. To date, there are two FDA approved BBM tests for Alzheimer's disease: Lumipulse G pTau217/β-Amyloid 1-42 Plasma Ratio and Elecsys pTau181 plasma test. Refer to Appendix 2 for additional information.

    - The Lumipulse G pTau217/β-Amyloid 1-42 Plasma Ratio is approved for the early detection of amyloid plaques associated with Alzheimer's disease in adults aged 50 years and older exhibiting signs and symptoms of the disease. The test is intended for patients presenting in specialized care settings with demonstrable symptoms and signs of cognitive decline and, as with amyloid PET and CSF testing, must be interpreted in conjunction with other clinical information.

        - A clinical study comparing the Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio with amyloid PET scan or CSF test results showed 91.7% of individuals with Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio positive results had the presence of amyloid plaques by PET scan or CSF test, and 97.3 % of individuals with negative results had a negative amyloid PET scan or CSF test result. Based on this, the FDA found that the Lumipulse G pTau217/ß-Amyloid 1-42 Plasma Ratio is substantially equivalent to the Lumipulse G β-amyloid Ratio (1-42/1-40) CSF test.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In October 2025, the FDA approved Roche's Elecsys pTau181 plasma test, the only BBM test indicated to aid in the initial assessment of AD and other causes of cognitive decline in the primary care setting. It is approved for patients 55 years of age and older presenting with signs, symptoms, or complaints of cognitive decline. The test measures pTau 181 protein, one of the key markers of amyloid plaque and tau aggregate pathology, and is intended to rule out AD-related pathology in conjunction with other clinical information and assessments.

    - FDA clearance of Elecsys pTau181 was supported by a non-interventional clinical study in an early disease-stage, low-prevalence population reflective of what is commonly seen in primary care. Among the 312 participants, the test ruled out Alzheimer's pathology with a 97.9% negative predictive value.

- The Alzheimer's Association's clinical practice guideline on the use of blood-based biomarkers in the diagnostic workup of suspected Alzheimer's disease within specialized care settings (2025) recommends the following in patients with objective cognitive impairment presenting for specialized memory-care. They do not endorse specific tests and caution that there is significant variability in diagnostic test accuracy and many commercially available BBM tests do not meet the recommended thresholds.

    - Using a BBM test with >90% sensitivity and >75% specificity for initial triage in the diagnostic workup of AD (conditional recommendation, low certainty evidence). A negative finding rules out amyloid pathology and a positive result requires confirmatory testing with amyloid PET or CSF biomarker analysis.

    - Using a high-sensitivity (> 90%) and high-specificity (> 90%) BBM test as a confirmatory test in the diagnostic workup of Alzheimer's disease (conditional recommendation, low certainty evidence). BBM testing that meets these thresholds may serve as a substitute for amyloid PET imaging or CSF biomarker testing. Negative results rule out AD pathology while positive results rule in AD pathology.

- Updated criteria for the diagnosis and staging of Alzheimer's disease from the Alzheimer's Association Workgroup (2024) and the Alzheimer's Association's clinical practice guideline on the use of blood-based biomarkers in the diagnostic workup of suspected Alzheimer's disease within specialized care settings (2025) support a biologically based diagnosis of Alzheimer's disease using the above biomarkers, with the caveat that their use in clinical settings is for the evaluation of symptomatic individuals, and not those who are cognitively unimpaired. Additionally, the guidelines acknowledge that though the presence of abnormal biomarkers may be sufficient to confirm Alzheimer's pathology in a symptomatic individual, it should not preclude a clinician from exercising their clinical judgment and searching for other contributors to the patient's symptoms.

- Amyloid pathology can also be found in both cognitively unimpaired adults and in patients with other neurodegenerative disorders; therefore, a positive amyloid PET and/or CSF result alone may be insufficient to establish a diagnosis of Alzheimer's disease or other cognitive disorders. Results from these tests should be interpreted in tandem with other clinical diagnostic evaluations, including cognitive and/or functional testing.

- Validated mental and functional status exams are important tools for assessing cognitive and behavioral functions and measuring activities of daily living and are frequently used when screening older adults for MCI or dementia. They represent a portion of the necessary workup for cognitive impairment or dementia and, like biomarker evaluations, should be interpreted in the context of other clinical information prior to finalizing a diagnosis. Two of the most widely used mental status scales include the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Mini-Mental State Examination (MMSE) and the Montreal Cognitive Assessment (MoCA), while the Functional Activities Questionnaire (FAQ) is a commonly used functional status exam.

  - The MMSE evaluates temporal and spatial orientation, memory, attention/concentration, language, and visuospatial function. It is scored on a 30-point scale with scores <24 typically regarded as abnormal and indicative of cognitive impairment. Of note, age, education, and race/ethnicity have been shown to affect MMSE scores and should be considered when evaluating an individual patient.

  - The MoCA includes a broader range of cognitive domains, particularly executive abilities, and is able to detect more subtle cognitive deficits that characterize MCI. It evaluates delayed word recall, visuospatial/executive function, language, attention/concentration, and orientation. The MoCA is also scored on a 30-point scale, with scores of 18-25 suggestive of MCI. The cut-off score of 18 is usually considered to separate MCI from Alzheimer's disease, though there is overlap in the scores as AD is determined by the presence of cognitive impairment as well as the loss of functional independence.

  - The FAQ is a subjective 10-item scale that assesses a patient's functional abilities, specifically instrumental activities of daily living (IADL; e.g., preparing meals, performing chores, running errands, traveling outside of one's neighborhood, keeping track of finances). Per-item scores range from 0-3, with higher scores indicating greater functional impairment. There is no established cut-off score for IADL impairment, though a cut point of 9 (i.e., dependent in 3 or more activities) is recommended to indicate impaired function and possible cognitive impairment. The total FAQ score may be useful in differentiating MCI and mild Alzheimer's dementia.

- The Clinical Dementia Rating Scale (CDR) is another validated clinical instrument used to assess and standardize Alzheimer's disease staging that is most often used in research settings and is commonly used to stage dementia progression over time. It is derived from the scores in each of six different categories, or "box scores": memory, orientation, judgment, community affairs, home hobbies, and personal are. Memory is considered the primary category while all others are secondary. According to the CDR Global scores, Alzheimer's disease stages can be defined as unimpaired cognition (CDR Global = 0), MCI due to Alzheimer's (CDR Global = 0.5), mild Alzheimer's dementia (CDR Global = 1), moderate Alzheimer's dementia (CDR Global = 2), and severe Alzheimer's dementia (CDR = 0.3). If the memory box score is 0.5, the CDR Global score can only be 0.5 or 1.

- Ruling out other conditions with similar presentation is essential during diagnostic workup for a patient being evaluated for Alzheimer's disease. Examples of situations where a diagnosis of Alzheimer's disease may be unlikely are listed below; these examples are not all-inclusive. Additionally, when feasible and medically appropriate, patients should be weaned from medications that may contribute to cognitive impairment.

  - Evidence of concomitant cerebrovascular disease, defined by a history of stroke temporally related to the onset or worsening of cognitive impairment; or the presence of multiple or extensive infarcts or severe white matter hyperintensity burden,

  - Features of Lewy Body dementia other than the dementia itself,

  - Prominent features of behavioral variant frontotemporal dementia,

  - Prominent features of semantic variant primary progressive aphasia or non-fluent/agrammatic variant primary progressive aphasia, or

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Evidence for another neurological disease or a non-neurological medical comorbidity (e.g., HIV dementia, dementia of Huntington's disease) or medication use that could have a substantial effect on cognition.

  - Vitamin B12 or folate deficiency

  - Psychiatric diagnoses or symptoms, such as hallucinations, anxiety, major depression, or delusion

- The first FDA approved treatment for Alzheimer's disease that could potentially modify the disease process was Aduhelm® (aducanumab-avwa), a human immunoglobulin gamma 1 (IgG1) monoclonal antibody directed against aggregated soluble and insoluble forms of amyloid beta protein, for the treatment of Alzheimer's disease in patients with mild forms of Alzheimer's disease (i.e., MCI due to Alzheimer's or mild Alzheimer's dementia) as this was the population treated in clinical trials and no safety and effectiveness data is available on initiating treatment in earlier or later stages of the disease than were studied. Aduhelm was approved on June 7, 2021, and brought a first-in-class product to market. However, Aduhelm was approved via the accelerated approval pathway based on the reduction in amyloid beta plaques observed in clinical trials; discordant results of Aduhelm's identically designed Phase III EMERGE and ENGAGE trials failed to provide sufficient evidence to support that the lowering of beta amyloid plaque yields a clinical benefit of improved cognition and delayed disease progression. As such, Aduhelm has had minimal impact on the Alzheimer's population in the time since its approval due to uncertain clinical efficacy, negative press surrounding its approval, and questionable long-term safety, and was discontinued November 2024.

- On January 6, 2023, the FDA approved Leqembi (lecanemab-irmb) via the accelerated approval pathway as the second humanized IgG1 monoclonal antibody directed against amyloid beta for the treatment of Alzheimer's disease based on amyloid plaque reduction in a Phase II clinical trial, with continued approval contingent upon verification of a clinical benefit in a confirmatory trial. Leqembi is limited to treating patients with MCI due to Alzheimer's or mild Alzheimer's dementia and confirmed presence of amyloid as this was the population evaluated in clinical trials, and no safety or effectiveness data is available on initiating treatment earlier or later in the disease course.

  - Study 201, a Phase II, double-blind, placebo-controlled, dose-finding study of Leqembi in patients with early Alzheimer's disease, served as the basis for FDA's accelerated approval of Leqembi. Study 201 had a 79-week, double-blind, placebo-controlled period, followed by an open-label, extension for up to 206 weeks which was initiated after a gap period of treatment that ranged from 9 to 59 months.

  - The study included patients with MCI due to Alzheimer's disease or mild Alzheimer's dementia and confirmed presence of amyloid pathology (n=856). Participants were randomized to receive one of five doses of Leqembi or matched placebo, with 161 patients randomized to the 10 mg/kg every 2 weeks treatment arm.

  - The Leqembi treatment arms did not meet the primary endpoint of Study 201, which was a change from baseline on a composite score consisting of selected items from various cognitive function tests at week 53. However, those who voluntarily enrolled in the amyloid PET substudy (n=315) and received Leqembi treatment demonstrated significant dose- and time-dependent reduction of amyloid beta plaque from baseline compared to placebo at week 79.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- On July 6, 2023, the FDA granted full approval to Leqembi for the treatment of AD in patients with MCI or mild dementia stage of disease and confirmed presence of amyloid, the population in which treatment was initiated in clinical trials. The conversion to full approval was supported by data from the Phase III Clarity AD trial that demonstrated the drug's clinical benefit as it relates to amyloid reduction.

    - Clarity AD was conducted over 18 months in patients 50 to 90 years of age with early Alzheimer's disease (i.e., MCI due to Alzheimer's or mild Alzheimer's dementia) and evidence of amyloid on PET or by cerebrospinal fluid (CSF) testing (n=1,795). Eligible participants were also required to have all of the following during the screening and/or baseline period (i.e., within 60 days) prior to randomization:

        - A global Clinical Dementia Rating (CDR) score of 0.5 (for MCI due to Alzheimer's) or 0.5 – 1.0 (for mild Alzheimer's dementia), and a CDR Memory Box score of 0.5 or greater

        - An MMSE score > 22 but < 30

        - Baseline brain magnetic resonance imaging (MRI), without findings that indicate increased risk for Amyloid-related imaging abnormalities (ARIA) and/or intracerebral hemorrhage (e.g., findings suggestive of ARIA and/or cerebral amyloid angiopathy (prior cerebral hemorrhage greater than 1 cm at greatest diameter, more than 4 microhemorrhages, superficial siderosis, vasogenic edema) or other lesions (aneurysm, vascular malformation) that could potentially increase the risk of intracerebral hemorrhage

    - Participants were excluded from Clarity AD if their history included any of the following:

        - History of transient ischemic attacks (TIA), stroke, or seizures within the previous 12 months

        - Evidence of other clinically significant lesions on brain MRI at screening that could indicate a dementia diagnosis other than AD

        - Presence of a bleeding disorder that is not under adequate control (including a platelet count <50,000 or International normalized ratio [INR] >1.5)

    - Participants were randomly assigned (1:1) to receive Leqembi 10 mg/kg IV every 2 weeks or matched placebo. The primary endpoint was the change from baseline at 18 months in the score on the Clinical Dementia Rating Sum of Boxes (CDR-SB; range, 0-18 with higher scores indicating greater impairment). Key secondary endpoints included change in amyloid burden on PET and the scores on a variety of other cognitive and functional assessment scales.

    - Participants treated with Leqembi demonstrated a statistically significant 27% less decline in CDR-SB compared to placebo at 18 months, with a mean difference of -0.45 ($p<0.001$). It should be noted that statistical significance in the change in CDR-SB may not demonstrate a clinically important change, as some experts suggest that the minimum clinically important difference (MCID) in CDR-SB where a clinically meaningful change to patients, caregivers or clinicians is apparent is generally a change of 1 to 2 points.

    - The other measures of cognition assessed in the trial also showed statistically significant differences favoring the lecanemab treatment arm; however, the mean differences in these endpoints also did not meet the MCID established by literature or as calculated by the Institute for Clinical and Economic Review (ICER).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Changes in amyloid burden on PET, another key secondary endpoint, was assessed in a substudy involving 698 participants. At 18 months, the lecanemab group demonstrated a statistically significant larger amount of beta amyloid removal compared with placebo, corresponding to a mean percentage difference of -76.0% ($p<0.001$). 32.4% of those in the lecanemab arm reached amyloid negativity; however, it's worth noting that 7.8% of those in the placebo arm also were amyloid negative at 18 months.

- Clarity AD was the first clinical trial of an anti-amyloid therapy to demonstrate an association between amyloid clearance and slowing of cognitive decline in the early Alzheimer's patient population; however, the available evidence, particularly in light of the history of mixed results with previously trialed and failed anti-amyloid therapies in the pipeline, does not unequivocally suggest that amyloid clearance will definitively improve cognitive outcomes. It also remains unclear whether the modest effect on cognition and function demonstrated in the trial will be clinically relevant when used in the real world.

- Any cognitive benefits seen with Leqembi and other anti-amyloid therapies must be weighed against the potential harms of treatment, especially in light of the risk of amyloid-related imaging abnormalities (ARIA) with edema and/or cerebral microhemorrhage. Though the incidence of ARIA was numerically lower with Leqembi than with other anti-amyloid therapies in similar clinical trials, the differences in the drugs used and trial design do not allow direct comparisons or support the suggestion that Leqembi may be "safer" than alternative anti-amyloid agents previously studied.

- With the FDA's full approval of Leqembi came the application of a boxed warning regarding ARIA, calling out ApoE ε4 homozygotes in particular who appear to have a higher incidence of ARIA, including symptomatic, serious, and severe radiographic ARIA, compared to heterozygotes and noncarriers. ARIA can occur spontaneously in patients with Alzheimer's disease, with the three main risk factors being exposure to anti-amyloid treatment, presence of pre-treatment microhemorrhages, and APOE ε4 carrier status. Per the labeling, testing for ApoE ε4 status is recommended prior to initiating treatment to inform the risk of ARIA development, though it is not a requirement. The prescriber should educate the patient on test results and its implications, including the risk of ARIA associated with APOE ε4 status. For those opting out of testing, the prescriber should inform patients they can still be treated with Leqembi; however, it cannot be determined if they are at higher risk for ARIA based on APOE ε4 status. The benefits of treatment versus the potential risk of ARIA should be considered prior to initiating treatment with Leqembi. An FDA-authorized test to detect ApoE ε4 alleles to identify those at risk of ARIA is not currently available, and those that are available may vary in accuracy and design.

- Caution should also be exercised when considering Leqembi administration in patients receiving concomitant antithrombotic or thrombolytic medications. Use of these medications (e.g., aspirin, other antiplatelets, anticoagulants) was allowed in Clarity AD if the patient was stable on the dose; however, there was a greater incidence of intracerebral hemorrhage in patients taking Leqembi with antithrombotic (2/79 patients) compared to those receiving placebo (zero patients).

- The cognitive decline associated with MCI and mild Alzheimer's disease dementia often spans many years. The limited follow up duration of Leqembi's Phase II and III trials may be insufficient to conclude how effective Leqembi is for treating early Alzheimer's disease. Ultimately, longer trials are warranted to determine the true efficacy and safety of Leqembi in early Alzheimer's disease. With the lack of information surrounding long-term use, safety, and the real-world effects of Leqembi, a number of questions arise including the appropriate duration of treatment, if or at what point effectiveness will start to decline, and whether continued treatment with Leqembi is safe and necessary in patients whose amyloid beta plaque has reduced to undetectable levels.

- On April 17, 2023, ICER published its final evidence report of Leqembi for AD. ICER acknowledged that current evidence strongly suggests a Leqembi mildly slows the loss of cognition in patients with early AD; however, the risks of brain swelling and bleeding, particularly when used outside of clinical trials, did not support that average benefits

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

of Leqembi would exceed its risks. Treatment of MCI due to Alzheimer's and mild Alzheimer's dementia with Leqembi was deemed "promising but inconclusive", and after review of the drug's clinical evidence and consideration of Leqembi's other potential benefits, disadvantages, etc., Leqembi at its current price-point represents "low" long-term value for money.

  - The report highlights that uncertainty remains around the amyloid hypothesis and that we do not have adequate data for lecanemab to show a correlation between amyloid removal and treatment effect, or differences in outcomes by achieving or not achieving amyloid negativity.

  - A substantial percentage of patients reached amyloid negativity (by PET scan) in the Phase III trial, but 7.8% of patients in the placebo arm also achieved amyloid negativity. ICER suggests that this finding demonstrates the complexity of Alzheimer's disease pathophysiology and that the role of amyloid in Alzheimer's disease and factors that may impact clinical outcomes are not fully understood.

  - ICER also makes note that the ARIA risk with real world use may be greater than that in clinical trials due to issues like limited clinical expertise and accessibility issues affecting monitoring.

  - Additionally, there are questions of whether the trial results can be generalized to the broader mild Alzheimer's population as the average age of participants in the Phase III trial was just over 71 years of age and included participants with some comorbidities; however, two-thirds of the Alzheimer's population in the US are 75 years of age and older and likely have significant comorbidities.

  - ICER acknowledges that there is disagreement among experts about clinical meaningfulness of the magnitude of change in the cognitive outcomes of these trials and notes that despite the demonstrated statistical significance of the reduction in cognitive decline, we cannot say with certainty that treatment with Leqembi will yield a meaningful change in the patient's status for the benefit to outweigh the risk to treatment.

- Based on the current information available, there is insufficient evidence that Leqembi provides a meaningful clinical benefit in patients with Alzheimer's disease, and that potential benefits of therapy outweigh the risks of treatment. Therefore, demonstration of a clinical benefit is warranted in on-going clinical trials.

- On July 2, 2024, the FDA approved a third anti-amyloid monoclonal antibody, Eli Lilly's Kisunla™ (donanemab-azbt), for the treatment of Alzheimer's disease, with the caveat that Kisunla should be initiated in patients with MCI or mild dementia stage of disease, the population in which treatment was initiated in the clinical trials. Kisunla joins Leqembi as the second drug in this class to gain full FDA approval based on demonstration of statistically significant clinical benefit in clinical trials. Kisunla targets a specific epitope of beta amyloid found within beta amyloid plaque to facilitate plaque removal. Of the approved anti-amyloid therapies, Kisunla is the first and only agent with evidence to support a limited-duration treatment regimen based on amyloid plaque removal, which could potentially result in fewer infusions and lower treatment costs.

  - Approval of Kisunla was based on safety and efficacy data from the Phase III TRAILBLAZER-ALZ-2 trial, which evaluated a similar population as Clarity AD trial, but with an additional requirement that eligible participants be grouped and analyzed based on tau levels (low/medium or high). Additionally, participants were able to discontinue therapy with Kisunla and switch to placebo if prespecified reductions in amyloid were met during the trial.

  - Patients treated with Kisunla demonstrated a statistically significant reduction in clinical decline on the integrated Alzheimer's Disease Rating Scale (iADRS) compared to placebo at week 76 in both the combined tau group (2.92, $p<0.0001$) and the low/medium tau group (3.25, $p<0.0001$), equating to a 22% slowing of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

disease progression at week 76 in the combined tau group and 35% slowing of disease progression at week 76 in the low-medium tau group. Patients on Kisunla also demonstrated a statistically significant reduction in clinical decline on CDR-SB, the secondary endpoint, compared to placebo at week 76. in the combined tau group (-0.70, p<0.0001) and the low/medium tau group (-0.67, p<0.0001), correlating to a 29% slowing of disease progression at week 76 in the combined group and a 36% slowing of disease progression in the low/medium tau group.

- The percentages of patients that reached the prespecified reductions in amyloid and were eligible for switch to placebo based on amyloid PET levels at Week 24, Week 52, and Week 76 timepoints were 17%, 47%, and 69%, respectively. Of note, amyloid PET values could increase after Kisunla treatment is stopped, and there is no data beyond the 76-week trial to guide whether additional Kisunla dosing may be needed for longer-term clinical benefit or how long the amyloid reductions with treatment will last.

- Shortly after Kisunla's approval, 36-month results from the open-label, long-term extension study (OLE) of Clarity AD were presented at the 2024 Alzheimer's Association International Conference (AAIC). The mean change from baseline in CDR-SB in the Leqembi-treated group was -0.95 after 36 months of treatment compared to a prespecified natural history cohort of Alzheimer's disease. The OLE also demonstrated a 30% reduction in the relative risk of progressing to the next disease stage. Additionally, the tau PET substudy of Clarity AD showed that with three years of continuous Leqembi treatment, 59% of patients with no or low tau accumulation at baseline showed improvement or no decline, and 51% showed improvement from baseline on the CDR-SB global cognitive and functional scale.

  - The OLE data appears to support that Leqembi continues to work and maintain a similar slowing of cognitive decline as in the original 18-month trial, and that earlier treatment provides greater effect; however, there are potential limitations to consider.

  - Not all patients in the OLE received Leqembi treatment for a full 36-months as at the end of the 18-month Clarity AD trial those on placebo were offered to switch to open-label Leqembi, and historical data based on typical Alzheimer's progression was used to conclude how these patients would respond after 36 months.

  - Additionally, it should be noted that about 600 patients out of 1,800 enrolled dropped out of the 36-month study; it is unclear whether they left due to side effect concerns, issues with follow up, or due to disease progression.

  - The rate of decline can also be questioned. Though the effect seems consistent with a slowing of progression by 0.45 points after 18 months and 0.95 points after 36 months , patients seem to have progressed faster in the latter 18-months of the trial than in the first. In the first 18 months, Leqembi-treated patients progressed by approximately 1.2 points, but at the end of three years they progressed a total of 3.09 points.

- Four-year results from the Clarity AD OLE were presented at the 2025 AAIC. The mean change from baseline in CDR-SB in the Leqembi-treated group was -1.75 points after 48 months of treatment compared to a prespecified natural history cohort of Alzheimer's disease. The OLE also demonstrated a 34% reduction in the relative risk of progression to the next disease stage through 4 years of treatment. Additionally, the tau PET substudy of Clarity AD showed that after 4 years of Leqembi treatment, 69% of patients who had low tau levels showed improvement or no decline, and 56% showed improvement from baseline on CDR-SB global cognitive and functional scale.

  - The 4-year OLE data appear to demonstrate consistent benefits of continuous treatment with Leqembi. It should be noted that the 4-year data analysis varied from that conducted at 36 months in that only patients who had been established on Leqembi from inception of the Clarity AD trial were included in the data set.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Of the 849 patients who had received Leqembi from the beginning of Clarity AD, roughly half had dropped out by the 48-month mark. It is unknown whether these patients experienced disease progression, intolerable side effects, or were lost to follow up due to some other factor. Those who are still enrolled may potentially be doing well because they are more actively managing their disease.

  - Treated patients were again compared to historical data from untreated Alzheimer's patients in the Alzheimer's Disease Neuroimaging Initiative (ADNI). Use of a natural history cohort for comparison presents potential risks for bias and confounding. Additionally, neither the ADNI cohort nor either active treatment arm can be considered representative of the broader Alzheimer's population that would be treated in the real world.

- Findings from the TRAILBLAZER-ALZ 2 long-term extension (LTE) study were also at the 2025 AAIC. The LTE included 550 patients who initiated Kisunla in the core study and either continued or were switched to placebo after reaching amyloid negativity. Those receiving placebo in the core study were switched to Kisunla for the LTE to evaluate delayed treatment outcomes (n=657).

  - Compared with the ADNI natural history cohort, Kisunla reduced cognitive decline by -0.6 at 18 months and then -1.2 at 36 months on the CDR-SB.

  - Earlier initiation of Kisunla reduced risk of progression to the next disease stage by 27% on the CDR-Global compared to patients with delayed initiation of Kisunla treatment.

  - More than 75% of participants reached amyloid clearance within 76 weeks of starting Kisunla.

  - After up to 2.5 years of observed data in patients who had completed Kisunla treatment, accumulation of amyloid plaque remained slow.

- The LTE data appears to support that Kisunla continues to provide clinical benefit even after discontinuation of therapy and that earlier treatment provides a more pronounced treatment effect. Caveats to consider when interpreting this data are similar to those of Clarity AD OLE and include that the LTE compared the progression of treated patients to data from a natural history cohort of untreated patients in lieu of a placebo control group, which could potentially introduce bias and confound the results. Additionally, nearly half of patients in the early start Kisunla group dropped out of the study by 36 months for unknown reasons, and, as with Leqembi, those who are still enrolled may potentially be doing well because they are more actively managing their disease.

- Data appears supportive of chronic Leqembi treatment; however, with new data on Kisunla suggesting that patients can stop taking drug once they reach amyloid negativity and treatment benefit continues to grow, the question remains whether there is value, or lack thereof, in continuing treatment of anti-amyloid therapies post-plaque clearance. Controlled head-to-head studies directly comparing the different drugs and treatment regimens are needed to find a resolution to the conflicting conclusions drawn from these extension trials.

- The Centers for Medicare & Medicaid Servies (CMS) recognizes the need for additional information surrounding treatment with Leqembi and other anti-amyloid therapies in the real world. On April 7, 2022, CMS released a national policy for coverage of monoclonal anti-amyloid antibodies approved by the FDA for the treatment of Alzheimer's disease. Under the National Coverage Determination (NCD), Medicare will provide coverage of anti-amyloid antibodies that have been granted full FDA approval under Coverage with Evidence Development (CED) when furnished in accordance with prespecified coverage criteria laid out in the NCD for patients with a clinical diagnosis of MCI due to Alzheimer's disease or mild Alzheimer's disease dementia, both with confirmed presence of amyloid beta pathology consistent with Alzheimer's disease.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Coverage of these anti-amyloid therapies under CED requires participation in CMS-approved prospective comparative studies, and providers must participate in an approved registry to gather information on patient outcomes with treatment to further evaluate whether these products are reasonable and necessary in the Medicare-eligible population. The data collected by these registries is expected to help answer such questions as whether Kisunla and other approved anti-amyloid therapies meaningfully improve health outcomes with real-world use, whether the benefits and harms of these therapies are dependent on select factors in a patient's care, and how the benefits and harms of treatment may change over time. A CED cycle is considered completed once CMS completes reconsideration of the CED coverage decision and the study participation requirement as a condition of coverage is removed. At this time, an analysis of the data collected by CMS for the early Alzheimer's population has not yet been made available to further inform decisions around the long-term use of anti-amyloid therapies.

- Refer to CMS's NCD: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer's Disease for a complete description.

- To date, there is no literature available to support the use of Leqembi in combination with other anti-amyloid therapies.

References:

1. Aduhelm [prescribing information]. Cambridge, MA: Biogen, Inc.; July 2021.
2. Albert MS, DeKosky ST, et al. The diagnosis of mild cognitive impairment due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimer's Dement. 2021 May; 7(3): 270-279.
3. Alexander GC, Emerson S, and Kesselheim AS. Evaluation of Aducanumab for Alzheimer Disease Scientific Evidence and Regulatory Review Involving Efficacy, Safety and Futility. JAMA. 2021;325(17):1717-1718. doi:10.1001/jama.2021.3854.
4. Alzheimer's Association 2025 Alzheimer's Disease Facts and Figures. Alzheimers Dement 2025; 21(5).
5. Arevalo-Rodriquez I, Smailagic N, et al. Mini-Mental State Examination (MMSE) for the detection of Alzheimer's disease and other dementias in people with mild cognitive impairment (MCI) (Review). Cochrane Database of Systematic Reviews. 2015, Issue 3. Art. No,: CD010783.
6. Budd Haeberlein S, von Hehn C, Tian Y, et al. EMERGE and ENGAGE topline results: two phase 3 studies to evaluate aducanumab in patients with early Alzheimer's Disease. Presented at: 12th Annual CTAD Meeting. December 4-7, 2019; San Diego, CA.
7. Castrillo-Viguera C, Chalkias S, Burkett P, Wu S, Chen H, Harrison K, Yurgalevitch C, Budd Haeberlein S. EMBARK: A Phase 3b, open-label, single-arm, safety study to evaluate the long-term safety and efficacy of aducanumab in eligible participants with Alzheimer's disease. Presented at: American Academy of Neurology (AAN) 2021, April 17th - April 22nd, 2021; Virtual. P1.013.
8. Centers for Medicare & Medicaid Services Medicare Coverage Database. National Coverage Determination: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer's Disease. April 7, 2022. https://www.cms.gov/medicare-coverage-database/view/ncd.aspx?ncdid=375&ncdver=1. (Accessed September 29, 2025).
9. Centers for Medicare & Medicaid Services Medicare Coverage Database. Coverage with Evidence Development. September 10, 2024. https://www.cms.gov/medicare/coverage/evidence. (Accessed September 29, 2025).
10. Chapleau M, Iaccarino L, Soleimani-Meigooni D, Rabinovici GD. The Role of Amyloid PET in Imaging Neurodegenerative Disorders: A Review. J Nucl Med. 2022 Jun;63(Suppl 1):13S-19S. doi: 10.2967/jnumed.121.263195. PMID: 35649652; PMCID: PMC9165727.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

11. Cross, Ryan. “Eisai Says Alzheimer’s Drug Keeps Working After Three Years. But Weaknesses in Study Raise Questions”. Endpoints News. July 31, 2024. https://endpts.com/eisai-says-alzheimers-drug-keeps-working-after-three-years-but-weaknesses-in-study-raise-questions/. Accessed January 27, 2025.
12. Cross, Ryan. “New Data for Alzheimer’s Drugs Raise Hopes, and Questions, About Bigger Benefits Over Time”. Endpoints News. July 30, 2025. https://endpoints.news/new-data-for-alzheimers-drugs-raise-hopes-and-questions-about-bigger-benefits-over-time/. Accessed September 29, 2025.
13. Dickerson BC, Atri A, et al. The Alzheimer’s Association clinical practice guideline for the Diagnostic Evaluation, Testing, Counseling, and Disclosure of Suspected Alzheimer’s Disease and Related Disorders (DETeCD-ADRD): Executive summary of recommendations for specialty care. Alzheimer’s Dement. 2025;21:e14337. DOI: 10.1002/alz.14337
14. Eli Lilly and Company. Donanemab in Early Symptomatic Alzheimer’s Disease: Efficacy and Safety from the TRAILBLAZER-ALZ 2 Long-Term Extension. Presented at: Alzheimer’s Association International Conference; July 27-31, 2025; Toronto, Canada.
15. FDA News Release. FDA Clears First Blood Test Used in Diagnosing Alzheimer’s Disease. May 16, 2025. Accessed August 29, 2025. Available at: https://www.fda.gov/news-events/press-announcements/fda-clears-first-blood-test-used-diagnosing-alzheimers-disease
16. Gonzalez DA, Gonzales MM, et al. Comprehensive evaluation of the Functional Activities Questionnaire (FAQ) and its reliability and validity. Assessment. 2022 June; 29(4): 748-763.
17. IPD Analytics. Payer & Provider Insights. July 2024. Accessed July 3, 2024. https://www.ipdanalytics.com
18. Jack CR Jr, et al. Revised criteria for diagnosis and staging of Alzheimer's disease: Alzheimer's Association Workgroup. Alzheimers Dement. 2024 Jun 27. doi: 10.1002/alz.13859. Epub ahead of print. PMID: 38934362.
19. Kisunla [prescribing information]. Indianapolis, IN: Eli Lilly; July 2024.
20. Knopman DS, Jones DT, and Greicius MD. Failure to demonstrate efficacy of aducanumab: An analysis of the EMERGE and ENGAGE trials as reported by Biogen, December 2019. Alzheimer’s Dement. 2020; 1-6.
21. Labcorp. Elecsys pTau181. Updated February 8, 2026. Accessed March 9, 2026. Available at: https://www.labcorp.com/tests/452560/elecsys-ptau-181-plasma.
22. Labcorp. Lumipulse pTau-217/Beta Amyloid 42 Ratio. Accessed March 9, 2026. Available at: https://www.labcorp.com/treatment-areas/neurology/clinical-testing/ptau217betaamyloid42ratio
23. Leqembi [prescribing information]. Nutley, NJ: Eisai, Inc.; August 2025.
24. Lin GA, Whittington MD, Wright A, Agboola F, Herron-Smith S, Pearson SD, Rind DM. Lecanemab for Early Alzheimer’s Disease: Final Evidence Report. Institute for Clinical and Economic Review, April 17, 2023.
25. Manufacturer press release. FDA grants accelerated approval for Aduhelm as the first and only Alzheimer’s disease treatment to address a defining pathology of the disease. 7 June 2021. Accessed 8 June 2021. Available at: https://www.globenewswire.com/news-release/2021/06/07/2243019/0/en/FDA-grants-accelerated-approval-for-ADUHELM-as-the-first-and-only-Alzheimer-s-disease-treatment-to-address-a-defining-pathology-of-the-disease.html.
26. Manufacturer press release. Lilly’s Kisunla (donanemab-azbt_ showed growing benefit over three years in early symptomatic Alzheimer’s disease. July 30, 2025. Accessed on September 11, 2025. Available at: https://investor.lilly.com/news-releases/news-release-details/lillys-kisunla-donanemab-azbt-showed-growing-benefit-over-three
27. Manufacturer press release. New Clinical Data Demonstrates Three Years of Continuous Treatment with Dual-Acting LEQEMBI® (lecanemab-irmb) Continues to Significantly Benefit Early Alzheimer’s Disease Patients Presented at The Alzheimer’s Association International Conference (AAIC) 2024. July 30, 2024. Accessed on January 27, 2025. Available at: https://investors.biogen.com/news-releases/news-release-details/new-clinical-data-demonstrates-three-years-continuous-treatment
28. Manufacturer press release. Roche’s Elecsys pTau181 becomes the only FDA -cleared blood test for use in primary care to rule out Alzheimer’s related amyloid pathology. October 12, 2025. Accessed on March 9, 2026. Available at: https://www.roche.com/investors/updates/inv-update-2025-10-13b
29. Marshall GA, Zoller AS, et al. Functional Activities Questionnaire items that best discriminate and predict progression from clinically normal to mild cognitive impairment. Curr Alzheimer Res. 2015; 12(5): 493-502.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

30. Mayo AM. Use of the Functional Activities Questionnaire in Older Adults with Dementia. In: Try This: Best Practices in Nursing Care to Older Adults with Dementia. Greenberg SA (Ed). 2016. Accessed on November 14, 2023. Available at: https://www.alz.org/careplanning/downloads/functional-activities-questionnaire.pdf
31. McKhann GM, Knopman DS, et al. The diagnosis of dementia due to Alzheimer's disease: Recommendations from the National Institute on Aging-Alzheimer's Association workgroups on diagnostic guidelines for Alzheimer's disease. Alzheimer's Dement. 2011 May; 7(3): 263-269.
32. Morris, J.C. (1993). The clinical dementia rating (CDR): Current version and scoring rules. Neurology, 43(11), 2412-2414.
33. O'Bryant SE, Lacritz LH, Hall LH, et al. Validation of the new interpretive guidelines for the clinical dementia rating scale sum of boxes score in the National Alzheimer's Coordinating Center database. Arch Neurol. 2010;67(6):746-749
34. Press Release. FDA Grants Accelerated Approval for Alzheimer's Drug. 7 June 2021. Accessed 8 June 2021. Available at: https://www.prnewswire.com/news-releases/fda-grants-accelerated-approval-for-alzheimers-drug-301306966.html.
35. Protocol for: van Dyck CH, Swanson CJ, Aisen P, et al. Lecanemab in early Alzheimer's disease. N Engl J Med 2023;388:9-21. DOI: 10.1056/NEJMoa2212948
36. Schneider L. A resurrection of aducanumab for Alzheimer's disease. Lancet Neurol. Published online December 4, 2019. doi: 10.1016/S1474-4422(19)30480-6.
37. Swanson CJ, et al. A randomized, double-blind, phase 2b proof-of-concept clinical trial in early Alzheimer's disease with lecanemab, an anti-Aβ protofibril antibody. Alzheimer's Research & Therapy (2021) 13:80.
38. Van Dyck CH, Swanson CJ, et al. Lecanemab in Early Alzheimer's Disease. New Engl J Med. 2023; 388:9-2. DOI: 10.1056/NEJMoa2212948.
39. Van Dyck, C. The Lecanemab Clarity AD Open-Label Extension in Early Alzheimer's Disease: Initial Findings from the 48-Month Analysis. Presented at: Alzheimer's Association International Conference; July 27-31, 2025; Toronto, Canada.
40. Williams, MM et al. Progression of Alzheimer disease as measured by Clinical Dementia Rating sum of boxes scores. Alzheimer's Dement. 2012 Aug 1;9(1 0):S39–S44. doi: 10.1016/j.jalz.2012.01.005

Policy History		
#	Date	Change Description
2.0	Effective Date: 04/16/2026	For commercial benefit, removed bullet stating that BCBSM/BCN is awaiting results of ongoing clinical trials since Leqembi has full FDA approval Changed Leqembi IV Medicare criteria to "Coverage of the requested drug will be provided in accordance with CMS's National Coverage Determination: Monoclonal Antibodies Directed Against Amyloid for the Treatment of Alzheimer's Disease" and removed corresponding quantity limits, authorization period, and renewal criteria Added criteria to Leqembi Iqlik for maintenance therapy under Medicare benefit requiring historic documentation of amyloid-beta pathology via amyloid PET or CSF testing from prior to

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		initiation of therapy, and attestation that the provider followed ARIA monitoring requirements during IV treatment as indicated in the approved labeling and that continuation of treatment was clinically appropriate if ARIA was detected and resolved. Changed Leqembi Iqlik for maintenance therapy from requiring 18 months of treatment with IV Leqembi to requiring FDA approved duration of treatment with IV Leqembi Added preliminary criteria for Leqembi Iqlik for initiation of therapy for Medicare benefit only Updating supporting information to include Elecsys p-Tau181 plasma test and Appendix 2: Blood Biomarker Tests Cleared by the FDA for the Evaluation of Alzheimer's Disease
1.9	Effective Date: 10/09/2025	Added Leqembi Iqlik and related criteria to the policy Expanded MRI time limits from within the past 60 days to within at most the past 12 months to align with Kisunla
1.8	Effective Date: 10/01/2025	UM medical management system update for BCNA and MAPPO for Leqembi Iqlik
1.7	Effective Date: 02/13/2025	Added initial criteria, quantity limits, authorization period, and renewal criteria for Medicare benefit only
1.6	Effective Date: 08/08/2024	Supporting information updated to include 2024 Alzheimer's Association Workgroup criteria for diagnosis and staging of Alzheimer's and reference to Kisunla.
1.5	Effective Date:	Supporting information updated to include additional information regarding cognitive testing, Alzheimer's disease diagnosis, and testing for the presence of amyloid.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	12/14/2023	Appendix 1 added to the policy
1.4	Effective Date: 08/10/2023	Updated Medicare criteria to refer to National Coverage Determination vs. National Coverage Analysis
1.3	Effective Date: 02/02/2023	New policy - this criteria replaces previously approved preliminary criteria.
1.2	Effective Date: 01/26/2023	UM medical management system update for BCBSM and BCN for Leqembi
1.1	Effective Date: 01/13/2023	UM medical management system update for BCNA and MAPPO for Leqembi
1.0	Effective Date: 12/01/2022	Preliminary drug review

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Appendix 1: CSF Tests Cleared by the FDA for the Evaluation of Alzheimer's Disease (AD) Biomarkers*

Test	What is measured	Results Interpretation	Notes
Lumipulse β-Amyloid Ratio (1-42/1-40) Fujirebio Diagnostics, Inc.	Ratio of AB 1-42 and AB 1-40 concentrations Determines likelihood of amyloid plaques	Negative (normal): ≥ 0.073 Likely positive (abnormal): 0.059-0.072 Positive (abnormal): ≤ 0.058	AB 1-42 accumulation leads to plaque aggregation and neurotoxicity in AD AB 1-40 remains relatively stable and less prone to aggregating Likely positive and positive results are more likely to be consistent with a positive amyloid PET result; however, these results do not establish a diagnosis of AD or other cognitive disorders.
Elecsys beta-amyloid (1-42) CSF II and Elecsys Phospho-Tau (181P)CSF (pTau181) Roche	Used together to measure the ratio of pTau181 and AB 1-42 concentrations Ratio provides a surrogate marker of amyloid plaque burden with 90% concordance with Amyloid PET imaging	Negative (normal): ratio ≤ lab-designated ratio cut-off Positive (abnormal): ratio > lab-designated ratio cut-off	Increases in CSF pTau181 concentration is associated with more rapid cognitive decline in AD Results below the cut-off reduces the likelihood of AD causing the cognitive impairment

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

			Intended to be used in addition to other clinical diagnostic evaluations.
Elecsys beta-amyloid (1-42) CSF II and Elecsys Total-Tau CSF Roche	Used together to measure the ratio of tTau and AB 1-42 concentrations Ratio provides a surrogate marker of amyloid plaque burden concordant with Amyloid PET imaging	Negative (normal): ratio ≤ lab-designated ratio cut-off Positive (abnormal): ratio > lab-designated ratio cut-off	Expected to be available 4th quarter 2023 High CSF tTau can also be found in other neurodegenerative disease (e.g., Creutzfeldt-Jakob disease) Intended to be used in addition to other clinical diagnostic evaluations.

AB – amyloid beta; pTau181 – phosphorylated tau-181; tTau – total Tau

*All are cleared by the FDA for adults 55 and older presenting with cognitive impairment who are being evaluated for AD and other causes of cognitive decline.

*Results from different assays may be different and cannot be used interchangeably.

*Results must be interpreted in conjunction with other diagnostic tools, such as neurological examination, neurobehavioral tests, imaging, routine lab tests.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Appendix 2: Blood Biomarker Tests Cleared by the FDA for the Evaluation of Alzheimer's Disease (AD)*

Test	What is measured	Results Interpretation	Notes
Lumipulse G pTau217/β-Amyloid 1-42 plasma ratio Fujirebio Diagnostics, Inc.	Ratio of phosphorylated tau 217 to AB 1-42 The numerical ratio of the levels of these proteins correlates to the presence or absence of amyloid plaque, reducing the need for an amyloid PET with a 91.8% positive predictive value	Positive (abnormal): ratio ≥0.00738 Intermediate (uncertain): ratio 0.00371 – 0.00737 Negative: ratio ≤0.00370 (normal)	Intended for use in specialized care settings only, in adults age 50 years and older Not to be used as a screening or stand-alone diagnostic test. Results should be interpreted in conjunction with other pertinent clinical information Results are highly concordant with amyloid PET and amyloid CSF ratio results Patients with intermediate results are uncertain to have amyloid pathology and should consider further testing
Elecsys p-Tau181 Roche	Used to measure plasma levels of phosphorylated tau 181, a protein that increases as amyloid plaques accumulate in the brain A 97.9% negative predictive value for ruling out AD	Negative: ≤0.722 pg/mL (consistent with a negative amyloid PET scan; investigate for causes other than amyloid pathology) Positive: >0.722 pg/mL (may not be consistent with a positive amyloid PET; further investigation required	Intended to aid in the initial assessment for AD in adults 55 years and older in the primary care setting. Not recommended for patients who are symptomatic and already referred to a specialist Results should be interpreted in conjunction with other clinical information A positive test result may not be consistent with a positive amyloid PET scan result. Patients with an initial positive result should be further

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		to determine if amyloid is a cause)	investigated to determine whether the amyloid pathology can be a cause of cognitive impairment.

AB – amyloid beta

*Results must be interpreted in conjunction with other diagnostic tools, such as neurological examination, neurobehavioral tests, imaging, routine lab tests

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Libtayo® (cemiplimab-rwlc)
HCPCS: J9119

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Libtayo is a programmed death receptor-1 (PD-1) blocking antibody indicated for
    - The treatment of patients with metastatic cutaneous squamous cell carcinoma (mCSCC) or locally advanced CSCC (laCSCC) who are not candidates for curative surgery or curative radiation.
    - For the adjuvant treatment of adult patients with CSCC at high risk of recurrence after surgery and radiation
    - The treatment of patients with locally advanced basal cell carcinoma (laBCC) or metastatic BCC (mBCC) previously treated with a hedgehog pathway inhibitor or for whom a hedgehog pathway inhibitor is not appropriate.
    - As a single agent for first-line treatment of patients with non-small cell lung cancer (NSCLC) whose tumors have high PD-L1 expression [Tumor Proportion Score (TPS) ≥ 50%] as determined by an FDA-approved test, with no EGFR, ALK, or ROS1 aberrations, and is:
- locally advanced where patients are not candidates for surgical resection or definitive chemoradiation or
- metastatic
    - In combination with platinum-based chemotherapy for the first-line treatment of adult patients with NSCLC with no EGFR, ALK or ROS1 aberrations and is:
- locally advanced where patients are not candidates for surgical resection or definitive chemoradiation or
- metastatic

- The efficacy of Libtayo in patients with mCSCC or laCSCC who were not candidates for curative surgery or curative radiation was evaluated in two open-label, multi-center, non-randomized, multicohort studies: study 1423 and study 1540 (EMPOWER-CSCC-1). A total of 108 patients were included in the studies and received Libtayo monotherapy intravenously for up to 48 weeks in study 1423 and 96 weeks in study 1540. Treatment continued until progression of disease, unacceptable toxicity, or completion of planned therapy. Both studies excluded patients with autoimmune disease that required systemic therapy with immunosuppressant agents within 5 years; history of solid organ transplant; prior treatment with anti–PD-1/PD-L1 blocking antibodies or other immune checkpoint inhibitor therapy; infection with HIV, hepatitis B or hepatitis C; or patients with an ECOG score greater than or equal to 2. The study's primary endpoint was objective response rate, or the percentage of patients who experienced partial shrinkage or complete disappearance of their tumor(s) after treatment. Results showed that 47.2 percent of all patients treated with Libtayo had their

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

tumors shrink or disappear.

- The efficacy of Libtayo in patients with laBCC or mBCC was evaluated in study 1620, an open-label, multi-center, non-randomized study of 112 patients with laBCC or mBCC who had progressed on hedgehog pathway inhibitor (HHI) therapy, had not had an objective response after 9 months on HHI therapy, or were intolerant of prior HHI therapy. Patients received Libtayo monotherapy for up to 93 weeks until disease progression, unacceptable toxicity, or completion of planned treatment. The study excluded patients with autoimmune disease that required systemic therapy with immunosuppressant agents within 5 years; history of solid organ transplant; prior treatment with anti–PD-1/PD-L1 blocking antibodies or other immune checkpoint inhibitor therapy; infection with HIV, hepatitis B or hepatitis C; or patients with an ECOG score greater than or equal to 2. The study's primary endpoints were objective response rate and duration of response. The objective response rate was 27%, including 21% of patients with mBCC and 29% of patients with locally advanced disease. Five patients in the locally advanced subgroup had complete responses with Libtayo. Median duration of response has yet to be reached in the trial, overall or in the metastatic and locally advanced subgroups.

- The efficacy of Libtayo as a single agent in patients with NSCLC was evaluated in study 1624, a randomized, multicenter, open-label, active-controlled trial of 710 patients with locally advanced NSCLC who were not candidates for surgical resection or definitive chemoradiation, or with metastatic NSCLC. Patients received Libtayo monotherapy until RECIST 1.1-defined progressive disease, unacceptable toxicity, or up to 108 weeks. Only patient whose tumors had high PD-L1 expression [Tumor Proportion Score (TPS) ≥ 50%] were eligible for enrollment. The study excluded patients who had undergone prior systemic treatment; patients with EGFR, ALK or ROS1 genomic tumor aberrations; those with autoimmune disease that required systemic therapy with immunosuppressant agents within 5 years; prior treatment with anti–PD-1/PD-L1 blocking antibodies or other immune checkpoint inhibitor therapy; infection with HIV, hepatitis B or hepatitis C; or patients with an ECOG score greater than or equal to 1. The primary endpoints were overall survival and progression free survival. The trial demonstrated a statistically significant improvement in overall survival and progression free survival for patients randomized to Libtayo as compared with chemotherapy.

- The efficacy of LIBTAYO in combination with platinum-based chemotherapy was evaluated in study 16113, a randomized, multi-center, double-blind, active-controlled trial in 466 patients with locally advanced NSCLC who were not candidates for surgical resection or definitive chemoradiation or with metastatic NSCLC who had not previously received systemic treatment for metastatic NSCLC. Patients were eligible regardless of tumor PD-L1 expression status. Patients with EGFR, ALK or ROS1 genomic tumor aberrations; a medical condition that required systemic immunosuppression; or ongoing or recent autoimmune disease that required systemic therapy were ineligible. Subjects were randomized 2:1 to either 350 mg Libtayo plus platinum-based chemotherapy every 3 weeks or placebo plus platinum-based chemotherapy every 3 weeks. The primary endpoint was overall survival. The trial demonstrated a statistically significant improvement in OS for patients randomized to Libtayo in combination with chemotherapy compared with placebo in combination with chemotherapy.

References:

1. Libtayo [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; October 2025.
2. National Comprehensive Cancer Network. Squamous cell skin cancer (Version 2.2026). 2026 March 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/squamous.pdf. Accessed on April 14, 2026.
3. National Comprehensive Cancer Network. Basal cell skin cancer (Version 2.2026). 2026 March 11. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nmsc.pdf. Accessed on April 14, 2026.
4. Migden MR, Rischin D, Schmults CD, et al. PD-1 blockade with cemiplimab in advanced cutaneous squamous cell carcinoma. NEJM. 2018 Jul 26; 379 (4): 341 - 51.
5. Falchook GS, Leidner R, Stankevich E, et al. Responses of metastatic basal cell and cutaneous squamous cell carcinomas to anti-PD1 monoclonal antibody REGN2810. J Immunother Cancer. 2016 Nov 15; 4: 70.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

6. Migden MR, Khushalani NI, Chang ALS, et al. Cemiplimab in locally advanced cutaneous squamous cell carcinoma: results from an open-label, phase 2, single-arm trial. Lancet Oncol. 2020 Feb; 21 (2): 294 -305.
7. Rischin D, Migden MR, Lim AM, et al. Phase 2 study of cemiplimab in patients with metastatic cutaneous squamous cell carcinoma: primary analysis of fixed-dosing, long-term outcome of weight-based dosing. J Immunother Cancer. 2020 Jun; 8 (1). pii: e000775.
8. Clinicaltrials.gov. A phase 2 study of REGN2810, a fully human monoclonal antibody to programmed death-1, in patients with advanced basal cell carcinoma who experienced progression of disease on hedgehog pathway inhibitor therapy, or were intolerant of prior hedgehog pathway inhibitor therapy (NCT03132636). Available at: https://clinicaltrials.gov/ct2/show/NCT03132636. Accessed on February 11, 2021.
9. Sezer A, Kilickap S, Gümüş M, et al. Cemiplimab monotherapy for first-line treatment of advanced non-small-cell lung cancer with PD-L1 of at least 50%: a multicentre, open-label, global, phase 3, randomised, controlled trial. Lancet. 2021 Feb 13; 397 (10274): 592 - 604.
10. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 5.2026). 2026 March 13. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on April 14, 2026,
11. Clinicaltrials.gov. Combinations of cemiplimab (anti-PD-1 antibody) and platinum-based doublet chemotherapy in patients with lung cancer (NCT03409614). Available at: https://clinicaltrials.gov/ct2/show/NCT03409614?term=NCT03409614&draw=2&rank=1. Accessed on November 17, 2022.

Policy History		
#	Date	Change Description
2.1	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 06/05/2025 Effective Date: 07/21/2025	Updated criteria to align with standard PD-L1 criteria and updated the authorization period for metastatic non-small cell lung cancer to allow for up to 24 months of therapy
1.9	Effective Date: 02/13/2025	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 02/02/2023	Updated to include the new FDA approved indication for use in NSCLC in combination with platinum-based chemotherapy and update the approval length to state we will not approve for less than 60 days
1.6	Effective Date: 04/16/2022	Updated approval length to allow for FDA recommended dosing or up to 6 months at a time
1.5	Effective Date: 04/08/2021	Updated to include the new indications of basal cell carcinoma and non-small cell lung cancer

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.3</td><td>Effective Date: 10/08/2020</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.2</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 11/07/2019</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.0</td><td>Effective Date: 11/01/2018</td><td>New Drug Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Loargys (pegzilarginase-nbln)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Arginase 1 deficiency (ARG1-D) is an autosomal recessive urea cycle disorder caused by a mutation on the ARG1 gene. It is characterized by the buildup of plasma arginine and ammonia due to a dysfunctional arginase enzyme leading to progressive and debilitating neurologic manifestations. The hallmark feature of ARG1-D is prominent and progressive lower-limb spasticity leading to gait abnormalities, difficulty walking and climbing stairs, and the need for assistive devices. Most patients ultimately develop impairment of gross motor function and mobility, potentially becoming non-ambulatory or reliant on a wheelchair. Developmental delay and/or developmental regression, cognitive impairment, and seizures may also occur. Incidence has been estimated to occur in approximately 1 in 300,000-1,000,000 births.

- The 2019 guidelines for the diagnosis and management of urea cycle disorders recommend confirmation of ARG1-D diagnosis through genetic testing. Two pathogenic mutations in the ARG1 gene support an ARG1-D diagnosis.

- The standard of care for ARG1-D up until now has revolved around the treatment and prevention of hyperammonemia crisis. If a patient is experiencing hyperammonemia crisis, they should be rehydrated, nitrogen should be removed from the body using sodium benzoate or hemodialysis, and protein intake should be stopped. Once stabilization from hyperammonemia crisis occurs or prior to a crisis occurring, guidelines state the treatment goal is to reduce plasma arginine concentrations below 200 µmol/L through extreme restriction of natural protein. The recommended daily protein intake varies with age, growth rate, and clinical course with up to 50% of a patient's required protein being supplied as an essential amino acid mixture. Patients should have regular monitoring of plasma ammonia and amino acid levels, neurodevelopmental milestones, growth monitoring, liver function, and renal status.

- Loargys provides an additional treatment option for ARG1-D. It is an enzyme replacement therapy indicated for the treatment of hyperargininemia in adult and pediatric patients 2 years of age and older with ARG1-D in conjunction with dietary protein restriction.

- Safety and efficacy of Loargys were evaluated in the PEACE trial, a phase III randomized, double-blind, placebo-controlled, parallel-group study of 32 patients with ARG1-D. Patients were randomized in a 2:1 ratio to Loargys or volume-matched placebo during the double-blind period. Randomization was stratified by severity of prior history of hyperammonemia to minimize potential bias from possible treatment group imbalance. Patients continued their current individualized disease management regimen for the duration of the trial. Patients were included in the study if they had documented ARG1-D diagnosis via elevated plasma arginine, pathogenic variants in the ARG1 gene, and/or diminished erythrocyte ARG1 activity; plasma arginine greater than or equal to 250 µmol/L; and impairment on any secondary functional mobility assessment. Key exclusion criteria included symptomatic hyperammonemia (ammonia ≥ 100 µmol/L requiring acute care or hospitalization) within 6 weeks before first Loargys dose and

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

extreme mobility impairment. The primary endpoint was change from baseline in plasma arginine at week 24. The key secondary endpoint was functional mobility as assessed through mean change from baseline in the Gross Motor Function Measure part E (GMFM-E) score or the 2-minute walk test (2MWT) distance at week 24. Loargys lowered geometric mean plasma arginine from 354.0 µmol/L to 86.4 µmol/L at week 24 vs. 464.7 µmol/L to 426.6 µmol/L for placebo (95% CI: −67.1%, −83.5%; p-value < 0.0001) and normalized levels in 90.5% of patients (vs. 0% with placebo). In addition, clinically relevant functional mobility improvements were demonstrated with Loargys treatment and were sustained long-term through an additional 24 weeks of subsequent exposure; however, these changes were not statistically significant.

- Loargys has not been studied and there is no data to support use in combination with other enzyme replacement therapies for the treatment of ARG1-D.

References:

1. Loargys [prescribing information]. Chicago, IL: Immedica Pharma US Inc.; February 2026.
2. Sanchez Russoa R, Gasperinib S, Bubb G, et al. Efficacy and safety of pegzilarginase in arginase 1 deficiency (PEACE): a phase 3, randomized, double-blind, placebo-controlled, multi-centre trial. Lancet. 2024 Feb; 68: 102405.
3. National Organization of Rare Disorders. Arginase-1 deficiency. 2023 April 11. Available at: https://rarediseases.org/rare-diseases/arginase-deficiency/. Accessed on February 26, 2026.
4. Häberle J, Burlina A, Chakrapani A, et al. Suggested guidelines for the diagnosis and management of urea cycle disorders: first revision. JIMD. 2019 April 14; 42: 1192 – 1230.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 04/16/2026</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/01/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 03/09/2026</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/12/2026</td><td>Annual review of policy - no changes were made to the criteria</td></tr>
<tr><td>1.0</td><td>Effective Date: 02/13/2025</td><td>Preliminary Drug Review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Loqtorzi™ (toripalimab-tpzi)
HCPCS: J3263

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Loqtorzi is a programmed death receptor-1 (PD-1)–blocking antibody indicated
    - In combination with cisplatin and gemcitabine, for first-line treatment of adults with metastatic or with recurrent locally advanced nasopharyngeal carcinoma (NPC)
    - As a single agent for the treatment of adults with recurrent unresectable or metastatic NPC with disease progression on or after a platinum-containing chemotherapy
- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Loqtorzi following failure. NCCN treatment guidelines also do not recommend use of PD-L1 checkpoint inhibitors following a previous failure.
- Loqtorzi has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Loqtorzi [prescribing information]. Redwood City, CA: Coherus BioSciences, Inc.; October 2024.
2. Mai HQ, Chen QY, Chen D, et al. Toripalimab or placebo plus chemotherapy as first-line treatment in advanced nasopharyngeal carcinoma: a multicenter randomized phase 3 trial. Nat Med. 2021 Sep; 27 (9): 1536 - 43.
3. Wang FH, Wei XL, Feng J, et al. Efficacy, safety, and correlative biomarkers of toripalimab in previously treated recurrent or metastatic nasopharyngeal carcinoma: a phase II clinical trial (POLARIS-02). J Clin Oncol. 2021 Mar 1; 39 (7): 704 – 12.
4. National Comprehensive Cancer Network. Head and neck cancers (Version 2.2025). 2025 August 12. Available at: https://www.nccn.org/professionals/physician_gls/pdf/head-and-neck.pdf. Accessed on October 28, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 01/20/2026

P&T Date: 12/04/2025</td><td>Updated to add the trial and failure of preferred products statement</td></tr>
<tr><td>1.2</td><td>Effective Date: 12/12/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/15/2024</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/14/2023</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Lumvoa™ (veligrotug-vvze)
HCPCS: J3590

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Thyroid eye disease is a complex orbital inflammatory disease, which can be sight threatening, debilitating, and disfiguring. It is caused by antibodies directed against receptors in the thyroid cells and also on the surface of the cells behind the eyes. Muscles and fatty tissues behind the eye become inflamed leading to proptosis (eye bulging), strabismus (misalignment of the eyes), and diplopia (double vision) and in some cases can lead to blindness. Risk factors for the disease include female gender, middle age, and smoking. Active TED lasts for up to three years with the disease only responding to pharmacotherapy while it is active and inflammation is ongoing.

- Lumvoa is an insulin-like growth factor-1 receptor antagonist indicated for the treatment of thyroid eye disease (TED) regardless of thyroid eye disease activity or duration.

- Goals of treatment in thyroid disease consists of achieving a euthyroid state and symptom management. The majority of patients with thyroid eye disease have mild to moderate disease and require primarily supportive care with ocular lubrication, topical cyclosporine, and lifestyle modification, such as, smoking cessation, sodium restriction, and sunglasses.

- The current mainstay of treatment for moderate to severe thyroid eye disease is oral or intravenous corticosteroids. Treatment can be initiated at doses of oral prednisone 30 mg daily for four weeks or methylprednisolone 500 mg once weekly for weeks 1 to 6, then 250 mg once weekly for weeks 7 to 12 with cumulative dose 4.5 to 5 g over 12 weeks. The European Thyroid Association recommends initial treatment with IV glucocorticoids for moderate-to-severe, active orbitopathy, citing several studies that suggest it is more efficacious and associated with fewer side effects than oral therapy. Similar trials have not been performed in the United States, where initiation with oral glucocorticoids remains the most common first-line treatment. Treatment for thyroid eye disease should start in the early months of the active inflammatory phase, as treatment becomes less effective as the disease progresses.

- There are no clinical head to head studies that compare steroids and Lumvoa for the treatment TED. The 2021 European Group on Graves' orbitopathy (EUGOGO) clinical practice guidelines for the medical management of Graves' orbitopathy state insulin-like growth factor-1 receptor antagonists' incorporation into routine clinical practice is currently limited by the lack of comprehensive long-term efficacy and safety data and the absence of head-to-head comparison trials with intravenous glucocorticoids. However, a 2022 joint consensus statement by the American Thyroid Association and the European Thyroid Association state intravenous corticosteroids are the preferred treatment for active moderate-to-severe TED when disease activity is the prominent feature in the absence of either significant proptosis, defined as greater than or equal to 3 mm above normal for race and gender, or diplopia. In the presence of significant proptosis or diplopia, an insulin-like growth factor-1 receptor antagonist is the preferred treatment option.

- Safety and efficacy were evaluated in the THRIVE and THRIVE-2 trials, two randomized, double-masked, placebo-controlled studies of 301 patients with active or chronic TED. The patients in THRIVE had a clinical diagnosis of active TED with onset within 15 months and a clinical activity score of 3 or more. Participants in THRIVE-2 had a clinical diagnosis of chronic TED with onset greater than 15 months and any clinical activity score (0 - 7). Subjects were randomized 2:1 to receive 10

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

mg/kg Lumvoa every 3 weeks for 15 weeks. Primary endpoints included proptosis responder rate, mean change in proptosis from baseline, resolution of diplopia, change in clinical activity score (CAS), and overall response. The proptosis responder rate at week 15 was defined as the percentage of patients with ≥ 2 mm reduction in proptosis in the study eye from baseline, without deterioration in proptosis (≥ 2 mm increase) in the non-study eye. The proptosis responder rate at week 15 was 70% in THRIVE and 57% for THRIVE-2 which was statistically significant compared to placebo (p-value < 0.01). In both clinical trials, improvement of proptosis was observed as early as 3 weeks and proptosis continued to improve through week 15 in both active and chronic TED. Lumvoa also led to improvement in the less severely impacted non-study eye and a reduction in extraocular muscle volume in both eyes.

References:

1. Lumvoa [prescribing information]. Waltham, MA: Viridian Therapeutics, Inc; June 2026.
2. Clinicaltrials.gov. A safety, tolerability and efficacy study of veligrotug (VRDN 001) in healthy volunteers and participants with thyroid eye disease (THRIVE) (NCT05176639). Available at: https://www.clinicaltrials.gov/study/NCT05176639?spons=Viridian%20Therapeutics,%20Inc.&rank=2&page=1&limit=10#participation-criteria. Accessed on June 29, 2026.
3. Clinicaltrials.gov. An efficacy, safety, and tolerability study of veligrotug (VRDN-001), in participants with chronic thyroid eye disease (THRIVE-2) (NCT06021054). Available at: https://www.clinicaltrials.gov/study/NCT06021054?spons=Viridian%20Therapeutics,%20Inc.&rank=1&page=1&limit=10. Accessed on June 29, 2026.
4. Abrams J, Leibowitz S, Yen MT, et al. Efficacy and safety of veligrotug (VRDN-001), a full antagonist monoclonal antibody to IGF-1 receptor, in active thyroid eye disease: THRIVE phase 3 topline results. Available at: https://www.viridiantherapeutics.com/wp-content/uploads/2025/05/viridian-therapeutics-AACE-2025-Oral-presentation-thrive-top-level-data.pdf. Accessed on June 29, 2026.
5. McAlinden C. An overview of thyroid eye disease. Eye and Vision. 2014; 1: 9 – 12.
6. Ross DS, Burch HB, Cooper DS, et al. 2016 american thyroid association guidelines for diagnosis and management of hyperthyroidism and other causes of thyrotoxicosis. Thyroid. 2016; 26 (10): 1343 - 1421.
7. Bartalena L, Baldeschi L, Boboridis K, et al. The 2016 european thyroid association/european group on graves' orbitopathy guidelines for the management of graves' orbitopathy. Eur Thyroid J. 2016 Mar; 5 (1): 9 - 26.
8. Bartalena L, Kahaly GJ, Baldeschi L, at al. The 2021 european group on graves' orbitopathy (EUGOGO) clinical practice guidelines for the medical management of graves' orbitopathy. Eur J Endocrinol. 2021 Aug 27; 185 (4): G43.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 08/13/2026</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/03/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 07/13/2026</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/12/2026</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Luxturna® (voretigene neparvovec-rzyl)
HCPCS: J3398

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- The RPE65 gene is expressed in the retinal pigment epithelium layer and encodes the RPE65 protien. The RPE65 protein is involved in a multi-step process called the visual cycle, which converts light entering the eye into electrical signals that are transmitted to the brain. When light hits photosensitive pigments in the retina, it changes 11-cis retinal, a form of vitamin A, to all-trans retinal. This conversion triggers a series of chemical reactions that create electrical signals that are transmitted to the brain enabling sight. The RPE65 protein then helps convert all-trans retinal back to 11-cis retinal so the visual cycle can begin again. Mutations in the RPE65 gene result in dysfunctional proteins, visual cycle disruption, and visual impairment that progresses to blindness.

- Luxturna is an adeno-associated virus vector-based gene therapy indicated for the treatment of patients with confirmed biallelic RPE65 mutation-associated retinal dystrophy. Patients must have viable retinal cells defined as retinal thickness greater than 100 microns within the posterior pole and determined by the treating physician. Use in infants under 12 months of age is not recommended because of potential dilution or loss of Luxturna after administration due to the active proliferation of retinal cells occurring in this age group.

- The biallelic mutation of RPE65 is diagnosed with a genetic test. Results of one pathogenic variant in the homozygous state, or the same mutation on both alleles, confirm biallelic RPE65-mediated inherited retinal dystrophy. Compound heterozygousy is when there are two different pathogenic variants. Genetic testing showing compound heterozygousy in the trans configuration, with each allele having one pathogenic variant, confirms biallelic RPE65-mediated inherited retinal dystrophy. Results from genetic tests showing two different pathogenic variants in the cis configuration, where one allele has both variants and the other allele has none, rule out RPE65-mediated inherited retinal dystrophy. If a compound heterozygous state is detected, documentation of a trans configuration will be needed to confirm diagnosis.

- Safety and efficacy were established in an open-label, randomized trial of 31 pediatric and adult patients with biallelic RPE65 mutation-associated retinal dystrophy. Eligible patients had to be at least 3 years of age, have visual acuity less than 20/60 and/or visual field less than 20° in any meridian, and be within the mobility-testing passing range at baseline to allow for measurable improvement. Patients were randomized in a 2:1 ratio to either the intervention group, which received bilateral, sequential subretinal administration of voretigene neparvovec, or the control group. The primary endpoint was change in bilateral mobility testing. Secondary endpoints which were tested statistically in hierarchical order included: a change in full-field light sensitivity threshold testing, change in mobility test score for the first eye injected, and visual acuity testing. Mobility testing and full-field light sensitivity threshold testing were observed one year after the Luxturna injection and found to be significantly improved compared to the control group. The change in visual acuity noted after the first year was not significantly different between the control and Luxturna groups.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Luxturna [prescribing information]. Philadelphia, PA: Spark Therapeutics, Inc.; May 2022.
2. Bennett J, Wellman JA, Marshall KA, et al. Safety and durability of effect of contralateral-eye administration of AAV2 gene therapy in patients with childhood-onset blindness caused by RPE65 mutations: a follow-on phase 1 trial. Lancet. 2016 Aug 13; 388 (10045): 661 - 72.
3. Russell S, Bennett J, Wellman JA, et al. Efficacy and safety of voretigene neparvovec (AAV2-hRPE65v2) in patients with RPE65-mediated inherited retinal dystrophy: a randomized, controlled, open-label, phase 3 trial. Lancet. 2017 Aug 26; 390 (10097): 849 – 60.
4. Medlineplus.gov. RPE65 gene. 2020 Aug 18. Available at: https://medlineplus.gov/genetics/gene/rpe65/#synonyms. Accessed on February 4, 2021.
5. Chung DC, Bertelsen M, Lorenz B, et al. The natural history of inherited retinal dystrophy due to biallelic mutations in the RPE65 gene. Am J Ophthalmol. 2019 Mar; 199: 58 – 70.
6. Chung DC, McCague S, Yu ZF, et al. Novel mobility test to assess functional vision in patients with inherited retinal dystrophies. Clin Exp Ophthalmol. 2018 Apr; 46 (3): 247 – 59.

Policy History		
#	Date	Change Description
2.3	Effective Date: 04/16/2026	Updated to include the requirement providers will submit clinical outcomes to the appropriate provider portal and the trial and failure of preferred products statement
2.2	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 04/06/2023	Updated approval length to 3 months
1.9	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.
1.8	Effective Date: 04/08/2021	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 04/16/2020	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 05/09/2019	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 08/07/2018</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 05/03/2018</td><td>New drug review, updated background and indication, preliminary criteria updated by removing restrictions based on visual acuity/visual fields as well as adding necessity to submit full field light sensitivity at base line and after one year</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/08/2018</td><td>Update to Preliminary Criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/01/2018</td><td>UM medical management system update for BCN and BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/07/2017</td><td>Update to Preliminary Criteria</td></tr>
<tr><td>1.0</td><td>Effective Date: 02/09/2017</td><td>Preliminary Criteria</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Lyfgenia™ (lovotibeglogene autotemcel)
HCPCS: J3394

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Lyfgenia is an autologous hematopoietic stem cell-based gene therapy indicated for the treatment of patients 12 years of age or older with sickle cell disease (SCD) and a history of vaso-occlusive events (VOEs). Lyfgenia's use is limited in those with α-thalassemia trait (-α3.7/-α3.7) and they may experience anemia with erythroid dysplasia that may require chronic red blood cell transfusions. Lyfgenia has not been studied in patients with more than two α-globin gene deletions.

- Sickle cell disease is a recessive hemolytic anemia caused by a mutation in the β-globin gene. It is characterized by the formation of sickle hemoglobin (HbS). HbS is less soluble and less elastic than fetal hemoglobin (HbF) or normal adult hemoglobin (HbA). The disease involves multicellular adhesion between sickled red blood cells, white blood cells, platelets, and endothelial cells resulting in vaso-occlusive crises (VOCs). VOCs are the hallmark of SCD and are experienced by approximately 70% of patients. They are recurring, unpredictable, painful events that decrease organ function with complications including stroke, pneumonia, vision loss, pulmonary hypertension, leg ulcers, and sepsis. VOCs are often treated as an emergency requiring acute care and are the number one reason patients with SCD visit the emergency room or are hospitalized.

- Hydroxyurea is a ribonucleotide reductase inhibitor which increases the amount of circulating HbF in the body and has been a mainstay of therapy. It also has been shown to lower the number of circulating leukocytes and reticulocytes altering the expression of adhesion molecules; raise red blood cell (RBC) volume; and improve cellular deformability and rheology, all of which contribute to a decrease in VOCs. The 2014 National Heart, Lung, and Blood Institute Evidence-Based Management of Sickle Cell Disease Guidelines recommend the use of hydroxyurea for the following patient populations:

    - In adults with SCD who have three or more sickle cell-associated moderate to severe pain crises in a 12-month period

    - In adults with SCD who have sickle cell-associated pain that interferes with daily activities and quality of life

    - In adults with SCD who have a history of severe and/or recurrent acute coronary syndrome

    - In adults with SCD who have severe symptomatic chronic anemia that interferes with daily activities or quality of life

    - In infants 9 months of age and older, children, and adolescents with SCD, offer treatment with hydroxyurea regardless of clinical severity to reduce complications

    - In adults and children with SCD who have chronic kidney disease and are taking erythropoietin

- The guidelines recommend starting hydroxyurea at a dose of 15 mg/kg/day for adults and increasing the dose by 5 mg/kg/day every 8 weeks to a maximum dose of 35 mg/kg/day. A clinical response to therapy may take 3 – 6 months. Therefore, a 6 month trial on the maximum tolerated dose is required prior to considering discontinuation

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

due to treatment failure, whether due to lack of adherence or failure to respond to therapy. Guidelines have not yet been updated to include recommendations for use of gene therapy.

- Safety and efficacy were evaluated in the HGB-206 trial, a single-arm, 24-month, open-label, multicenter Phase I/II study of 32 patients with SCD and a history of at least 4 VOEs in the 24 months prior to study entry. Subjects were excluded from the trial if they had sickle β-thalassemia; were positive for HIV-1 or HIV-2, hepatitis B, or hepatitis C; had inadequate bone marrow function, as defined by an absolute neutrophil count of less than 1000/µL or less than 500/µL for patient taking hydroxyurea or a platelet count less than 120,000/µL without hypersplenism; had advanced liver disease defined as AST, ALT, or total bilirubin greater than 3 times the upper limit of normal; had prior treatment with an allogenic stem cell transplant; or had a prior or current malignancy or immunodeficiency disorder. The primary endpoints were complete resolution of VOEs (VOE-CR) and severe VOEs (sVOE-CR) between 6 months and 18 months after infusion of Lyfgenia. VOEs were defined as any of the following events requiring evaluation at a medical facility: an episode of acute pain with no medically determined cause other than vaso-occlusion, lasting more than 2 hours; acute chest syndrome (ACS); acute hepatic sequestration; and/or acute splenic sequestration. Severe VOE (sVOE) were defined as either of the following events: VOE requiring a hospitalization or multiple visits to an emergency department/urgent care over 72 hours and receiving intravenous medications at each visit or priapism requiring any level of medical attention. Twenty-eight (88%) of 32 patients achieved VOE-CR between 6 and 18 months after Lyfgenia infusion. Thirty (94%) of 32 patients achieved sVOE-CR during the 6 and 18 months after infusion of Lyfgenia.

- There is currently no data supporting administration of Lyfgenia following administration of another gene therapy. Lyfgenia should not be given following any other gene therapy for SCD as safety and efficacy has not been established.

References:

1. Lyfgenia [prescribing information]. Somerville, MA: Bluebird Bio, Inc.; December 2023.
2. Centers for Disease Control and Prevention. Sickle cell disease: data and statistics. 2023 July 6. Available at: https://www.cdc.gov/ncbddd/sicklecell/data.html. Accessed on: December 11, 2023.
3. Ogedegbe HO. Sickle cell disease: an overview. Laboratory Medicine. 2002; 33(7): 515 – 543.
4. Centers for Disease Control and Prevention. Sickle cell disease: complications and treatments. 2023 July 6. Available at: https://www.cdc.gov/ncbddd/sicklecell/treatments.html. Accessed on December 11, 2023.
5. Brousseau DC, Panepinto JA, Nimmer M, et al. The number of people with sickle-cell disease in the United States: national and state estimates. Am J Hematol. 2010; 85(1): 77 – 78.
6. National Heart, Lung, and Blood Institute. Evidence-based management of sickle cell disease: expert panel report, 2014. Available at: https://www.nhlbi.nih.gov/sites/default/files/publications/56-364NFULL.pdf. Accessed on: December 11, 2023.
7. Negre O, Eggimann AV, Beuzard Y, et al. Gene therapy of the β-hemoglobinopathies by lentiviral transfer of the β(A(T87Q))-globulin gene. Hum Gene Ther. 2016; 27 (2): 148–165.
8. Clinicaltrial.gov. A study evaluating the efficacy and safety of lentiGlobin BB305 drug product in beta-thalassemia major and sickle cell disease (NCT02151526). Available at: https://clinicaltrials.gov/ct2/show/NCT02151526?term=lentiglobin&cond=Beta-Thalassemia&draw=1&rank=4. Accessed on December 11, 2023.
9. Clinicaltrials.gov. A study evaluating the safety and efficacy of the lentiGlobin BB305 drug product in severe sickle cell disease (NCT02140554). Available at: https://clinicaltrials.gov/ct2/show/NCT02140554?intr=%22LentiGlobin+BB305%22+OR+%22Zynteglo%22&draw=2&rank=5. Accessed on December 11, 2023.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 07/21/2025

P&T Date: 06/05/2025</td><td>Updated to include the required use of a provider portal to submit clinical outcomes data after Lyfgenia administration</td></tr>
<tr><td>1.4</td><td>Effective Date: 12/12/2024</td><td>Updated to allow use of electrophoresis for diagnosis of sickle cell disease and changed the authorization period from 6 months to 12 months</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/08/2024</td><td>New policy - replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 01/02/2024</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/21/2023</td><td>UM medical management system update for BCN and BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 10/12/2023</td>
<td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Lynozyfic™ (linvoseltamab-gcpt)
HCPCS: J9601

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Lynozyfic is a bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least four prior lines of therapy, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody.

- Safety and efficacy were evaluated in the LINKER-MM1 trial, a phase I/II, open-label, multicenter study of 80 patients with relapsed/refractory multiple myeloma who had previously received at least 3 prior therapies, including a proteasome inhibitor (PI), an immunomodulatory agent (IMiD), and an anti-CD38 antibody. . Subjects had not received BCMA-directed bispecific antibody therapy, prior bispecific T-cell engaging therapy, or prior BCMA CAR-T cell therapy. The study excluded patients who had known multiple myeloma brain lesions or meningeal involvement, history of a neurodegenerative condition, history of seizure within 12 months prior to study enrollment, active infection, a history of stem cell transplantation within 12 weeks, and an ECOG performance score of 2 or higher. The primary endpoint were objective response rate (ORR). The ORR was 70% with 45% achieving a complete response (CR) or better. The median time to first response was 0.95 months (range: 0.5 to 6 months). With a median follow-up of 11.3 months among responders, the estimated duration of response (DOR) rate was 89% (95% CI: 77, 95) at 9 months and 72% (95% CI: 54, 84) at 12 months.

- Due to the risk of cytokine release syndrome and neurological toxicities, the step-up doses of Lynozyfic are required to be administered in an inpatient setting.

- Lynozyfic has not been studied when given following prior treatment with Lynozyfic or following any other bispecific B-cell maturation antigen (BCMA)-directed CD3 T-cell engager therapy.

References:

1. Lynozyfic [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; July 2025.
2. Bumma N, Jagannath S, Lee HC, et al. Linvoseltamab for treatment of relapsed/refractory multiple myeloma. J Clin Onc. 2024 August; 42 (22): 2702 – 12.
3. National Comprehensive Cancer Network. Multiple myeloma (Version 1.2026). 2025 June 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on July 7, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 08/13/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 05/13/2026</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/07/2025</td><td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Margenza™ (margetuximab-cmkb)
HCPCS: J9353

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Margenza is a HER-2 receptor antagonist indicated, in combination with chemotherapy, for the treatment of adult patients with metastatic HER2-positive breast cancer who have received two or more prior anti-HER2 regimens, at least one of which was for metastatic disease.

- Per the 2022 National Comprehensive Cancer Network breast cancer treatment guidelines, patients are eligible for adjuvant HER2-directed treatment if they have HER2-positive breast cancer defined as:

    - Single probe average HER2 copy number greater than or equal to 6.0 signals/cell
      OR
    - Dual probe HER2/CEP17 ratio greater than or equal to 2.0
      OR
    - Dual probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell

References:

1. Margenza [prescribing information]. Rockville, MD: MacroGenics, Inc.; February 2025.
2. National Comprehensive Cancer Network. Breast cancer (Version 5.2025). 2025 Oct 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on December 12, 2025.
3. Clinicaltrials.gov. A phase 3, randomized study of margetuximab plus chemotherapy vs trastuzumab plus chemotherapy in the treatment of patients with HER2+ metastatic breast cancer who have received prior anti-HER2 therapies and require systemic treatment (NCT02492711). Available at: https://clinicaltrials.gov/ct2/show/NCT02492711. Accessed on December 21, 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 02/12/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/02/2023</td><td>Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/10/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 04/22/2021</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/04/2021</td><td>New policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Medical Benefit Oncology Drug Class Policy

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes/No

Additional BCBSM Part B Criteria: Yes

Medications covered by this policy include, but not limited to the following:

Appendix A

Drug	HCPCS
Avgemsi™ (gemcitabine)	J9184
Alimta® (pemetrexed)	J9305
Aphexda (motixafortide)	J2277
Avopef™(etoposide)	J9999
Axtle (pemetrexed)	J9292
Beizray™ (docetaxel)	J9174
Bizengri® (zenocutuzumab-zbco)	J9382
Boruzu® (bortezomib)	J9054
Danyelza® (naxitamab-gqgk)	J9348
Cyramza® (ramucirumab)	J9308
Darzalex® (daratumumab)	J9415
Darzalex FasPro® (daratumumab and hyaluronidase-fihj)	J9144
Datroway® (datopotamab deruxtecan-dlnk)	J9011
Decnupaz (pivekimab sunirine-pvzy)	J9999
Docivyx® (docetaxel)	J9172
Elahere® (mirvetuximab soravtansine-gynx)	J9063
Elzonris® (tagraxofusp-erzs)	J9269
Emrelis™ (telisotuzumab vedotin-tllv)	J9326
Erbitux® (cetuximab)	J9055
Evdi (trabectedin)	J9999
Favlyxa™ (fluorouracil)	J9999
Frindovyx™ (cyclophosphamide)	J9072
Fyarro™ (sirolimus protein-bound particles)	J9331
Jelmyto® (mitomycin)	J9281
Kimmtrak® (tebentafusp-tebn)	J9274

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Kyxata™ (carboplatin)	J9278
Lymphir™ (denileukin diftitox-cxdl)	J9161
Padcev® (enfortumab vedotin-ejfv)	J9177
Pemetrexed	J9296, J9294, J9297, J9314, J9323, J9322, J9292
Pemfexy™ (pemetrexed)	J9304
Pemrydi RTU® (pemetrexed)	J9324
Polivy® (polatuzumab vedotin-piiq)	J9309
Rybrevant® (amivantamab-vmjw)	J9061
Rybrevant Faspro® (amivantamab and hyaluronidase-lpuj)	J9062
Sarclisa® (isatuximab-irfc)	J9227
Sarclisa Escena (isatuximab-irfc)	J9227
Tivdak® (tisotumab vedotin-tftv)	J9273
Trodelvy® (sacituzumab govitecan-hziy)	J9317
Vivimusta® (bendamustine)	J9056
Vykoura™(leucovorin calcium)	J3490
Vyloy® (zolbetuximab-clzb)	J1326
Yondelis® (trabectedin)	J9352
Ziihera® (zanidatamab-hrii)	J9276
Zusduri™ (mitomycin)	J9282
Zynlonta® (loncastuximab tesirine-lpyl)	J9359

Background Information:

- Definition of an oncology medication: Any drug (chemotherapy, hormone therapy, gene therapy, biological therapy, or other drug) which is used to treat a cancer (a malignant growth or tumor resulting from the division of abnormal cells) diagnosis. Supportive therapy used for cancer is not in scope of this policy.

- The medications added to the Oncology Drug Class Policy go through a detailed review by a pharmacist to determine if the policy covers the intended criteria for the drug. Each drug is evaluated on the following:

    - Indication

    - Place in therapy

    - Category based on uniform NCCN guidance or category 1 and 2A recommendations

    - Cost of the medication

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety of the medication
- Genetic testing requirements

References:

1. NCCN guidelines for the specific disease state. Available at: https://www.nccn.org/professionals/physician_gls/f_guidelines.asp. Accessed October 23, 2017.
2. Drug specific package labeling. Available at: https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm. Accessed October 23, 2017.

Policy History		
#	Date	Change Description
6.2	Effective Date: 10/01/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Aphexda, Avopef, Evdi, Favlyxa, and Vykoura
6.1	Effective Date: 08/13/2026	Updated to include Decnupaz, Aphexda, Sarclisa Escenda, and Axtle
6.0	Effective Date: 08/12/2026	UM medical management system update for BCBS and BCN for Cyramza, Frindovyx, and Rybrevant Faspro UM medical management system update for MAPPO and BCNA for Rybrevant Faspro
5.9	Effective Date: 06/11/2026	Updated to include Evdi
5.8	Effective Date: 05/13/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Avgemsi , Boruzu, Kyxata, and Vivimusta
5.7	Effective Date: 04/16/2026	Updated to include Avopef, Cyramza, Favlyxa, Frindovyx, Vivimusta, and Vykoura
5.6	Effective Date: 03/04/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Beizray, Docivyx, Emrelis, and Zusduri
5.5	Effective Date: 02/12/2026	Updated to include Rybrevant Faspro, Kyxata, Boruzu, and Avgemsi
5.4	Effective Date: 12/04/2025	Updated to include Docivyx and Beizray
5.3	Effective Date: 12/01/2025	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Datroway
5.2	Effective Date: 08/20/2025	UM medical management system update for BCBS, BCN, MAPPO, and BCNA for Bizengri, Vyloy, and Ziihera
5.1	Effective Date: 08/07/2025	Updated to include Emrelis and Zusduri

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

5.0	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Lymphir
4.9	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to include the statement that there be no prior failure based on efficacy of a drug with the same mechanism of action unless retrial with the same mechanism of action is guideline recommended or supported by a randomized, controlled clinical trial and added Datroway
4.8	Effective Date: 02/13/2025	Added Ziihera and Bizengri
4.7	Effective Date: 01/01/2025	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for J-code J9292
4.6	Effective Date: 12/12/2024	Added Vyloy
4.5	Effective Date: 10/03/2024	Added Lymphir, Darzalex, and Darzalex FasPro and to remove Adcetris, Besremi, Kyprolis, Romidepsin, and Sylvant
4.4	Effective Date: 04/11/2024	Added Danyelza
4.3	Effective Date: 02/08/2024	Added pemetrexed
4.2	Effective Date: 01/01/2024	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for J-code J9324
4.1	Effective Date: 08/23/2023	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Elahere
4.0	Effective Date: 02/09/2023	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Pemfexy
3.9	Effective Date: 02/02/2023	Added Elahere and removed Asparlas, Doxil, Evomela, Imlygic, Istodax, Ixempra, Lipodox, Mylotarg, Portrazza, and Zepzelca
3.8	Effective Date: 01/01/2023	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Asparlas, Doxil, Evomela, Imlygic, Istodax, Ixempra, Lipodox, Mylotarg, Pemetrexed, Portrazza, and Zepzelca
3.7	Effective Date: 12/01/2022	Added Pemfexy
3.6	Effective Date: 10/06/2022	Added Kyprolis
3.5	Effective Date: 05/23/2022	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Tivdak and Kimmtrak

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3.4	Effective Date: 04/14/2022	Added Kimmtrak, removed Adriamycin, Beleodaq,Dacarbazine, Lartruvo, Oncovin, Pemetrexed, Proleukin, Rubex, Synribo, Torisel, Velcade, and Vyxeos, and updated approval length to allow for FDA recommended dosing or up to 6 months at a
3.3	Effective Date: 02/10/2022	Added Fyarro
3.2	Effective Date: 12/09/2021	Added Tivdak and Besremi
3.1	Effective Date: 09/27/2021	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Rybrevant
3.0	Effective Date: 08/12/2021	Added Rybrevant
2.9	Effective Date: 07/26/2021	UM medical management system update to BCBS, BCN, MAPPO, and BCNA for Zynlonta
2.8	Effective Date: 06/10/2021	Added Zynlonta
2.7	Effective Date: 02/04/2021	Added Asparlas and Elzonris
2.6	Effective Date: 12/01/2020	UM medical management system update for PPO for Darzalex and Darzalex FasPro
2.5	Effective Date: 10/08/2020	Added Beleodaq and Sylvant
2.4	Effective Date: 08/24/2020	UM medical management system update to BCNA and MAPPO for Imlygic
2.3	Effective Date: 08/13/2020	Removed Herceptin and added Zepzelca
2.2	Effective Date: 07/24/2020	UM medical management system update to BCNA and MAPPO for Jelmyto, Trodelvy, and Darzalex Faspro
2.1	Effective Date: 06/11/2020	Added Jelmyto and Trodelvy
2.0	Effective Date: 05/26/2020	UM medical management system update for Darzalex Faspro
1.9	Effective Date: 04/16/2020	Added Sarclisa and romidepsen
1.8	Effective Date: 03/16/2020	UM medical management system update to Polivy for MAPPO and BCNA
1.7	Effective Date: 02/06/2020	Added Padcev

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 08/15/2019</td><td>Added Polivy</td></tr>
<tr><td>1.5</td><td>Effective Date: 07/22/2019</td><td>UM medical management system update for BCNA and MAPPO for Darzalex</td></tr>
<tr><td>1.4</td><td>Effective Date: 05/09/2019</td><td>Added Herceptin, Doxil, and Lipodox. Removed Treanda and Ogivri.</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/14/2019</td><td>Updated to allow for NCCN category 1 and 2A recommendations only</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update to BCNA and MAPPO for Sylvant</td></tr>
<tr><td>1.1</td><td>Effective Date: 11/01/2018</td><td>New medical benefit specific oncology policy due to the retirement of the joint medical/pharmacy benefit Oncology Drug Class Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes – Adcentris and Yondelis Only</td></tr>
<tr><td>BCNA</td><td>Yes – Adcentris and Yondelis Only</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/10/2016</td><td>New Criteria and UM medical management system update for BCN for Darzalex</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Medications for Multiple Sclerosis

Briumvi™ (ublituximab-xiiy) **- HCPCS: J2329**
Lemtrada® (alemtuzumab) **- HCPCS: J0202**
Ocrevus® (ocrelizumab) **- HCPCS: J2350**
Ocrevus Zunovo™ (ocrelizumab and hyaluronidase-ocsq) **- HCPCS: J2351**

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Multiple sclerosis (MS) is a chronic progressive inflammatory autoimmune disease of the central nervous system, involving axonal deterioration and demyelination. Signs and symptoms vary greatly and can include blurry or double vision, muscle weakness and stiffness, tingling in limbs, fatigue, difficulty concentrating, and many other debilitating symptoms. MS typically presents between the ages of 20 and 45, and women are affected by MS three times more frequently than men. Onset of symptoms before age 21 occurs in 3-5% of cases and is considered juvenile MS.

- Several clinical presentations of MS have been identified including relapsing-remitting MS (RRMS), secondary progressive MS (SPMS), primary progressive MS (PPMS), and a rare form called progressive-relapsing (PRMS). All forms of MS are associated with neurologic dysfunction. Relapsing-remitting MS affects the majority of newly diagnosed individuals and about half of the people diagnosed with RRMS will transition to SPMS within 10-20 years of initial diagnosis. Relapses are characterized as periods of sudden worsening of symptoms or new symptoms. Often, the periods of remission between relapses will last weeks, months, or even years.

- Patients diagnosed with PPMS experience continued and gradual physical decline without remissions. PPMS affects as many men as women and typically presents after the age of 40. PRMS affects only about 5% of patients diagnosed with MS and is characterized by steady worsening dysfunction with distinct exacerbations.

- The American Academy of Neurology (AAN) 2018 treatment guidelines for adults with MS state that there are a variety of disease modifying therapies (DMTs) available; therefore, evaluating patient preference may improve acceptance and adherence to DMT. Considerations when choosing DMT include safety, route of administration, lifestyle, cost, efficacy, common adverse effects, tolerability, comorbid conditions, and concomitant medications. Recommendations for first-line therapy are not specified, with the exception of Lemtrada (alemtuzumab), Tysabri (natalizumab), and Gilenya® (fingolimod) for highly active MS and Ocrevus (ocrelizumab) for primary progressive MS.

- There are no formal guidelines for the treatment of pediatric MS which is rare. Less than 5,000 children and teens are living with MS in the United States. Pediatric patients with MS typically experience more frequent relapses compared to adults with MS but recover from relapses more quickly than adults. Although Gilenya and Tascenso ODT are the only approved therapies for pediatric MS, many of the disease modifying therapies prescribed for adults with MS are also prescribed for pediatric MS based on supporting data such as small retrospective studies and case studies.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Drug Facts and Comaprisons. eFacts (online). 2022. Available from Wolters Kluwer Health, Inc. Accessed January 3, 2023.
2. Rae-Grant A, Day GS, Marrie RA, et al. Practice guideline recommendations summary: disease-modifying therapies for adults with multiple sclerosis. Report of the guideline development, dissemination, and implementation subcommittee of the American Academy of Neurology. Neurology. 2018;90:777-788. Available at: https://n.neurology.org/content/neurology/90/17/777.full.pdf. Accessed on May 25, 2026.
3. Lotze TE. Treatment and prognosis of pediatric multiple sclerosis. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed on January 3, 2023).
4. National Multiple Sclerosis Society. Pediatric MS. Available at: https://www.nationalmssociety.org/For-Professionals/Clinical-Care/Managing-MS/Pediatric-MS. Accessed on January 3, 2023.
5. IPD Analytics. Payer & Provider Insights. January 2022. Accessed January 3, 2023. https://www.ipdanalytics.com
6. Tyruko [prescribing information]. Princeton, NJ: Sandoz, Inc.; August 2023
7. Ocrevus Zunovo [prescribing information]. South San Francisco, CA: Genetech, Inc: September 2024.

Policy History		
#	Date	Change Description
3.3	Effective Date: 08/13/2026	Added requirement for Tascenso ODT that member must be unable to swallow tablets or capsules.
3.2	Effective Date: 06/22/2026	UM medical management system update for MAPPO and BCNA for Briumvi, Ocrevus, and Ocrevus Zunovo
3.1	Effective Date: 10/09/2025	Annual review.
3.0	Effective Date: 10/03/2024	Updated policy to include Ocrevus Zunovo (ocrelizumab and hyaluronidase-ocsq) Removed: Aubagio, Bafiertam, Betaseron,Tecfidera, Gilenya, Copaxone, Kesimpta, Mayzent, Plegridy, and Ponvory from list of products which will now refer to the General Utilization Management Policy for criteria. UM medical management system update for BCBSM and BCN for Ocrevus Zunovo
2.9	Effective Date: 10/12/2023	Updated policy to include Tyruko Added criteria for biosimilar products
2.8	Effective Date: 02/02/2023	Updated policy to include Briumvi
2.7	Effective Date: 01/26/2023	UM medical management system update for BCBSM and BCN for Briumvi
2.6	Effective Date: 10/06/2022	Added Mavenclad and generic Copaxone back to policy
2.5	Effective Date: 02/10/2022	Added Tascenso to the policy
2.4	Effective Date: 06/10/2021	Added Ponvory to the policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.3	Effective Date: 10/08/2020	Added Kesimpta to the policy
2.2	Effective Date: 06/11/2020	Updated policy to new template and to include Bafiertam and Zeposia. Criteria has been updated to reflect what is currently implemented.
2.1	Effective Date: 12/05/2019	Added Vumerity to the policy
2.0	Effective Date: 10/01/2019	UM medical management system update for BCBSM and BCN for Ocrevus and Lemtrada
1.9	Effective Date: 08/15/2019	Updated criteria for Ocrevus, Lemtrada, and Tysabri to be just indication only After MBDC: Removed investigational use sections from drug specific criteria due to updated indications for many MS medications
1.8	Effective Date: 06/06/2019	Added criteria for Mayzent and Mavenclad Deleted Zinbryta (withdrawn by the FDA due to safety issues), Updated criteria to FDA approved age/indication Updated criteria to reflect t/f of BCBSM/BCN preferred drugs Updated QL to FDA approved dosing
1.7	Effective Date: 02/14/2019	Quantity Limit Update for Lemtrada
1.6	Effective Date: 08/09/2018	Annual Review of Medical Policy
1.5	Effective Date: 07/01/2018	UM medical management system update to be removed for Ocrevus and Lemtrada
1.4	Effective Date: 08/10/2017	Added criteria for Ocrevus Changes to step therapies for Lemtrada and Tysabri
1.3	Effective Date: 05/04/2017	New Drug for Ocrevus
1.2	Effective Date: 11/10/2016	Added criteria for Zinbryta and preliminary criteria for Ocrevus
1.1	Effective Date: 08/11/2016	Criteria Update: MD attestation and Lemtrada QL and Authorization Criteria
1.0	Effective Date: 08/13/2015	MS Disease Modifying Agents Coverage Guidelines (Class Review)

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Mim8 (denecimig) injection
HCPCS: J3590

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Hemophilia A is defined as a deficiency in FVIII clotting factor and is the most common type of hemophilia affecting 80% of the hemophiliacs
- Since hemophilia A is an X-linked recessive disease caused by a mutation on the FVIII gene, this disease mostly affects men while women are typically carriers
- There are three main levels of severity
    - Mild hemophilia (representing approximately 25% of cases) are patients with a factor level of 5% to 40% who usually do not experience any major problems in everyday life
    - Moderate hemophilia (representing approximately 15% of cases) are patients with a factor level of 1% to 5% who may have occasional bleeding, but usually only following surgery or an injury
    - Severe hemophilia (representing approximately 60% of cases) are patients with a factor level of < 1% who often have bleeding for no known reason, especially in the joints and muscles. From infancy, patients bruise easily and as they become more active, learn to walk, and put more strain on their joints and muscles, bleeding starts to occur. Bleeding in the brain, throat, or abdomen are life threatening events and can be significantly reduced with appropriate drug therapy and disease management
- Hemophilia A occurs in approximately 1 in 10,000 births
- Clotting factors are the treatment of choice for people with hemophilia as they are very safe and effective for treating and preventing bleeds
- Failure of a patient to respond to factor concentrates should be reason to suspect the presence of inhibitors
- Bypassing agents are used in the treatment of inhibitors as they contain factors that can stimulate the formation of a clot and stop bleeding
- While these treatments are effective, many limitations exist including potential for bleeding or over-production of clots, and the need for frequent doses
- Guidelines have not been updated to include the newer non-factor SQ treatment options

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. PR Newswire. Novo Nordisk submits biologic license application (BLA) to FDA for Mim8; an investigational, prophylaxis treatment for people with hemophilia A with or without inhibitors. 2025 Sept 29. Available at: https://www.prnewswire.com/news-releases/novo-nordisk-submits-biologics-license-application-bla-to-fda-for-mim8-an-investigational-prophylaxis-treatment-for-people-living-with-hemophilia-a-with-or-without-inhibitors-302568838.html. Accessed on June 8, 2026.
2. Mancuso ME, Chan AKC, Shanmukhaiah C, et al. Mim8 bispecific antibody prophylaxis in hemophilia A with or without inhibitors. NEJM. 2026; 394 (17): 1696 – 709.
3. Clinicaltrials.gov. Safety, efficacy, and exposure of subcutaneously administered NNC0365-3769 (Mim8) prophylaxis in children with haemophilia A with or without FVIII inhibitor (NCT05306418). Available at: https://clinicaltrials.gov/study/NCT05306418. Accessed on June 8, 2026.
4. Biospace.com. Novo Nordisk A/S: once-weekly Mim8 is well-tolerated and efficacious in children living with haemophilia A with and without inhibitors. 2025 Feb 7. Available at: https://www.biospace.com/press-releases/novo-nordisk-a-s-once-weekly-mim8-is-well-tolerated-and-efficacious-in-children-living-with-haemophilia-a-with-and-without-inhibitors. Accessed on June , 2026.
5. National Organization for Rare Disorders. Hemophilia A. 2025 May 19. Available at: https://rarediseases.org/rare-diseases/hemophilia-a/?filter=ovr-ds-resources. Accessed on June 8, 2026.
6. World Federation of Hemophilia. Guidelines for the management of hemophilia. Haemophilia. 2020 August 3. Available at: https://onlinelibrary.wiley.com/doi/epdf/10.1111/hae.14046. Accessed on: June 8, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2026</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Monsunetuzumab Products

Lunsumio™ (mosunetuzumab-axgb) **- HCPCS: J9350**

Lunsumio VELO™ (mosunetuzumab-axgb) **- HCPCS: J9350**

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Lunsumio is a bispecific CD20-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory follicular lymphoma after two or more lines of systemic therapy.

- Safety and efficacy were evaluated in a phase II, open-label, multicenter, multi-cohort study of 90 patients with relapsed/refractory follicular lymphoma who had received at least two prior therapies, including an anti-CD20 monoclonal antibody and an alkylating agent. Patients were included if they had one measurable lesion, grade 1 – 3a disease, and an ECOG score of 1 or less. The study excluded patients with active infections; a history of autoimmune disease; prior allogeneic transplant; any history of CNS lymphoma; myocardial infarction, cardiac angioplasty or stenting, unstable angina, unstable arrythmias, or New York Heart Association Class III or greater congestive heart failure events within 6 months of therapy administration; or a stroke event within 2 years of therapy administration. Patients received step-up doses of 1 mg on cycle 1 day 1 and 2 mg on cycle 1 day 8, followed by 60 mg on cycle 1 day 15 and on cycle 2 day 1, then 30 mg every 3 weeks in subsequent 21 day cycles. Lunsumio was administered for 8 cycles unless patients experienced progressive disease or unacceptable toxicity. After 8 cycles, patients with a complete response discontinued therapy. Patients with a partial response or stable disease continued treatment up to 17 cycles unless they experienced progressive disease or unacceptable toxicity. The primary endpoints were objective response rate (ORR) and duration of response (DOR). An objective response was seen in 80% (72/90 [95% CI: 70 - 88]) of patients treated with Lunsumio, with a majority maintaining responses for at least 18 months (57% [95% CI: 44 - 70]). The median DOR among those who responded was almost two years (22.8 months [95% CI: 10 - not reached]). A complete response (CR) was achieved in 60% of patients (54/90 [95% CI: 49 - 70]).

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- Lunsumio has not been studied when given following prior treatment with Lunsumio or following any other bispecific CD20-directed CD3 T-cell engager.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Lunsumio [prescribing information}. South San Francisco, CA: Genentech, Inc.; December 2025.
2. Lunsumio VELO [prescribing information]. South San Francisco, CA: Genentech, Inc.; December 2025.
3. United States Food and Drug Administration. FDA grants accelerated approval to mosunetuzumab-axgb for relapsed or refractory follicular lymphoma. 2022 Dec 22. Available at: https://www.fda.gov/drugs/resources-information-approved-drugs/fda-grants-accelerated-approval-mosunetuzumab-axgb-relapsed-or-refractory-follicular-lymphoma. Accessed on December 27, 2022.
4. National Comprehensive Cancer Network. B-cell lymphomas (Version 1.2026). 2025 Dec 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on January 5, 2026.
5. Budde LE, Sehn LH, Matasar M, et al. Safety and efficacy of mosunetuzumab, a bispecific antibody, in patients with relapsed or refractory follicular lymphoma: a single-arm, multicenter, phase 2 study. Lancet Oncol. 2022 Aug; 23 (8): 1055 - 65.
6. Clinicaltrials.gov. A safety, efficacy and pharmacokinetic study of BTCT4465A (mosunetuzumab) as a single agent and combined with atezolizumab in Non-Hodgkin's lymphoma (NHL) and chronic Lymphocytic leukemia (CLL) (NCT02500407). Available at: https://clinicaltrials.gov/study/NCT02500407#participation-criteria. Accessed on January 5, 2026.

Policy History		
#	Date	Change Description
1.5	Effective Date: 02/12/2026	Updated to include Lunsumio VELO. Policy name was changed from Lunsumio (mosunetuzumab-axgb) to Mosunetuzumab Products.
1.4	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 10/03/2024	Updated to remove requirement that the disease be measurable, criteria surrounding cardiac requirements, and that the patient does not have autoimmune disease. Added requirements that the patient has no prior history of autologous stem cell transplant within the past 100 days and has not received prior treatment with any CAR-T therapy 30 days prior to administration
1.2	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
1.1	Effective Date: 08/23/2023	UM medical management system update for BCNA, MAPPO, BCN, and BCBS

Line of Business	**PA Required in Medical Management System (Yes/No)**
BCBS	Yes
BCN	Yes
MAPPO	Yes

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		BCNA: Yes
1.0	Effective Date: 02/02/2023	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Monjuvi® (tafasitamab-cxix)
HCPCS: J9349

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Monjuvi is indicated for use in combination with lenalidomide for the treatment of adult patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL) not otherwise specified, including DLBCL arising from low grade lymphoma, and who are not eligible for autologous stem cell transplant (ASCT) and in combination with lenalidomide and rituximab for the treatment of adult patients with relapsed or refractory follicular lymphoma (FL).

- Safety and efficacy were evaluated in the L-MIND trial, a single arm, open-label, phase 2 study of 71 patients with relapsed or refractory diffuse large B-cell lymphoma (DLBCL). Patients had 1 to 3 prior systemic therapies and were not candidates for high dose chemotherapy (HDC) followed by autologous stem cell transplantation. Patients were included if they had had prior treatment with a CD20-targeted therapy and had an ECOG performance score of 0 to 2. Patients were excluded if they had received prior therapy with a CD19-directed therapy or angiogenesis inhibitor. Subjects received Monjuvi 12 mg/kg intravenously in combination with lenalidomide for a maximum of 12 cycles followed by Monjuvi monotherapy until disease progression or unacceptable toxicity. The primary endpoint was best overall response rate, defined as the proportion of complete and partial responders, and duration of response. Best overall response was met in 39 (55%) patients with 37% having a complete response and 18% a partial response. The duration of response was 21.7 months.

- Safety and efficacy were evaluated in the inMIND trial, a randomized, double-blind, placebo-controlled phase III trial of 548 patients with relapsed or refractory FL grade 1, 2, or 3a. Patients were included if they had had prior treatment with a CD20-targeted therapy and had an ECOG performance score of 0 to 2. Subjects received Monjuvi 12 mg/kg intravenously in combination with lenalidomide for a maximum of 12 cycles and rituximab for a maximum of 5 cycles followed by Monjuvi monotherapy until disease progression or unacceptable toxicity. The primary endpoint was progression free survival (PFS). The mean PFS was 22.4 months with Monjuvi compared to 13.9 months with placebo which was statistically significant (p-value < 0.0001).

References:

1. Monjuvi [prescribing information]. Boston, MA: MorphoSys US, Inc.; June 2025.
2. Salles G, Duell J, González Barca E, et al. Tafasitamab plus lenalidomide in relapsed or refractory diffuse large B-cell lymphoma (L-MIND): a multicenter, prospective, single-arm, phase 2 study. Lancet Oncol. 2020 Jul; 21 (7): 978 - 88.
3. SEER Cancer Stat Facts: Diffuse Large B-Cell Lymphoma. National Cancer Institute. Bethesda, MD. Available at: https://seer.cancer.gov/statfacts/html/dlbcl.html. Accessed on August 3, 2020.
4. National Comprehensive Cancer Network. B-cell lymphomas (Version 4.2026). 2026 May 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on June 22, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

5. Clinicaltrials.gov. A phase 3 study to assess efficacy and safety of tafasitamab plus lenalidomide and rituximab compared to placebo plus lenalidomide and rituximab in patients with relapsed/refractory (R/R) follicular lymphoma or marginal zone lymphoma (NCT04680052). Available at: https://clinicaltrials.gov/study/NCT04680052?term=NCT04680052&rank=1#study-overview. Accessed on June 26, 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.9</td><td>Effective Date: 08/13/2026</td><td>Updated to include the trial and failure of preferred products statement</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/07/2025</td><td>Updated to include the new FDA approved indication of follicular lymphoma and removed the prescriber requirement</td></tr>
<tr><td>1.7</td><td>Effective Date: 02/13/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 02/02/2023</td><td>Updated approval length to allow for FDA recommended dosing for at least 60 days</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/06/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.2</td><td>Effective Date 01/18/2021</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date 11/20/2020</td><td>UM medical management system update for BCN, BCNA, and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.0	Effective Date: 10/08/2020	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Nab-Paclitaxel; Paclitaxel Protein-Bound Particles
HCPCS: J9264

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Paclitaxel protein bound is indicated for use in metastatic breast cancer, non-small cell lung cancer (NSCLC), and metastatic adenocarcinoma of the pancreas.

- When given to treat metastatic breast cancer, paclitaxel protein-bound is FDA approved as monotherapy following treatment failure with combination therapy containing an anthracycline unless it is contraindicated or if the patient has relapsed within 6 months of adjuvant therapy. The National Comprehensive Cancer Network (NCCN) 2023 treatment guidelines for breast cancer do not recommend use of paclitaxel protein-bound following previous treatment failure with it.

- When used in NSCLC, paclitaxel protein-bound is FDA approved as first-line therapy in combination with carboplatin in patients with locally advanced or metastatic disease that is not surgically resectable.

- The indication for pancreatic cancer required the drug be used as first-line therapy and in combination with gemcitabine.

- In situations where paclitaxel is indicated but hypersensitivity has contraindicated continued use, the 2023 NCCN guidelines for breast cancer and NSCLC state paclitaxel protein-bound can be substituted for paclitaxel.

- Treatment with paclitaxel protein-bound should continue until disease progression or unacceptable toxicity.

References:

1. Abraxane [prescribing information]. Summit, NJ: Celgene Corporation; December 2022.
2. National Comprehensive Cancer Network. Breast cancer (Version 6.2024). 2024 Nov 11. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on December 10, 2024.
3. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 11.2024). 2024 Oct 15. Available from: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed December 10, 2024.
4. National Comprehensive Cancer Network. Pancreatic adenocarcinoma (Version 3.2024). 2024 August 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/pancreatic.pdf. Accessed on December 10, 2024.
5. Gradishar WJ, Tjulandin S, Davidson N, et al. Phase III trial of nanoparticle albumin-bound paclitaxel compared with polyethylated castor oil-based paclitaxel in women with breast cancer. J Clin Oncol. 2005; 23 (31): 7794 - 803.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

6. Damascelli B, Cantu G, Mattavelli F, et al. Intraarterial chemotherapy with polyoxyethylated castor oil free paclitaxel, incorporated in albumin nanoparticles (ABI 007): phase I study of patients with squamous cell carcinoma of the head and neck and anal canal: preliminary evidence of clinical activity. Cancer. 2001; 92: 2592 - 602.
7. Socinski MA, Bondarenko I, Karaseva NA, et al. Weekly nab-paclitaxel in combination with carboplatin versus solvent-based paclitaxel plus carboplatin as first-line therapy in patients with advanced non-small-cell lung cancer. J Clin Oncol. 2012 Jun 10; 30 (17): 2055 - 62.
8. VonHoff DD, Ervin T, Arena FP, et al. Increased survival in pancreatic cancer with nab-paclitaxel plus gemcitabine. New Eng J Med. 2013; 369 (18): 1691 - 703.
9. Paclitaxel Protein-Bound Particles [prescribing information]. Brea, CA: HBT Labs, Inc.; July, 2022.

Policy History		
#	Date	Change Description
2.8	Effective Date: 02/12/2026	Annual review of policy - no changes were made to the criteria
2.7	Effective Date: 02/13/2025	Annual review of policy - no changes were made to the criteria
2.6	Effective Date: 01/01/2025	Removal of J9258 and J9259 due to CMS discontinuation
2.5	Effective Date: 02/08/2024	Updated to list trial and failure of generic paclitaxel for the metastatic breast cancer and non-small cell lung cancer indications and remove the bullet requiring the step for pancreatic cancer as that is not guideline supported. The title of the policy was changed from Abraxane to Nab-paclitaxel; Paclitaxel Protein-Bound Particles.
2.4	Effective Date: 01/01/2024	UM medical management system update to BCBS, BCN, MAPPO, and BCNA for J-code 9258
2.3	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days
2.2	Effective Date: 10/06/2022	Updated approval length to allow for FDA recommended dosing or up to 6 months at a time
2.1	Effective Date: 10/07/2021	Annual review of policy. No changes were made to the criteria
2.0	Effective Date: 12/01/2020	UM medical management system update to BCBS for Abraxane
1.9	Effective Date: 10/08/2020	Updated approval duration to 6 months at a time and updated renewal criteria to allow use until unacceptable toxicity or disease progression
1.8	Effective Date: 01/01/2020	UM medical management system update to MAPPO and BCNA for Abraxane

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.7	Effective Date: 11/07/2019	Annual Review of Medical Policy
1.6	Effective Date: 08/01/2019	UM medical management system update to BCN for Abraxane
1.5	Effective Date: 11/01/2018	Updated criteria per oncology vendor
1.4	Effective Date: 08/09/2018	Annual Review of Medical Policy
1.3	Effective Date: 08/10/2017	Annual Review of Medical Policy
1.2	Effective Date: 08/11/2016	Annual Review of Medical Policy
1.1	Effective Date: 12/16/2013	Update for new indication
1.0	Effective Date: 12/17/2012	New Criteria

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Nanoencapsulated Sirolimus plus Pegadricase (NASP) intravenous injection
HCPCS: J3590

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Gout is the most common inflammatory arthritis in the United Sates, affecting nearly 4% of the adult population. It occurs when serum uric acid levels are elevated and monosodium urate monohydrate crystals deposit in the joints. Approximately 200,000 people in the United States suffer from uncontrolled gout, with elevated serum uric acid levels despite treatment with urate-lowering therapies, leading to chronic inflammation, debilitating gout flares, and joint deformity. These patients experience significant morbidity due to gout flares, including severe pain, reduced physical and mental quality of life, and decreased physical function.

- The 2020 American College of Rheumatology guidelines for the management of gout recommend the following:

- Patient education on diet, lifestyle modification, and management of comorbidities, with a goal of decreasing the risk and frequency f acute gout attacks and lowering SU levels.

- Allopurinol is the preferred first-line treatment option for patients requiring urate-lowering therapy.

- If despite maximally tolerated or maximally dosed allopurinol the patient continues to have above-target SU levels and continued gout flares or has non-resolving tophi, switching to a different xanthine oxidase inhibitor (XOI) like febuxostat is conditionally recommended.

- Uricosuric agents like probenecid may be used as add-on therapy if SU levels are partially responsive to XOI therapy.

- If XOI, uricosurics, and all other interventions fail to control gout flares, resolve tophi, and achieve target SU levels, switching to Krystexxa is strongly recommended.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Baraf, HS, et al. Nanoencapsulated Sirolimus Plus Pegadricase (NASP) in Uncontrolled Gout: Current Status and Future Directions. Drugs (2026) 86:273–285 https://doi.org/10.1007/s40265-025-02267-w.
2. Baraf, HS, et al. The COMPARE head-to-head, randomized controlled trial of SEL-212 (pegadricase plus rapamycin-containing nanoparticle, ImmTOR™) versus pegloticase for refractory gout. Rheumatology (Oxford). 2024 Apr 2;63(4):1058-1067. doi: 10.1093/rheumatology/kead333.
3. Clinicaltrials.gov. Study Details | NCT04513366 | A Study of SEL-212 in Patients With Gout Refractory to Conventional Therapy | ClinicalTrials.gov
4. Fitzgerald JD, et al. 2020 American College of Rheumatology Guideline for the Management of Gout. Arthritis Care and Research. Vol. 72, No. 6, June 2020:744-760.
5. Manufacturer press release. FDA Accepts Biologics License Application for Sobi's NASP for Patients with Uncontrolled Gout. September 10, 2025. Accessed on May 1, 2026. Available at: https://www.sobi.com/en/press-releases/fda-accepts-biologics-license-application-sobis-nasp-patients-uncontrolled-gout-2389168
6. Manufacturer press release. Phase 3 DISSOLVE Program of SEL-212 in Chronic Refractory Gout Meets Primary Endpoint: Swedish Orphan Biovitrum AB. March 21, 2023. Accessed on May 4, 2026. Available at: https://www.prnewswire.com/news-releases/phase-3-dissolve-program-of-sel-212-in-chronic-refractory-gout-meets-primary-endpoint-swedish-orphan-biovitrum-ab-301777038.html
7. A Study of SEL-212 in Patients With Gout Refractory to Conventional Therapy (DISSOLVE I). ClinicalTrials.gov identifier: NCT04513366. Updated September 11, 2025. Accessed May 1, 2026. https://www.clinicaltrials.gov/ct2/show/NCT02116010

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.0</td><td>Effective Date: 06/11/2026</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Natalizumab Products

Tyruko® (natalizumab-sztn) **- HCPCS: Q5134**
Tysabri® (natalizumab) **- HCPCS: J2323**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Multiple Sclerosis
  - Multiple sclerosis (MS) is a chronic progressive inflammatory autoimmune disease of the central nervous system, involving axonal deterioration and demyelination. Signs and symptoms vary greatly and can include blurry or double vision, muscle weakness and stiffness, tingling in limbs, fatigue, difficulty concentrating, and many other debilitating symptoms. MS typically presents between the ages of 20 and 45, and women are affected by MS three times more frequently than men. Onset of symptoms before age 21 occurs in 3-5% of cases and is considered juvenile MS.
  - Several clinical presentations of MS have been identified including relapsing-remitting MS (RRMS), secondary progressive MS (SPMS), primary progressive MS (PPMS), and a rare form called progressive-relapsing (PRMS). All forms of MS are associated with neurologic dysfunction. Relapsing-remitting MS affects the majority of newly diagnosed individuals and about half of the people diagnosed with RRMS will transition to SPMS within 10-20 years of initial diagnosis. Relapses are characterized as periods of sudden worsening of symptoms or new symptoms. Often, the periods of remission between relapses will last weeks, months, or even years.
  - Patients diagnosed with PPMS experience continued and gradual physical decline without remissions. PPMS affects as many men as women and typically presents after the age of 40. PRMS affects only about 5% of patients diagnosed with MS and is characterized by steady worsening dysfunction with distinct exacerbations.
  - The American Academy of Neurology (AAN) 2018 treatment guidelines for adults with MS state that there are a variety of disease modifying therapies (DMTs) available; therefore, evaluating patient preference may improve acceptance and adherence to DMT. Considerations when choosing DMT include safety, route of administration, lifestyle, cost, efficacy, common adverse effects, tolerability, comorbid conditions, and concomitant medications. Recommendations for first-line therapy are not specified, with the exception of Lemtrada (alemtuzumab), Tysabri (natalizumab), and Gilenya® (fingolimod) for highly active MS and Ocrevus (ocrelizumab) for primary progressive MS.
  - There are no formal guidelines for the treatment of pediatric MS which is rare. Less than 5,000 children and teens are living with MS in the United States. Pediatric patients with MS typically experience more frequent relapses compared to adults with MS but recover from relapses more quickly than adults. Although Gilenya and Tascenso ODT are the only approved therapies for pediatric MS, many of the disease modifying therapies prescribed for adults with MS are also prescribed for pediatric MS based on supporting data such as small retrospective studies and case studies.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

– Crohn's Disease

- Natalizumab is a monoclonal antibody indicated for inducing and maintaining clinical response and remission in adult patients with moderately to severely active Crohn's Disease (CD) with evidence of inflammation who have had an inadequate response to, or are unable to tolerate, conventional CD therapies and inhibitors of tumor necrosis factor alpha (TNF-α). Natalizumab is also indicated for multiple sclerosis and that indication is addressed in a the Multiple Sclerosis Disease Modifying Agents Policy. Natalizumab is available as the innovator product, Tysabri, as well as a biosimilar product Tyruko.

- Natalizumab is not recommended as a first-line option due to potentially serious safety concerns, specifically progressive multi focal leukoencephalopathy (PML). PML is a viral infection of the brain that usually leads to death or severe disability. The risk of PML increase with the number of infusions received. Risk factors for the development of PML include the presence of anti-JCV antibodies, duration of therapy, and prior use of immunosuppressants. These factors should be considered in the context of expected benefit when initiating and continuing treatment with natalizumab.

- Other disease modifying CD treatments currently include, but are not limited to Humira® (adalimumab), Remicade® (infliximab), Cimzia® (certolizumab), Entyvio® (vedolizumab), and Stelara® (ustekinumab).

- No studies have shown that the efficacy of natalizumab is superior to other disease modifying therapies in the treatment of CD.

References:

1. Tysabri® [prescribing information]. Cambridge, MA: Biogen Idec, Inc.; April 2023.
2. Sandborn WJ, Rutgeerts P, Enns R. Adalimumab induction therapy for Crohn disease previously treated with infliximab: a randomized trial. Ann Intern Med. 2007;146(12):829-38.
3. The Regence Group. Medical Policy for Tysabri.
4. Goodin DS, Cohen BA, et al. Assessment: The use of natalizumab (Tysabri) for the treatment of multiple sclerosis. Report of the therapeutics and Technology Assessment Subcommittee of the American Academy of Neurology. Neurology 2008;71:766-773.
5. Polman CH, O'connor PW, Havrdova E, et al. A randomized, placebo-controlled trial of natalizumab for relapsing multiple sclerosis. N England J Med. Mar 2006 2;354(9):899-910.
6. Lichtenstein GR, Loftus EV, Isaacs KL, Regueiro MD, Gerson LB, Sands BE. ACG Clinical Guideline: Management of Crohn's Disease in Adults. Am J Gastroenterol. 2018 Apr;113(4):481-517.
7. U.S. Food and Drug Administration Drug Safety Communication: Safety Update on Progressive Multifocal Encephalopathy (PML) associated with Tysabri (natalizumab). http://www.fda.gov/Drugs?drugSafety/ucm252045.htm. Accessed Aug 1, 2014
8. Tyruko [prescribing information]. Princeton, NJ: Sandoz, Inc.; August 2023
9. IPD Analytics. Clinical Pipeline. Accessed August 19, 2024. http://www.ipdanalytics.com
10. Drug Facts and Comaprisons. eFacts (online). 2022. Available from Wolters Kluwer Health, Inc. Accessed January 3, 2023.
11. Rae-Grant A, Day GS, Marrie RA, et al. Practice guideline recommendations summary: disease-modifying therapies for adults with multiple sclerosis. Report of the guideline development, dissemination, and implementation subcommittee of the American Academy of Neurology. Neurology. 2018;90:777-788. Available at: https://n.neurology.org/content/neurology/90/17/777.full.pdf. Accessed on January 3, 2023.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

12. Lotze TE. Treatment and prognosis of pediatric multiple sclerosis. In: UpToDate, Post TW (Ed), UpToDate, Waltham, MA. (Accessed on January 3, 2023).
13. National Multiple Sclerosis Society. Pediatric MS. Available at: https://www.nationalmssociety.org/For-Professionals/Clinical-Care/Managing-MS/Pediatric-MS. Accessed on January 3, 2023.
14. IPD Analytics. Payer & Provider Insights. January 2022. Accessed January 3, 2023. https://www.ipdanalytics.com

Policy History		
#	Date	Change Description
3.5	Effective Date: 06/22/2026	UM medical management system update for MAPPO and BCNA for Tyruko and Tysabri
3.4	Effective Date: 10/09/2025	Annual review of criteria was preformed. No updated criteria at this time. Updated background information, pricing table, and pipeline.
3.3	Effective Date: 10/03/2024	Annual review of criteria was preformed. No updated criteria at this time.
3.2	Effective Date: 10/12/2023	Renamed to Natalizumab products policy and updated policy to include Tyruko
3.1	Effective Date: 09/14/2023	UM medical management system update for BCBSM and BCN for Tyruko
3.0	Effective Date: 08/10/2023	Annual review of criteria was performed. No changes made to the criteria at this time.
2.9	Effective Date: 02/02/2023	Updated policy to include Briumvi
2.8	Effective Date: 10/06/2022	Added Mavenclad and generic Copaxone back to policy
2.7	Effective Date: 08/04/2022	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 02/10/2022	Added Tascenso to the policy
2.5	Effective Date: 08/12/2021	Annual review of criteria was performed. Updated renewal criteria to include our standard renewal criteria
2.4	Effective Date: 06/10/2021	Added Ponvory to the policy and removed prescriber requirement.
2.3	Effective Date: 10/08/2020	Added Kesimpta to the policy
2.2	Effective Date: 08/13/2020	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 10/01/2019	UM medical management system update for BCBSM and BCN for Tysabri
2.0	Effective Date: 08/15/2019	Updated criteria to list indication only and include the trial and failure of preferred products statement. After MBDC: Removed investigational use sections from drug specific criteria due

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		to updated indications for many MS medications
1.9	Effective Date: 02/14/2019	Updated Lemtrada quantity limit
1.8	Effective Date: 08/09/2018	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 07/01/2018	UM medical management system update for BCBS for Tysabri
1.6	Effective Date: 08/10/2017	Updated step therapy
1.5	Effective Date: 11/10/2016	Updated wording of indication
1.4	Effective Date: 08/11/2016	Updated MD attestation
1.3	Effective Date: 01/01/2016	Document updated with specified drugs required
1.2	Effective Date: 08/13/2015	Aligned Tysabri criteria with other MS drugs
1.1	Effective Date: 01/01/2015	UM medical management system update for BCBS for Tysabri
1.0	Effective Date: 10/30/2014	Updated criteria to require a neurologist or gastroenterologist, anti-JVC testing, and updated initial authorization to 6 months only, added criteria for continuation of coverage

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Nebulizers for Chronic Obstructive Pulmonary Disease

Formoterol fumarate (Perforomist®) **– HCPCS: J7606**
Yupelri® (revefenacin) **– HCPCS: J7677**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Yupelri is an anticholinergic indicated for the maintenance treatment of patients with chronic obstructive pulmonary disease (COPD).

- Formoterol fumarate is a long-acting beta2-adrenergic agonist (LABA) indicated for long-term, twice daily (morning and evening) administration in the maintenance treatment of bronchoconstriction in patients with COPD, including chronic bronchitis and emphysema.

- Per the Global initiative for chronic obstructive lung disease (GOLD) global strategy for the diagnosis, management, and prevention of chronic obstructive pulmonary disease (2026 report), antimuscarinic drugs block the bronchoconstrictor effects of acetylcholine on M3 muscarinic receptors expressed in airway smooth muscle. Short acting muscarinic antagonists (SAMAs), namely ipratropium and oxitropium, also block the inhibitory neuronal receptor M2, which potentially can cause vagally induced bronchoconstriction. Long acting muscarinic antagonists (LAMAs), such as tiotropium, aclidinium, glycopyrronium bromide (also known as glycopyrrolate), umeclidinium and revefenacin (Yupelri), have prolonged binding to M3 muscarinic receptors, with faster dissociation from M2 muscarinic receptors, thus prolonging the duration of bronchodilator effect.

- The principal action of beta2-agonists is to relax airway smooth muscle by stimulating beta2-adrenergic receptors, which increases cyclic AMP and produces functional antagonism to bronchoconstriction. There are short-acting (SABA) and long-acting (LABA) beta2-agonists. The effect of SABAs usually wears off within 4 to 6 hours. Regular and as-needed use of SABAs improve forced expiratory volume in 1 second (FEV1) and symptoms. LABAs show duration of action of 12 or more hours and do not preclude additional benefit from as-needed SABA therapy. Formoterol and salmeterol are twice-daily LABAs that significantly improve FEV1 and lung volumes, dyspnea, health status, exacerbation rate and number of hospitalizations, but have no effect on mortality or rate of decline of lung function. Indacaterol is a once daily LABA that improves breathlessness, health status and exacerbation rate. Some patients experience cough following the inhalation of indacaterol. Olodaterol and vilanterol are additional once daily LABAs that improve lung function and symptoms.

- The 2026 GOLD guidelines recommend a multitude of medications for the maintenance of COPD including SABAs, LABAS, SAMAs, LAMAs, combination SABA+SAMA, combination LABA+LAMA, methylxanthines, combination LABA+inhaled corticosteroids (ICS), triple combination LABA+LAMA+ICS, phosphodiesterase-3 and/or -4 inhibitors, mucolytic agents, and biologics. The guidelines follow a step-up approach starting with single or dual agent inhalers, and adding on therapy when appropriate due to continued exacerbations.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Yupelri [prescribing information]. Morgantown, WV: Mylan Specialty. May 2022
2. Perforomist [prescribing information]. Morgantown WV: Mylan Specialty. May 2019
3. Global Initiative for Chronic Obstructive Lung Disease. 2026 Report. Global Strategy for the Diagnosis, Management, and Prevention of Chronic Obstructive Pulmonary Disease. GOLD-REPORT-2026-v1.3-8Dec2025_WMV2.pdf accessed May 2026

Policy History		
#	Date	Change Description
1.1	Effective Date: 06/22/2026	UM medical management system update for MAPPO and BCNA for Formoterol fumarate and Yuperli
1.0	Effective Date: 06/11/2026	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Niktimvo™ (axatilimab-csfr)
HCPCS: J9038

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Niktimvo is a monoclonal antibody against the colony-stimulating factor 1 (CSF-1) receptor indicated for the treatment of chronic graft-versus-host disease (cGVHD) after failure of at least two prior lines of systemic therapy in adult and pediatric patients weighing at least 40 kg.

- GVHD is a condition that may occur after an aHSCT where the transplanted cells (i.e. graft) from the donor induce an immune response in the recipient (i.e. host), encouraging the host's immune system to attack and reject the newly transplanted cells. GVHD can be categorized as acute (aGVHD) or chronic (cGVHD), with differentiation of the two established by consensus criteria from the National Institutes of Health (NIH). A previous diagnosis of aGVHD is not required for cGVHD diagnosis. A recent review by Herzog et al reported no prior diagnosis of aGVHD in 39% of patients with cGVHD. Manifestations of cGVHD may span several organ systems or may be restricted to one site. Common characteristics of cGVHD include skin reactions, dry oral mucosa, gastrointestinal (GI) ulcerations, and bronchiolar obstruction. The incidence of cGVHD after aHSCT is about 40%, affecting approximately 140,000 persons in the United States. Analysis from the Chronic GVHD Consortium reported non-relapse mortality rates of 22% after 5 years and 40% (95% confidence interval (CI) 30%–50%) after 12 years. GVHD has been classically divided into acute and chronic variants based on the time of onset using a cutoff of 100 days. However, this conventional division has been challenged by the recognition that signs of acute and chronic GVHD may occur outside of these designated periods. Patients who demonstrate progression of disease by day 5 or nonresponse by day 7 are considered to have corticosteroid resistance.

- Acute GVHD manifestations include:
    - Classic maculopapular rash
    - Abdominal cramps with diarrhea
    - Rising serum bilirubin concentration

- Chronic GVHD manifestations include:
    - Skin involvement resembling lichen planus or the cutaneous manifestations of scleroderma

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Dry oral mucosa with ulcerations and sclerosis of the gastrointestinal tract
  - Rising serum bilirubin concentration
  - Decrease in lung function
  - Joint dysfunction

- Mild disease is treated with local/topical therapy to the affected organ systems. Moderate disease is treated with systemic steroids such as prednisone, with topical therapy added on if needed. For severe disease, prednisone plus an additional immunosuppressive agent is used as initial therapy. Between 40% and 60% of patients with cGVHD do not respond to initial steroid therapy and require escalation to other therapies. Corticosteroids are the primary treatment of cGVHD. Other therapies that may be used include calcineurin inhibitors, an mTOR inhibitor (everolimus or sirolimus), infliximab, rituximab, mycophenolate mofetil and imatinib. The prophylaxis and management of graft versus host disease after stem-cell transplantation for haematological malignancies: updated consensus recommendations of the European Society for Blood and Marrow Transplantation from 2020 recommend steroids as the first-line treatment for newly diagnosed cGVHD. These guidelines mention that there are no data available allowing the comparison of the efficacy of different second-line treatment options for chronic GVHD, and no indirect comparisons are possible. Therefore, no standard second-line treatment for chronic GVHD exists. The most widely used components of second-line treatment for chronic GVHD, in addition to corticosteroids, are calcineurin inhibitors, extracorporeal photopheresis, ibrutinib (which is approved by the FDA), JAK inhibitors, mycophenolate mofetil, rituximab, mammalian target of rapamycin (mTOR) inhibitors, pentostatin, proteasome inhibitors, and tyrosine kinase inhibitors.

- The National Comprehensive Cancer Network (NCCN) Hematopoietic Cell Transplantation (HCT): Graft-Versus-Host Disease Guidelines version 2.2024 have indicated that Jakafi® is a category 1 recommended agent for steroid-refractory GVHD, both acute and chronic. All other agents are a category 2A including Niktimvo, Rezurock® and Imbruvica®.

- The efficacy of Niktimvo is supported by the AGAVE-201 trial, a Phase II, open-label, randomized, multicenter study that evaluated the efficacy, safety, and tolerability of Niktimvo at three different doses in patients with allogenic hematopoietic stem cell transplant (aHSCT) with recurrent or refractory active cGVHD who had received at least two lines of systemic therapy. Treatment consisted of Niktimvo 0.3 mg/kg administered intravenously every 2 weeks until disease progression, lack of efficacy by 9 months, or unacceptable toxicity. Continued treatment with GVHD prophylaxis and standard care systemic cGVHD therapies (corticosteroids, calcineurin inhibitors, or sirolimus/everolimus) were permitted as long as the patient had been on a stable dose for at least 2 weeks prior to study. Initiation of new systemic cGVHD therapy while on study was not permitted.

  - The overall response rate within the first six months of treatment was 75% (95% CI: 64, 84).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In patients who achieved response, no death or new systemic therapy initiation occurred in 60% (95% CI: 43, 74) of patients for at least 12 months since response.

- The median time to first response was 1.5 months (range, 0.9 to 5.1 months).

- The median duration of response, calculated from first response to progression, death, or new systemic therapies for cGVHD, was 1.9 months (95% CI: 1.6, 3.5).

References:

1. Niktimvo [prescribing information]. Wilmington, DE. Incyte Corporation. August, 2024
2. National Comprehensive Cancer Network (NCCN) clinical practice guidelines in oncology for Hematopoietic Cell Transplantation (HCT): Graft-Versus-Host Disease Guidelines version 2.2024. NCCN.org
3. IPD analytics – New Drug Review – Niktimvo (axatilimab). Payer & Provider Insights. IPDAnalytics.com
4. Incyte Press Release Incyte and Syndax Announce U.S. FDA Approval of Niktimvo™ (axatilimab-csfr) for the Treatment of Chronic Graft-Versus-Host Disease (GVHD) | Incyte/ August 14, 2024.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual Review. No changes were made to the policy/criteria.</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/03/2025</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 10/03/2024</td><td>New Policy</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 09/05/2024</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/08/2024</td><td>Preliminary Drug Review

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Nivolumab Products

Opdivo® (nivolumab) **- HCPCS: J9299**
Opdivo Qvantig™ (nivolumab and hyaluronidase-nvhy) **- HCPCS: J9289**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Opdivo is programmed death receptor-1 (PD-L1)-blocking antibody indicated for the following:
  - For adult and pediatric patients 12 years and older with unresectable or metastatic melanoma, as a single agent or in combination with ipilimumab
  - For the adjuvant treatment of adult and pediatric patients 12 years and older with completely resected Stage IIB, Stage IIC, Stage III, or Stage IV melanoma
  - Adult patients with resectable (tumors ≥4 cm or node positive) non-small cell lung cancer in the neoadjuvant setting, in combination with platinum-doublet chemotherapy
  - Adult patients with resectable (tumors ≥4 cm or node positive) non-small cell lung cancer and no known EGFR mutations or ALK rearrangements, for neoadjuvant treatment, in combination with platinum-doublet chemotherapy, followed by single-agent Opdivo as adjuvant treatment after surgery
  - Adult patients with metastatic non-small cell lung cancer expressing PD-L1 (≥1%) as determined by an FDA-approved test, with no epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations, as first-line treatment in combination with ipilimumab
  - Adult patients with metastatic or recurrent non-small cell lung cancer with no EGFR or ALK genomic tumor aberrations as first-line treatment, in combination with ipilimumab and 2 cycles of platinum-doublet chemotherapy
  - Patients with metastatic non-small cell lung cancer and progression on or after platinum-based chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving Opdivo
  - Adult patients with unresectable malignant pleural mesothelioma, as first-line treatment in combination with ipilimumab
  - Adult patients with intermediate or poor risk advanced renal cell carcinoma, as a first-line treatment in combination with ipilimumab
  - Adult patients with advanced renal cell carcinoma, as a first-line treatment in combination with cabozantinib
  - Adult patients with advanced renal cell carcinoma who have received prior anti-angiogenic therapy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Adult patients with classical Hodgkin lymphoma that has relapsed or progressed after:
    - Autologous hematopoietic stem cell transplantation (HSCT) and brentuximab vedotin, or
    - 3 or more lines of systemic therapy that includes autologous HSCT
- Adult patients with recurrent or metastatic squamous cell carcinoma of the head and neck with disease progression on or after a platinum-based therapy
- Adjuvant treatment of adults patients with urothelial carcinoma who are at high risk of recurrence after undergoing radical resection of urothelial carcinoma
- Adult patients with unresectable or metastatic urothelial carcinoma, as first-line treatment in combination with cisplatin and gemcitabine
- Adult patients with locally advanced or metastatic urothelial carcinoma who:
    - Have disease progression during or following platinum-containing chemotherapy
    - Have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy
- Adult and pediatric patients 12 years of age or older with unresectable or metastatic microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) colorectal cancer (CRC) in combination with ipilimumab
- Adult and pediatric patients 12 years of age and older with microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) metastatic colorectal cancer that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan
- Adult patients with unresectable or metastatic hepatocellular carcinoma, as a first-line treatment in combination with ipilimumab
- Adult patients with hepatocellular carcinoma who have been previously treated with sorafenib in combination with ipilimumab
- Adult patients with completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease who have received neoadjuvant chemoradiotherapy
- Adult patients with unresectable advanced or metastatic esophageal squamous cell carcinoma as first-line treatment in combination with fluoropyrimidine- and platinum-containing chemotherapy.
- Adult patients with unresectable advanced or metastatic esophageal squamous cell carcinoma as first-line treatment in combination with ipilimumab

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Adult patients with unresectable advanced, recurrent or metastatic esophageal squamous cell carcinoma after prior fluoropyrimidine- and platinum-based chemotherapy

  - Adult patients with advanced or metastatic gastric cancer, gastroesophageal junction cancer, and esophageal adenocarcinoma in combination with fluoropyrimidine- and platinum-containing chemotherapy

- Opdivo Qvantig is programmed death receptor-1 (PD-L1)-blocking antibody indicated for the following:

  - Adult patients with intermediate or poor risk advanced renal cell carcinoma, as a first-line treatment following combination treatment with intravenous nivolumab and ipilimumab

  - Adult patients with advanced renal cell carcinoma, as a first-line treatment in combination with cabozantinib

  - Adult patients with advanced renal cell carcinoma who have received prior anti-angiogenic therapy

  - Adult and pediatric patients 12 years and older who weigh 30 kg or greater with unresectable or metastatic melanoma

  - Adult and pediatric patients 12 years and older who weigh 30 kg or greater with unresectable or metastatic melanoma following combination treatment with intravenous nivolumab and ipilimumab

  - For the adjuvant treatment of adult and pediatric patients 12 years and older who weigh 30 kg or greater with completely resected stage IIB, stage IIC, stage III, or stage IV melanoma

  - Adult patients with resectable (tumors ≥ 4 cm or node positive) non-small cell lung cancer in the neoadjuvant setting, in combination with platinum-doublet chemotherapy

  - Adult patients with resectable (tumors ≥ 4 cm or node positive) non-small cell lung cancer and no known EGFR mutations or ALK rearrangements, for neoadjuvant treatment, in combination with platinum-doublet chemotherapy, followed by Opdivo Qvantig monotherapy as adjuvant treatment after surgery

  - Adult patients with metastatic non-small cell lung cancer and progression on or after platinum-based chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving Opdivo Qvantig

  - Adult patients with recurrent or metastatic squamous cell carcinoma of the head and neck with disease progression on or after a platinum-based therapy

  - As adjuvant treatment of adult patients with urothelial carcinoma who are at high risk of recurrence after undergoing radical resection of urothelial carcinoma

  - Adult patients with unresectable or metastatic urothelial carcinoma, as first-line treatment in combination with cisplatin and gemcitabine

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Adult patients with locally advanced or metastatic urothelial carcinoma who:
    - Have disease progression during or following platinum-containing chemotherapy
    - Have disease progression within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy
- Adult and pediatric patients 12 years and older who weigh 30 kg or greater with unresectable or metastatic microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) colorectal cancer (CRC), following combination treatment with intravenous nivolumab and ipilimumab
- Adult and pediatric patients 12 years and older who weigh 30 kg or greater with MSI-H or dMMR metastatic CRC that has progressed following treatment with a fluoropyrimidine, oxaliplatin, and irinotecan
- Adult patients with unresectable or metastatic HCC, as a first-line treatment following combination treatment with intravenous nivolumab and ipilimumab
- Adult patients with hepatocellular carcinoma previously treated with sorafenib and following combination treatment with intravenous nivolumab and ipilimumab
- Adult patients with completely resected esophageal or gastroesophageal junction cancer with residual pathologic disease, who have received neoadjuvant chemoradiotherapy
- Adult patients with unresectable advanced or metastatic esophageal squamous cell carcinoma as first-line treatment in combination with fluoropyrimidine- and platinum-containing chemotherapy
- Adult patients with unresectable advanced, recurrent, or metastatic esophageal squamous cell carcinoma after prior fluoropyrimidine and platinum-based chemotherapy
- Adult patients with advanced or metastatic gastric cancer, gastroesophageal junction cancer, and esophageal adenocarcinoma in combination with fluoropyrimidine- and platinum-containing chemotherapy
- Limitations of Use: Opdivo Qvantig is not indicated in combination with ipilimumab

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Opdivo or Opdivo Qvantig following failure. NCCN treatment guidelines also do not recommend use of Opdivo or other PD-L1 checkpoint inhibitors following a previous failure.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Opdivo and Opdivo Qvantig have not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

- Opdivo and Opdivo Qvantig have not been studied in patients with an ECOG performance status of greater than 2 and therefore, should not be sed in patients with an ECOG score greater than 2.

References:

1. Opdivo [prescribing information]. Princeton, NJ: Bristol-Myers Squibb; June 2025.
2. Opdivo Qvantig [prescribing information]. Princeton, NJ: Bristol Myers Squibb Company; November 2025.
3. Sharma P, Retz M, Siefker-Radtke A, et al. Nivolumab in metastatic urothelial carcinoma after platinum therapy (CheckMate 275): a multicentre, single-arm, phase 2 trial. Lancet Oncol. 2017 Mar; 18 (3): 312-22.
4. Overman MJ, McDermott R, Leach JL, et al. Nivolumab in patients with metastatic DNA mismatch repair-deficient or microsatellite instability-high colorectal cancer (CheckMate 142): an open-label, multicentre, phase 2 study. Lancet Oncol. 2017 Sep; 18 (9): 1182 - 91.
5. Larkin J, Chiarion-Sileni V, Gonzalez R, et al. Combined nivolumab and ipilimumab or monotherapy in untreated melanoma. NEJM. 2015 Jul 2; 373 (1): 23 - 34.
6. Ferris RL, Blumenschein Jr G, Fayette J, et al. Nivolumab for recurrent squamous-cell carcinoma of the head and neck. NEJM. 2016 Nov 10; 375 (19): 1856 – 67.
7. Yau T, Kang Y, Kim T, et al. Efficacy and safety of nivolumab plus ipilimumab in patients with advanced hepatocellular carcinoma previously treated with sorafenib: the CheckMate 040 randomized clinical trial. JAMA Oncol. 2020; 6 (11): e204564.
8. Weber J, Mandala M, Del Vecchio M, et al. Adjuvant nivolumab versus ipilimumab in resected stage III or IV melanoma (CheckMate 238). NEJM. 2017; 377: 1824 - 35.
9. Motzer RJ, Tannir NM, McDermott DF, et al. Nivolumab plus ipilimumab versus sunitinib in advanced renal-cell carcinoma. NEJM. 2018; 378: 1277 – 90.
10. Overman MJ, Lonardi S, Wonk KYM, et al. Durable clinical benefit with nivolumab plus ipilimumab in DNA mismatch repair-deficient/microsatellite instability-high metastatic colorectal cancer. J Clinical Oncol. 2018; 36 (8): 773 – 9.
11. National Comprehensive Cancer Network. Cutaneous melanoma (Version 1.2026). 2026 Feb 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on February 19, 2026.
12. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 3.2026). 2025 Dec 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on February 19, 2026.
13. National Comprehensive Cancer Network. Mesothelioma: pleural (Version 2.2026). 2025 Oct 3. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mpm.pdf. Accessed on February 19, 2026.
14. National Comprehensive Cancer Network. Kidney cancer (Version 1.2026). 2025 July 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf. Accessed on February 20, 2026.
15. National Comprehensive Cancer Network. Hodgkin lymphoma (Version 1.2026). 2025 Oct 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hodgkins.pdf. Accessed on February 20, 2026.
16. National Comprehensive Cancer Network. Head and neck cancers (Version 1.2026). 2025 Dec 8. Available at: https://www.nccn.org/professionals/physician_gls/pdf/head-and-neck.pdf. Accessed on February 20, 2026.
17. National Comprehensive Cancer Network. Bladder cancer (Version 3.2025). 2025 Dec 19. https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed on February 20, 2026.
18. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 2.2025). 2025 Oct 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on February 20, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

19. National Comprehensive Cancer Network. Esophageal and esophagogastric junction cancers (Version 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/esophageal.pdf. Accessed on February 20, 2026.
20. National Comprehensive Cancer Network. Colon cancer (Version 5.2025). 2025 Oct 30. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on February 20, 2026.
21. National Comprehensive Cancer Network. Gastric cancer (Version 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed on February 20, 2026.

Policy History		
#	Date	Change Description
3.3	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made.
3.2	Effective Date: 08/20/2025	UM medical management system update to BCBS, BCN, BCNA, and MAPPO for Opdivo Qvantig
3.1	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to include the trial and failure of preferred products statement and updated the renewal criteria to only allow for only 24 months of therapy for non-small cell lung cancer
3.0	Effective Date: 02/13/2025	Updated to include Opdivo Qvantig
2.9	Effective Date: 04/11/2024	Updated to remove the ECOG requirement
2.8	Effective Date: 04/06/2023	Updated approval length to allow for no less than a 60 day approval duration
2.7	Effective Date: 04/14/2022	Updated approval length to allow for FDA recommendeddosing or up to 6 months at a time
2.6	Effective Date: 04/08/2021	Updated to remove the renewal authorization period and only allow for a 6 months approval at a time.
2.5	Effective Date: 12/01/2020	UM medical management system update for BCBS for Opdivo
2.4	Effective Date: 04/16/2020	Annual review of criteria was performed, no changes were made.
2.3	Effective Date: 05/09/2019	Updated criteria: NCCN 1 and 2A and FDA approved indication
2.2	Effective Date: 11/01/2018	Expanded indications: SCLC and CRC
2.1	Effective Date: 08/09/2018	Expanded indications: melanoma and renal cell carcinoma

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.0	Effective Date: 05/03/2018	Expanded indications: colorectal cancer and hepatocellular carcinoma
1.9	Effective Date: 02/12/2018	UM medical management system update for BCNA and MAPPO for Opdivo
1.8	Effective Date: 11/09/2017	FDA labeling update for cHL
1.7	Effective Date: 08/10/2017	Expanded indication: Urothelial carcinoma
1.6	Effective Date: 05/04/2017	Expanded indication: SCCHN Updated RCC to include non-clear cell Updated dosing for: melanoma, NSCLC, and RCC
1.5	Effective Date: 11/10/2016	Expanded indication: cHL
1.4	Effective Date: 08/11/2016	Expanded indication: as monotherapy or combination therapy with Yervoy in BRAF V600 mutation
1.3	Effective Date: 05/05/2016	Expanded indications: as monotherapy in unresectable or metastatic melanoma in wild-type BRAF V600 and renal cell carcinoma
1.2	Effective Date: 02/11/2016	Expanded indications: unresectable or metastatic melanoma in wild-type BRAF V600 and non-squamous NSCLC
1.1	Effective Date: 08/13/2015	Expanded indication: squamous NSCLC
1.0	Effective Date: 05/07/2015	New policy UM medical management system update for BCN for Opdivo

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Nplate® (romiplostim)
HCPCS: J2802

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Nplate is a thrombopoietin receptor agonist indicated for the treatment of thrombocytopenia in adult patients with ITP who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy and pediatric patients 1 year of age and older with ITP for at least 6 months who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy. Nplate is also indicated to increase survival in adults and in pediatric patients (including term neonates) acutely exposed to myelosuppressive doses of radiation (HS-ARS).

- Nplate is not indicated for the treatment of thrombocytopenia due to myelodysplastic syndrome (MDS) or any cause of thrombocytopenia other than ITP. Nplate should be used only in patients with ITP whose degree of thrombocytopenia and clinical condition increases the risk for bleeding. Nplate should not be used in an attempt to normalize platelet counts.

- Idiopathic thrombocytopenic purpura

  - ITP, also known as primary immune thrombocytopenic purpura, is an autoimmune, hematologic disorder characterized by persistent thrombocytopenia due to autoantibody binding to platelet antigen(s) causing their premature destruction leading to an increase in bruising and bleeding. Risk of spontaneous bleeding increases as platelet counts drops below 20,000/mm^3. There are estimated to be approximately 60,000 individuals diagnosed with chronic ITP in the U.S.

  - For all patients with severe bleeding (eg, intracranial, gastrointestinal) and a platelet count < 30,000/microL, it is recommended that immediate platelet transfusion along with ITP-specific therapy with intravenous immune globulin (IVIG) and high-dose glucocorticoids. Recommendations also suggest ITP-specific therapy for patients with a new diagnosis of ITP and a platelet count < 20,000/microL, even in the absence of bleeding symptoms, because the thrombocytopenia may be persistent and become more severe. Some patients with platelet counts > 30,000/microL may require treatment if they have an increased risk of bleeding (eg, peptic ulcer disease, high risk of falling), other hemostatic defects (eg, use of antiplatelet agents or anticoagulants), a history of bleeding at a higher platelet count, or a need for surgery/invasive procedures.

  - Per the American Society of Hematology (ASH) guidelines for immune thrombocytopenia (2019) it is recommended that patients with ITP for ≥ 3 months who are corticosteroid-dependent or unresponsive to corticosteroids and are going to be treated with a TPO-RA, both eltrombopag and romiplostim (Nplate®) are suggested recommendations, with no clinical preference between the two. Doptelet® (avatrombopag) is another TPO-RA approved in 2018 for ITP and is not included in these guidelines. These guidelines make weak recommendations for a TPO-RA over rituximab and for rituximab over splenectomy, but the guideline emphasizes the potential usefulness of all three treatments. Tavalisse® (fostamatinib) is another treatment option that is not included in the ASH guidelines that is often used after a trial of guideline recommended therapies.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - First-line therapy is comprised of oral corticosteroids, immunoglobulins, and splenectomy. These therapies may be undesirable due to the associated complications and/or failure to achieve desirable response. Nplate, administered subcutaneously, is a peptibody that binds to and activates the human thrombopoietin receptor (TPO) leading to increased platelet production.

- Hematopoietic syndrome of acute radiation syndrome

  - Acute Radiation Syndrome (ARS) (sometimes known as radiation toxicity or radiation sickness) is an acute illness caused by irradiation of the entire body (or most of the body) by a high dose of penetrating radiation in a very short period of time (usually a matter of minutes).

  - The type of radiation exposure event influences the nature of the exposure (i.e., nonionizing versus ionizing radiation), types of ionizing particles (eg, alpha particles, beta particles, neutrons) and/or x-ray/gamma rays, the amount and duration of radiation exposure, and the consequent biologic effects.

  - Hematopoietic syndrome (sometimes referred to as bone marrow syndrome) will usually occur with a dose between 0.7 and 10 Gray (Gy: derived unit of ionizing radiation dose in the International System of Units (SI). It is defined as the absorption of one joule of radiation energy per kilogram of matter.)

    - Prodromal symptoms include anorexia, nausea and vomiting. Latent stage includes death of stem cells in bone marrow which can manifest symptoms of anorexia, fever, and malaise with a drop in all blood cell counts, causing infection and hemorrhage.

  - The recommended dose of Nplate is 10 mcg/kg administered once as a subcutaneous injection, and the dose should be administered as soon as possible after suspected or confirmed exposure to radiation levels greater than 2 Gy. Nplate should be administered regardless of whether a complete blood count can be obtained. The patient's absorbed whole body radiation dose should be estimated based on information from public health authorities, biodosimetry if available, or clinical findings such as time to onset of vomiting or lymphocyte depletion kinetics.

  - Efficacy studies of Nplate could not be conducted in humans with acute radiation syndrome for ethical and feasibility reasons. Efficacy studies conducted in animals, Nplate's effect on platelet count in healthy human volunteers, and its effect on thrombocytopenia in patients with ITP lead to its approval. Nplate significantly increased 60-day survival in irradiated animals, with a 72.5% survival in the Nplate group compared to 32.5% survival in the control group after total body irradiation of 6.8 Gy.

References:

1. Kojouri K GJ. Recent advances in the treatment of chronic refractory immune thrombocytopenic purpura. *Int J Hematol*. 2005;81(2):119-25.
2. Marini J, A W. Transfusion and blood component therapy: Lippincott Williams & Wilkins; 2005.
3. Nplate® (Romiplostim) Product Information. Thousand Oaks, CA: Amgen Inc.; February, 2021.
4. George JN WS, Raskob GE, et al. Idiopathic thrombocytopenic purpura: a practice guideline developed by explicit methods for the American Society of Hematology. *Blood*. 1996;88:3-40.
5. Guidelines for the investigation and management of idiopathic thrombocytopenic purpura in adults, children and in pregnancy. *British Journal of Hematology*. 2003;120:574-96.
6. Newland C SM, Bourgeois E, et al. Evaluating the long-term efficacy of romiplostim (AMG 531) in patients with chronic immune thrombocytopenic purpura (ITP) during an open-label extension study. *Haematologica*. 2008;93(suppl 1)(377 Abstract 0945.).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

7. Promacta® (eltrombopag) Product Information. Research Triangle Park, NC: GlaxoSmithKline; November 2018.
8. Kuter DJ, Rummel M, Boccia R, Macik BG, Pabinger I, Selleslag D, Rodeghiero F, Chong BH, Wang X, Berger DP. Romiplostim or standard of care in patients with immune thrombocytopenia. N Engl J Med. 2010 Nov 11;363(20):1889-99.
9. Kantarjian HM, Giles FJ, Greenberg PL, et al. Phase 2 study of romiplostim in patients with low- or intermediate-risk myelodysplastic syndrome receiving azacitidine therapy. Blood. 2010 Oct 28;116(17):3163-70. Epub 2010 Jul 14.
10. Feudjo-Tepie M, Robinson N, Bennett D. Prevalence estimates of adult chronic idiopathic thrombocytopenic purpura (ITP). J Thromb Haemost. 2008;6(4):711-712
11. © 2012 RegenceRx – Nplate (romiplostim). June 2012.
12. FDA Drug Safety Communication: Modified Risk Evaluation and Mitigation Strategies (REMS)for Nplate (romiplostim) and Promacta (eltrombopag). accessed 2/26/13 Available from: http://www.fda.gov/Drugs/DrugSafety/ucm280165.htm.
13. Radiation Emergencies. Acute radiation syndrome: A fact sheet for clinicians. Centers for Disease Control and Prevention https://www.cdc.gov/nceh/radiation/emergencies/arsphysicianfactsheet.htm Accessed March 2021.
14. Allen JY, Wingard JR, Kainiak N. Management of radiation injury. UpToDate. Literature review current through 2/2021. https://www.uptodate.com/contents/management-of-radiation-injury Accessed March 2021
15. Cindy E. Neunert; Current management of immune thrombocytopenia. Hematology Am Soc Hematol Educ Program 2013; 2013 (1): 276–282. doi: https://doi.org/10.1182/asheducation-2013.1.276
16. George JN, Arnold DM. Immune thrombocytopenia (ITP) in adults: Second-line and subsequent therapies. UpToDate. Current through October 2020. https://www.uptodate.com/contents/immune-thrombocytopenia-itp-in-adults-second-line-and-subsequent-therapies accessed November 2020.
17. Cindy Neunert, Deirdra R. Terrell, Donald M. Arnold, et. al.; American Society of Hematology 2019 guidelines for immune thrombocytopenia. Blood Adv 2019; 3 (23): 3829–3866. doi: https://doi.org/10.1182/bloodadvances.2019000966

Policy History		
#	Date	Change Description
2.7	Effective Date: 04/16/2026	Annual review of criteria was preformed, no changes were made
2.6	Effective Date: 04/10/2025	Annual review of criteria was preformed, no changes were made
2.5	Effective Date: 04/11/2024	Annual review of criteria was preformed, no changes were made
2.4	Effective Date: 04/06/2023	Updated the approval duration for HS-ARS to allow for 60 day requirement
2.3	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.
2.2	Effective Date: 04/08/2021	Updated with new FDA indication for hematopoetic syndrome of acute radiation syndrome (HS-ARS)
2.1	Effective Date: 12/03/2020	Annual review of criteria was performed, no changes were made.
2.0	Effective Date: 12/05/2019	Updated with new indication

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.9</td><td>Effective Date: 02/14/2019</td><td>Updated with new FDA age requirements</td></tr>
<tr><td>1.8</td><td>Effective Date: 02/08/2018</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.7</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.6</td><td>Effective Date: 02/09/2017</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.5</td><td>Effective Date: 01/01/2016</td><td>Updated with specific products required</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/20/2014</td><td>Added requirement of trial and failure of a preferred product</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/14/2014</td><td>Updated platelet requirements</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/01/2014</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 05/02/2013</td><td>Removed REMS requirement</td></tr>
<tr><td>1.0</td><td>Effective Date: 01/20/2009</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Nucala® (mepolizumab)
HCPCS: J2182

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Nucala is an interleukin-5 (IL-5) antagonist monoclonal antibody (IgG1 kappa) indicated for:
  - Add-on maintenance treatment of patients with severe asthma aged 6 years and older, and with an eosinophilic phenotype.
  - The treatment of adult patients with eosinophilic granulomatosis with polyangiitis (EGPA).
  - The treatment of adult and pediatric patients aged 12 years and older with hypereosinophilic syndrome (HES) for ≥6 months without an identifiable non-hematologic secondary cause.
  - Add-on maintenance treatment of adult patients with inadequately controlled chronic obstructive pulmonary disease (COPD) and an eosinophilic phenotype.
  - Limitations of use: Not for relief of acute bronchospasm or status asthmaticus.
- Eosinophilic Granulomatosis with Polyangiitis (EGPA, formerly Churg-Strauss Syndrome)
  - Rare condition affecting 10-15 people per million
  - Mean age of diagnosis is 40 years old, and is rare in children, adolescents, and patients over 65
  - Antineutrophil cytoplasmic antibodies (ANCAs) are found in 40%-60% of patients, but it is unknown whether ANCAs have a pathogenic role or if this is simply a manifestation of EGPA
  - Multisystem disorder characterized by allergic rhinitis, asthma, and prominent peripheral blood eosinophilia
  - Primarily affects the lungs, followed by the skin, but also involves the cardiovascular, gastrointestinal, renal, and central nervous systems
  - Asthma is the cardinal feature of EGPA, which presents, along with allergic rhinitis and nasal polyps, long before vasculitis and the initial EGPA diagnosis

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The next phase of the disease is typically eosinophilia, high levels of eosinophils in the blood, which are 5% or less in healthy patients and at least 10% up to as high as 60% in EGPA patients

- Vasculitis is the third and final phase of symptoms and includes several organs: fever, fatigue, sudden weight loss, muscle and joint pain, rash, numbness/tingling/loss of strength of hands or feet, chest pain or palpitations, shortness of breath, chronic cough, venous thrombotic events, abdominal pain, blood in stool

- Nucala is the first and only treatment available for adults with EGPA

- Hypereosinophilic syndrome (HES)

  - HES are a group of rare disorders marked by the sustained overproduction of eosinophils with an estimated prevalence between 0.36 to 6.3 per 100,000.

  - In HES, eosinophils damage the tissues that they infiltrate, with common targets that include skin, lung, and GI tract.

  - The goal of therapy is a reduction of the absolute eosinophil count, reduction of signs and symptoms, and prevention of disease progression.

  - Choice of therapy depends on clinical features, specifically whether the patient has clinical features consistent with a myeloid disorder with or without a FIP1L1-PDGFRA positive mutation. Those with myeloid variants are treated initially with imatinib mesylate, while other types of HES are treated with an initial trial of glucocorticoids.

  - Per the guideline for the investigation and management of eosinophilia in the British Journal of Haematology from January 2017, patients with idiopathic HES who do not respond adequately to corticosteroids, or who require prolonged corticosteroid therapy, or who are intolerant of corticosteroids, should be considered for a short trial (4 – 6 weeks) of imatinib, immunomodulatory agents (interferon alpha, ciclosporin or azathioprine), myelosuppressive therapy (hydroxycarbamide) or monoclonal antibody therapy with mepolizumab (anti-interleukin 5), the latter preferably as part of a clinical trial (Grade 2B).

  - Prednisone is the primary initial therapy for symptomatic FIP1L1-PDGFRA-negative HES without indications for emergency treatment. Appropriate starting doses range from 20 mg to 60 mg daily, depending on the severity of the disease manifestations and the degree of eosinophilia at presentation. The dose should be adjusted once the patient responds. Once blood eosinophilia is suppressed and symptoms are controlled, daily glucocorticoid doses are gradually reduced to the lowest dose that maintains control of the eosinophil count and clinical manifestations. Alternate-day dosing should be the ultimate goal if tolerated.

  - Hypereosinophilia of unknown significance (HEus) patients are asymptomatic but have marked eosinophilia (>1,500 cells/microL) and no evidence of clinical manifestations or organ involvement. HEus is not considered a form of HES as eosinophil-mediated complications are absent.

  - Those individuals included in Nucala's pivotal trial for HES had eosinophil counts greater than 1,000 cells/microL during screening, a history of 2 or more flares within the past 12 months and had been stable on HES therapy for at least 4 weeks prior to randomization.

- Severe asthma with an eosinophilic phenotype

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Severe asthma requires treatment with high dose inhaled corticosteroids (ICS) plus a second controller (and/or systemic corticosteroids) to prevent it from becoming uncontrolled or which remains uncontrolled despite therapy. Add-on treatment for severe asthma include LAMA, leukotriene receptor antagonist (LTRA), low dose azithromycin (adults) and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in a majority of people with severe asthma and characterized by production of cytokines such as interleukin (IL). Anti-IL5 monoclonal antibodies (Cinqair®, Nucala, and Fasenra™) specifically target the formation of eosinophils and deplete blood eosinophil levels.

- The Global Institute for Asthma (GINA) 2023 Difficult-to-Treat & Severe Asthma Diagnosis and Management guidelines recommend those with sever asthma and Type 2 airway inflammation (blood eosinophils ≥ 150/µL and/or fractional exhaled nitric oxide (FeNO) ≥20 ppb and/or sputum eosinophils ≥2%, and/or asthma is clinically allergen driven) first should consider adherence tests and consider increasing the ICS dose for 3-6 months. Add-on Type 2-targeted biologic therapy should be considered for patients with exacerbations or poor symptom control on high dose ICS-LABA. Local payer eligibility criteria, comorbidities should also be considered. Anti-IL5/anti-IL5R, including Nucala is appropriate in patients with exacerbations in the last year and blood eosinophils ≥ 150/µL.

- A peripheral blood eosinophil count is an indirect way to estimate airway inflammation. A blood eosinophil count ≥ 300 cells/microL may help predict asthmatics who are at increased risk for exacerbations in the next year. Furthermore, a count-response relation exists between blood eosinophil counts and asthma-related outcomes. The European Respiratory Society/American Thoracic Society guidelines from 2020 suggest that treatment of severe asthma be guided by clinical criteria and biomarkers such as blood eosinophil levels or fractional exhaled nitric oxide (FeNO), rather than by clinical criteria alone. In addition, it also suggests that a blood eosinophil count cut-off point of ≥ 150 cells/microliter can be used to guide anti-IL5 initiation in adult patients with severe asthma and a history of prior asthma exacerbations.

- Response to biologic therapy is reviewed after 3-4 months of treatment. If the patient had a good response, the need for each medication should re-evaluated, but do not completely stop inhaled therapy. Consider gradually decreasing or stopping oral steroids first.

- Chronic rhinosinusitis with nasal polyps

  - Chronic rhinosinusitis with nasal polyps (CRSwNP, also referred to as nasal polyposis or nasal polyps) is a chronic inflammatory disease of the nasal passage lining or sinuses that leads to bilateral, benign soft tissue growth referred to as nasal polyps. It affects 5% - 12% of the general population worldwide, often occurring with other immunologic conditions such as allergies and/or asthma. The polyps are characterized by elevated eosinophil levels and are most commonly seen in the third and fourth decade of life.

  - The cornerstone of treatment for nasal polyps is intranasal corticosteroids as well as nasal saline sprays or irrigation. Systemic corticosteroids may also be used short term (10-15 days) to reduce severe polyp inflammation and symptoms like impaired sense of smell or severe nasal blockage.

  - For patients with refractory disease that has not responded to intranasal and oral corticosteroids, biologic therapy and/or functional endoscopic sinus surgery (FESS) may be considered. Surgery must be followed with maintenance therapy with intranasal corticosteroids and other appropriate therapies to prevent recurrence of polyps. No comparative studies or guidelines are available that recommend one treatment option over another for refractory cases.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

    - Maintenance therapies are initiated once symptoms have been controlled to minimize inflammation and prevent the regrowth of nasal polyps after surgery. The mainstay of maintenance treatment is intranasal glucocorticoids. Leukotriene inhibitors may also be of benefit as adjunctive therapy, particularly if allergic rhinitis or aspirin-exacerbated respiratory disease are suspected contributing factors.

- COPD with an eosinophilic phenotype

    - The 2025 Global Initiative for Chronic Obstructive Lung Disease (GOLD) Report ("GOLD guideline") defines COPD as a heterogeneous lung condition characterized by chronic respiratory symptoms (dyspnea, cough, sputum production, and/or exacerbations) due to abnormalities of the airways (bronchitis, bronchiolitis) and/or alveoli (emphysema) that cause persistent, often progressive airflow obstruction. As the definition states, COPD includes chronic bronchitis and/or emphysema, which both make emptying air from the lungs progressively more difficult. Most people with COPD have a combination of both conditions. Dyspnea is the most common symptom of COPD; however, chronic cough and sputum production are also cardinal symptoms. COPD is a common, chronic lung disease. It is estimated that 16 million people in the United States have COPD, which represents a prevalence of about 6% among adults. COPD is almost exclusively diagnosed in adulthood, typically in adults over the age of 40 years. However, factors/exposures from childhood (e.g. premature birth, respiratory infections, secondhand smoke) are thought to play a role in the future development of COPD in some patients. The prevalence of COPD increases with age, with an estimated prevalence of over 12% in the 65 years of age and older population. COPD is slightly more common in women than men.

    - The GOLD guideline's (2025) initial treatment algorithm for COPD is individualized based on an assessment of the patient's symptoms and exacerbation history. These assessments determine the suggested treatment option for patients. Initial pharmacologic treatment includes either a bronchodilator, LABA + LAMA, or LABA + LAMA + ICS depending on a patient's symptoms and exacerbation history. LABA + LAMA + ICS should be considered if blood eosinophils are ≥ 300/µL. Among those with eosinophils ≥ 300/µL and symptoms of chronic bronchitis, consider adding dupilumab (Dupixent®). If a patient's response to initial treatment is appropriate, they should be maintained on that treatment. If a patient does not respond to initial treatment, then adherence, inhaler technique, and possible interfering comorbidities should be checked. Follow-up pharmacologic treatment follows a stepwise approach and is determined based on whether dyspnea or exacerbations are the predominant treatable trait to target. If dyspnea is the predominant trait a patient should start with either a LAMA or LABA and should progress to LABA + LAMA. If exacerbations are the predominant trait, then patients should start with a LABA or LAMA, progress to LABA + LAMA (+ICS if blood eosinophil count ≥ 300 cells/µL) and eventually add on roflumilast (if FEV1 <50% and chronic bronchitis) or add azithromycin (preferred in former smokers). Of note, Nucala has not been included in the GOLD guidelines at this time.

    - During Phase III trials, Nucala was evaluated in patients with COPD and an eosinophilic phenotype (blood eosinophil count [BEC] ≥150 cells/µL); Dupixent was evaluated in patients with a BEC ≥300 cells/µL. GSK notes that ~70% of U.S. patients with COPD who continue to experience exacerbations on inhaled triple therapy have a BEC ≥150 cells/µL, representing over one million people.

- There have been no studies supporting co-administration of Nucala with other biologics for approved indications, therefore the safety and efficacy of Nucala in unknown when used in combination with other biologics.

- Clinical reasons a patient may be unable to self-administer Nucala include:

    - Patient or caregivers are unable to perform subcutaneous injections with proper technique

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Member requires monthly medical support from the physician

References:

1. Nucala [prescribing information]. Philadelphia, PA: GlaxoSmithKline; July 2021.
2. GlaxoSmithKline. Efficacy and Safety Study of Mepolizumab in Subjects With Severe Hypereosinophilic Syndrome (HES). Available from https://clinicaltrials.gov/ct2/show/NCT02836496 ClinicalTrials.gov identifier: NCT02836496. Accessed 11.2.20
3. Blankenship, K. GlaxoSmithKline's Nucala targets rival AstraZeneca with FDA nod for rare white blood cell disease. Fierce Pharma. September 28, 2020. https://www.fiercepharma.com/pharma/glaxosmithkline-s-nucala-earns-fda-nod-for-rare-white-blood-cell-disease-shot-to-rival
4. Chupp GL, Bradford ES, Albers FC, et al. Efficacy of mepolizumab add-on therapy on health-related quality of life and markers of asthma control in severe eosinophilic asthma (MUSCA): a randomised, double-blind, placebo-controlled, parallel-group, multicentre, phase 3b trial. Lancet Respir Med. 2017; 5(5):390-400. doi: 10.1016/S2213-2600(17)30125-X.
5. Gleich G, Nelson K, Wechsler M. Eosinophilic Asthma. American partnership for Eosinophilic Disorders. Available at: https://apfed.org/about-ead/eosinophilic-asthma/. Accessed May 20, 2018.
6. Groh M, Pagnoux C, Baldini C, et al. Eosinophilic granulomatosis with polyangiitis (Churg-Strauss) (EGPA) Consensus Task Force recommendations for evaluation and management. Eur J Intern Med. 2015; 26(7):545-53. doi: 10.1016/j.ejim.2015.04.022.
7. King TE. Epidemiology, pathogenesis, and pathology of eosinophilic granulomatosis with polyangiitis (Churg-Strauss). UpToDate. Available at: https://www.uptodate.com/contents/epidemiology-pathogenesis-and-pathology-of-eosinophilic-granulomatosis-with-polyangiitis-churg-strauss#H10. Accessed May 22, 2018.
8. Matteson EL. Eosinophilic Granulomatosis with Polyangiitis (EGPA/Churg-Strauss Syndrome). Vasculitis Foundation. Available at: https://www.vasculitisfoundation.org/education/forms/eosinophilic-granulomatosis-with-polyangiitis-churg-strauss-syndrome/. Accessed May 22, 2018.
9. Ortega HG, Liu MC, Pavord ID, et al. Mepolizumab Treatment in Patients with Severe Eosinophilic Asthma. N Engl J Med 2014; 371:1198-1207. DOI: 10.1056/NEJMoa1403290
10. Parameswaran N, Pizzichini MM, and O'Byrne PM. Mepolizumab for Prednisone-Dependent Asthma with Sputum Eosinophilia. N Engl J Med 2009; 360:985-993. doi: 10.1056/NEJMoa080543.
11. Wechsler ME, Akuthota P, Jayne D, et al. Mepolizumab or Placebo for Eosinophilic Granulomatosis with Polyangiitis. N Engl J Med 2017; 376:1921-1932. DOI: 10.1056/NEJMoa1702079
12. Eosinophilic Granulomatosis with Polyangiitis, formerly Churg-Strauss Syndrome (EGPA). John Hopkins Medicine. Available at: https://www.hopkinsvasculitis.org/types-vasculitis/churgstrauss-syndrome-css/. Accessed May 22, 2018.
13. Preliminary Medication Review. New Molecular Entity Respiratory Tract/Pulmonary Agents: Monoclonal Antibodies: Mepolizumab (Nucala) [GlaxoSmithKline]. Highmark. November 2015.
14. Roufosse F, Klion AD, Weller PF. Hypereosinophilic syndromes: Clinical Manifestations, pathophysiology, and diagnosis. UpToDate. https://www.uptodate.com/contents/hypereosinophilic-syndromes-clinical-manifestations-pathophysiology-and-diagnosis Accessed 11.2.20
15. Roufosse F, Klion AD, Weller PF. Hypereosinophilic syndromes: Treatment. UpToDate. https://www.uptodate.com/contents/hypereosinophilic-syndromes-treatment Accessed 11.2.20
16. 16. Butt NM, Lambert J, Ali S, et. al. Guideline for the investigation and management of eosinophilia. Br J Haematol. 2017;176:553-572. https://doi.org/10.1111/bjh.14488
17. Global Initiative for Asthma. GINA Difficult-to-treat & severe asthma in adolescent and adult patients – diagnosis and management. V4.0 August 2023. Available at: www.ginasthma.org.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

18. Holguin F, Cardet JC, Chung KF, et al. Management of severe asthma: a European Respiratory Society/American Thoracic Society guideline. Eur Respir J 2020; 55
19. Hamilos DL and Holbrook EH. Chronic rhinosinusitis: Management. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
20. Bhattacharyya N. Nasal obstruction: Diagnosis and management. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
21. Global Initiative for Chronic Obstructive Lung Disease. Global strategy for prevention, diagnosis and management of COP: 2025 Report. https://goldcopd.org/2025-gold-report/ Accessed July 2025

Table 1: Comparative cumulative daily dosing of inhaled corticosteroids (mcg/day)

Inhaled Corticosteroid	Ages 12 and up			Ages 6-11		
	Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
Beclomethasone dipropionate HFA	100 – 200	>200 – 400	>400	50 – 100	>100 – 200	>200
Budesonide DPI	200 – 400	>400 – 800	>800	100 – 200	>200 – 400	>400
Budesonide nebules	NA	NA	NA	250 – 500	>500 – 1,000	>1,000
Ciclesonide HFA	80 – 160	>160 – 320	>320	80	>80 – 160	>160
Fluticasone furoate DPI	100	NA	200	NA	NA	NA
Fluticasone propionate DPI	100 – 250	>250 – 500	>500	100 – 200	>200 – 400	>400
Fluticasone propionate HFA	100 – 250	>250 – 500	>500	100 – 200	>200 – 500	>500
Mometasone furoate	110 – 220	>220 – 440	>440	110	≥220 - <440	≥440
Triamcinolone acetonide	400 – 1,000	>1,000 – 2,000	>2,000	400 – 800	>800 – 1,200	>1,200

Policy History		
#	Date	Change Description
3.0	Effective Date: 08/13/2026	Annual review of policy; no changes were made to the criteria.
2.9	Effective Date: 08/07/2025	Added criteria for newly approved COPD with eosinophilic phenotype indication.
2.8	Effective Date: 10/03/2024	Changed the verbiage of “cannot be used in combination with other biologic agents indicated for any of the conditions listed in the policy and other targeted DMARDs” to “Not to

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		be used in combination with other biologics or targeted DMARDs for the same indication" to align with other biologic policies
2.7	Effective Date: 10/12/2023	Annual review of policy; no changes were made to the criteria.
2.6	Effective Date: 10/06/2022	Criteria updated to require self-administration unless clinically unable to do so
2.5	Effective Date: 10/07/2021	Updated to include criteria for new indication: chronic rhinosinusitis with nasal polyps. For asthma indication: Updated LABA and LAMA requirement to LABA or LAMA
2.4	Effective Date: 06/10/2021	Criteria aligned between all biologic asthma agents. Supporting information updated for eosinophilic asthma. The criteria for asthma was previously part of the Biologics for Asthma Policy which will be retired
2.3	Effective Date: 12/03/2020	Updated to include new indication for Hypereosinophilic Syndrome.
2.2	Effective Date: 10/08/2020	Annual Review
2.1	Effective Date: 08/13/2020	Criteria updated for Fasenra
2.0	Effective Date: 04/16/2020	Critieria update for step therapy to reference dosing chart for inhaled corticosteroids.
1.9	Effective Date: 02/06/2020	Criteria updated to include eosinophil level for the diagnosis of EGPA per clinical trial
1.8	Effective Date: 12/05/2019	Updated policy criteria to include Fasenra self-administered product
1.7	Effective Date: 11/07/2019	Criteria update to authorization period and FDA approved age
1.6	Effective Date: 08/15/2019	Updated criteria to account for new self-injectable Nucala formulation
1.5	Effective Date: 02/14/2019	Criteria update
1.4	Effective Date: 11/01/2018	Criteria update
1.3	Effective Date: 08/09/2018	Updated document for new indication of EGPA

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 02/12/2018</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/11/2016</td><td>New Criteria</td></tr>
<tr><td>1.0</td><td>Effective Date: 11/05/2015</td><td>Preliminary Criteria
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Nulibry® (fosdenopterin)
HCPCS: J3490, C9399

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Nulibry is a cyclic pyranopterin monophosphate (cPMP) substrate replacement therapy indicated for the treatment of molybdenum cofactor deficiency (MoCD) Type A.

- MoCD is an autosomal recessive disorder that results from one of several single gene defects in the biosynthetic pathway of molybdenum cofactor. Molybdenum cofactor deficiency is caused by mutations in the molybdenum cofactor synthesis 1 (MOCS1), MOCS2, or GPHN gene. There are three forms of the disorder, named types A, B, and C (or complementation groups A, B, and C). The forms have the same signs and symptoms but are distinguished by their genetic cause: MOCS1 gene mutations cause type A, MOCS2 gene mutations cause type B, and GPHN gene mutations cause type C.

- Approximately two-thirds of patients have MoCD type A, in which mutations in MOSC1 result in the inability to synthesize the first intermediate in the pathway, cyclic pyranopterin monophosphate (cPMP), and the toxic accumulation of sulfites in blood and urine. Tests reveal that affected individuals have high levels of sulfite, S-sulfocysteine, xanthine, and hypoxanthine in the urine and low levels of uric acid in the blood. A positive sulfite dipstick finding of very fresh urine is highly suggestive of sulfite oxidase deficiency and MoCD; however, a negative dipstick finding should not eliminate suspicion, as urinary sulfite is an unstable compound and prone to false-negative results related to drugs and bacterial degradation.

- MoCD is a rare condition characterized by encephalopathy that worsens over time. Babies with this condition appear normal at birth, but within a week they have difficulty feeding and develop intractable seizures. Brain abnormalities, including atrophy of brain tissue, lead to severe developmental delay; affected individuals usually do not learn to sit unassisted or to speak.

- Biochemical tests, when paired with clinical presentation, can confirm a suspected MoCD diagnosis. A genetic test is the only way to distinguish between MoCD subtypes, and genetic results can take weeks.

- In patients with a presumptive diagnosis of MoCD Type A based on biochemical tests and clinical presentation, confirmation of the diagnosis of MoCD Type A via genetic testing should commence immediately after initiation of Nulibry treatment. Nulibry should be discontinued if the MoCD Type A diagnosis is not confirmed by genetic testing.

- MoCD is estimated to occur in 1 in 100,000 to 200,000 newborns worldwide with a median survival of less than 4 years. More than 100 cases have been reported in the medical literature, although it is thought that the condition is underdiagnosed, so the number of affected individuals may be higher.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Prior to the development of the synthetic form of cPMP (Nulibry), an E.coli derived recombinant form of cPMP (rcPMP) was in development. Studies for the approval of Nulibry include this rcPMP which has the same active moiety and biologic activity as Nulibry. Studies showed the safety and efficacy of switching patients from rcPMP to cPMP.

References:

1. Nulibry [prescribing information]. Boston, MA: Origin Biosciences, Inc.; October 2022
2. Origin Biosciences. Study of ORGN001 (Formerly ALXN1101) in Neonates, Infants and Children With Molybdenum Cofactor Deficiency (MOCD) Type A. Available from: https://clinicaltrials.gov/ct2/show/NCT02629393 ClinicalTrials.gov Identifier: NCT02629393. Accessed 11.2.2020
3. Origin Biosciences. Safety & Efficacy Study of ORGN001 (Formerly ALXN1101) in Pediatric Patients With MoCD Type A Currently Treated With rcPMP. Available from: https://clinicaltrials.gov/ct2/show/NCT02047461 ClinicalTrials.gov Identifier: NCT02047461. Accessed 11.2.2020
4. NIH U.S. National Library of Medicine. MedlinePlus: Molybdenum cofactor deficiency. https://medlineplus.gov/genetics/condition/molybdenum-cofactor-deficiency/
5. Bridgebio. BridgeBio Pharma And Affiliate Origin Biosciences Announces FDA Acceptance Of Its New Drug Application For Fosdenopterin For The Treatment Of MoCD Type A. Press release from 9.29.2020. https://bridgebio.com/news/bridgebio-pharma-and-affiliate-origin-biosciences-announces-fda-acceptance-of-its-new-drug-application-for-fosdenopterin-for-the-treatment-of-mocd-type-a
6. Shellhaas R MD. Etiology and prognosis of neonatal seizures. UpToDate. https://www.uptodate.com/contents/etiology-and-prognosis-of-neonatal-seizures Accessed 11.2.2020
7. Jethva, R. Sulfite oxidase deficiency and molybdenum cofactor deficiency. Medscape https://emedicine.medscape.com/article/949303-overview accessed March 2021
8. Mechler K et al. Genet Med. 2015;17(12):965-9
9. Zaki MS et al. Molybdenum cofactor and isolated sulphite oxidase deficiencies: Clinical and molecular spectrum among Egyptian patients. Eur J PaediatrNeurol. 2016;20(5):714-722.

Policy History		
#	Date	Change Description
1.9	Effective Date: 04/16/2026	Annual review of criteria was preformed, no changes were made
1.8	Effective Date: 04/10/2025	Annual review of criteria was preformed, no changes were made
1.7	Effective Date: 04/11/2024	Annual review of criteria was preformed, no changes were made
1.6	Effective Date: 04/06/2023	Annual review of criteria was preformed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 04/14/2022</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/22/2021</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.3</td><td>Effective Date: 05/03/2021</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 04/08/2021</td><td>New policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 04/05/2021</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/03/2020</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ohtuvayre™ (ensifentrine)
HCPCS: J7601

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ohtuvayre is a phosphodiesterase-3 (PDE3) inhibitor and phosphodiesterase-4 (PDE4) inhibitor indicated for the maintenance treatment of chronic obstructive pulmonary disease (COPD) in adult patients.

- The 2025 Global Initiative for Chronic Obstructive Lung Disease (GOLD) Report ("GOLD guideline") defines COPD as a heterogeneous lung condition characterized by chronic respiratory symptoms (dyspnea, cough, sputum production, and/or exacerbations) due to abnormalities of the airways (bronchitis, bronchiolitis) and/or alveoli (emphysema) that cause persistent, often progressive airflow obstruction. As the definition states, COPD includes chronic bronchitis and/or emphysema, which both make emptying air from the lungs progressively more difficult. Most people with COPD have a combination of both conditions. Dyspnea is the most common symptom of COPD; however, chronic cough and sputum production are also cardinal symptoms. COPD is a common, chronic lung disease. It is estimated that 16 million people in the United States have COPD, which represents a prevalence of about 6% among adults. COPD is almost exclusively diagnosed in adulthood, typically in adults over the age of 40 years. However, factors/exposures from childhood (e.g. premature birth, respiratory infections, secondhand smoke) are thought to play a role in the future development of COPD in some patients. The prevalence of COPD increases with age, with an estimated prevalence of over 12% in the 65 years of age and older population. COPD is slightly more common in women than men.

- The GOLD guideline's (2025) initial treatment algorithm for COPD is individualized based on an assessment of the patient's symptoms and exacerbation history. These assessments determine the suggested treatment option for patients. Initial pharmacologic treatment includes either a bronchodilator, LABA + LAMA, or LABA + LAMA + inhaled corticosteroid (ICS) depending on a patient's symptoms and exacerbation history. If a patient's response to initial treatment is appropriate, they should be maintained on that treatment. If a patient does not respond to initial treatment, then adherence, inhaler technique, and possible interfering comorbidities should be checked. Follow-up pharmacologic treatment follows a stepwise approach and is determined based on whether dyspnea or exacerbations are the predominant treatable trait to target. If dyspnea is the predominant trait a patient should start with either a LAMA or LABA and should progress to LABA + LAMA. If the addition of a second long-acting bronchodilator does not improve symptoms of dyspnea the guidelines recommend considering switching inhaler device or molecules, implementing or escalating non-pharmacological treatment(s) e.g., pulmonary rehabilitation, and considering adding Ohtuvayre (ensifentrine) if available. If exacerbations are the predominant trait then patients should start with a LABA or LAMA, progress to LABA + LAMA (+ICS if blood eosinophil count ≥ 300 cells/µL) and eventually add on roflumilast (if FEV1 <50% and chronic bronchitis) or add azithromycin (preferred in former smokers) or Dupixent® (dupilumab) (if blood eosinophil count ≥ 300 cells/µL with chronic bronchitis).

- The efficacy of Ohtuvayre was evaluated in two 24-week randomized, double-blind, placebo-controlled, parallel-group clinical trials (ENHANCE-1 and ENHANCE-2). The two trials enrolled a total of 1,553 adults with moderate to severe COPD with or without background LABA ± ICS or LAMA ± ICS maintenance therapy. Ohtuvayre was not studied as an add-on treatment to standard-of-care dual LAMA/LABA or triple LAMA/LABA/ICS inhaler maintenance therapies.

    - The primary endpoint for ENHANCE-1 and ENHANCE-2 was the change from baseline in FEV1 $AUC_{0\text{-}12h}$ post-dose at Week 12.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In ENHANCE-1 and ENHANCE-2, Ohtuvayre demonstrated an improvement in lung function, with an average increase in FEV1 $AUC_{0–12h}$ of 87 mL and 94 mL, respectively, versus placebo at Week 12 (p <0.001).

- In ENHANCE-1 and ENHANCE-2, an analysis was conducted to determine the effect of Ohtuvayre compared with placebo on the annual moderate to severe COPD exacerbation rate but was not part of the formal testing hierarchy.

    - Pooled analysis of the two studies also showed that Ohtuvayre reduced exacerbations through 24 weeks by 40% in patients with moderate to severe COPD.

References:

1. Ohtuvayre [prescribing information]. Raleigh, NC. Verona Pharma, Inc. June 2024.
2. IPD Analytics New Drug Preview – Ensifentrine (RPL554). December 2023. IPDAnalytics.com
3. Global Initiative for Chronic Obstructive Lung Disease. Global strategy for prevention, diagnosis and management of COP: 2025 Report. https://goldcopd.org/2025-gold-report/ Accessed July 2025

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date:
08/13/2026</td><td>Annual review of policy. No changes were made to the criteria.</td></tr>
<tr><td>1.4</td><td>Effective Date:
06/22/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.3</td><td>Effective Date:
08/07/2025</td><td>Annual review of policy. No changes were made to the criteria.</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 07/01/2025</td><td>UM medical management system removal for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 08/08/2024</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 07/15/2024</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Omalizumab Products

Omalizumab-igec - HCPCS: Q5154
Omlyclo® (omalizumab-igec) **- HCPCS: Q5154**
Xolair® (omalizumab) **- HCPCS: J2357**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Omalizumab is an anti-IgE antibody indicated for: moderate to severe persistent asthma in adults and pediatric patients 6 years of age and older with a positive skin test or in vitro reactivity to a perennial aeroallergen and symptoms that are inadequately controlled with inhaled corticosteroids; chronic rhinosinusitis with nasal polyps (CRSwNP) in adult patients 18 years of age and older with inadequate response to nasal corticosteroids as add-on maintenance treatment; IgE-mediated food allergy in adult and pediatric patients aged 1 year and older for the reduction of allergic reactions (type I), including anaphylaxis, that may occur with accidental exposure to one or more foods; and chronic spontaneous urticaria (CSU) in adults and adolescents 12 years of age and older who remain symptomatic despite H1 antihistamine treatment. Omalizumab is not indicated for acute bronchospasm or status asthmaticus, the emergency treatment of allergic reactions, including anaphylaxis, or other forms of urticaria.

- Uncontrolled Moderate to Severe Allergic Asthma

    - Per the Global Institute for Asthma (GINA) 2026 guidelines, severe asthma is a subset of difficult-to-treat asthma that is uncontrolled despite adherence with maximal optimized high-dose inhaled corticosteroid (ICS)-LABA treatment and management of contributory factors, or that worsens when high-dose treatment is decreased. Severe asthma requires treatment with high dose ICS plus a second controller (and/or systemic corticosteroids) to prevent it from becoming uncontrolled or which remains uncontrolled despite therapy. Add-on treatment for severe asthma include LAMA, leukotriene receptor antagonist (LTRA), low dose azithromycin (adults) and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in a majority of people with severe asthma and is characterized by production of cytokines such as interleukin and can also include immunoglobulin E (IgE)-mediated events involving mast cells and basophils (in particular, mast cells, eosinophils, T lymphocytes, macrophages, neutrophils, and epithelial cells). Anti-IgE monoclonal antibodies reduce the levels of circulating IgE and inhibit the binding of IgE to mast cells to prevent activation of the allergic cascade and decrease inflammation.

    - The GINA 2026 guidelines stepwise approach recommend those in STEP 5 have a short trial of combination high-dose ICS-LABA, maintenance and reliever therapy (MART) with ICS-formoterol, to add therapy with LAMAs such as tiotropium, to refer for phenotypic assessment for biologic therapy (anti-IgE therapy, anti-IL5 therapy, or anti-IL4 therapy, or anti-thymic stromal lymphopoietin (TSLP) therapy), and/or azithromycin in some patients. Using ICS-formoterol as MART (maintenance and rescue therapy) as recommended by the 2026 GINA guidelines allows for budesonide products to reach high-dose per Table 1. The GINA 2026 guidelines recommend omalizumab as an add-on anti-IgE maintenance therapy option for patients with severe allergic asthma uncontrolled on high-dose ICS-LABA.

    - The IgE levels in the coverage criteria are based on the efficacy data from the clinical trials of these medications and where they were found to be most effective.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Review response to biologic therapy after 4 months of treatment. If the patient had a good response, the need for each medication should re-evaluated, but do not completely stop inhaled therapy. Consider gradually decreasing or stopping oral steroids first.

- Chronic Spontaneous Urticaria

  - In the United States approximately 1.5 million people suffer from chronic spontaneous urticaria (CSU; previously referred to as chronic idiopathic urticaria). CSU is characterized by red, swollen, itchy and sometimes painful hives on the skin that spontaneously present and re-occur for more than 6 weeks. Up to 40% of these patients may also experience angioedema.

  - Per the European Academy of Allergology and Clinical Immunology (EAACI), the Global Allergy and Asthma European Network (GA²LEN) and its Urticaria and Angioedema Centers of Reference and Excellence (UCAREs and ACAREs), the European Dermatology Forum (EDF; EuroGuiDerm), and the Asia Pacific Association of Allergy, Asthma and Clinical Immunology guideline for the definition, classification, diagnosis, and management of urticaria (2022) that is endorsed by the American Academy of Dermatology and the American College of Allergy, Asthma and Immunology, CSU is defined as the appearance of wheals, angioedema, or both for more than 6 weeks due to known or unknown causes. Signs and symptoms may occur daily or almost daily or follow an intermittent/recurrent course. CSU may recur after a month or years of a patient achieving full remission.

  - The above guidelines recommend a 2nd generation H_1-antihistamine as first-line treatment for all types of urticaria and recommend updosing of a 2nd generation H_1-antihistamine up to fourfold in patients with chronic urticaria unresponsive to a standard-dosed 2nd generation H_1-antihistamine as second-line treatment before other treatments are considered. It is recommended to add omalizumab for the treatment of patients with chronic urticaria unresponsive to high-dose 2nd generation H_1-antihistamines

  - Though the guidelines strongly recommend treating according to the aforementioned algorithm, they also recognize that the use of omalizumab may be cost prohibitive. The guidelines therefore acknowledge that other more affordable alternatives with lower levels of evidence may still be relevant in certain contexts based on clinical experience and may be added if the urticaria is unresponsive to 2nd generation H_1-antihistamines alone. The most widely used of these alternatives include doxepin, H_2-antihistamines, immunosuppressives (i.e., methotrexate, mycophenolate mofetil), and leukotriene receptor antagonists (e.g., montelukast).

  - 2014 guidelines from the American Academy of Allergy, Asthma, and Immunology and the American College of Allergy, Asthma, and Immunology recommend a similar approach to the 2022 international guidelines; however, the following alternatives are suggested prior to recommending the addition of omalizumab if the urticaria is unresponsive to 2nd generation H_1-antihistamines alone: adding a different second-generation antihistamine, adding an H_2-antihistamine, adding a leukotriene receptor antagonist, adding a first generation H_1-antihistamine at bedtime, or other adjunctive therapies like hydroxyzine or doxepin.

  - Omalizumab and dupilumab are the only other drugs besides H_1-antihistamines that are FDA approved for treatment of CSU. Guidelines have not yet been updated to include dupilumab's place in therapy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Nasal Polyps

    - Chronic rhinosinusitis with nasal polyps (CRSwNP, also referred to as nasal polyposis or nasal polyps) is a chronic inflammatory disease of the nasal passage lining or sinuses that leads to bilateral, benign soft tissue growth referred to as nasal polyps. It affects 5-12% of the general population worldwide, often occurring with other immunologic conditions such as allergies and/or asthma. The polyps are characterized by elevated eosinophil levels and are most commonly seen in the third and fourth decade of life.

    - The cornerstone of treatment for nasal polyps is intranasal corticosteroids as well as nasal saline sprays or irrigation. Systemic corticosteroids may also be used short term (10-15 days) to reduce severe polyp inflammation and symptoms like impaired sense of smell or severe nasal blockage.

    - For patients with refractory disease that has not responded to intranasal and oral corticosteroids, biologic therapy and/or functional endoscopic sinus surgery (FESS) may be considered. Surgery must be followed with maintenance therapy with intranasal corticosteroids and other appropriate therapies to prevent recurrence of polyps. No comparative studies or guidelines are available that recommend one treatment option over another for refractory cases.

    - Maintenance therapies are initiated once symptoms have been controlled to minimize inflammation and prevent the regrowth of nasal polyps after surgery. The mainstay of maintenance treatment is intranasal glucocorticoids. Leukotriene inhibitors may also be of benefit as adjunctive therapy, particularly if allergic rhinitis or aspirin-exacerbated respiratory disease are suspected contributing factors.

- IgE-Mediated Food Allergy

    - The 2010 National Institute of Allergy and Infectious Disease Guidelines for the Diagnosis and Management of Food Allergies in the United States recommend suspecting a food allergy in patients presenting with anaphylaxis upon ingestion of food within minutes to hours of ingesting food; in infants, young children, and selected older children diagnosed with certain disorders, such as moderate to severe atopic dermatitis, eosinophilic esophagitis, enterocolitis, enteropathy, and food protein-induced allergic proctocolitis; and in adults diagnosed with eosinophilic esophagitis. Guidelines state the causative food must be identified through one of the following tests: skin prick tests, intradermal tests, total serum IgE, allergen-specific IgE, atrophy patch test, food elimination diets, or oral food challenges. In clinical trials for Xolair, the diagnosis of food allergy was confirmed through serum specific IgE levels or positive SPT for the following foods: peanuts, milk, eggs, wheat, cashews, hazelnuts, and walnuts. Patients must have had a 4 mm wheal or greater than saline control on SPT or a serum specific IgE greater than or equal to 6 kU_A/L in combination with clinical history of allergic reaction following consumption of peanuts and two other foods to be enrolled in the clinical trial.

    - Omalizumab does not provide a cure for food allergies but reduces the risk of potentially life-threatening accidental exposure to food allergens. Omalizumab was superior to placebo in increasing the reaction threshold for peanut, cashew, egg, and milk. Sixty-seven percent of the participants who received omalizumab were able to successfully consume at least 600 mg of peanut protein (cumulative dose, 1044 mg, equivalent to approximately 4 peanuts). This protection still requires ongoing dosing of omalizumab as well as continued avoidance of allergenic foods. Despite the reduced risk of life-threatening reactions, omalizumab does have several serious warnings related to its use, including anaphylaxis. Because of the risk of anaphylaxis, patients should still have a current prescription for epinephrine and access to an epinephrine autoinjector.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Omalizumab requires patients have total IgE levels of 30 but less than or equal to 1850 IU/mL to adequately dose them based on their body weight. Omalizumab should not be used for IgE-mediated food allergy in those with total IgE levels less than 30 IU/mL or greater than 1850 IU/mL.

  - Omalizumab has not been studied and there is no data to support use in combination with other medications used for desensitization of food allergy.

- Omalizumab prefilled syringes for self-administration by certain patients or their caregiver have been approved for all of the indications as the healthcare administered product. Omalizumab prefilled syringes were previously for clinician administration only. Omalizumab's lyophilized powder in single-dose vials can still only be administered by a healthcare provider. Patients should receive 3 doses of omalizumab under the guidance of a healthcare provider due to risk of anaphylaxis before transitioning to self-administration.

- Omalizumab has not been studied and there is no data to support use in combination with other biologic agents and targeted DMARD indicated for any of Omalizumab's approved indications.

References:

1. Xolair [package insert]. South San Francisco, CA: Genentech Omalizumab; February 2024.
2. Omlyclo [package insert]. Jersey City, NJ; Celltrion; March 2025.
3. Novartis. Novartis reports new Phase III data showing omalizumab significantly improves itch in patients with severe form of chronic skin disease CSU. Media Releases. July 2013. Available at: http://www.novartis.com/newsroom/media-releases/en/2013/1712004.shtml. Accessed October 15, 2013.
4. AAAA. Omalizumab: well tolerated and effective in refractory chronic idiopathic spontaneous urticaria. American Academy of Allergy Asthma and Immunology Release. July 2013. Available at: https://www.aaaai.org/global/latest-research-summaries/Current-JACI-Research/omalizumab.aspx. Accessed October 15, 2013.
5. Blumchen K, Ulbricht H, Staden U, et al. Oral peanut immunotherapy in children with peanut anaphylaxis. J Amer Clin Immunol. 2010; 126: 83 - 91.
6. U.S. Department of Health and Human Services – National Institutes of Health. National Asthma Education and Prevention Program Expert Panel Report 3: 2020 Focused Updates to the Asthma Management Guidelines. December 2020. Available at: https://www.nhlbi.nih.gov/health-topics/asthma-management-guidelines-2020-updates. Accessed May 19, 2021.
7. Greaves M. Chronic idiopathic urticaria. Curr Opin Allergy Clin Immunol. 2003; 3: 363 - 8.
8. Novartis. Novartis announces US FDA approval of Xolair for chronic idiopathic urticaria (CIU). Thomas Reuters One. March 21, 2014. Available at: http://www.novartis.com/newsroom/media-releases/en/2014/1770973.shtml. Accessed March 22, 2014.
9. The diagnosis and management of acute and chronic urticaria 2014 update. (n.d.). https://www.aaaai.org/Aaaai/media/MediaLibrary/PDF%20Documents/Practice%20and%20Parameters/Urticaria-2014.pdf. Accessed September 1, 2017.
10. Zuberier T, Aberer W, Asero R, et al. The EAACI/GALEN/EDF/WAO guideline for the definition, classification, diagnosis, and management of urticaria. Allergy. 2018; 73: 1393 – 414.
11. Zuberier T and Bernstein JA. A comparison of the united states and international perspective on chronic urticaria guidelines. J Allergy Clin Immunol Pract. July/August 2018; 6 (4): 1144 – 1511.
12. Dupixent [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals; June 2021.
13. Gevaert P, et al. Efficacy and safety of omalizumab in nasal polyposis: 2 randomized phase 3 trials. J Allergy Clin Immunol. 2020 Sept; 146 (3): 595-605.
14. Hamilos DL and Holbrook EH. Chronic rhinosinusitis: management. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
15. Bhattacharyya N. Nasal obstruction: diagnosis and management. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

16. IPD Analytics Rx Brief. Xolair for chronic rhinosinusitis with nasal polyps. Published December 2020.
17. Global Initiative for Asthma. (2026). GINA 2026 strategy report: Global strategy for asthma management and prevention. https://ginasthma.org/wp-content/uploads/2026/05/GINA-2026-Strategy-Report-WMS.pdf
18. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2024. Available from: www.ginasthma.org.
19. Clinicaltrials.gov. Omalizumab as monotherapy and as adjunct therapy to multi-allergen oral immunotherapy (OIT) in food allergic children and adults (NCT03881696). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03881696. Accessed on February 23, 2024.
20. Gupta RS, Springston EE, Warrier MR, et al. The prevalence, severity, and distribution of childhood food allergy in the United States. Pediatrics. 2011; 128 (1): e9 - 17.
21. Gupta RS, Warren CM, Smith BM, et al. The public health impact of parent-reported childhood food allergies in the united states. Pediatrics. 2018; 142 (6): e20181235.
22. Bock SA, Munoz-Furlong A, Sampson HA. Further fatalities caused by anaphylactic reactions to food, 2001-2006. J Allergy Clin Immunol. 2007; 119 (4): 1016 - 18.
23. Gupta R, Holdford D, Bilaver L, et al. The economic impact of childhood food allergy in the United States. JAMA Pediatr. 2013; 167 (11): 1026 - 31.
24. Panel NI-SE, Boyce JA, Assa'ad A, et al. Guidelines for the diagnosis and management of food allergy in the United States: report of the NIAID-sponsored expert panel. J Allergy Clin Immunol. 2010; 126 (6 Suppl): S1 - 58.
25. Sampson HA, Aceves S, Bock SA, et al. Food allergy: a practice parameter update-2014. J Allergy Clin Immunol. 2014; 134 (5): 1016 - 25.
26. Zuberbier T, Abdul Latiff AH, Abuzakouk M, et al. The international EAACI/GA²LEN/EuroGuiDerm/APAAACI guideline for the definition, classification, diagnosis, and management of urticaria. Allergy. 2022; 77: 734–766. doi:10.1111/all.15090

Policy History		
#	Date	Change Description
4.1	Effective Date: 08/13/2026	Annual review of policy; no changes were made to the criteria.
4.0	Effective Date: 10/01/2025	UM medical management system update for MAPPO and BCNA for Omlyclo and Omalizumab-igec
3.9	Effective Date: 08/07/2025	Informational Update: Removed “prefilled syringe” from self-administration criteria bullet as there is an autoinjector as well.
3.8	Effective Date: 06/05/2025	Updated chronic idiopathic urticaria diagnosis requirement to chronic spontaneous urticaria to align with approved indication
3.7	Effective Date: 04/10/2025	Updated to add Omlyclo and add the statement that coverage will be provided for biosimilar products for FDA labeled indications of the innovator product when criteria are met. The name of the policy was changes from the Xolair Policy to the Omalizumab Products Policy.
3.6	Effective Date: 03/27/2025	UM medical management system update for BCBS and BCN for Omlyclo and Omalizumab-igec
3.5	Effective Date: 10/03/2024	Changed the combination use criteria from “Cannot be used in combination with other biologic agents indicated for any of the conditions listed in the policy and other targeted DMARDs” to “ Not to be used in combination with other biologics or targeted DMARDs for the same indication” to align with the criteria language in other biologic policies.
3.4	Effective Date:	Updated to add the new indication of IgE-mediated food allergy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	04/11/2024	
3.3	Effective Date: 10/12/2023	Annual review of policy; no changes were made to the criteria.
3.2	Effective Date: 10/06/2022	Updated criteria to require those who are clinically able to do so, to self-administer Xolair prefilled syringe after the three doses under the supervision of a healthcare provider
3.1	Effective Date: 10/07/2021	For asthma indication: Updated LABA and LAMA requirement to LABA or LAMA
3.0	Effective Date: 08/12/2021	Criteria updated – Self-administration after three doses provided under the guidance a healthcare provider to apply to all indications.
2.9	Effective Date: 06/10/2021	Policy update to include criteria for asthma and self administration of Xolair. The criteria for asthma was previously part of the Biologics for Asthma Policy which will be retired
2.8	Effective Date: 02/04/2021	Policy update to include nasal polyp indication and related criteria
2.7	Effective Date: 10/08/2020	Annual Review
2.6	Effective Date: 08/13/2020	Criteria updated for Fasenra
2.5	Effective Date: 04/16/2020	Critieria update for step therapy to reference dosing chart for inhaled corticosteroids.
2.4	Effective Date: 12/05/2019	Updated policy criteria to include Fasenra self-administered product
2.3	Effectivve Date: 11/07/2019	Criteria update to authorization period and FDA approved age
2.2	Effective Date: 08/15/2019	Updated criteria to account for new self-injectable Nucala formulation
2.1	Effective Date: 05/09/2019	Updated CIU criteria based on new guideline recommendations
2.0	Effective Date: 02/14/2019	Updated criteria for allergic asthma
1.9	Effective Date: 11/01/2018	Criteria update (included prescriber specialty to CIU) updated pricing, and added Fasenra to cost comparison

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.8</td><td>Effective Date: 02/12/2018</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.7</td><td>Effective Date: 11/09/2017</td><td>CIU Criteria Update</td></tr>
<tr><td>1.6</td><td>Effective Date: 02/09/2017</td><td>Criteria Update</td></tr>
<tr><td>1.5</td><td>Effective Date: 07/01/2016</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 02/11/2016</td><td>Criteria Update</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/14/2014</td><td>Criteria Update</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/01/2014</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/13/2014</td><td>Criteria Update</td></tr>
<tr><td>1.0</td><td>Effective Date: 07/05/2005</td><td>New Policy
- Custom/clinical formulary: N/A</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		- Part D: Part D Specialty - Part D Formulary Chapter: Miscellaneous Pulmonary Agents - Recommended criteria and QL

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

Table 1: Comparative cumulative daily dosing of inhaled corticosteroids (mcg/day)

Inhaled Corticosteroid	Ages 12 and up			Ages 6-11		
	Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
Beclometasone dipropionate HFA	100 – 200	>200 – 400	>400	50 – 100	>100 – 200	>200
Budesonide DPI	200 – 400	>400 – 800	>800	100 – 200	>200 – 400	>400
Budesonide nebules	NA	NA	NA	250 – 500	>500 – 1,000	>1,000
Ciclesonide HFA	80 – 160	>160 – 320	>320	80	>80 – 160	>160
Fluticasone furoate DPI	100	NA	200	NA	NA	NA
Fluticasone propionate DPI	100 – 250	>250 – 500	>500	100 – 200	>200 – 400	>400
Fluticasone propionate HFA	100 – 250	>250 – 500	>500	100 – 200	>200 – 500	>500
Mometasone furoate	110 – 220	>220 – 440	>440	110	≥220 - <440	≥440
Triamcinolone acetonide	400 – 1,000	>1,000 – 2,000	>2,000	400 – 800	>800 – 1,200	>1,200

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Omisirge® (omidubicel-onlv)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Blood cancers are a form of cancer caused by uncontrolled growth of cells in the blood disrupting the ability of blood cells to perform their normal functions. This abnormal cell growth often begins in the bone marrow, which is made up of stem cells that form into different types of blood cells with specific functions in the body. Blood cancers represent about 10% of all cases of cancer each year in the U.S. They can be fatal, with varying survival rates based on multiple factors including the specific type of cancer diagnosed.

- Aplastic anemia is a rare and heterogeneous disorder. It is defined as pancytopenia with a hypocellular bone marrow in the absence of an abnormal infiltrate or marrow fibrosis. To diagnose aplastic anemia, there must be at least two of the following: hemoglobin concentration (Hb) less than 100 g/L; platelet count less than 50 x 10^9/L; and neutrophil count less than 1.5 x 10^9/L. Reticulocyte count is useful in delineating the severity of disease. The majority of cases are idiopathic. The remainder mainly consist of inherited bone marrow failure syndromes.

- HSCT is potentially curative for patients with certain types of hematological malignancies, such as, acute lymphoblastic leukemia, acute myeloid leukemia, and myelodysplastic syndrome, and aplastic anemia. Based on the origin of hematologic cells, HSCTs are classified as autologous when the patient's own cells are used or allogeneic when the cells are from an HLA-compatible related or unrelated donor.

- The cells used in allogenic transplants can come from three sources: peripheral blood, bone marrow, and UCB. Currently, peripheral blood is the most common source for HSCT. Peripheral blood stem cells are acquired through apheresis from a donor's peripheral vein. Bone marrow stem cells come from the liquid center of the bone and are removed via surgical procedure on a donor's hip bone. Cord blood stem cells are collected from the umbilical cord and placenta after a baby is born. Unlike peripheral blood and bone marrow sources which require a living HLA-matched donor, UCB is donated to a cord blood bank upon birth, frozen, and stored for future use.

- For certain patients, there may be advantages to using cord blood stem cells instead of peripheral blood or bone marrow stem cells. Some potential advantages are increased availability compared to finding an HLA-matched donor; the ability to use a less closely matched HLA-donor compared to those using a peripheral or bone marrow donor; a decreased risk of developing graft-versus-host disease (GVHD); the ease of finding a donor for minority populations who traditionally are less likely to find a living HLA-matched donor; and less risk of transmission of blood-borne illnesses. Some of the disadvantages to using cord blood include a longer time to engraftment compared to bone marrow or peripheral blood due to the number of stem cells per unit of UCB being much smaller; umbilical cord blood transplant (UCBT)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

is a relatively new procedure in comparison to transplantation of peripheral blood or marrow stem cells; and the lack of knowledge as to how long UCB can be stored until it loses its effectiveness.

- The National Comprehensive Cancer Network (NCCN) Hematopoietic Cell Transplantation (HCT) guidelines include peripheral blood, bone marrow, or UCB as options for allogenic HSCT. Recommendations for choice of hematopoietic source are based on patient-specific factors, such as, disease type, disease stage, urgency of transplant, and patient comorbidities.

- Omisirge is a nicotinamide modified allogeneic hematopoietic progenitor cell therapy derived from cord blood indicated for use in adults and pediatric patients 12 years and older with hematologic malignancies who are planned for umbilical cord blood transplantation following myeloablative conditioning to reduce the time to neutrophil recovery and the incidence of infection and in adult and pediatric patients 6 years and older with severe aplastic anemia following reduced intensity conditioning.

- Safety and efficacy of Omisirge in hematologic malignancies were evaluated in study P0501, a phase III, open-label, multicenter, randomized trial of 125 subjects with high-risk hematologic malignancies, who were candidates for myeloablative allogenic-hematopoietic stem cell transplant (HSCT), and had no readily available matched sibling or matched unrelated adult donor. Patients who had a prior allogenic HSCT, marked or 3+ bone marrow fibrosis, or chronic lymphocytic leukemia (CLL) were excluded from the trial. Subjects were randomly assigned 1:1 to Omisirge vs standard UCBT and received myeloablative conditioning and prophylaxis with a calcineurin inhibitor and mycophenolate mofetil for GVHD. Granulocyte-colony stimulating factor (G-CSF) was given once per day starting on day +1 after transplantation until the absolute neutrophil count (ANC) exceeded 1000 cells/µL. Patients in the Omisirge arm had to have UCB HLA-matched at 4 or more loci with a total nucleated cell (TNC) count ≥ 1.8 × 109, a TNC dose of ≥ 1.5 × 107 cells/kg, and CD34+ cell count of ≥ 8 × 106. The primary endpoint was time to neutrophil engraftment. Secondary endpoints were platelet engraftment by 42 days, incidence of grade 2 to 3 bacterial or invasive fungal infection during the first 100 days, and days alive and out of the hospital for the first 100 days after transplantation. Median time to neutrophil engraftment was 12 days (95% CI: 10, 14) for the Omisirge arm and 22 days (95% CI: 19, 25) for the control arm (p-value < 0.001). The cumulative incidence of neutrophil engraftment was 96% for patients receiving Omisirge and 89% for patients receiving control transplants. The Omisirge arm had faster platelet recovery (55% vs 35% recovery by 42 days; p-value = 0.028), had a lower incidence of first grade 2 to 3 bacterial or invasive fungal infection (37% vs 57%; p-value = 0.027), and spent more time out of hospital during the first 100 days after transplant (median, 61 vs 48 days; p-value = 0.005) than controls. Differences in GVHD and survival between the 2 arms were not statistically significant.

- Safety and efficacy of Omisirge in aplastic anemia were evaluated in study 17- H-0091, a phase II, open-label, single center trial of 14 patients with severe aplastic anemia or aplastic anemia that transformed to myelodysplastic syndrome (MDS) and also had at least one cord blood unit with greater than or equal to 4/8 HLA-matched loci. Severe aplastic anemia was defined as bone marrow cellularity less than 30% associated with red blood cell (RBC) or platelet transfusion dependence or an absolute neutrophil count (ANC) ≤ 1,000 cells/µL Myelodysplastic syndrome had to be classified as IPSS risk category of intermediate-1 or greater and have less than 5% myeloblasts with less than 30% of cellularity in the bone marrow on screening morphologic analysis. Subjects had to have failed or be intolerant to immunosuppressive therapy. The primary endpoint was the incidence of early and sustained neutrophil recovery, defined as ANC greater than or equal to 500 cells/µl for 3 consecutive measurements on different days by day 26, maintained at day 42 and day 100 posttransplant. Other secondary endpoints included neutrophil recovery, RBC transfusion independence, platelet recovery to greater than or equal to 20,000/µL, and platelet transfusion independence. Eighty-six percent (95% CI:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

57%, 98%) of patients experienced early and sustained neutrophil recovery at day 100 with median time to neutrophil recovery 11 days. Eighty-six percent of patients also experienced RBC transfusion independence and platelet recovery.

- BCBSM/BCN's Human Organ Transplant Program (HOTP) is responsible for approval of all HSCTs prior to the start of treatment. Approval of the patient's HSCT must be on file prior to determination of Omisirge's use in any patient.

- There are no studies to support use of Omisirge following failure or after treatment with another modified allogeneic hematopoietic progenitor cell therapy derived from cord blood for the treatment of hematologic malignancies.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Omisirge [prescribing information]. Boston, MA: Gamida Cell Inc.; December 2025.
2. Horwitz ME, Stiff PJ, Cutler C, et al. Omidubicel vs standard myeloablative umbilical cord blood transplantation: results of a phase 3 randomized study. Blood. 2021 Oct 21; 138 (16): 1429 - 40.
3. National Comprehensive Cancer Network. Hematopoietic Cell Transplantation (HCT) (Version 3.2025). 2025 Sept 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hct.pdf. Accessed on December 9, 2025.
4. Leukemia and Lymphoma Society. Cord blood stem cell transplantation facts. 2016 May. Available at: https://www.lls.org/sites/default/files/2021-05/FS2_Cord_Blood_Transplantation_6_16FINAL.pdf. Accessed on April 26, 2023.
5. National Comprehensive Cancer Network. Myelodysplastic syndromes (Version 1.2026). 2025 Oct 9. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mds.pdf. Accessed on December 9, 2025.
6. Clinicaltrials.gov. Unrelated umbilical cord blood transplantation for severe aplastic anemia and hypo-plastic MDS using cordIn, umbilical cord blood-derived ex vivo expanded stem and progenitor cells to expedite engraftment and improve transplant outcome (NCT03173937). Available at: https://clinicaltrials.gov/study/NCT03173937#participation-criteria. Accessed on December 9, 2025.
7. Rovó A, Tichelli A, & Dufour C. Diagnosis of acquired aplastic anemia. Bone Marrow Transplant. 2013 Feb; 48 (2): 162 - 7.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 06/01/2026

P&T Date: 04/16/2026</td><td>Updated to add requirement drug to be used in consultation with an oncologist, remove the stem cell transplant approval requirement, add that the drug be given at a certified treatment center, add the provider portal statement, and add the requirement new indications will be approved on a case by case basis until reviewed by our P&T committee</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/12/2026</td><td>Updated to include the new indication for use in aplastic anemia</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/01/2024</td><td>UM medical management system update for MAPPO and BCNA

<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
06/08/2023</td>
<td>New policy. UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Omvoh™ IV (mirikizumab-mrkz)
HCPCS: J2267

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Omvoh is an interleukin (IL)-23 antagonist that selectively binds the p19 subunit of IL-23 and is indicated for the treatment of moderately to severely active UC and moderately to severely active CD in adults.

- Omvoh is available as an intravenous infusion for induction dosing and available as a subcutaneous injection (prefilled syringe and pen). Patients or caregivers may self-inject Omvoh after training in subcutaneous injection technique. Clinical reasons a patient may be unable to self-administer Omvoh include:

    - Patient or caregivers are unable to perform SC injections with proper technique.

    - Member requires monthly medical support from the physician

- UC and CD are two of the most common forms of inflammatory bowel disease (IBD). Both UC and CD are chronic, relapsing, remitting, inflammatory conditions of the gastrointestinal (GI) tract. UC only involves the large intestine as opposed to CD, which can affect any part of the GI tract from mouth to anus. CD can also affect the entire thickness of the bowel wall, while UC only involves the innermost lining of the large intestine. UC can present with symptoms of abdominal discomfort or loose bowel movements, including blood. The cause of UC or CD is not fully understood; however, research suggests that an interplay between environmental factors, genetics, and intestinal microbiota may contribute to the development of UC or CD. UC has an incidence of 9 to 20 cases per 100,000 persons per year. Its prevalence is 156 to 291 cases per 100,000 persons per year.

- Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

- The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

- Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

- A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

- Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

- The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

- The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

- The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

- The efficacy of Omvoh for UC was based on results from the LUCENT program, which included two randomized, double-blind, placebo-controlled Phase III clinical trials consisting of one 12-week induction study (UC-1) and one 40-week maintenance study (UC-2) for 52 weeks of continuous treatment. All patients in the LUCENT program were required to have had an inadequate response to, loss of response to, or inability to take one or more glucocorticoids or immunomodulators for the treatment of UC

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(i.e., conventional treatment failure), or biologic therapy or a Janus kinase (JAK) inhibitor for the treatment of UC (i.e., treatment failure with biologic agent or tofacitinib). Patients were allowed to receive oral 5-ASA, oral glucocorticoids, azathioprine, 6-mercaptopurine, or methotrexate at stable doses throughout the trial.

- The primary endpoint of UC-1 and UC-2 was clinical remission at Week 12 and Week 52, respectively. The secondary endpoints of UC-1 were clinical response, endoscopic improvement, and histologic-endoscopic mucosal improvement (HEMI) at 12 weeks. The secondary endpoints of UC-2 were endoscopic improvement, maintenance of clinical remission in subjects who achieved clinical remission at 12 weeks, corticosteroid-free clinical remission, and HEMI at 40 weeks (a total of 52 weeks of treatment).
    - Of patients treated with Omvoh at 12 weeks in UC-1:
        - 24% achieved clinical remission compared to 15% with placebo ($p<0.001$).
        - 65% achieved a clinical response compared to 43% with placebo ($p<0.001$).
        - 34% achieved endoscopic improvement compared to 21% with placebo ($p<0.001$).
        - 25% achieved histologic-endoscopic mucosal improvement compared to 14% with placebo ($p<0.001$).
    - Of patients treated with Omvoh at 40 weeks (a total of 52 weeks of treatment) in UC-2:
        - 51% achieved clinical remission compared to 27% with placebo ($p<0.001$).
        - 50% achieved corticosteroid-free clinical remission compared to 27% with placebo ($p<0.001$). Patients in steroid-free remission stopped using corticosteroids for at least the previous 12 weeks prior to the one-year assessment.
        - 58% achieved endoscopic improvement compared to 30% with placebo ($p<0.001$).
        - 66% achieved maintenance of clinical remission in patients who achieved clinical remission at Week 12 compared to 40% with placebo ($p<0.001$).
        - 43% achieved histologic-endoscopic mucosal improvement compared to 22% with placebo ($p<0.001$).

- Clinical trials have not evaluated the safety and efficacy of Omvoh when used in combination with other biologics or targeted DMARDs.

References:

1. Omvoh [prescribing information] Indianapolis, IN: Eli Lilly. January 2025.
2. Lynch WD, Hsu R. Ulcerative Colitis. [Updated 2023 Jun 5]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: https://www.ncbi.nlm.nih.gov/books/NBK459282/

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
4. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
5. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
6. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448

Policy History		
#	Date	Change Description
1.6	Effective Date: 07/01/2026 P&T Date: 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.
1.5	Effective Date: 11/24/2025 P&T Date: 10/09/2025	Added criteria requiring member to self-administer unless clinically unable to do so
1.4	Effective Date: 04/10/2025	Updated to include new indication: Crohn's disease
1.3	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
1.2	Effective Date: 03/01/2024	UM medical management system removal for MAPPO and BCNA for Omvoh SQ
1.1	Effective Date: 02/12/2024	UM medical management system update for MAPPO and BCNA for Omvoh IV and SQ
1.0	Effective Date: 12/14/2023	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Onasemnogene abeparvovec Products

Itvisma® (onasemnogene abeparvovec-brve) **- HCPCS: J3405**

Zolgensma® (onasemnogene abeparvovec) **- HCPCS: J3399**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Zolgensma is an AAV9 that works by replacing the missing or defective SMN1 gene with a functional copy that makes SMN protein and is indicated for the treatment of pediatric patients less than 2 years of age with SMA with bi-allelic mutations in the SMN1 gene.

- Itvisma is an AAV vector-based gene therapy indicated for the treatment of SMA in adult and pediatric patients 2 years of age and older with confirmed mutation in SMN1 gene.

- SMA is a severe, inherited progressive neuromuscular disease that causes devastating muscle atrophy and disease-related complications in approximately 4 to 10 per 100,000 live births. SMA is caused by a mutation in the SMN1 gene that results in a deficiency of SMN protein. People have a "backup" copy of this gene called SMN2 that produces low levels of SMN protein. SMA varies in severity with four different types that inversely correlates to the number of SMN2 copies a person has. The type of SMA a person has is based on function and age of onset. Type 1 is the most severe type of SMA and the most common, affecting 6 out of every 10 children with SMA. Those with Type 1 have the fewest number of SMN2 copies (usually 2 or fewer). Type 1 patients have an age of onset usually between 0-6 months, and as the natural history of those with Type 1 SMA progresses the children will never be able to sit unsupported. Untreated life expectancy of Type 1 patients is less than 2 years old. Type 2 patients usually present around 7-18 months of age and will have the ability to sit, but never stand. The majority of SMA Type 2 patients have 3 copies of SMN2. Type 3 SMA patients present after 18 months of age and usually are able to stand and walk. About 51% of the patients with SMA Type 3 have 3 copies of SMN2 while 46% have 4 copies of SMN2. Although there is an inverse correlation between severity of disease and number of SMN2 copies, diagnoses of type is not solely based on number of SMN2 copies.

- The diagnosis of SMA is based on molecular genetic testing. Genetic testing of SMN1/SMN2 is highly reliable and it is first line investigation when the condition is suspected in a typical case. In approximately 96% of patients, SMA is caused by homozygous absence of exons 7 and 8 of the SMN1 gene, or, in some cases, only of exon 7.

- SMA patients' motor function and ability are monitored in a variety of ways, including but not limited to Bayley Scales of Infant and Toddler development (BSID), Motor Function Measure 32 (MFM-32), Hammersmith Infant Neurological Exam (HINE), Hammersmith Functional Motor Scale Expanded (HFMSE), Revised Upper Limb Module

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(RULM) Test (non-ambulatory patients), Six-Minute Walk Test (6MWT) (ambulatory patients only) and Children's Hospital of Philadelphia Infant Test of Neuromuscular Disorders (CHOP INTEND).

- There is currently no data supporting co-administration of onasemnogene abeparvovec with other SMA therapies, or in patients with advanced SMA (e.g., complete paralysis of limbs, permanent ventilator dependence).

- CureSMA developed a treatment algorithm published in 2018. In September 2019, the working group reconvened to update its stance on infants with 4 copies of SMN2 on newborn screening. The working group has updated their stance and recommends immediate treatment for infants diagnosed with SMA via newborn screening with 4 copies of SMN2. Zolgensma's pivotal STR1VE trial included patients with SMA Type 1 who had 2 copies of SMN2. Zolgensma's SPR1NT trial, an ongoing Phase III, open-label, single-arm, multi-center trial in presymptomatic patients is being studied in patients with either 2 or 3 copies of SMN2, and included one patient with four copies of SMN2. The RESTORE registry is an ongoing, prospective, multicenter, multinational, non-interventional observation study that is evaluating long-term outcomes in patients with SMA. This study included 4 patients with 4 copies of SMN2 and 5 patients with 4+ copies of SMN2 who received Zolgensma. The CHOP INTEND scores showed improvement from baseline in this subset of patients.

- The approval of Itvisma was based on efficacy results from the Phase III, randomized, double-blind STEER study, which included 136 patients aged 2 to 17 years old with SMA who were treatment-naïve and able to sit but never able to walk independently. Patients with elevated (reference to > 1:50) baseline serum anti-AAV9 antibody titer were excluded.

    a. The primary endpoint was the change from baseline in Hammersmith Functional Motor Scale –Expanded (HFMSE) total score, which evaluates motor function in patients with SMA who have limited ambulation, comprising of 33 graded items that assess various motor skills ranging from sitting to using the stairs, at the end of follow-up, defined as the average of the Week 48 and Week 52 assessment, in Itvisma compared to sham.

        i. Patients in the Itvisma group saw a mean change of 2.39 points in the HFMSE total score compared to 0.51 points in the sham group, a treatment difference of 1.88 points (p-value = 0.0074).

    a. The Phase IIIb STRENGTH trial enrolled 27 patients 2 to 17 years of age who have discontinued treatment with Spinraza® and/or Evrysdi® (mean duration of prior treatment 4.32 years and 2.98 years, respectively). The findings in this trial demonstrated stabilization of SMA based on the HFMSE score for the overall study population over 52 weeks.

- In the clinical trials patients were required to have baseline anti-AAV9 antibody titers of ≤ 1:50, measured using an enzyme-linked immunosorbent assay (ELISA). Evidence of prior exposure to AAV9 was uncommon. The safety and efficacy of onasemnogene abeparvovec in patients with anti-AAV9 antibody titers above 1:50 have not been evaluated. Antibodies titers above 1:50 may inhibit the efficacy of gene therapy.

- Bridging therapy with either Evrysdi or Spinraza prior to the use of onasemnogene abeparvovec can be appropriate in young patients with elevated anti-AAV9 antibodies. Elevated titers are not common (~13%) in SMA patients. Those that do have titers can get it from the placenta at birth from mothers who have acquired them. Just like other maternal antibodies passed on to children, these antibodies diminish over time. Bridging therapy allows patients to start therapy without delay, and waits for the titers

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

to naturally diminish. Scientists have stressed the importance of treating SMA as early as possible, and suggested that patients with elevated antibodies be given disease-modifying therapies that work through different mechanisms — Spinraza (nusinersen) or Evrysdi (risdiplam) — as "bridge treatments" until able to receive onasemnogene abeparvovec.

- Onasemnogene abeparvovec can increase liver enzyme levels and cause acute serious liver injury. Oral corticosteroid medication should be given one day before and for 30 days after infusion with onasemnogene abeparvovec to avoid liver injury.

- Provider portals are used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Zolgensma [prescribing information]. Bannockburn, IL: Novartis Gene Therapies. Inc..; February 2025
2. Itvisma [preseribing information]. Bannockburn, IL: Novartis Gene Therapies. Inc..; November 2025
3. SMA Overview. SMA Foundation. http://www.smafoundation.org/wp-content/uploads/2012/03/SMA-Overview.pdf Accessed September 4, 2020
4. Mercuri E, Bertini E, Iannaccone ST. Childhood spinal muscular atrophy: controversies and challenges. Lancet Neurol. 2012; 11(5): 443-52.
5. Lally C, Jones C, Farwell W, et al. Indirect estimation of the prevalence of spinal muscular atrophy Type I, II, and III in the United States. Orphanet J Rare Dis. 2017; 12(1): 175.
6. Verhaart IEC, Robertson A, Wilson IJ, et al. Prevalence, incidence and carrier frequency of 5q-linked spinal muscular atrophy - a literature review. Orphanet J Rare Dis. 2017; 12(1): 124.
7. Department of Health and Human Services. Recommended uniform screening panel. July 2018. Available at: https://www.hrsa.gov/advisory-committees/heritable-disorders/rusp/index.html. Accessed on January 4, 2019.
8. Mendell JR, Al-Zaidy S, Shell R, et al. Single-Dose Gene-Replacement Therapy for Spinal Muscular Atrophy. N Engl J Med. 2017; 377(18): 1713-22.
9. Michelson D, Ciafaloni E, Ashwal S, et al. Evidence in focus: Nusinersen use in spinal muscular atrophy. Report of the Guideline Development, Dissemination, and Implementation Subcommittee of the American Academy of Neurology. 2018.
10. Novartis. Novartis announces FDA filing acceptance and priority review of AVXS-101, a one-time treatment designed to address the genetic root cause of SMA Type 1 [press release]. Available at: https://www.novartis.com/news/media-releases/novartis-announces-fda-filing-acceptance-and-priority-review-avxs-101-one-time-treatment-designed-address-genetic-root-cause-sma-type-1. Accessed on January 4, 2019.
11. Wang CH, Finkel RS, Bertini ES, et al. Consensus statement for standard of care in spinal muscular atrophy. J Child Neurol. 2007 Aug; 22(8): 1027-49.
12. Mercuri E, Finkel RS, Muntoni F, et al. Diagnosis and management of spinal muscular atrophy: Part 1: recommendations for diagnosis, rehabilitation, orthopedic and nutritional care. Neuromuscular Disorders. 2018; 28: 103 – 15.
13. Finkle RS, Mercuri E, Meyers OH, et al. Diagnosis and management of spinal muscular atrophy: Part 2: pulmonary and acute care; medications, supplements and immunizations; other organ systems; and ethics. Neuromuscular Disorders. March 2018; 28(3): 197 – 207.
14. Glascock J, Sapmson J, Connolly AM. Et. al. Revised recommendations for the treatment of infants diagnosed with spinal muscular atrophy via newborn screening who have 4 copies of SMN2. DOI: 10.3233/JND-190468. Journal: Journal of Neuromuscular Diseases, vol. 7, no. 2, pp. 97-100, 2020 Published: 20 March 2020

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

15. Pre-symptomatic study of intravenous onasemnogene abeparvovec-xioi in spinal muscular atrophy (SMA) for patients with multiple copies of SMN2 (SPR1NT). ClinicalTrials.gov. U.S. National Library of Medicine. ClinicalTrials.gov Identifier: NCT03505099
16. Ferrante, L., Melendez-Zaidi, A., Lindsey, W. and Lotze, T. (2022), Novel use of nusinersen as a therapeutic bridge to onasemnogene abeparvovec-xioi in a premature neonate with type 1 spinal muscular atrophy. Muscle & Nerve, 66: E8-E10. https://doi.org/10.1002/mus.27648
17. Meglio M. NeurologyLive. Despite limited literature, combination therapy occurring in spinal muscular atrophy. Despite Limited Literature, Combination Therapy Occurring in Spinal Muscular Atrophy (neurologylive.com) accessed June 2024

Policy History		
#	Date	Change Description
2.5	Effective Date: 02/12/2026	Updated title from Zolgensma (onasemnogene abeparvovec-xioi) to Onasemnogene abeparvovec Products. Added Itvisma to policy Added criteria that the member has not received prior treatment with any gene therapy or are being considered for treatment with any other gene therapy for SMA
2.4	Effective Date: 01/15/2026	UM medical management system update for MAPPO and BCNA for Itvisma
2.3	Effective Date: 12/08/2025	UM medical management system update for BCBS and BCN for Itvisma
2.2	Effective Date: 08/07/2025	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 08/08/2024	Updated criteria to specify that Zolgensma will not be used concurrently with Evrysdi/Spinraza due to a bridging scenario
2.0	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.9	Effective Date: 06/08/2023	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 06/09/2022	Updated criteria to allow for Zolgensma use in those with 4 or fewer copies of SMN2 to align with CureSMA guidelines
1.7	Effective Date: 04/14/2022	Update to include Audaire Health™ requirements
1.6	Effective Date: 04/08/2021	This policy replaces previously approved criteria that was embedded in a drug review which will be retired.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.5	Effective Date: 08/13/2020	Annual review of criteria was performed, no changes were made.
1.4	Effective Date: 02/03/2020	UM medical management system update for MAPPO and BCNA for Zolgensma
1.3	Effective Date: 08/15/2019	New full drug review
1.2	Effective Date: 08/01/2019	UM medical management system update for BCBSM for Zolgensma
1.1	Effective Date: 06/01/2019	UM medical management system update for BCN for Zolgensma
1.0	Effective Date: 02/14/2019	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Onivyde® (liposomal irinotecan)
HCPCS: J9205

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Onivyde is a topoisomerase inhibitor indicated in combination with fluorouracil and leucovorin, for the treatment of patients with metastatic adenocarcinoma of the pancreas after disease progression following gemcitabine-based therapy and in combination with oxaliplatin, fluorouracil and leucovorin, for the first-line treatment of adult patients with metastatic pancreatic adenocarcinoma.

- Safety and efficacy in previously treated disease were established in the NAPOLI-1 trial, a three-arm, randomized, open label study in 417 patients with metastatic pancreatic adenocarcinoma with documented disease progression after gemcitabine or gemcitabine-based therapy. Patients were included in the study if they had a ECOG performance status less than or equal to 2 and were excluded if they had prior treatment with irinotecan. Patients were randomized to Onivyde plus florouracil and leucovorin, florouracil and leucovorin, or Onivyde alone. The primary efficacy endpoint was overall survival (OS) versus florouracil and leucovorin. The OS of Onivyde combination therapy vs. florouracil and leucovorin therapy was 1.9 months and the progression-free survival (PFS) was 1.6 months. There was no improvement in overall survival for the Onivyde arm over the florouracil and leucovorin arm (hazard ratio = 1.00, p-value = 0.97).

- Safety and efficacy for use as first-line therapy were established in the NAPOLI-3 trial, a randomized, multicenter, open-label, active-controlled trial of 770 patients with metastatic pancreatic adenocarcinoma who had not previously received chemotherapy in the metastatic setting. Patients were randomized to receive either NALIRIFOX or gemcitabine plus Abraxane® and excluded if they had a ECOG performance status greater than 2. The primary endpoint was OS which was 11.1 months in the NALIRIFOX arm versus 9.2 months in the gemcitabine plus Abraxane arm (HR = 0.84; 95% CI: 0.71, 0.99; p-value = 0.0403). Treatment with NALIRIFOX improved median progression-free survival (7.4 vs 5.6 months, respectively; HR = 0.70; 95% CI: 0.59, 0.85; p-value = 0.0001) and led to a favorable overall response rate as well (41.8% vs 36.2%).

- The 2026 National Comprehensive Cancer Network pancreatic adenocarcinoma treatment guidelines recommend FOLFIRINOX or gemcitabine plus Abraxane as the preferred first-line treatment regimens. For second-line treatment of refractory metastatic pancreatic adenocarcinoma NCCN guidelines recommend a clinical trial, fluoropyrimidine-based regimens if previously treated with gemcitabine-based therapy, or gemcitabine-based regimens if previously treated with fluoropyrimidine-based therapy. Onivyde plus florouracil and leucovorin is recommended as subsequent treatment following second-line treatment failure.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Onivyde [prescribing information]. Basking Ridge, NJ: Ipsen Biopharmaceuticals, Inc.; December 2024.
2. National Comprehensive Cancer Network. Pancreatic adenocarcinoma (Version 1.2026). 2026 March 18. Available at: https://www.nccn.org/professionals/physician_gls/pdf/pancreatic.pdf. Accessed on April 14, 2026.
3. Gillam A, Li, VP, Bodoky G, et al. Nanoliposomal irinotecan with fluorouracil and folinic acid in metastatic pancreatic cancerafter previous gemcitabine-based therapy (NAPOLI-1): a global, randomized, open-label, phase 3 trial. Lancet. 2016 Feb 6; 387 (10018): 545 – 57.
4. Clinicaltrials.gov. An open-label, randomized, multicenter, phase III study of irinotecan liposome injection, oxaliplatin, 5-fluorouracil/leucovorin versus nab-paclitaxel plus gemcitabine in subjects who have not previously received chemotherapy for metastatic adenocarcinoma of the pancreas (NCT04083235). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04083235. Accessed on February 20, 2024.

Policy History		
#	Date	Change Description
2.5	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 07/21/2025 P&T Date: 06/05/2025	Updated to include the trial and failure of preferred products statement
2.3	Effective Date: 10/03/2024	Updated to remove the statement that this policy is for Medicare Part B only
2.2	Effective Date: 04/11/2024	Updated to include the new indication allowing for use as first-line therapy in pancreatic adenocarcinoma
2.1	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time. Policy will now only be active for the Medicare Part B line of business only
1.9	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 02/04/2021	Update the authorization period to 6 months

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.6</td><td>Effective Date: 02/06/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 02/14/2019</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.3</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/09/2018</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/10/2017</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.0</td><td>Effective Date: 05/05/2016</td><td>New Medical Policy
<table><tr><th>Line of Business</th><th>PA Required (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Onpattro® (patisiran)
HCPCS: J0222

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Transthyretin amyloidosis (ATTR) is a progressive, life-threatening disorder characterized by the deposition of amyloid fibrils composed of transthyretin (TTR), a plasma transport protein for thyroxine and vitamin A that is predominantly produced by the liver and to a lesser extent by the choroid plexus and in retinal cells.

- In ATTR, TTR misfolds, causing it to aggregate into amyloid fibrils that accumulate in organs, nerves, and tissues. The buildup of these amyloid deposits results in progressive dysfunction at the site of deposition. Amyloid deposition can occur in the heart, gastrointestinal tract, kidneys, thyroid, salivary glands, eyes, peripheral nervous system, and central nervous system. The phenotype is driven by deposition site and may be predominantly cardiac, neurologic, or mixed.

- There are two types of ATTR: hereditary (hATTR), or variant, which is due to inherited mutations of the TTR gene that cause misfolding of the tetramer subunits, and wild-type, which occurs in the presence of a normal TTR gene, is typically associated with aging, and is most often diagnosed in men 65 years and older. In wild-type ATTR, TTR typically only deposits in the heart and manifests as cardiac symptoms. hATTR, in contrast, may be predominantly neuropathic, cardiomyopathy, or a mixed phenotype characterized by both

- ATTR is the most common form of hereditary amyloidosis. Approximately 120 different mutations or gene deletions have been identified in the TTR gene, with Val30Met as the most prevalent in the world.

- hATTR with polyneuropathy (hATTR-PN) is the most common neurologic manifestation. Without treatment, patients will have progressive neuropathy and disability ultimately resulting in death within 10-15 years of disease onset.

- Patients with hATTR-PN may present with peripheral neuropathy (sensory and motor; tingling or increased pain in the hands, feet and/or arms, loss of feeling in the hands and/or feet, numbness or tingling in the wrists, carpal tunnel syndrome, loss of ability to sense temperature, difficulty with fine motor skills, weakness in the legs, difficulty walking), autonomic neuropathy (e.g., orthostasis, abnormal sweating, dysautonomia [constipation and/or diarrhea, nausea, vomiting, anorexia, early satiety]), GI impairment, cardiomyopathy, nephropathy, or ocular deposition. Most hATTR-PN cases, however, are classified as neuropathic.

- Amyloid deposition induces a length-dependent peripheral neuropathy beginning in the lower limbs with symptoms like toe discomfort due to numbness and spontaneous pain. Continued aggregation of amyloid on the nerve fibers contributes to sensory loss extending upwards toward the proximal lower limbs as motor deficits and impaired sensations occur. Walking becomes increasingly difficult as balance and gait are affected. Neuropathic pain transitions to a burning sensation worsening at night. Over time, sensory deficit extends to the upper limbs, forearms, fingers and trunk and motor deficit follows with the same length dependent progression. At this stage, potentially life-threatening autonomic dysfunction is present manifesting as orthostatic hypotension, anhidrosis, neurogenic bladder, disturbances of gastrointestinal motility, and sexual impotence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Cardiac disease may occur in approximately 50% of patients with hATTR-PN. Ocular involvement is also common, including vitreous opacity, dry eye, glaucoma, and pupillary disorder.

- A rarer presentation of hATTR is leptomeningeal and meningovascular amyloidosis, often with concomitant vitreous opacity (oculoleptomeningeal amyloidosis). A number of mutations have reportedly been linked to this type of hATTR, though it may also manifest in more advanced cases of Val30MET hATTR-PN.

    - Central nervous system symptoms include stroke, subarachnoid hemorrhage, dementia, ataxia, seizures, and sensorineural hearing loss.

    - The source of mutant TTR in (oculo)leptomeningeal and meningovascular amyloidosis is thought to be the choroid plexus and retinal cells versus the liver. As such, ocular and meningovascular manifestations are commonly seen after liver transplantation because the source of mutant TTR is left unaffected.

    - To date, no treatments have been proven to be beneficial for the treatment of (oculo)leptomeningeal and meningovascular amyloidosis.

- The 2013 guideline of transthyretin-related hereditary amyloidosis for clinicians recommends that the most reliable diagnostic approach involves genetic testing and tissue biopsy to confirm the presence of active amyloid formation. Genetic testing is needed to document the TTR gene mutations; if testing is normal, a diagnosis of hATTR is excluded.

- Options for treatment of hATTR are limited. Treatment strategies for hATTR include depletion of the source of mutant TTR, inhibiting TTR formation, stabilizing the TTR molecule from dissociating, and therapy directed at removing the amyloid deposits. Regardless of the choice of treatment, the 2013 guidelines and expert opinion from a panel of experts (2024) recommend initiation as soon as possible after diagnosis to slow or halt disease progression. The best outcomes have been shown in patients diagnosed at younger ages and/or without advanced disease.

- For hATTR-PN, our best treatment option historically had been orthoptic liver transplant, which removes the source of mutant TTR and was considered the gold standard for hATTR-PN treatment early in the course of disease. In hATTR-PN, the liver is the primary source of mutant TTR; transplantation eliminates approximately 95% of the production of mutant TTR and may slow or halt disease progression outside of the brain and/or eyes, though nerve function rarely improves post-transplant. Transplant does not effectively prevent cardiomyopathy, however, and is not recommended for patients with late stage hATTR-PN or leptomeningeal disease. With later stages of hATTR-PN and cardiomyopathy, there are concerns of disease progression due to deposition of wild-type TTR from the transplanted liver on the preexisting amyloid from the variant TTR.

- Numerous disease-modifying therapeutics are now available for hATTR-PN, including Amvuttra® (vutrisiran), Onpattro (patisiran), and Wainua® (eplontersen). Guidelines have not yet been updated to include Amvuttra, Onpattro, and Wainua specifically; however, they do note that early detection is critical and patients with early-stage disease should be treated with any approved drugs as they become available and as the patient's disease state meets drug indications, independent of liver transplant plans.

- Amvuttra, Onpattro, and Wainua are FDA-approved for the treatment of polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults. Of these products, only Wainua autoinjector is FDA approved to be administered by the patient or caregiver; a healthcare provider is required for administration of Amvuttra, Onpattro, and Wainua prefilled syringe per the approved labeling. To date, there is no literature supporting the use of one product over another, nor is there support for the use of any of these products together or in combination with other therapies approved for ATTR (e.g., tafamidis [Vyndamax®], acoramidis [Attruby®]). The 2024 expert opinion does not offer

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

recommendations on choice of specific treatment due to the lack of direct comparison trials and advises that clinicians consider the efficacy and safety considerations, in addition to any comorbidities and personal preferences around ease of use for an individual patient.

- Onpattro is a small interfering ribonucleic acid agent (siRNA) targeting TTR. It works by silencing a portion of RNA involved in causing the disease. Onpattro is designed to deliver the drug directly into the liver to interfere with RNA production of an abnormal form of TTR. By preventing this, the drug can help reduce the accumulation of amyloid deposits in peripheral nerves.

    - In the pivotal phase 3 APOLLO trial, Onpattro demonstrated better outcomes on measures of polyneuropathy including muscle strength, sensation (pain, temperature, numbness), reflexes and autonomic symptoms (blood pressure, heart rate, digestion) compared to those receiving the placebo infusions. Onpattro-treated patients also scored better on assessments of walking, nutritional status and the ability to perform activities of daily living.

    - In clinical trials, Onpattro was only evaluated in patients with a baseline polyneuropathy disability (PND) score ≤IIIb, which equates to a familial amyloidotic polyneuropathy (FAP) stage of 1 or 2. The PND score (range 0-IV) stages disease based on walking ability, while the FAP stage (stage 0-3) assesses the patient's level of ambulation and the severity/progression of neuropathy. Onpattro was not evaluated in patients with baseline PND score of IV which, like FAP stage 3, designates patients with late-stage, significantly advanced disease who are wheelchair-bound or bedridden, therefore clinical trials do not support use in this patient population with advanced disease.

- Patients with a history of liver transplant were also excluded from clinical trials of Onpattro. There is no literature to support that patients who received a liver transplant would experience benefit from treatment with Onpattro as they would not be expected to produce mutated TTR post-transplant.

- Additionally, there are no published clinical trials evaluating safety or efficacy of Onpattro for the treatment of any condition other than polyneuropathy of hATTR, and data is limited on the effect of Onpattro on other end organ dysfunction related to the underlying amyloidosis (i.e. cardiovascular outcomes).

References:

1. Adams D, Gonzalez-Duarte A, O'Riordan WD, et al. Patisiran, an RNAi Therapeutic, for Hereditary Transtyretin Amyloidosis. N Engl J Med. 2018;379(1):11-21. doi: 10.1056/NEJMoa1716153.
2. Adams D, Suhr OB, Dyck PJ, et al. Trial design and rationale for APOLLO, a Phase 3, placebo-controlled study of patisiran in patients with hereditary ATTR amyloidosis with polyneuropathy. BMC Neurology. 2017;17(1):181. doi: 10.1186/s12883-017-0948-5.
3. Adams D. Gonzalez-Duarte A, O'Riordan WD, et al. Supplement to: Adams D, Gonzalez-Duarte A, O'Riordan WD, et al. Patisiran, an RNAi therapeutic, for hereditary transthyretin amyloidosis. N Engl J Med. 2018;379(1)11-21. doi: 10.1056/NEJMoa1716153.
4. Amvuttra (prescribing information). Cambridge, MA: Alnylam Pharmaceuticals, Inc.; June 2022.
5. Ando Y, Coelho T, Berk JL, et al. Guideline of transthyretin-related hereditary amyloidosis for clinicians. Orphanet Journal of Rare Diseases. 2013;8:31. Doi: 10.1186?1750-1172-8-31.
6. ESI Express Scripts® Drug Evaluation: patisiran (Onpattro™) [Alnylam Pharmaceuticals, INC.] August 2018.
7. In first, FDA approved RNA interference drug from Alnylam. Available at: https://www.biopharmadive.com/news/alnylam-onpattro-patisiran-approval-fda-rna-interference/529700/. Accessed September 2018.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Karam C, et al. Diagnosis and treatment of hereditary transthyretin amyloidosis with polyneuropathy in the United States: Recommendations from a panel of experts. Muscle Nerve. 2024 Mar;69(3):273-287. doi: 10.1002/mus.28026. Epub 2024 Jan 4. PMID: 38174864.
9. Onpattro (patisiran) New Drug Review. IPD analytics. August 2018.
10. ONPATTRO™(patisiran) [prescribing information]. Cambridge, MA: Alnylam Pharmaceuticals, Inc; February 2020.
11. Sekijima Y, Yoshida K, Tokudo T, et al. Familial Transthyretin Amyloidosis. Gene Reviews [internet]. Available at: https://www.ncbi.nlm.nih.gov/books/NBK1194/. Accessed September 2018.
12. Tafamidis for transthyretin amyloid cardiomyopathy. National Institute for Health Research [internet]. Available from: http://www.io.nihr.ac.uk/wp-content/uploads/2018/06/5124-Tafamidis-for-TTR-CM-V1.0-JUN2018-NON-CONF.pdfhttp://www.io.nihr.ac.uk/wp-content/uploads/2018/06/5124-Tafamidis-for-TTR-CM-V1.0-JUN2018-NON-CONF.pdf. Accessed: September 2018

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.0</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 06/05/2025</td><td>Reworded diagnosis criteria for clarity to align with approved labeling
Removed criteria preventing use with previous liver transplant to align with management for other ATTR therapies</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/10/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/04/2022</td><td>Removed FDA approved indications criteria and updated bullet e to prevent combination use with any drug approved for ATTR</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/08/2020</td><td>Policy update; Addition of trial and failure of preferred language to criteria (bullet j)</td></tr>
<tr><td>1.3</td><td>Effective Date: 11/07/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 12/01/2018</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/01/2018</td><td>New Drug Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Opdualag™ (nivolumab and relatlimab-rmbw)
HCPCS: J9298

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Opdualag is a combination PD-1 and LAG-3 blocking antibody indicated for the treatment of adult and pediatric patients 12 years of age or older with unresectable or metastatic melanoma.
- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Opdualag following failure. NCCN treatment guidelines also do not recommend use of Opdualag or other PD-L1 checkpoint inhibitors and LAG-3 blocking agents following a previous failure. The only time Opdualag has been shown to be effective following previous use with a PD-1/PD-L1 inhibitors is when the previous agent was used as neoadjuvant or adjuvant therapy and there was at least 6 months between the last dose of therapy and the date of recurrence. In these scenarios, use of Opdualag can be considered.
- Opdualag has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.
- Opdualag has not been studied in patients with an ECOG performance status of greater than 1 and therefore, should not be sed in patients with an ECOG score greater than 1.

References:

1. Opdualag [prescribing information]. Princeton, NJ: Bristol-Myers Squibb Company; March 2024.
2. Tawbi HA, Schadendorf D, Lipson EJ, et al. Relatlimab and nivolumab versus nivolumab in untreated advanced melanoma. NEJM. 2022 Jan 6; 386 (1): 24 - 34.
3. National Comprehensive Cancer Network. Cutaneous melanoma (Version 1.2026). 2026 Feb 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on February 23, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 04/16/2026</td><td>Updated to include the trial and failure of preferred products statement</td></tr>
<tr><td>1.4</td><td>Effective Date: 04/10/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/11/2024</td><td>Updated to remove the ECOG score requirement</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/06/2023</td><td>Updated approval length to allow for no less than a 60 day approval duration</td></tr>
<tr><td>1.1</td><td>Effective Date: 12/01/2022</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/09/2022</td><td>New policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Orencia® (abatacept)
HCPCS: J0129

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Orencia is a biologic disease-modifying agent that functions as a selective T-cell costimulation blocker and is approved to treat:
  - Adults with moderately to severely active RA
  - Patients 2 years of age and older with moderately to severely active pJIA
  - Patients 2 years of age and older with active PsA
  - Prophylaxis for aGVHD, in combination with a calcineurin inhibitor and methotrexate, in adults and pediatric patients 2 years of age and older undergoing HSCT from a matched or 1 allele-mismatched unrelated donor.
- Concomitant use with other potent immunosuppressants (including other biologics and targeted DMARDs like Janus kinase (JAK) inhibitors), however, is not recommended.
- Orencia may be administered as a subcutaneous injection or an intravenous (IV) infusion for RA, JIA, and PSA and administered IV for prophylaxis of aGVHD. Of note, subcutaneous Orencia is indicated for children 2 years of age and older with JIA, whereas administration of Orencia as an IV infusion should only be used in children 6 years of age and older with JIA. Refer to the prescribing information for additional details.
- Clinical reasons a patient may be unable to self-administer Orencia include:
  - Patient or caregivers are unable to perform SC injections with proper technique.
  - Member requires monthly medical support from the physician

– Rheumatoid Arthritis

- The 2021 American College of Rheumatology (ACR) Guidelines for the Treatment of Rheumatoid Arthritis (RA) established recommendations for the care of adult RA patients. The guidelines state that treatment decisions should follow a shared decision-making process and should be reevaluated within a minimum of 3 months based on the efficacy and tolerability of the DMARD(s) chosen.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For the initial treatment of symptomatic RA, the guidelines strongly recommend the use of conventional synthetic DMARD (csDMARD) monotherapy in those who are DMARD-naive. csDMARD monotherapy is a less costly first line treatment option with an extensive safety record accompanied by well-documented clinical efficacy and a large body of clinical experience and familiarity among prescribers. csDMARDs in the guidelines refer to methotrexate (MTX), hydroxychloroquine, leflunomide (LEF), and sulfasalazine. Azathioprine, cyclosporine, minocycline, and gold were not included due to their infrequent use in RA and lack of new data since the prior guidelines were published. Oral MTX is recommended as the preferred initial DMARD for patients with moderate-to-high disease activity, and hydroxychloroquine is recommended as the preferred initial DMARD for patients with low disease activity.

- If disease activity remains moderate or high despite optimal dosing of methotrexate monotherapy, the use of dual therapy with methotrexate plus biologic DMARD (bDMARD; etanercept, adalimumab, infliximab, golimumab, certolizumab pegol, abatacept, tocilizumab, sarilumab, rituximab) or targeted synthetic DMARD (tsDMARD; tofacitinib, baricitinib, upadacitinib) therapy is conditionally recommended over the use of triple therapy (i.e., addition of sulfasalazine and hydroxychloroquine). The guidelines do not inform preference of bDMARD over tsDMARD therapy, or vice-versa, for use in combination with MTX. No one agent has been shown to be superior to another. The guidelines do acknowledge the emergence of safety signals for the JAK inhibitor class (tsDMARD), and state that further modification of this recommendation may be necessary as additional data are published.

- A treat-to-target approach is conditionally recommended over usual care for patients who have had an inadequate response to bDMARDs or tsDMARDs. Treat-to-target refers to a systematic approach involving frequent monitoring of disease activity using validated instruments and modification of treatment to minimize disease activity with the goal of reaching a pre-defined target (low disease activity or remission).

– Polyarticular Juvenile Idiopathic Arthritis

- Juvenile idiopathic arthritis (JIA) defines a collection of inflammatory arthritides of unknown etiology. Onset is prior to 16 years of age with a minimum duration of 6 weeks and other potential causes of synovitis are excluded. JIA can be subdivided into pJIA and systemic JIA.

- pJIA is defined by the presence of more than 4 affected joints in the first 6 months of illness and comprises 20-30% of children with JIA. Therapy is directed toward treating the underlying inflammation and preventing JIA-associated complications and adverse effects of its treatment.

- The 2019 American College of Rheumatology/Arthritis Foundation (ACR/AF) guideline for the treatment of JIA strongly recommends initial therapy for pJIA with a DMARD such as MTX or LEF. MTX is conditionally recommended over LEF as it has a greater volume of data supporting its effectiveness compared to leflunomide and can be administered subcutaneously (recommended) or orally. The guidelines consider an adequate trial of a DMARD to be 3 months.

- If moderate or high disease activity persists despite an adequate DMARD trial, the ACR/AF guidelines recommend biologic agents either in combination with a DMARD or as monotherapy in certain situations. Biologic agents FDA approved for pJIA in patients 2 years of age and older include Humira® (adalimumab), Enbrel® (etanercept), Actemra® (tocilizumab), Orencia (abatacept), Simponi Aria® (golimumab), Xeljanz® (tofacitinib), Xeljanz (tofacitinib) oral solution, and Cimzia® (certolizumab pegol).

    - Of note, biologic therapy may be an appropriate initial therapy in pJIA patients with risk factors and involvement of high-risk joints, high disease activity, and/or for those judged to be at high risk of disabling joint damage.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There is the most experience with tumor necrosis factor inhibitors (TNFi; Humira, Enbrel, Simponi Aria) as initial biologic therapy; however, the preferred class of initial biologic is not specified in the guideline recommendations due to a lack of comparative data and the consideration that non-TNFi biologics may be preferred in certain patient-specific scenarios. If a TNFi is started as the initial biologic, switching to a non-TNFi (tocilizumab or abatacept) is recommended over switching to a second TNFi. An exception to this is for those who had a good initial response to the first TNFi.

– Psoriatic Arthritis

- Psoriatic Arthritis (PsA) is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

- Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis: All recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.

- In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs is most commonly achieved within 3 months of therapy.

- If PsA remains active despite OSM therapy, switching to a TNFi, an interleukin-17 inhibitor (IL-17i), or an IL-12/23i biologic is recommended over switching to a different OSM; switching to a TNFi biologic over an IL-17i or IL-12/23i biologic is conditionally recommended in this scenario based on moderate quality evidence. Additional treatment options include Orencia (abatacept) and Xeljanz (tofacitinib). The detailed recommendations for subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

– Prophylaxis for Acute Graft vs. Host Disease

- Prophylaxis of aGVHD centers on immunosuppression of the donor cells, either pharmacologically or via T cell depletion. There is no agreed-upon standard regimen, and clinical practice varies by institution. Guidelines for GVHD prophylaxis have been proposed by the European Group for Blood and Marrow Transplantation (EBMT) and European LeukemiaNet (2020).

- According to the EBMT, the consensus recommendations for the prophylaxis of GVHD in allogenic transplantation with myeloablative conditions has the standard prophylaxis being cyclosporine plus a short course of methotrexate. Tacrolimus plus methotrexate is regarded as equivalent, but experience in Europe is too limited to support recommendations. Antithymocyte globulin has been shown to reduce chronic GVHD and improve the quality of life in transplantations from an unrelated donor. Therefore, antithymocyte globulin can be included in the prophylaxis regimen for unrelated donor transplantations. GVHD prophylaxis for reduced intensity conditioning has the standard prophylaxis being cyclosporine plus mycophenolate mofetil. Orencia has not been included in the EBMT proposed guidelines.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Donor selection for HSCT is a critical element contributing to the success of the transplant. Matching donor and recipient for human leukocyte antigen (HLA) class I (-A, -B, and -C) and class II (-DRB1 and -DQB1) haplotypes is a key part of successful allogeneic HSCT. Molecular typing, used for allele matching, defines HLA genes by their DNA sequences. Molecular typing is necessary for HLA matching in unrelated donor transplants. An 8 of 8 HLA match refers to donor-recipient pairs matched for HLA-A, HLA-B, HLA-C, and HLA-DRB1 at the allele level. A 7 of 8 HLA match refers to pairs with a single allele or antigen mismatch at either HLA-A, HLA-B, HLA-C, or HLA-DRB1. In the Study GVHD-1, participants were either in an 8 of 8 HLA-matched cohort or a 7 of 8 HLA-matched cohort.

References:

1. Ringold et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Treatment of JIA. Arthritis Care and Research. Vol 71 No 6 Jun 2019.
2. Fraenkel L, et al. 2021 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Care & Research. 2021 Jul; 73 (7):924-939.
3. Singh JA, et al. 2015 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Rheumatol. 2016 Jan; 68(1): 1-26.
4. Penack O, Marchetti M, Ruutu T, et al. Prophylaxis and management of graft versus host disease after stem-cell transplantation for haematological malignancies: updated consensus recommendations of the European Society for Blood and Marrow Transplantation. Lancet Haematol. 2020 Feb;7(2):e157-e167. doi: 10.1016/S2352-3026(19)30256-X. PMID: 32004485.
5. Orencia (abatacept) [prescribing information]. Princeton, NJ: Bristol-Myers Squibb; May 2024.

Policy History		
#	Date	Change Description
2.8	P&T Date: 10/09/2025 Effective Date: 11/24/2025	Added criteria requiring member to self-administer unless clinically unable to do so
2.7	Effective Date: 10/03/2024	Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria
2.6	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
2.5	Effective Date: 02/02/2023	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 02/10/2022	Updated to include Orencia’s new indication for prophylaxis of acute graft versus host disease
2.3	Effective Date: 12/09/2021	Removed FDA approved indication and the oral DMARD criteria for psoriatic arthritis.
2.2	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications.
2.1	Effective Date: 10/08/2020	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.0</td><td>Effective Date: 11/07/2019</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 11/01/2018</td><td>Added trial of all preferred drugs to apply to all indications</td></tr>
<tr><td>1.8</td><td>Effective Date: 10/01/2018</td><td>UM medical management system update for BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.7</td><td>Effective Date: 08/09/2018</td><td>Updated language to include preferred infliximab product</td></tr>
<tr><td>1.6</td><td>Effective Date: 11/09/2017</td><td>SQ approval for 2 years of age for JIA and New FDA approval for PsA</td></tr>
<tr><td>1.5</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 03/23/2017</td><td>New coverage criteria for biologics that treat rheumatoid conditions</td></tr>
<tr><td>1.3</td><td>Effective Date: 11/10/2016</td><td>New criteria document: Expanded criteria for JIA</td></tr>
<tr><td>1.2</td><td>Effective Date: 07/01/2016</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 05/05/2016</td><td>Criteria update</td></tr>
<tr><td>1.0</td><td>Effective Date: 01/22/2013</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Otarmeni™ (lunsotogene parvec-cwha)
HCPCS: J3590

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Otoferlin-related hearing loss is a rare, genetic, auditory neuropathy spectrum disorder (ANSD) caused by biallelic mutations in the OTOF gene. It is characterized by dysfunctional otoferlin which helps in the conduction of sound signals to the brain. Otoferlin is located within the inner hair cells of the cochlea in the inner ear. These inner hair cells act as sensory cells that convert sound vibrations into electrical signals. Otoferlin responds to an influx of calcium into inner hair cells triggering the release of neurotransmitters from vesicles within the hair cell. These neurotransmitters then carry the sound signal across the synapse to the auditory nerve. From the auditory nerve, the signal travels to the brain for interpretation as sound. Without functional otoferlin, this important step in signal transmission stops, preventing the sound information from reaching the brain even if the hair cells initially detect the sound.

- The 2016 International Pediatric Otolaryngology Group (IPOG) consensus recommendations for hearing loss in the pediatric patient recommend use of otoacoustic missions (OAE) testing in all newborns. If newborns are at high risk for hearing loss or they have failed their initial OAE testing, an auditory brainstem response (ABR) test should then be performed. The diagnosis of ANSD is given when otoacoustic emissions and/or cochlear microphonics are present in the setting of absent or abnormal ABR. Temporal bone and brain imaging is recommended in the setting of unilateral ANSD and should be considered in the setting of bilateral ANSD. Genetic testing should be performed with a confirmed ANSD diagnosis as 40% - 50% of ANSD has a genetic component. Patients with otoferlin-related hearing loss may benefit from the use of cochlear implants.

- Otarmeni is an adeno-associated virus vector-based gene therapy indicated for the treatment of pediatric and adult patients with severe-to-profound and profound sensorineural hearing loss associated with molecularly confirmed biallelic variants in the OTOF gene, preserved outer hair cell function, and no prior cochlear implant in the same ear. It is not recommended in patients in whom preoperative imaging demonstrates that access to the inner ear is not feasible including those with abnormal mastoid pneumatization or clinically significant anatomic variations of the middle ear and inner ear. This indication is approved under accelerated approval based on the improvement of hearing sensitivity assessed by average pure tone audiometry (PTA) at week 24. Continued approval for this indication may be contingent upon verification and description of clinical benefit in the confirmatory clinical trial.

- Safety and efficacy are being evaluated in the CHORD trial, an ongoing, multi-center, single-arm study of 24 pediatric patients with otoferlin-related hearing loss. There were two parts to the study. In part A, participants received Otarmeni in one ear and the contralateral ear could have a cochlear implant or remain untreated. In part B, participants received Otarmeni in both ears during a single session. Participants received Otarmeni at a dose of 7.2×10^{12} vector genomes in a volume of 240 µl per dose in one ear or in each ear. Patients had to be less than 18 years of age, have biallelic OTOF gene variants, profound deafness defined by an average audiometric threshold of greater than 90 decibel hearing level [dB HL], and clinical markers of intact outer hair-cell function. Key exclusion criteria included previous gene therapy or a cochlear implant in the ear designated for Otarmeni. The primary endpoint was an average threshold on behavioral PTA at week 24 of 70 dB HL or less, a clinical standard that generally avoids cochlear implantation and enables natural acoustic hearing. A PTA average threshold of 70 dB HL or less at week 24 was found in 16 of 20 participants

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(80%; 95% CI: 56, 94). Auditory brain response at less than 90 dB HL at week 24 was achieved in 14 of 20 patients (70%, 95% CI: 46, 88). At week 24, a total of 9 (45%) patients achieved an average PTA threshold less than or equal to 45 dB HL, or ability to hear soft conversational speech level, and 3 (15%) patients achieved less than or equal to 25 dB HL, or normal hearing levels and the ability to hear whispers. One patient received a cochlear implant as rescue treatment approximately 8 months after Otarmeni administration in the same ear following determination of treatment failure.

- The plan considers cellular and gene therapies to be proven effective to treat a condition if the following are true: the drug has full FDA approval that was not obtained under the FDA's accelerated approval pathway and the drug met all of its primary endpoint(s) in its pivotal trials, or if confirmatory trials were required, the drug met its primary endpoint(s) in its confirmatory trial(s). Cellular and gene therapies that haven't been proven effective (do not meet the listed criteria) are considered a benefit contract exclusion for most plans.

- Otarmeni was approved under the FDA's accelerated approval pathway, and therefore, is considered experimental/investigational until further confirmatory trials are complete and the medication gets full FDA approval.

References:

1. Otarmeni [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; April 2026.
2. Valayannopoulos V, Bance M, Carvalho DS, et al. DB-OTO gene therapy for inherited deafness. NEJM. 2025 Oct 12. DOI: 10.1056/NEJMoa2400521.
3. Clinicaltrials.gov. A study of DB-OTO, an adeno-associated virus (AAV) based gene therapy, in children/infants with hearing loss due to otoferlin mutations (CHORD) (NCT05788536). Available at: https://clinicaltrials.gov/study/NCT05788536?intr=%22DB-OTO%22&viewType=Table&rank=1. Accessed on April 26, 2026.
4. National Organization for Rare Disorders. Auditory neuropathy spectrum disorder. 2021 Aug 18. Available at: https://rarediseases.org/rare-diseases/auditory-neuropathy-spectrum-disorder/. Accessed on April 26, 2026.
5. Ford CL, Riggs WJ, Quigley T, et al. The natural history, clinical outcomes, and genotype–phenotype relationship of otoferlin-related hearing loss: a systematic, quantitative literature review. Hum Genet. 2023 Sept 7; 142: 1429 – 49.
6. American Academy of Audiology. Assessment of hearing in infants and young children. 2020 Jan 23. Available at: https://www.audiology.org/wp-content/uploads/2021/05/Clin-Guid-Doc_Assess_Hear_Infants_Children_1.23.20.pdf. Accessed on April 29, 2026.
7. Alford RL, Arnos KS, Fox M, et al. American College of Medical Genetics and Genomics guideline for the clinical evaluation and etiologic diagnosis of hearing loss. Gene Med. 2024 April; 16 (4): 347 – 55.
8. Liming BJ, Carter J, Cheng A, et al. International Pediatric Otolaryngology Group (IPOG) consensus recommendations: hearing loss in the pediatric patient. Intern J Ped Otorhinolar. 2016 Nov; 90: 251 – 8.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 07/01/2026</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 06/11/2026</td><td>New Policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 05/04/2026</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Oxlumo® (lumasiran)
HCPCS: J0224

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Primary hyperoxaluria (PH) is an ultra-rare genetic disease characterized by recurrent kidney and bladder stones. There are three types of PH that differ in their severity and underlying genetic mutation: PH1, PH2, and PH3. PH1 is the most common form of PH, accounting for around 80% of total cases and affecting approximately 3,000 to 5,000 patients in the US. PH1 patients have a mutation of the AGXT gene, which results in decreased or absent hepatic enzyme alanine-glyoxylate aminotransferase (AGT). AGT converts glyoxylate to glycine, causing an increase in glyoxylate and oxalate. The excess production of oxalate by the liver results in the deposition of calcium oxalate crystals in the kidneys and urinary tract and can lead to the formation of painful and recurrent kidney stones, nephrocalcinosis, progression to kidney failure, and systemic organ dysfunction. PH1 can be suspected in patients with increased urinary oxalate excretion, indicated by levels >1 mmol/1.73 m^2 per day. Genetic testing for a mutation in the AGXT gene confirms the PH1 diagnosis.

- Prior to the approval of Oxlumo, high-dose vitamin B-6 (pyridoxine), a cofactor for the AGT enzyme, was the only treatment proven to target the underlying pathophysiology of PH1. In 30-50% of PH1 patients, vitamin B-6 reduces oxalate levels and prevents accumulation in the kidneys. Responsiveness to vitamin B-6 is defined as a >30% decrease in urinary oxalate excretion after a minimum trial period of 3-6 months at the maximum tolerated dose. Experts recommend a starting dose of 5 mg/kg/day, with a maximum daily dose of 20 mg/kg. 56% of patients in the clinical trials for Oxlumo received concomitant vitamin B-6. Sensory neurotoxicity is a rare, dose-limiting side effect of vitamin B-6.

- Hyperhydration is a common supportive measure for management of PH1. Increasing fluid intake to 3 L/m^2 body surface area (BSA) per day can create higher urinary output, which decreases tubular fluid oxalate concentration and intratubular deposition, thereby preventing oxalate accumulation in the kidney. Experts recommend this approach of increasing fluid intake to help manage PH1. Pediatric patients may require a gastronomy tube to meet the high daily fluid requirement.

- Oxlumo is the first FDA-approved medication indicated for the treatment of PH1 to lower urinary and plasma oxalate levels in pediatric and adult patients. Oxlumo is an RNA interference therapy that reduces levels of the glycolate oxidase (GO) enzyme by targeting mRNA in the hepatocytes. Decreased GO enzyme levels reduce the amount of available glyoxylate, which is the substrate for oxolate production. The GO enzyme is upstream from the deficient AGT enzyme that causes PH1; therefore, the mechanism of action of Oxlumo is independent of the underlying AGXT gene mutation.

- The approval of Oxlumo was based on three studies in patients with PH1: a randomized control trial in pediatric patients ages 6 years and older with PH1 (ILLUMINATE-A), a single-arm clinical trial in pediatric patients less than 6 years of age with PH1 (ILLUMINATE-B), and a single-arm clinical trial in pediatric and adult patients with PH1 with advanced chronic kidney disease, including those on hemodialysis (ILLUMINATE-C). Of note, the ILLUMINATE-A and ILLUMINATE-B trials excluded patients

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

with systemic oxalosis, eGFR <30-45 mL/min, undergoing dialysis, or a history of kidney and liver transplants. ILLUMINATE-C did not exclude patients with eGFR <30 mL/min or those undergoing hemodialysis, and trial results support the efficacy of Oxlumo in PH1 patients with advanced renal disease. Of note, patients undergoing peritoneal dialysis and those with history of kidney or liver transplants were excluded from ILLUMINATE-C.

- The first trial, ILLUMINATE-A, was a placebo-controlled, double blind randomized controlled trial including patients 6 to 61 years old. 26 patients received Oxlumo and 13 received placebo. The primary endpoint was percent reduction from baseline in 24-hour urinary oxalate excretion (corrected for BSA) in months 3 to 6 of the trial. The least squares mean percent change was -65% (95% CI: -71, -59) in the Oxlumo group and -12% (95% CI: -20, -4) in the placebo group. By 6 months, 52% of patients receiving Oxlumo achieved normal 24-hour urinary oxalate, compared to 0% of patients receiving placebo.

- The second trial, ILLUMINATE-B, was a single-arm study. 16 patients younger than six years of age received Oxlumo. Using another measure of oxalate in the urine, the study showed, on average, a 71% (95% CI: 65, 77) decrease in urinary oxalate by the sixth month of the study.

- The third trial, ILLUMINATE-C, was a single-arm study that assessed the efficacy of Oxlumo in patients with PH1 with advanced renal disease (eGFR <30mL/min or those receiving hemodialysis). 21 patients aged 0 months and older (range: 0-59 years) received Oxlumo. Using the measure of oxalate in the plasma, the study showed on average a 33% (95% CI: -15, 82) and 42% (95% CI: 34, 51) reduction in plasma oxalate at month 6 compared to baseline, respectively, for patients not receiving hemodialysis at enrollment (Cohort A, N=6) and for patients receiving hemodialysis at enrollment (Cohort B, N=15). Additionally, at 6 months, no patients demonstrated worsening of nephrocalcinosis grade, 2 patients demonstrated no change in nephrocalcinosis grade, and 5 patients demonstrated improvement in nephrocalcinosis grade compared to baseline.

- Rivfloza™ is the 2nd FDA approved medication for the treatment of PH1. Rivfloza is a small interfering ribonucleic acid (siRNA) that inhibits the production of the hepatic lactase dehydrogenase (LDH) enzyme – an enzyme that is involved in the conversion of glyoxylate to oxalate. Rivfloza is approved to lower urinary oxalate levels in children 9 years of age and older and adults with PH1 and relatively preserved kidney function, e.g., eGFR ≥ 30 ml/min/1.73 m^2. In addition, Rivfloza is approved for both self-administration and healthcare provider administration.

- Clinical trials showed that Oxlumo and Rivfloza can effectively treat the underlying pathophysiology of oxalate overproduction. Data to show that Oxlumo or Rivfloza delays or precludes the need for liver and/or kidney transplantation is forthcoming and will impact these therapies prospective value.

  - Systemic oxalosis is defined as the spread of oxalate to organs outside of the kidneys, such as the joints, skin, bones, and heart. This can lead to organ dysfunction and death. The ILLUMINATE-C trial established the efficacy of Oxlumo in patients with advanced PH1, including those with systemic oxalosis and those undergoing hemodialysis. One registry study found that around 40% of patients present with end-stage renal disease (ESRD) at the time of PH1 diagnosis, representing a significant proportion of the PH1 patient population.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In patients with PH1, aggressive hemodialysis is indicated once plasma oxalate levels exceed 30 mmol/L to prevent systemic oxalosis. Patients with PH1 and advanced renal disease carry a higher risk for systemic oxalosis, as renal excretion of oxalate is greatly reduced as eGFR declines, leading to an increase in plasma oxalate levels. Peritoneal dialysis alone does not achieve sufficient oxalate clearance; however, peritoneal dialysis in combination with hemodialysis may be necessary for those who do not respond to hemodialysis alone. Patients receiving peritoneal dialysis either alone or in combination with hemodialysis were excluded from ILLUMINATE-C.

- Dialysis is often used as a bridge to future liver and/or kidney transplantation in patients with PH1. Patients with a history of liver and/or kidney transplantation were excluded from all Oxlumo and Rivfloza trials, as removal of the patient's native liver is considered curative by removing the source of oxalate overproduction. Subsequent kidney transplantation or simultaneous liver-kidney transplantation may be required for those with ESRD. The role of transplantation in the setting of PH1 may change in the future with the introduction of small-interfering RNA therapies such as Oxlumo. However, additional long-term data is needed to understand whether Oxlumo can delay or eliminate the need for liver and/or kidney transplantation in patients with PH1.

- No studies have been done using Oxlumo and Rivfloza in combination. Patients were excluded from the Rivfloza PHYOX2 clinical trial if they had use of an RNAi drug within the last 6 months.

References:

1. Oxlumo [prescribing information]. Cambridge, MA: Alnylam Pharmaceuticals; September 2003.
2. Garrelfs SF, Frishberg Y, Hulton SA, et al. Lumasiran, an RNAi Therapeutic for Primary Hyperoxaluria Type 1. N Engl J Med. 2021;384(13):1216-1226. doi:10.1056/NEJMoa2021712
3. Sas DJ, Magen D, Hayes W, et al. Phase 3 trial of lumasiran for primary hyperoxaluria type 1: A new RNAi therapeutic in infants and young children. Genet Med. 2022;24(3):654-662. doi:10.1016/j.gim.2021.10.024
4. Michael M, Groothoff JW, Shasha-Lavsky H, et al. Lumasiran for Advanced Primary Hyperoxaluria Type 1: Phase 3 ILLUMINATE-C Trial [published online ahead of print, 2022 Jul 14]. Am J Kidney Dis. 2022;S0272-6386(22)00771-5. doi:10.1053/j.ajkd.2022.05.012
5. Drug manufacturer press release. Available at: https://www.businesswire.com/news/home/20201124005407/en/Alnylam-Announces-U.S.-Food-and-Drug-Administration-FDA-Approval-of-OXLUMO%E2%84%A2-lumasiran-the-First-and-Only-Treatment-Approved-for-Primary-Hyperoxaluria-Type-1-to-Lower-Urinary-Oxalate-Levels-in-Pediatric-and-Adult-Patients. Accessed on November 24, 2020.
6. IPD Analytics. Oxlumo (lumasiran) New Drug Review. Published December 2020. Accessed December 10, 2020.
7. Danpure CJ. Molecular etiology of primary hyperoxaluria type 1: new directions for treatment. Am J Nephrol. 2005;25(3):303-310. doi:10.1159/000086362
8. Strauss SB, Waltuch T, Bivin W, Kaskel F, Levin TL. Primary hyperoxaluria: spectrum of clinical and imaging findings. Pediatr Radiol. 2017;47(1):96-103. doi:10.1007/s00247-016-3723-7
9. Niaudet, P. Treatment of Primary Hyperoxaluria Type 1. UpToDate. Available at: https://www.uptodate.com/contents/primary-hyperoxaluria#H3. Accessed on January 4, 2022
10. Hoppe B, Beck BB, Milliner DS. The primary hyperoxalurias. Kidney Int. 2009;75(12):1264-1271. doi:10.1038/ki.2009.32

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

11. Hoyer-Kuhn H, Kohbrok S, Volland R, et al. Vitamin B6 in primary hyperoxaluria I: first prospective trial after 40 years of practice. Clin J Am Soc Nephrol. 2014;9(3):468-477. doi:10.2215/CJN.06820613
12. Cochat P, Hulton SA, Acquaviva C, et al. Primary hyperoxaluria Type 1: indications for screening and guidance for diagnosis and treatment. Nephrol Dial Transplant. 2012;27(5):1729-1736. doi:10.1093/ndt/gfs078
13. Rivfloza [prescribing information]. Plainsboro, NJ. Novo Nordisk Inc. September 2023.
14. Baum MA, Langman C, Cochat P, Lieske JC, Moochhala SH, Hamamoto S, Satoh H, Mourani C, Ariceta G, Torres A, Wolley M, Belostotsky V, Forbes TA, Groothoff J, Hayes W, Tönshoff B, Takayama T, Rosskamp R, Russell K, Zhou J, Amrite A, Hoppe B; PHYOX2 study investigators. PHYOX2: a pivotal randomized study of nedosiran in primary hyperoxaluria type 1 or 2. Kidney Int. 2023 Jan;103(1):207-217. doi: 10.1016/j.kint.2022.07.025. Epub 2022 Aug 22. PMID: 36007597

Policy History		
#	Date	Change Description
1.9	Effective Date: 12/04/2025	Annual review completed, no changes to criteria. Added ERKNet/OxalEurope clinical practice recommendations.
1.8	Effective Date: 12/12/2024	Annual review completed, no changes to criteria
1.7	Effective Date: 12/14/2023	Updated to remove prescriber requirements and add criteria to not allow for use of Oxlumo in combination with Rivfloza
1.6	Effective Date: 06/08/2023	Hyperhydration criterion removed for patients based on ILLUMINATE-C study results
1.5	Effective Date: 12/01/2022	Criteria updated to reflect Oxlumo's expanded indication to lower plasma oxalate levels in patients with advanced renal disease: Removed criteria requiring eGFR >30 Revised criteria to exclude only those receiving peritoneal dialysis based on exclusion criteria in ILLUMINATE-C Removed criteria requiring no clinical evidence of systemic oxalosis
1.4	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 6/22/2021</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 03/01/2021</td><td>UM medical management system update for BCBSM
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/05/2021</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/04/2021</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Pasatru™ (garetosmab-grts)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- FOP is a rare connective tissue disorder characterized by severe, progressive HO of soft tissues that spans joints and results in an ectopic skeleton. FOP is caused by mutations in the ACVR1/ALK2 gene on chromosome 2q24, which encodes activin A receptor type I/activin-like kinase 2, a bone morphogenetic protein type I receptor. Definitive diagnosis requires genetic confirmation with specific molecular genetic studies that detect missense mutations or "in frame" deletions in the protein-encoding region of the ACVR1 gene. Consultation with a clinical geneticist is recommended before genetic testing. Patients with FOP generally appear normal at birth except for bilateral malformation of the great toes (hallux valgus). Sporadic, painful episodes of rapidly progressive soft tissue swelling ("flare-ups") typically begin during the first decade of life. The soft tissue swelling may resolve but more often transforms skeletal muscles, tendons, ligaments, fascia, and aponeuroses into ribbons, sheets, or plates of heterotopic bone. Flare-ups may be precipitated by soft tissue injury, intramuscular injection, surgical incisions, falls, muscular stretching, or viral illness. FOP is a very rare genetic disorder with approximately 400 people affected in the U.S. and an estimated 800-900 confirmed cases worldwide.

- FOP is accelerated by trauma and avoiding deep tissue trauma, including intramuscular injections, is one way to prevent flare-ups and HO. The medical management of fibrodysplasia ossificans progressiva: current treatment considerations from the international clinical council (ICC) on FOP was most recently updated in May 2022 and has recommendations including the use of corticosteroids, COX-1 inhibitors and NSAIDs, and topical analgesics to alleviate symptoms. The following options have low levels of evidence and are merely suggestions in a space that previously had no approved therapies. Mast cell inhibitors may be used to reduce the intense muscle edema, fibroproliferation and angiogenesis of FOP flare-ups, however the optimal use of such medications and their potential long-term efficacy in FOP is presently unknown. Bisphosphonates anecdotally seem to decrease flare-up symptoms in patients. Imatinib has been used to help with flare-ups. Presently, there is no definitive evidence that imatinib prevents or ameliorates flare-ups in FOP; however, early clinical observations support the implementation of clinical trials of imatinib in children with uncontrolled FOP flare-ups. Muscle relaxants may help to decrease muscle spasm and maintain more functional activity even in the setting of an evolving FOP lesion and may especially be true for painful flare-ups involving the limbs. In July of 2024 the ICC on FOP updated the medical management of fibrodysplasia ossificans progessiva: current treatment considerations to include Sohonos. The state of a patient with FOP considering Sohonos, the potential benefits and risks, as detailed in the package insert, by the MOVE trial publication, and in subsequent publications, must be discussed in detail with the patient and the patient's medical team. Additional risks should be explicitly discussed, including potential effects on bone health (loss of bone mass), skin/mucosal dryness and complications, potential for eye complications, and the risk of fetal malformations in pregnancy. The ICC supports continued close long-term follow-up of these potential complications. Standard-of-care therapies, as recommended by the FOP Treatment Guidelines should still be used in combination with Sohonos as appropriate, and with guidance from the patient's medical team. A recommendation for garetosmab has not been included in these guidelines at this time.

References:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1. Regeneron Press Releases: Regeneron Announces Positive Phase 3 Trial in Adults with Ultra-Rare Genetic Disorder Fibrodysplasia Ossificans Progressiva (FOP), Demonstrating that Garetosmab Prevents Greater than 99% of Abnormal Bone Formation. September 17, 2025 https://investor.regeneron.com/news-releases/news-release-details/regeneron-announces-positive-phase-3-trial-adults-ultra-rare/
2. ClinicalTrials.gov. (2022-2026). A Study to Assess Safety, Tolerability and Efficacy of Garetosmab Versus Placebo Administered Intravenously (IV) in Adult Participants With Fibrodysplasia Ossificans Progressiva (FOP). Identifier: NCT05394116. https://clinicaltrials.gov/study/NCT05394116
3. ClinicalTrials.gov. (2022-2026). A Study to Examine the Safety, Tolerability and Effects on Abnormal Bone Formation of REGN2477 in Patients With Fibrodysplasia Ossificans Progressiva" (LUMINA-1), is a Phase 2 clinical trial evaluating the drug garetosmab for the treatment of Fibrodysplasia Ossificans Progressiva (FOP). Identifier: NCT03188666. https://clinicaltrials.gov/study/NTC038888666
4. The medical management of fibrodysplasia ossificans progressiva: current treatment considerations from the international clinical council on FOP. April 2021 (updated May 2022). https://assets.nationbuilder.com/ifopa/pages/1043/attachments/original/1665444347/GUIDELINES__updated_May_2022.pdf?1665444347
5. International fibrodysplasia ossificans progressive association (ifopa). What is FOP? https://www.ifopa.org/what_is_fop accessed May 2026.

Policy History

#	Date	Change Description
1.0	Effective Date: 06/11/2026	Preliminary Drug Review

Line of Business	PA Required in Medical Management System (Yes/No)
BCBS	No
BCN	No
MAPPO	No
BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Papzimeos™ (zopapogene imadenovec-drba)
HCPCS: J3404

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Recurrent respiratory papillomatosis (RRP) is a rare disorder characterized by the development of papillomas in the respiratory tract. Papillomas can develop anywhere along the respiratory tract, but most often affect the larynx and the vocal cords. Less often, the disorder affects the oral cavity, trachea, and bronchi. Only in rare cases do these growths spread to affect the lungs. While the papillomas are noncancerous, in extremely rare cases they can undergo malignant transformation. In RRP, papillomas tend to grow back after they have been removed.

- RRP is caused by the human papillomavirus (HPV). This virus is common in human beings with some studies estimating that as many as 75% - 80% of men and women will be affected by HPV at some point during their lives if they are not vaccinated against the virus. Most individuals who are infected with HPV never develop any symptoms. There are more than 150 different subtypes of HPV with two specific subtypes, HPV 6 and HPV 11, accounting for more than 90% of cases of RRP.

- Certain risk factors have been identified for the development of RRP. Being a firstborn child, having a vaginal delivery with prolonged labor, and having a mother under 20 years of age are all risk factors for juvenile-onset RRP. If the mother has active genital warts, the risk of passing on HPV is approximately 1 in 250 - 400. Adult-onset RRP may be worsened by tobacco exposure, gastroesophageal reflux, or radiation therapy.

- The specific symptoms, course of the disease, and severity of RRP can vary greatly from one person to another. In some people, the disease may resolve without treatment or it may remain stable requiring only periodic intervention. In other people, the disease may be aggressive requiring frequent medical intervention and potentially more than 100 surgeries during a person's lifetime. The most common presenting symptom of RRP is hoarseness. Affected individuals may develop stridor due to obstruction of the airway. Some individuals may exhibit dysphonia or aphonia. Affected infants may also have a weak cry, episodes of choking, and failure to thrive. Additional symptoms that can develop include a chronic cough, dysphagia, dyspnea, the sensation of a foreign body in the throat, and choking episodes. If left untreated, papillomas can eventually compromise the airways, resulting in life-threatening breathing difficulties. If RRP spreads to the lungs, affected individuals can potentially experience recurrent pneumonia, chronic lung disease, and progressive pulmonary failure. In extremely rare cases, papillomas can become cancerous developing into squamous cell carcinoma.

- RRP is classified into two subtypes, juvenile-onset and adult-onset.

    - Juvenile-onset typically develops before the age of 12 and tends to be more aggressive with more recurrences, but improves later in childhood. It is most often diagnosed between the ages of 2 and 4.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Adult-onset RRP can also be aggressive, although severe disease is less common in the adult population. Patients with adult-onset disease typically present in their twenties or thirties, with a "second peak" around age 60.

- There are no treatment guidelines for adult-onset RRP. In 2020, the International Pediatric Otolaryngology Group (IPOG) published consensus recommendations for the treatment of juvenile-onset disease. These recommendations state treatment is directed toward removing papillomas, decreasing the spread of disease, creating a safe and patent airway, preserving nearby anatomical structures, improving voice quality if necessary, and increasing the time between surgical procedures. Specific therapeutic procedures and interventions may vary, depending upon numerous factors, such as frequency of disease recurrences; specific location and spread of the disease; papilloma size; the presence or absence of certain symptoms; an individual's age and general health; and/or other elements. The mainstay of treatment is surgical removal of papillomas. Some individuals may require surgery every few weeks while others may only require surgery twice a year or only a few times during their life depending on the frequency of recurrence. Surgical techniques used to treat individuals with RRP include "cold" excision, microdebridement, various pulsed dye lasers, or carbon dioxide lasers.

- Since the publication of the 2020 consensus recommendations, Papzimeos has been approved for the treatment of adults with RRP. Safety and efficacy were evaluated in the PRGN-2012-201 trial, an open-label, single-arm, Phase I/II study of 38 patients with histological and clinically diagnosed RRP who required three or more interventions in the year prior to treatment with Papzimeos. Participants received adjuvant Papzimeos on day 1 following surgical debulking of disease, and on days 15, 43, and 85. Of the 38 patients, 3 were treated with Papzimeos at a dose of 1×10^{11} particle units (PU) per injection. Thirty-five patients were treated at a dose of 5×10^{11} PU per injection and were included in the efficacy evaluation. The primary endpoint was complete response rate, defined as the percentage of patients who did not require an intervention to control RRP in the 12 months after treatment. Eighteen of 35 patients achieved a complete response at 12 months, resulting in a complete response rate of 51% (95% CI: 34%, 69%). Of the 18 patients with a complete response in the ongoing study, 15 demonstrated continued complete response at 24 months yielding a complete response rate of 43% (95% CI: 26%, 61%) at 2 years for the 35 patients in the efficacy population.

- Papzimeos is given via subcutaneous (SQ) injection 4 times over the course of 12 weeks. There is no data to support retreatment following the initial 12-week course of therapy.

- Papzimeos has not been studied and there is no data to support use in combination with other medications used to treat RRP.

References:

1. Papzimeos [prescribing information]. Germantown, MD: Precigen, Inc.; August 2025.
2. Norberg SM, Valdez J, Napier S, et al. PRGN-2012 gene therapy in adults with recurrent respiratory papillomatosis: a pivotal phase 1/2 clinical trial. Lancet Respir Med. 2025 Apr; 13 (4): 318 - 26.
3. Clinicaltrials.gov. Adjuvant PRGN-2012 in adult patients with recurrent respiratory papillomatosis (NCT04724980). Available at: https://clinicaltrials.gov/study/NCT04724980. Accessed on August 18, 2025.
4. National Organization of Rare Disorders. Recurrent respiratory papillomatosis. 2023 June 8. Available at: https://rarediseases.org/rare-diseases/recurrent-respiratory-papillomatosis/. Accessed on August 18, 2025.
5. Lawlor C, Balakrishnan K, Bottero S, et al. International Pediatric Otolaryngology Group (IPOG): juvenile-onset recurrent respiratory papillomatosis consensus recommendations. Int J Pediatr Otorhinolaryngol. 2020 Jan; 128: 109697.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 05/11/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 10/09/2025</td><td>New Policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 08/28/2025</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Pembrolizumab Products

Keytruda® (pembrolizumab) **- HCPCS: J9271**
Keytruda Qlex (pembrolizumab and berahyaluronidase alfa-pmph) **- HCPCS: J9277**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Keytruda and Keytruda Qlex are programmed death receptor-1 (PD-1)-blocking antibody indicated for the following:
  - For the treatment of patients with unresectable or metastatic melanoma
  - For the adjuvant treatment of adult and pediatric (12 years and older) patients with stage IIB, IIC, or III melanoma following complete resection
  - In combination with pemetrexed and platinum chemotherapy, as first-line treatment of patients with metastatic nonsquamous non-small cell lung cancer (NSCLC), with no epidermal growth factor receptor (EGFR) or anaplastic lymphoma kinase (ALK) genomic tumor aberrations
  - In combination with carboplatin and either paclitaxel or paclitaxel protein-bound, as first-line treatment of patients with metastatic squamous NSCLC
  - As a single agent for the first-line treatment of patients with NSCLC expressing PD-L1 [Tumor Proportion Score (TPS) ≥ 1%] as determined by an FDA-approved test, with no EGFR or ALK genomic tumor aberrations, and is:
    - Stage III where patients are not candidates for surgical resection or definitive chemoradiation or
    - Metastatic
  - As a single agent for the treatment of patients with metastatic NSCLC whose tumors express PD-L1 (TPS ≥ 1%) as determined by an FDA-approved test, with disease progression on or after platinum-containing chemotherapy. Patients with EGFR or ALK genomic tumor aberrations should have disease progression on FDA-approved therapy for these aberrations prior to receiving Keytruda
  - For the treatment of patients with resectable (tumors ≥ 4 cm or node positive) NSCLC in combination with platinum-containing chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery
  - As a single agent, for adjuvant treatment following resection and platinum-based chemotherapy for adult patients with stage IB (T2a ≥ 4 cm), II, or IIIA NSCLC

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In combination with pemetrexed and platinum chemotherapy, as first-line treatment of adult patients with unresectable advanced or metastatic pleural mesothelioma (MPM)

- For the treatment of adult patients with resectable locally advanced head and neck squamous cell cancer (HNSCC) whose tumors express PD-L1 [Combined Positive Score (CPS) ≥1] as determined by an FDA-approved test, as a single agent as neoadjuvant treatment, continued as adjuvant treatment in combination with radiotherapy (RT) with or without cisplatin and then as a single agent (Keytruda only)

- In combination with platinum and fluorouracil for the first-line treatment of patients with metastatic or with unresectable, recurrent HNSCC

- As a single agent for the first-line treatment of patients with metastatic or with unresectable, recurrent HNSCC whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 1] as determined by an FDA-approved test

- As a single agent for the treatment of patients with recurrent or metastatic HNSCC with disease progression on or after platinum-containing chemotherapy

- For the treatment of adult patients with relapsed or refractory classic Hodgkin lymphoma (cHL) (Keytruda only)

- For the treatment of pediatric patients with refractory cHL or cHL that has relapsed after 2 or more lines of therapy (Keytruda only)

- For the treatment of adult and pediatric patients with refractory primary mediastinal large B-cell lymphoma (PMBCL) or who have relapsed after 2 or more prior lines of therapy (Keytruda only)

- In combination with enfortumab vedotin, for the treatment of adult patients with locally advanced or metastatic urothelial cancer

- For the treatment of patients with locally advanced or metastatic urothelial carcinoma who

    - Are not eligible for any platinum-containing chemotherapy OR

    - Have disease progression during or following platinum-containing chemotherapy or within 12 months of neoadjuvant or adjuvant treatment with platinum-containing chemotherapy

- For the treatment of patients with Bacillus Calmette-Guerin (BCG) unresponsive, high-risk, non-muscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors who are ineligible for or have elected not to undergo cystectomy

- For the treatment of adult and pediatric patients with unresectable or metastatic microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options

    - For the treatment of patients with unresectable or metastatic MSI-H or dMMR colorectal cancer (CRC) as determined by an FDA-approved test

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For the treatment of locally advanced, unresectable, or metastatic HER2-positive gastric or gastroesophageal junction (GEJ) adenocarcinoma whose tumors express PD-L1 (CPS ≥1) as determined by an FDA-approved test in combination with trastuzumab, fluoropyrimidine- and platinum-containing chemotherapy, as first-line treatment

- In combination with fluoropyrimidine- and platinum-containing chemotherapy, for the first-line treatment of adults with locally advanced unresectable or metastatic HER2-negative gastric or gastroesophageal junction (GEJ) adenocarcinoma

- For the treatment of patients with locally advanced or metastatic esophageal or gastroesophageal junction (GEJ) (tumors with epicenter 1 to 5 centimeters above the GEJ) carcinoma that is not amenable to surgical resection or definitive chemoradiation either:

    - In combination with platinum- and fluoropyrimidine-based chemotherapy OR

    - As a single agent after one or more prior lines of systemic therapy for patients with tumors of squamous cell histology that express PD-L1 (CPS ≥10) as determined by an FDA-approved test

- In combination with chemoradiotherapy, for the treatment of patients with locally advanced cervical cancer involving the lower third of the vagina, with or without extension to pelvic sidewall, or hydronephrosis/non-functioning kidney, or spread to adjacent pelvic organs (FIGO 2014 Stage III-IVA)

- In combination with chemotherapy, with or without bevacizumab, for the treatment of patients with persistent, recurrent, or metastatic cervical cancer whose tumors express PD-L1 (CPS ≥1) as determined by an FDA-approved test

- As a single agent for the treatment of patients with recurrent or metastatic cervical cancer with disease progression on or after chemotherapy whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 1] as determined by an FDA-approved test

- For the treatment of patients with hepatocellular carcinoma (HCC) secondary to hepatitis B who have received prior systemic therapy other than a PD-1/PD-L1-containing regimen

- In combination with gemcitabine and cisplatin, for the treatment of patients with locally advanced unresectable or metastatic biliary tract cancer (BTC)

- For the treatment of adult and pediatric patients with recurrent locally advanced or metastatic Merkel cell carcinoma (MCC)

- In combination with axitinib, for the first-line treatment of patients with advanced renal cell carcinoma (RCC)

- In combination with lenvatinib, for the first-line treatment of adult patients with advanced RCC

- For the adjuvant treatment of patients with RCC at intermediate-high or high risk of recurrence following nephrectomy, or following nephrectomy and resection of metastatic lesions

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- In combination with carboplatin and paclitaxel, followed by Keytruda as a single agent, for the treatment of adult patients with primary advanced or recurrent endometrial carcinoma

- In combination with lenvatinib, for the treatment of patients with advanced endometrial carcinoma that is mismatch repair proficient (pMMR) as determined by an FDA-approved test or not MSI-H, who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation

- As a single agent, for the treatment of patients with advanced endometrial carcinoma that is MSI-H or dMMR, as determined by an FDA-approved test, who have disease progression following prior systemic therapy in any setting and are not candidates for curative surgery or radiation

- For the treatment of adult and pediatric patients with unresectable or metastatic tumor mutational burden-high (TMB-H) [≥ 10 mutations/megabase (mut/Mb)] solid tumors, as determined by an FDA-approved test, that have progressed following prior treatment and who have no satisfactory alternative treatment options

- For the treatment of patients with recurrent or metastatic cutaneous squamous cell carcinoma (cSCC) or locally advanced sCSS that is not curable by surgery or radiation

- For the treatment of patients with high-risk early-stage triple negative breast cancer (TNBC) in combination with chemotherapy as neoadjuvant treatment, and then continued as a single agent as adjuvant treatment after surgery

- In combination with chemotherapy, for the treatment of patients with locally recurrent unresectable or metastatic TNBC whose tumors express PD-L1 [Combined Positive Score (CPS) ≥ 10] as determined by an FDA approved test

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- There are no studies to support use of Keytruda following failure. NCCN treatment guidelines also do not recommend use of Keytruda or other PD-L1 checkpoint inhibitors following a previous failure.

- Keytruda has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Keytruda [prescribing information]. Whitehouse Station, NJ: Merck and Company, Inc.; August 2025.
2. Keytruda Qlex [prescribing information]. Rahway, NJ: Merck Sharp and Dohme LLC; September 2025.
3. National Comprehensive Cancer Network. Uterine neoplasms (Version 3.2025). 2025 March 7. Available at: https://www.nccn.org/professionals/physician_gls/pdf/uterine.pdf. Accessed on September 29, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4. National Comprehensive Cancer Network. Breast cancer (Version 4.2025). 2025 April 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on September 19, 2025.
5. National Comprehensive Cancer Network. Cutaneous melanoma (Version 2.2025). 2025 Jan 28. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on September 23, 2025.
6. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 8.2025). 2025 August 15. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on September 23, 2025.
7. National Comprehensive Cancer Network. Mesothelioma: pleural (Version 1.2026). 2025 Sept 19. Available at: https://www.nccn.org/professionals/physician_gls/pdf/meso_pleural.pdf. Accessed on September 24, 2025.
8. National Comprehensive Cancer Network. Head and neck cancers (Version 5.2025). 2025 August 12. Available at: https://www.nccn.org/professionals/physician_gls/pdf/head-and-neck.pdf. Accessed on September 24, 2025.
9. National Comprehensive Cancer Network. Hodgkin lymphoma (Version 2.2025). 2025 Jan 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hodgkins.pdf. Accessed on September 25, 2025.
10. National Comprehensive Cancer Network. B-cell lymphomas (Version 3.2025). 2023 Aug 18. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on September 29, 2025.
11. National Comprehensive Cancer Network. Bladder cancer (Version 1.2025). 2025 March 25. Available at: https://www.nccn.org/professionals/physician_gls/pdf/bladder.pdf. Accessed September 24, 2025.
12. National Comprehensive Cancer Network. Colon cancer (Version 4.2025). 2025 June 27. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on September 25, 2025.
13. National Comprehensive Cancer Network. Gastric cancer (Version 3.2025). 2025 August 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed on September 25, 2025.
14. National Comprehensive Cancer Network. Esophageal and esophagogastric junction cancers (Version 4.2025). 2025 August 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/esophageal.pdf. Accessed on September 25, 2025.
15. National Comprehensive Cancer Network. Cervical cancer (Version 4.2025). 2025 March 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cervical.pdf. Accessed on September 25, 2025.
16. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 1.2025). 2025 March 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hepatobiliary.pdf. Accessed on September 29, 2025.
17. National Comprehensive Cancer Network. Biliary tract cancers (Version 2.2025). 2025 July 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/btc.pdf. Accessed on September 29, 2025.
18. National Comprehensive Cancer Network. Merkle cell carcinoma (Version 1.2026). 2025 Sept 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mcc.pdf. Accessed on September 29, 2025.
19. National Comprehensive Cancer Network. Squamous cell skin cancer (Version 1.2026). 2025 Sept 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/squamous.pdf. Accessed on September 29, 2025.
20. National Comprehensive Cancer Network. Kidney cancer (Version 1.2026). 2025 July 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf. Accessed on September 29, 2025.
21. Robert C, Ribas A, Wolchok JD, et al. Anti-programmed-death-receptor-1 treatment with pembrolizumab in ipilimumab-refractory advanced melanoma: a randomised dose-comparison cohort of a phase 1 trial. Lancet. 2014 Sep 20 ;384 (9948): 1109 - 17.
22. Garon EB, Rizvi NA, Hui R, et al. Pembrolizumab for the treatment of non–small-cell lung cancer. NEJM. 2015; 372: 2018 – 28.
23. Robert C. Pembrolizumab versus ipilimumab in advanced melanoma. NEJM. 2015; 372: 2521 - 32.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

24. Kurzawski G, Suchy J, Debniak T, et al. Importance of microsatellite instability (MSI) in colorectal cancer: MSI as a diagnostic tool. Ann Oncol. 2004; 15 (Suppl 4): iv283 - 4.
25. Savage KJ. Primary mediastinal large b-cell lymphoma. The Oncologist. 2006; 11: 488 - 95.

Policy History		
#	Date	Change Description
3.1	Effective Date: 05/13/2026	UM medical management system update for BCBS, BCN, MAPPO, and BCNA Keytruda Qlex
3.0	Effective Date: 12/04/2025	Updated to include Keytruda Qlex. Name of the policy was changed from Keytruda to the Pembrolizumab Products Policy.
2.9	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to include the trial and failure of preferred products statement
2.8	Effective Date: 02/13/2025	Annual review of criteria was performed, no changes were made
2.7	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time
2.5	Effective Date: 02/10/2022	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 02/04/2021	Updated authorization periods to mirror the recommended treatment duration in the package insert
2.3	Effective Date: 12/01/2020	UM medical management system update for BCBS for Keytruda
2.2	Effective Date: 02/06/2020	Annual Review
2.1	Effective Date: 02/14/2019	New indication for hepatocellular carcinoma, update criteria to match FDA indication and NCCN recommendations.
2.0	Effective Date: 11/01/2018	Update criteria with new indications for: Metastatic nonsquamous NSCLC Locally advanced or metastatic urothelial carcinoma for: • Patients ineligible for cisplatin with PD-L1 ≥ 10

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		• Patients ineligible for platinum-based chemotherapy Recurrent or metastatic cervical cancer Refractory primary mediastinal large B-cell lymphoma (PMBCL)
1.9	Effective Date: 05/03/2018	Update criteria with new indication for Gastric Cancer
1.8	Effective Date: 02/12/2018	UM medical management system update for MAPPO and BCNA for Keytruda
1.7	Effective Date: 11/09/2017	Update criteria with new indication for Urothelial carcinoma and Microsatellite Instability-High Cancers
1.6	Effective Date: 08/10/2017	Update criteria with new indication for refractory or relapsed classical Hodgkin's Lymphoma
1.5	Effective Date: 05/04/2017	Update criteria with new indication for first line treatment in metastatic NSCLC
1.4	Effective Date: 02/09/2017	Update criteria with new indication for head and neck squamous cell carcinoma
1.3	Effective Date: 05/05/2016	Update criteria: First line therapy for metastatic melanoma
1.2	Effective Date: 02/11/2016	New Indication: NSCLC
1.1	Effective Date: 04/01/2015	UM medical management system update for HMO for Keytruda
1.0	Effective Date: 02/12/2015	New Drug Review

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Pertuzumab Products

Perjeta® (pertuzumab) **- HCPCS: J9306**
Poherdy® (pertuzumab-dpzb) **- HCPCS: J3590**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Perjeta is a HER2/neu receptor antagonist indicated for:

- Use in combination with trastuzumab and docetaxel for treatment of patients with HER2-positive metastatic breast cancer (MBC) who have not received prior anti-HER2 therapy or chemotherapy for metastatic disease.

- Use in combination with trastuzumab and chemotherapy as:

- Neoadjuvant treatment of patients with HER2-positive, locally advanced, inflammatory, or early stage breast cancer (either greater than 2 cm in diameter or node positive) as part of a complete treatment regimen for early breast cancer.

- Adjuvant treatment of patients with HER2-positive early breast cancer at high risk of recurrence.

- Per the 2022 National Comprehensive Cancer Network (NCCN) guidelines for breast cancer, patients are eligible for adjuvant HER2-directed treatment if they have HER2-positive breast cancer defined as:

1. Single probe average HER2 copy number greater than or equal to 6.0 signals/cell, OR
2. Dual probe HER2/CEP17 ratio greater than or equal to 2.0, OR
3. Dual probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell

- When used for adjuvant or neoadjuvant therapy, NCCN guidelines recommend use of Perjeta in combination with trastuzumab and either paclitaxel or docetaxel following doxorubicin and cyclophosphamide or in combination with docetaxel and carboplatin. Neoadjuvant therapy is given for up to 6 months and adjuvant therapy is given for up to 1 year.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- When used in metastatic disease, Pejeta should be given first-line in combination with trastuzumab and either docetaxel or paclitaxel per the NCCN guidelines. Perjeta can be used in subsequent lines of therapy in combination with trastuzumab with or without cytotoxic therapy. Treatment with Perjeta is recommended to continue indefinitely until disease progression or unacceptable toxicity.

- NCCN treatment guidelines also do not recommend use of Perjeta following a previous failure.

References:

1. Perjeta [prescribing information]. South San Francisco, CA: Genentech, Inc.; February 2021.
2. National Comprehensive Cancer Network. Breast cancer (Version 1.2025). 2025 Jan 31. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on February 17, 2025.
3. Baselga J, Gelmon KA, Verma S, et al. Pertuzumab plus trastuzumab plus docetaxel for metastatic breast cancer. NEJM. 2012; 366: 109 - 19.
4. Awada A, Bozovic-Spasojevic I, & Chowet L. New therapies in HER2-positive breast cancer: a major step towards a cure of the disease? Cancer Treat Rev. 2012 Aug; 38 (5): 494 - 504.
5. Perez EA & Spano JP. Current and emerging targeted therapies for metastatic breast cancer. Cancer. 2012 Jun 15; 118 (12): 3014 - 25.
6. Gianni L, Pienkowski T, Im YH, et al. Efficacy and safety of neoadjuvant pertuzumab and trastuzumab in women with locally advanced, inflammatory, or early HER2 positive breast cancer (NeoSphere): a randomized multicentre, open-label, phase 2 trial. Lancet Oncol. 2012; 13: 25 - 32.
7. Schneeweiss A, Chia S, Hickish T, et al. Pertuzumab plus trastuzumab in combination with standard neoadjuvant anthracycline-containing and anthracycline-free chemotherapy regimens in patients with HER2-positive early breast cancer: a randomized phase II cardiac safety study (TRYPHAENA). Ann Onc. 2013; 24: 2278 - 84.
8. Von Minckwitx G, Procter M, de Azambujaet E, et al. Adjuvant pertuzumab and trastuzumab in early HER2-positive breast cancer (APHINITY). NEJM. 2017; 377: 122 – 31.

Policy History		
#	Date	Change Description
2.5	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.3	Effective Date: 04/06/2023	Updated approval length to allow for no less than a 60 day approval duration
2.2	Effective Date: 04/14/2022	Updated authorization period to align with FDA dosing or NCCN guidelines for up to 6 months of therapy
2.1	Effective Date: 04/08/2021	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.0</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for PPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.9</td><td>Effective Date: 4/16/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.7</td><td>Effective Date: 05/09/2019</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.6</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/09/2018</td><td>Criteria update to include new indication for adjuvant therapy in early stage breast cancer</td></tr>
<tr><td>1.4</td><td>Effective Date: 11/09/2017</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 11/10/2016</td><td>Annual review of criteria was performed, no changes were made</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 04/01/2015</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/13/2014</td><td>Criteria update</td></tr>
<tr><td>1.0</td><td>Effective Date: 07/10/2012</td><td>New Policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Phesgo™ (pertuzumab, trastuzumab and hyaluronidase–zzxf)
HCPCS: J9316

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Herceptin®, Herceptin Hylecta™, trastuzumab biosimilars, and Perjeta are anti-HER2 monoclonal antibodies that bind to the HER2 receptor and inhibit proliferation of tumor cells that overexpress the receptor. Breast cancer is one tumor type that can be positive for the HER2 receptor. Herceptin, Herceptin Hylecta, trastuzumab biosimilars, and Perjeta have been studied in HER2 breast cancer and are guideline recommended for use.

- Phesgo is a combination product which includes the same active ingredients as Perjeta and Herceptin along with hyaluronidase. The hyaluronidase component increased permeability of the subcutaneous tissue which increases the absorption rate of the active ingredients when given simultaneously. It has been approved for the same breast cancer indications as Herceptin, Herceptin Hylecta, trastuzumab biosimilars, and Perjeta. The indications include use in combination with chemotherapy as neoadjuvant treatment of patients with HER2-positive, locally advanced, inflammatory, or early stage breast cancer (either greater than 2 cm in diameter or node positive); in combination with chemotherapy as adjuvant treatment of patients with HER2-positive early breast cancer at high risk of recurrence; and in combination with docetaxel for treatment of patients with HER2-positive metastatic breast cancer (MBC) who have not received prior anti-HER2 therapy or chemotherapy for metastatic disease. When used as neoadjuvant therapy, Phesgo should be given every 3 weeks preoperatively for 3 to 6 cycles. When used as adjuvant therapy, Phesgo should be given for a total of 52 weeks of therapy. When used in metastatic disease, treatment should continue indefinitely until unacceptable toxicity or disease progression.

- The National Comprehensive Cancer Network (NCCN) 2025 Breast Cancer guidelines support the use of the American Society of Clinical Oncology (ASCO)/College of American Pathologist (CAP) HER2 testing guidelines. The guidelines define tumors as HER2-positive when they meet any of the following: a single probe average HER2 copy number greater than or equal to 6.0 signals/cell, a dual-probe HER2/CEP17 ratio greater than or equal to 2.0, or a dual-probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell.

- NCCN guidelines category 1 recommendations are based on high levels of evidence and uniform concensus that the recommendation is appropriate. Category 2A recommenations are based on a lower level of evidence but still have NCCN uniform concensus the recommenations are appropriate. Category 2B and lower recommendtions are based on low levels of evidence and do no have concensus the recommendation is appropriate, therefore, these treatment regimens should only be used when all other options have been exhausted.

- Where guidelines recommend use in combination with other agents as part of a treatment regimen it should be administered as such. Studies have been completed to support use as combination therapy in these scenarios. There may be situations where Phesgo use as a single agent is warranted, for example, as a replacement for combination therapy of Perjeta and Herceptin. When recommended, Phesgo can be given as monotherapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Treatment guidelines do not recommend use of pertuzumab following a previous treatment failure. Due to Phesgo having pertuzumab as an active ingredient, it should not be used in situations where patients have failed a prior regimen containing pertuzumab.

References:

1. Phesgo [prescribing information]. South San Francisco, CA: Genentech, Inc.; November 2024.
2. Perjeta [prescribing information]. South San Francisco, CA: Genentech, Inc.; February 2021.
3. Herceptin [prescribing information]. South San Francisco, CA: Genentech, Inc.; February 2021.
4. Clinicaltrials.gov. A phase III, randomized, multicenter, open-label, two-arm study to evaluate the pharmacokinetics, efficacy, and safety of subcutaneous administration of the fixed-dose combination of pertuzumab and trastuzumab in combination with chemotherapy in patients with HER2-positive early breast cancer (NCT03493854). Available at: https://clinicaltrials.gov/ct2/show/NCT03493854?term=NCT03493854&draw=2&rank=1. Accessed on June 29, 2020.
5. Clinicaltrials.gov. A randomized, multicenter, open-label cross-over study to evaluate patient preference and satisfaction of subcutaneous administration of the fixed-dose combination of pertuzumab and trastuzumab in patients with HER2-positive early breast cancer (NCT03674112). Available at: https://clinicaltrials.gov/ct2/show/NCT03674112?term=NCT03674112&draw=2&rank=1. Accessed on June 29, 2020.
6. American Cancer Society. How common is breast cancer. 2020 Jan 8. Available at: https://www.cancer.org/cancer/breast-cancer/about/how-common-is-breast-cancer.html. Accessed on June 29, 2020.
7. National Comprehensive Cancer Network. Breast cancer (Version 1.2025). 2025 Jan 31. Available at: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed on February 24, 2026.

Policy History		
#	Date	Change Description
1.8	Effective Date: 04/16/2026	Annual review – no changes to the criteria at this time
1.7	Effective Date: 04/10/2025	Annual review – no changes to the criteria at this time
1.6	Effective Date: 04/11/2024	Annual review – no changes to the criteria at this time
1.5	Effective Date: 04/06/2023	Updated approval length to allow for at least a 60 day approval duration

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 08/04/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/12/2021</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.2</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 09/25/2020</td><td>UM medical management system update for BCN, MAPPO, and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2020</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

PiaSky® (crovalimab-akkz)
HCPCS: J1307

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- PiaSky is a complement C5 inhibitor indicated for the treatment of adult and pediatric patients 13 years and older with paroxysmal nocturnal hemoglobinuria (PNH) and body weight of at least 40 kg.

- Paroxysmal nocturnal hemoglobinuria is a rare acquired hematopoietic stem cell disorder in which red blood cells undergo cell lysis prematurely mediated by the alternative pathway of complement (APC). PNH arises due to a somatic mutation of the PIGA gene whose protein product is a glycosyl transferase. Glycosyl transferase is part of the biosynthetic pathway that generates glycosyl phosphatidylinositol (GPI) that serves as an anchor for membrane bound proteins on hematopoietic lineage cells. The mutation in PIGA results in a lack of glycosyl transferase activity and near-complete or complete absence of expression of all proteins that are GPI-anchored, including the complement inhibitory proteins CD55 and CD59. The deficiency of CD55 and CD59 cause the complement-mediated intravascular hemolysis characteristic of PNH.

- Phenotypic mosaicism of the peripheral blood is a characteristic feature of PNH and is based on quantitative differences in complement sensitivity. Cell complement sensitivity is divided into 3 types. PNH type I cells are defined by having normal sensitivity to complement-mediated lysis. PNH type II cells are moderately complement sensitive or 2 - 4 times more sensitive than normal. Finally, PNH type III cells are markedly complement sensitive or 15 - 25 times more sensitive than normal. Complement sensitivity varies greatly from patient to patient depending on their unique phenotypic mosaicism. Erythrocyte phenotype is clinically relevant as patients with primarily type II cells have a relatively benign clinical course. In contrast, those who have more type III cells, which are completely deficient in CD55 and CD59, will have a more severe clinical course due to increased complement-mediated hemolysis. There is no guideline recommended cutoff for when PNH can be diagnosed based on percentage of PNH type III cells.

- For patients with high disease activity, PNH complications increase significantly. High disease activity is defined as an elevated LDH greater than or equal to 1.5 times the upper limit of normal with constitutional symptoms of weakness, fatigue, hemoglobinuria, abdominal pain, dyspnea, hemoglobin less than 10 g/dL, dysphagia, and erectile dysfunction. Patients with an elevated LDH and at least one additional symptom should begin treatment with Piasky.

- Thrombolytic complications are the leading cause of morbidity and mortality in PNH. Acute thrombotic events require anticoagulation with heparin. If there is no contraindication, anticoagulation should continue indefinitely for a patient with PNH who has experienced a thromboembolic complication. Piasky should be initiated if a patient has experienced a thrombotic vascular event. For patients being treated with Piasky and no history of thromboembolic complications, prophylactic

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

anticoagulation may be unnecessary, although it is recommended that anticoagulation continue for those patients who experienced a thromboembolic event prior to initiating therapy with Piasky.

- PiaSky has been shown to decrease the number of blood transfusions required by patients and stabilize hemoglobin levels. It has been studied in patients with no transfusions in the 12 months prior to starting therapy, however, the median number of packed red blood cell (pRBC) units transfused in the 12 months prior to screening was 3.8 units.

- PiaSky has not been studied and there is no data to support use in combination with other medications used to treat PNH, such as, Ultomiris. However, for patients switching from Soliris or Ultomiris, Piasky's first intravenous loading dose should be administered no sooner than the time of the next scheduled complement inhibitor dose.

References:

1. Piasky [prescribing information]. South San Francisco, CA: Genentech, Inc.; June 2024.
2. Clinicaltrials.gov. A phase III study evaluating the efficacy and safety of crovalimab versus eculizumab in participants with paroxysmal nocturnal hemoglobinuria (PNH) not previously treated with complement inhibitors (NCT04434092). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04434092. Accessed on June 25, 2024.
3. National Organization for Rare Disorders. Paroxysmal nocturnal hemoglobinuria. 2024 May 29. Available at: https://rarediseases.org/rare-diseases/paroxysmal-nocturnal-hemoglobinuria/. Accessed on June 25, 2024.
4. Parker CJ. Update on the diagnosis and management of paroxysmal nocturnal hemoglobinuria. Hematology Am Soc Hematol Educ Program. 2016 Dec 2; 2016 (1): 208 - 16.
5. Brodsky, RA. Paroxysmal nocturnal hemoglobinuria. Blood. 2014 Oct 30; 124 (18): 2804 - 11.
6. Sahin F, Akay OM, Ayer M, et al. Pesg PNH diagnosis, follow-up and treatment guidelines. Am J Blood Res. 2016; 6 (2): 19 – 27.
7. Borowitz MJ, Craig FE, DiGiuseppe JA, et al. Guidelines for the diagnosis and monitoring of paroxysmal nocturnal hemoglobinuria and related disorders by flow cytometry. Cytometry Part B (Clinical Cytometry). 2010; 78B: 211 – 30.
8. Luzzatto L & Gianfaldoni G. Recent advances in biological and clinical aspects of paroxysmal nocturnal hemoglobinuria. International J Hematology. 2006; 84: 104 - 12.
9. Hill A, Kelly RJ, & Hillmen P. Thrombosis in paroxysmal nocturnal hemoglobinuria. Blood. 2013; 121 (25): 4985 - 96.
10. Cançado RD, Araújo A da S, Sandes AF, et al. Consensus statement for diagnosis and treatment of paroxysmal nocturnal haemoglobinuria. Hematol Transfus Cell Ther. 2021; 43 (3): 341 - 8.

Policy History		
#	Date	Change Description
1.3	Effective Date: 08/13/2026	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/08/2024</td><td>New Policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 07/11/2024</td><td>UM medical management system update for BCBS and BCN for Piasky
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Pluvicto™ (lutetium Lu 177 vipivotide tetraxetan)
HCPCS: A9607

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Pluvicto is a targeted radioligand therapy (RLT) for the treatment of adult patients with PSMA-positive metastatic castration-resistant prostate cancer (mCRPC) who have been treated with androgen receptor (AR) pathway inhibition and are considered appropriate to delay taxane-based chemotherapy or have received prior taxane-based chemotherapy.

- The 2026 National Comprehensive Cancer Network (NCCN) treatment guidelines for prostate cancer state castrate-resistant prostate cancer is defined as prostate cancer that progresses clinically, radiographically, or biochemically despite castrate levels of serum testosterone of less than 50 ng/dL. Any increase in prostrate specific antigen or the development of or worsening of exisiting bone metastasis while the patient has a testosterone level less than 50 ng/dL would be considered resistant.

- Safety and efficacy were evaluated in the VISION trial, an international, open-label, phase III study of 831 patients with mCRPC exhibiting disease progression after treatment with one or more androgen-receptor pathway inhibitor and one or two taxane regimens. Subjects were randomized to either standard care plus Pluvicto (every 6 weeks for 4-6 cycles) or standard care alone. Patients must have had at least 1 PSMA-positive metastatic lesion and no PSMA-negative lesions as determined using a ^{68}Ga-PSMA-11 PET/CT. PSMA-negative lesions were defined as metastatic disease that lacked PSMA uptake including bone with soft tissue components greater than 1.0 cm, lymph nodes greater than 2.5 cm in short axis, solid organ metastases greater than 1.0 cm in size. Standard care therapies included hormonal treatment (ie, abiraterone and enzalutamide), bisphosphonates, radiation therapy, denosumab or glucocorticoids and excluded chemotherapy, radioisotopes and immunotherapy. Primary endpoints included radiographic progression-free survival (rPFS) and overall survival (OS). At a median follow-up of 20.9 months, rPFS was 8.7 months in the Pluvicto group vs 3.4 months in the control group ($p < 0.001$). Median OS was 15.3 months in the Pluvicto group vs 11.3 months in the control group ($p < 0.001$).

- NCCN guidelines recommend multiple first-line hormonal-ablative therapies for use in prostate cancer. All these therapies are category 1 and none are preferred over the other when making treatment decisions. All of these therapies should be tried to control the spread of prostate cancer and maintain the patient's testosterone level below 50 ng/dL. If patients progress on androgen deprivation therapy, guidelines recommend treatment with docetaxel every 3 weeks for those with mCRCP.

References:

1. Pluvicto [prescribing information]. Millburn, NJ: Advanced Accelerator Applications USA, Inc.; June 2025.
2. Sartor O, de Bono J, Chi KN, et al. Lutetium-177-PSMA-617 for metastatic castration-resistant prostate cancer. NEJM. 2021 Sep 16; 385 (12): 1091 - 103.
3. National Comprehensive Cancer Network. Prostate cancer (Version 5.2026). 2026 Jan 23. Available at: https://www.nccn.org/professionals/physician_gls/pdf/prostate.pdf. Accessed on March 4, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 06/01/2026

P&T Date: 04/16/2026</td><td>Updated the authorization period to align with FDA recommended or guideline supported treatment duration and provided for at least 60 days and up to 6 months at a time</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/05/2025</td><td>Updated to allow use for the new indication of metastatic castration-resistant prostate cancer in patients who can be considered for delated taxane-based chemotherapy</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/10/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 09/19/2022</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/04/2022</td><td>New Policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Poteligeo® (mogamulizumab-kpkc intravenous injection)
HCPCS: J9204

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Poteligeo is a CC chemokine receptor type 4 (CCR4)-directed monoclonal antibody indicated for the treatment of adult patients with relapsed or refractory mycosis fungoides (MF) or Sézary syndrome (SS) after at least one prior systemic therapy.
- Efficacy was established in the MAVORIC study, a phase III, open-label, randomized trial of 372 patients with adult patients with MF or SS after at least one prior systemic therapy. Patients were included if they had a ECOG performance score less than or equal to 1. Patients were randomized to receive either Poteligeo monotherapy at a dose of 1 mg/kg on days 1, 8, 15, and 22 of the first 28-day cycle and on days 1 and 15 of each subsequent cycle. or oral vorinostat capsules at a dose of 400 mg daily. Treatment was continued until unacceptable toxicity or disease progression. Compared with the vorinostat group, the median progression-free survival (PFS) was significantly longer for patients in the Poteligeo group: 7.7 months (95% confidence interval [CI]: 5.7, 10.3) for the Poteligeo group vs. 3.1 months (95% CI: 2.9, 4.1) for the vorinostat group (p-value < 0.0001). The proportion of patients who achieved an overall response was also significantly higher in the Poteligeo group compared with the vorinostat group (28% vs. 5%, respectively; p-value < 0.001).
- Poteligeo has not been studied for use in combination with other therapies to treat MF or SS and should be used as monotherapy only.
- There are no studies to support use of Poteligeo following failure of its use. National Comprehensive Cancer Network 2026 primary cutaneous lymphoma guidelines also do not recommend use of Poteligeo or any other CCR4-directed monoclonal antibodies following a previous failure.

References:

1. Poteligeo [prescribing information]. Bedminister, NJ: Kyowa Kirin; January 2025.
2. National Comprehensive Cancer Network. Cutaneous lymphomas (Verion 2.2026). 2026 Feb 13. Available at: https://www.nccn.org/professionals/physician_gls/pdf/primary_cutaneous.pdf. Accessed on February 24, 2026.
3. Duvic M, Pinter-Brown LC, Foss FM, et al. Phase 1/2 study ofmogamulizumab, a defucosylated anti-CCR4 antibody, in previously treated patients with cutaneous T-cell lymphoma. Blood. 2015; 125: 1883–89.
4. Kim YH, Bagot M, Pinter-brown L, et al. Mogamulizumab versus vorinostat in previously treated cutaneous T-cell lymphoma (MAVORIC): an international, open-label, randomised, controlled phase 3 trial. Lancet Oncol. 2018; 19 (9): 1192 - 1204.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.1</td><td>Effective Date: 04/16/2026</td><td>Updated to include the trial and failure of preferred products statement</td></tr>
<tr><td>2.0</td><td>Effective Date: 04/10/2025</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.9</td><td>Effective Date: 04/11/2024</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.8</td><td>Effective Date: 04/06/2023</td><td>Updated approval length to allow for no less than a 60 day approval duration</td></tr>
<tr><td>1.7</td><td>Effective Date: 10/06/2022</td><td>Updated approval length to allow for FDA recommended dosing or up to 6 months at a time</td></tr>
<tr><td>1.6</td><td>Effective Date: 10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.4</td><td>Effective Date: 10/08/2020</td><td>Updated to only allow for 6 months on renewal</td></tr>
<tr><td>1.3</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 11/07/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/01/2019</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/01/2018</td><td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Proprotein Convertase Subtilisin/Kexin Type 9 (PCSK9) Inhibitors

Leqvio® (inclisiran) **- HCPCS: J1306**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Proprotein convertase subtilisin/kexin type 9 (PCSK9) is a protein that targets LDL receptors for degradation and reduces the liver's ability to remove circulating LDL from the blood. Elevated levels of circulating PCSK9 are associated with elevated levels of low-density lipoprotein cholesterol (LDL-C) and consequently worsened cardiovascular outcomes. Inhibitors of PCSK9 bind to circulating PCSK9 and prevent it from binding to and degrading LDL receptors on the liver surface, resulting in more LDL receptors to remove circulating LDL from the blood.

- The first two fully human monoclonal antibodies to PCSK9 to have been approved by the FDA to treat patients with inadequately treated levels of LDL-C were Repatha (evolocumab) and Praluent (alirocumab). Both work by binding to circulating PCSK9 and preventing it from binding to and degrading LDL receptors on the liver surface, resulting in more LDL receptors to remove circulating LDL from the blood. Praluent and Repatha have been shown to lower LDL-C by up to 60% in patients on concurrent statin therapy and additionally have demonstrated cardiovascular outcomes benefits. Both products are approved for the following indications:

    - To reduce the risk of major adverse cardiovascular events (e.g., stroke, myocardial infarction, unstable angina) in adults at increased risk for these events with established cardiovascular disease

    - As an adjunct to diet and exercise to reduce LDL-C in adults with hypercholesterolemia, heterozygous familial hypercholesterolemia (HeFH), and homozygous familial hypercholesterolemia (HoFH)

        - Repatha is also approved for pediatric patients 10 years of age and older with HeFH, and Praluent for pediatric patients 8 years of age and older with HeFH

        - Repatha is also approved for use in pediatric patients 10 years of age and older with HoFH. Praluent lacks a pediatric indication HoFH.

- The most recent additions to the PCSK9 inhibitor class are Leqvio (inclisiran), the first small interfering RNA (siRNA) therapy directed to PCSK9 mRNA, and Lerochol (lerodalcibep-liga),a recombinant fusion protein that binds PCSK9. Both have been approved as an adjunct to diet and exercise to reduce LDL-C in the following populations:

    - Lerochol - adults with hypercholesterolemia, including HeFH.

    - Leqvio - adults with hypercholesterolemia; adults and pediatric patients 12 years and older with HeFH; pediatric patients aged 12 years and older with HoFH.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Unlike Praluent and Repatha, Leqvio utilizes the RNA interference mechanism to inhibit hepatic synthesis of PCSK9. In doing so, LDL receptor recycling and expression on the liver surface increase, thereby increasing LDL-C uptake by hepatocytes and consequently lowering the levels in circulation. In clinical trials Leqvio has demonstrated comparable LDL-C lowering potency to Praluent and Repatha. Leqvio's effect on cardiovascular outcomes has yet to be determined. The ORION-4 and CITORION-2P cardiovascular outcomes trials with Leqvio are underway and expected to be completed in 2026 and 2027, respectively; results are expected to be comparable to Praluent and Repatha.

- All four products are administered as subcutaneous injections. With regard to administration and dosing frequency Praluent and Repatha are similar; both products can be self-administered and are dosed every two weeks or every month. Lerochol is self-administered once every month via subcutaneous injection via a single small-volume injection with extended room temperature stability. Leqvio, however, is intended for administration by a healthcare professional only and is administered every six months after an initial dose titration. Less frequent dosing and a required office visit could potentially yield better adherence with Leqvio compared to the self-administered alternatives.

- Combination use of more than one PCSK9 inhibitor has not been evaluated, and in clinical trials for Leqvio patients who were taking Praluent and/or Repatha were excluded from participating. Therefore, the use of any of the PCSK9 inhibitors in combination is not supported by evidence.

- The American College of Cardiology (ACC) at present in their 2022 Expert Consensus Decision Pathway on the Role of Nonstatin Therapies for LDL-C Lowering prefers PCSK9 monoclonal antibodies (i.e., Repatha, Praluent) as the initial PCSK9 inhibitor of choice in light of the demonstrated efficacy, safety, and cardiovascular outcomes benefits seen in the FOURIER and ODYSSEY Outcomes trials; however, those with poor adherence to PCSK9 monoclonal antibodies, adverse effects from PCSK9 monoclonal antibodies, or those unable to self-inject may be considered for use of Leqvio. Use of the product(s) with the lowest net cost provides the greatest value.

- Patients with clinical atherosclerotic cardiovascular disease (ASCVD) include those with a history of MI, stable or unstable angina, coronary or other arterial revascularization, stroke, TIA, or PAD (including aortic aneurysm), all of atherosclerotic origin. These patients with established cardiovascular disease are at high risk of a cardiovascular disease event. Those with a history of multiple major ASCVD events or one major ASCVD event and multiple high-risk conditions (i.e. age $\geq$ 65 years old, HeFH, diabetes mellitus, hypertension, chronic kidney disease, current smoking, LDL-C $\geq$ 100 mg/dL despite maximally tolerated statin therapy and ezetimibe, history of congestive heart failure, history of prior coronary artery bypass surgery or percutaneous coronary intervention outside of the major ASCVD event(s)) are considered very-high risk for future ASCVD events. Therapy to reduce the risk of subsequent events is known as secondary prevention.

- Patients presenting with severe primary hypercholesterolemia (LDL $\geq$ 190 mg/dL), including those with familial hypercholesterolemia (FH), have a high risk of ASCVD and premature/recurrent coronary events. Regardless of whether LDL-C levels $\geq$ 190 mg/dL are found to have a genetic mutation associated with FH, those patients with very high LDL-C are most likely to achieve the greatest benefit both in LDL-C reduction and ASCVD risk reduction from evidence based LDL-C-Lowering therapy.

- FH is an autosomal dominant genetic disease caused by functional mutations in the LDLR, APOB, or PCSK9 genes, and is characterized by lifelong elevations of LDL-C that if left untreated leads to early-onset atherosclerosis and risk of cardiovascular events. Mutations in the LDLR gene are the most common causes of FH, accounting for 85%-90% of genetically confirmed cases. Diagnosis of FH should be considered in children presenting with persistently elevated LDL-C > 160 mg/dL, adults with LDL-C >190 mg/dL, and in all patients with early coronary artery disease. In the absence of confirmatory genetic testing, FH can be diagnosed using clinical criteria; commonly

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

used diagnostic tools for the diagnosis of FH include the US Make Early Diagnosis to Prevent early Death (MEDPED) criteria, the UK Simon Broome system, and the Dutch Lipid Clinic Network criteria. Though the tools differ from one another, their predictive values are comparable.

- The incidence of HeFH in the United States is approximately 1 in 500. The Dutch Lipid Clinic Network criteria provide the most detailed assessment of the likelihood of a diagnosis of HeFH and includes the following parameters to confirm diagnosis:
    - An untreated LDL of ≥ 190 mg/dL (or ≥ 160 mg/dL in patients under 16 years of age) and at least one of the following:
        - Family history of a first or second degree relative with FH.
        - Family history of tendinous xanthoma(s) in 1st or 2nd degree relative and/or arcus cornealis in 1st degree relative
        - History of 1st degree relative with known premature coronary and vascular disease (i.e., < 55 years old in men, and < 60 years old in women)
        - Physical signs of FH such as the presence of tendon xanthomas in the patient, premature corneal arcus, premature tuberous xanthomas, or premature xanthelasma.
        - Presence of a mutation causing FH by DNA testing (e.g. mutation in LDLR, APOB, PCSK9).
- The UK Simon Broome System criteria differs from the Dutch Lipid Clinic Network in that the presence of a positive genetic test alone is sufficient to definitively diagnose familial hypercholesterolemia. Additional parameters to aid in the diagnosis of HeFH under the Simon Broome system include an LDL > 190 mg/dL and at least one of the following:
    - Tendon xanthoma in the patient or a 1st or 2nd degree relative
    - Presence of mutations in the LDLR, APOB, or PCSK9 gene
    - Family history of MI in a 2nd degree relative under 50 years old or a 1st degree relative under 60 years old
    - Family history of total cholesterol > 290 mg/dL in a 1st or 2nd degree relative.
- HoFH is ultra-rare affecting approximately 1,300 patients in the United States. Genetic mutations primarily affect the LDLR gene, resulting in virtually absent or impaired receptor-mediated catabolism of LDL-C and leading to severely elevated LDL-C levels (> 400 mg/dL) and a lack of responsiveness to standard lipid-lowering therapies. Diagnosis can be made via genetic testing for causative mutations in the LRLR, APOB, and PCSK9 genes, or clinically in patients with an untreated LDL-C of >500 mg/dL (or treated LDL-C ≥ 300 mg/dL) and one of the following: cutaneous or tendon xanthoma prior to 10 years of age, or elevated LDL-C levels in both parents consistent with HeFH. Untreated LDL-C < 500 mg/dL may be present in some patients with HoFH, particularly in young children, and would warrant genetic testing to clarify or confirm

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

diagnosis. More recently, a rare autosomal recessive form of FH has been identified that is caused by mutations in the LDLRAP1 (also known as the ARH) gene. Though coined autosomal recessive hypercholesterolemia, this condition is considered as a form of HoFH and should be treated as such.

- LDL-C is a primary cause of atherosclerosis and a major risk factor for ASCVD. Randomized controlled trials of cholesterol lowering therapies have consistently demonstrated that LDL-C lowering reduces the risk of ASCVD. Generally speaking, lowering LDL-C levels by 1% yields an approximately 1% reduction in ASCVD risk, though this percent risk reduction may be slightly more or less at higher and lower baseline LDL-C levels, respectively.

- Statins are the cornerstone of pharmacologic therapy for lowering LDL-C both as primary and secondary ASCVD prevention. Statin therapy is divided into three categories by intensity, with atorvastatin, rosuvastatin, and simvastatin being the primary statin medications used in clinical practice.

	High Intensity	**Moderate Intensity**	**Low Intensity**
LDL-C Lowering	≥ 50%	30-49%	<30%
Statins**	Atorvastatin° 40mg, 80mg Rosuvastatin* 20mg, 40mg	Atorvastatin° 10mg, 20mg Rosuvastatin* 5mg, 10mg Simvastatin° 20-40mg Pravastatin* 40mg, 80mg Lovastatin° 40mg, 80mg Fluvastatin° XL 80mg Fluvastatin° 40mg BID Pitavastatin° 1-4mg	Simvastatin° 10mg Pravastatin* 10-20mg Lovastatin° 20mg Fluvastatin° 20-40mg

*Hydrophilic statin
°Lipophilic statin

**Hydrophilic statins have greater hepatoselectivity and less influence on smooth muscle proliferation than lipophilic statins, which diffuse nonselectively into extrahepatic tissues such as the muscle and may therefore be more likely to cause myopathy.

- The 2022 ACC Expert Consensus Decision on the Role of Nonstatin Therapies for LDL-C Lowering recommends treatment with a maximally tolerated statin to lower LDL-C by ≥ 50% to a goal LDL-C level of <55 mg/dL for secondary prevention of ASCVD or <70 mg/dL for adults without clinical ASCVD and with severe hypercholesterolemia, including FH. Treatment with high-intensity or maximally tolerated statins has demonstrated reduced ASCVD risk in both primary and secondary prevention trials, in addition to reduced risk of myocardial infarction, coronary heart disease, and all-cause death with phenotypically or genetically confirmed FH. Peak changes in LDL-C levels are generally seen between 4 and 12 weeks after initiating therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- If with a high-intensity statin the patient experiences statin-associated side effects that are not severe (e.g., myalgias), the statin dose can be reduced or alternate statins can be trialed with the ultimate goal of treating with a guideline-recommended maximally tolerated statin.

    - There are a variety of generically available statins that can be dosed at different intensities or dosing regimens to help mitigate bothersome side effects; therefore, it is reasonable to require a trial of at least two statins in patients experiencing statin-associated side effects.

    - Patients who experience more severe side effects with statin therapy (e.g. rhabdomyolysis) or recurrent statin-associated muscle symptoms despite multiple statin rechallenge attempts may need to discontinue statin use and transition to non-statin therapy that has been shown to provide clinical benefit.

- If maximally tolerated statin therapy fails to reduce LDL-C by at least 50% and/or the LDL-C level remains above goal, the 2022 ACC Expert Consensus Decision Pathway on the Role of Non-Statin Therapies for LDL-C lowering recommends considering adding either ezetimibe or a PCSK9 monoclonal antibody as the initial non-statin therapy. Preference of which agent to add may be influenced by the desired amount of LDL-C-lowering. ACC/AHA guidelines suggest that additional ASCVD risk reduction can be derived by adding ezetimibe to statin therapy, which can lower LDL-C by an additional 13-20%, and placebo-controlled randomized clinical trials have demonstrated favorable safety profiles and additional LDL-C reduction ranging from 43-64% with PCSK9 inhibitors in patients on maximally tolerated statin therapy. If additional LDL-C lowering is required after addition of a single non-statin agent (ezetimibe or PCSK9 monoclonal antibody) to statin therapy, a second evidence-based non-statin agent should be considered (e.g., ezetimibe + PCSK9 monoclonal antibody).

- If additional LDL-C lowering is warranted despite maximally tolerated statin therapy, ezetimibe, and a PSK9 monoclonal antibody, the addition of bempedoic acid may be considered, or the PCSK9 monoclonal antibody may be replaced with inclisiran. There is no cardiovascular outcomes data available at this time for inclisiran. For persistent severe hypercholesterolemia where drug therapy fails to adequately control LDL-C, such as in the case of HoFH, specialized therapies such as evinacumab, lomitapide, or LDL apheresis may be necessary to control LDL-C and referral to a lipid specialist may be indicated. Of note, the safety and efficacy of the concurrent use of lomitapide with PCSK9 inhibitors like Repatha and Praluent for the treatment of HoFH has not been established.

- For children and adolescents 10 years of age and older with an LDL-C $\geq$ 190 mg/dL or $\geq$ 160 mg/dL with a clinical presentation consistent with FH who fail to respond adequately to 3 to 6 months of lifestyle therapy, the 2018 guidelines suggest initiation of statin therapy. Statin treatment intensity in children is not specified in the guidelines as it should be individualized to the child based on the severity of hypercholesterolemia and the needs of the child/family. Use of non-statin therapies to further treat persistently elevated LDL-C in children is not addressed in the guidelines; however, for children with HoFH Repatha may be a reasonable next step for children and adolescents who require additional LDL-C lowering since it is approved by the FDA for use in pediatric patients 10 years of age and older with HoFH in combination with diet and other LDL-C lowering therapies. Praluent, however, is only approved for adult patients with HoFH.

References:

1. Bouhairie VE and Goldberg AC. Familial Hypercholesterolemia. Cardiol Clin. 2015 May; 33(2): 169-179. doi: 10.1016/j.ccl.2015.01.001.
2. Cuchel M, et al. 2023 Update on European Atherosclerosis Society Consensus Statement on Homozygous Familial Hypercholesterolaemia: new treatments and clinical guidance. European Heart Journal (2023) 44, 2277-2291. https://doi.org/10.1093/eurheartj/ehad197
3. De Ferranti SD. Familial hypercholesterolemia in children. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4. Grundy SM, et al. 2018 AHA/ACC/AACVPR/AAPA/ABC/ACPM/ADA/AGS/APhA/ASPC/NLA/PCNA Guideline on the Management of Blood Cholesterol: A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines. JACC Vol. 73, No. 24. 2019: e285-e350. https://doi.org/10.1016/j.jacc.2018.11.003.
5. Harada-Shiba M, et al. Guidelines for the Diagnosis and Treatment of Adult Familial Hypercholesterolemia 2022. J Atheroscler Thromb, 2023; 30: 558-586. https://doi.org/10.5551/jat.CR005
6. Leqvio [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals Corporation; July 2025.
7. Lerochol [prescribing information]. Cincinnati, OH: LIB Therapeutics, Inc.; December 2025.
8. Lloyd-Jones D, Morris P, et al. 2022 ACC Expert Consensus Decision Pathway on the Role of Nonstatin Therapies for LDL-Cholesterol Lowering in the Management of Atherosclerotic Cardiovascular Disease Risk. J Am Coll Cardiol. 2022 Oct, 80 (14) 1366–1418. https://doi.org/10.1016/j.jacc.2022.07.006
9. McGowan MP, et al. Diagnosis and Treatment of Heterozygous Familial Hypercholesterolemia. Journal of the American Heart Association. 2019; 8:e013225.
10. Praluent [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals Inc; October 2025.
11. Raal FJ et al. Familial hypercholesterolemia treatments: Guidelines and new therapies. Atherosclerosis 277 (2018) 483-492.
12. Repatha [prescribing information]. Thousand Oaks, CA: Amgen Inc; August 2025.
13. Rosenson RS and Durrington P. Familial hypercholesterolemia in adults: Overview. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.
14. Rosenson RS and Durrington P. Familial hypercholesterolemia in adults: Treatment. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.
15. Rosenson RS, Hayward RA, and Lopa-Sendon J. Management of low density lipoprotein cholesterol (LDL-C) in the secondary prevention of cardiovascular disease. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2021.

Policy History		
#	Date	Change Description
1.9	Effective Date: 04/16/2026	Updated supporting information to include Leqvio's new indications for pediatric patients 12 years of age and older with heterozygous familial hypercholesterolemia or homozygous familial hypercholesterolemia. No criteria changes were made.
1.8	Effective Date: 02/12/2026	Added Lerochol to the policy For Medicare benefit ASCVD, primary hyperlipidemia, and HeFH criteria: changed required LDL values while on a high intensity statin from ≥ 70 mg/dL and ≥ 100 mg/dL to ≥55 mg/dL and ≥ 70 mg/dL, respectively For Medicare benefit HoFH criteria: removed requirement that requested drug not be used in combination with Juxtapid (lomitapide)
1.7	Effective Date: 12/04/2025	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 12/12/2024	Added criteria for Praluent and Repatha specific to Medicare to the policy
1.5	Effective Date: 12/14/2023	Annual review of criteria performed; no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 12/01/2022</td><td>Added criteria preventing use of PCSK9 inhibitors in combination with one another</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/09/2022</td><td>Removed criteria requiring trial and failure of Repatha or Praluent for Leqvio;will utilize trial and failure of preferred criteria (bullet f) instead for flexibility</td></tr>
<tr><td>1.2</td><td>Effective Date: 03/01/2022</td><td>Removed criteria requiring t/f of Repatha or Praluent for Leqvio;will utilize t/f of preferred criteria (bullet f) instead for flexibility

UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/17/2022</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/10/2022</td><td>Update to include Leqvio

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Pulmonary Arterial Hypertension Products

Flolan® (epoprostenol) **- HCPCS: J1325**
Remodulin® (treprostinil) **- HCPCS: J3285**
Tyvaso® (treprostinil) **- HCPCS: J7686**
Uptravi® (selexipag) **- HCPCS: J3490**
Veletri® (epoprostenol) **- HCPCS: J1325**
Winrevair™ (sotatercept-csrk) **- HCPCS: J3590**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- FDA approved indications for medications covered in this policy:
  - Epoprostenol: A prostacyclin vasodilator indicated for the treatment of PAH (WHO Group I) to improve exercise capacity. Studies establishing effectiveness included predominantly patients with New York Heart Association (NYHA) Functional Class III-IV symptoms and etiologies of idiopathic or heritable PAH or PAH associated with connective tissue diseases.
  - Treprostinil: A prostacyclin vasodilator indicated for:
    - Treatment of PAH (WHO Group 1) to diminish symptoms associated with exercise. Studies establishing effectiveness included patients with NYHA Functional Class II-IV symptoms and etiologies of idiopathic or heritable PAH (58%), PAH associated with congenital systemic-to-pulmonary shunts (23%), or PAH associated with connective tissue diseases (19%).
    - Patients who require transition from epoprostenol, to reduce the rate of clinical deterioration. The risks and benefits of each drug should be carefully considered prior to transition.
  - Uptravi: A prostacyclin receptor agonist indicated for the treatment of PAH (WHO Group 1) in adults to delay disease progression and reduce the risk of hospitalization for PAH, and in pediatric patients aged 2 years and older. Uptravi reduces NT-proBNP and is expected to delay disease progression and reduce the risk of hospitalization for PAH.
  - Winrevair: An activin signaling inhibitor indicated for the treatment of adults with pulmonary arterial hypertension (PAH, WHO Group 1) to increase exercise capacity, improve WHO functional class (FC) and reduce the risk of clinical worsening events.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- CHEST 2019 guideline-supported therapies for WHO Functional Class II and III include: sildenafil, tadalafil, ambrisentan, bosentan, macitentan, riociguat, treprostinil inhalation, and iloprost inhalation

.

- Additional CHEST 2019 guideline-supported therapies for WHO Functional Class III and IV include: epoprostinil IV and treprostinil IV/SQ, and in those who cannot use IV/SQ, treprostinil inhalation and iloprost inhalation.

- PDE5Is and ERAs are clinically effective guideline-supported therapies that have wide utility per CHEST guideline recommendations and are cost-effective as they are available as generics.

- Opsumit (macitentan) has no clinical advantages over ambrisentan and bosentan at this time, as all three ERAs are now FDA-approved to prevent disease progression and clinical worsening. Ambrisentan and bosentan are more cost-effective therapies as they are available generically.

- CHEST 2019 guidelines suggest initial monotherapy with ERA, PDE5I, or Adempas (riociguat) for treatment of WHO functional class II or III, and suggest adding a second class if inadequate response to initial monotherapy.

- CHEST 2019 guidelines suggest adding a third drug class in WHO Class III or IV with deterioration.

- CHEST 2019 guidelines suggest inhaled prostacyclins (Tyvaso (treprostinil), Ventavis (iloprost)) for WHO Class III after failure of one or two classes of oral agents.

- The 2022 European Society of Cardiology (ESC) / European Respiratory Society (ERS) clinical guidelines recommend initial combination therapy of an ERA and a PDE5I for patients with idiopathic PAH, heritable drug-associated PAH, or PAH-associated with connective tissue disease without cardiopulmonary comorbidities at low or intermediate risk.

- Cross benefit opportunities may exist to step on drugs on the medical benefit for prostacyclin drugs per guidelines, as SQ/IV therapy is preferred to inhalation for WHO Class III and WHO Class IV. Prostacyclin SQ/IV medications may be more cost-effective; however, they require more complex administration. Further investigation is warranted.

- Uptravi (selexipag) and Orenitram ER (treprostinil tablets) were found to have insufficient clinical evidence to support a guideline recommendation per the CHEST 2019 guidelines. Utilization of guideline-supported agents is promoted by step therapy.

- Per package labeling, in Uptravi (selexipag) clinical trials at baseline, 80% of patients were being treated with a stable dose of an ERA (15%), a PDE5I (32%), or both (33%).

- Per FDA label, Adempas (riociguat) should not be used in combination with a PDE5I.

- Pulmonary hypertension (PH) with interstitial lung disease and pulmonary fibrosis can be treated with IV or inhaled treprostinil. PDE5Is have shown little or no benefit in these patients. ERAs, specifically ambrisentan, have been shown to be ineffective and associated with adverse effects in patients with PH while bosentan and macitentan are ineffective in idiopathic pulmonary fibrosis (IPF) but have not been tested in IPF-associated PH.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Uptravi's prospective, multicenter, open-label, single-sequence, cross-over, Phase III study showed the safety, tolerability and pharmacokinetics of temporarily switching between oral Uptravi and Uptravi IV in 20 patients. Patients who were stable on oral Uptravi switched to IV Uptravi for three infusions including the morning and evening dose on Day 1, and morning dose of Day 2 before switching back to the oral formulation in the evening of Day 2.

- Winrevair's Phase III STELLAR trial showed improvement compared to placebo in the 6-minute talk distance of 41 meters at week 24. In this study most participants were receiving either three (61%) or two (35%) background drugs for PAH, and 40% were receiving prostacyclin infusions.

- Dosage modifications of Winrevair due to increased hemoglobin (Hgb) and decreased platelets may be necessary. Hgb and platelets should be checked before each dose for the first 5 doses, or longer if values are unstable, and should be monitored periodically thereafter. Winrevair is intended for use under the guidance of a healthcare professional. Patients and caregivers may administer Winrevair when considered appropriate and when they receive training and follow-up from the healthcare provider on how to reconstitute, prepare, measure, and inject Winrevair. Clinical reasons a patient may be unable to self-administer Winrevair include but are not limited to:

  - Patient or caregivers are unable to perform subcutaneous injections with proper technique

  - Member requires monthly medical support from the physician

- Merck will be using two specialty pharmacies to dispense Winrevair in the United States: Accredo Health Group, Inc. and CVS Specialty. Merck has chosen this limited specialty pharmacy network to most efficiently provide access and support to patients. Accredo and CVS Specialty will be supporting patients and physicians by providing education and training for self-administration of Winrevair.

References:

1. Micromedex. DrugDex. Accessed 9/14/2020 www.micromedex.com
2. Revatio Prescribing Information. New York, NY: Pfizer Labs. April 2020.
3. Adcirca Prescribing Information. Indianapolis, IN: Eli Lilly. August 2020.
4. Tracleer Prescrbing Information. South San Francisco, CA: Actelion Pharmaceuticals. July 2021.
5. Letairis Prescribing Information. Foster City, CA: Gilead Sciences. August 2019.
6. Opsumit Prescribing Information. South San Francisco, CA: Actelion Pharmaceuticals. October 2021.
7. Uptravi Prescribing Information. South San Francisco, CA: Actelion Pharmaceuticals October 2021.
8. Adempas Prescribing Information. Whippany, NJ: Bayer HealthCare. September 2021.
9. Orenitram ER Prescribing Information. Research Triangle Park, NC; United Therapeutics Corp. May 2021.
10. Tyvaso Prescribing Information. Research Triangle Park, NC; United Therapeutics Corp. March 2021.
11. Tyvaso DPI Prescribing Information. Research Triangle Park, NC; United Therapeutics Corp. May 2022.
12. Ventavis Prescribing Information. Titusville, NJ: Actelion Pharmaceuticals. March 2022.
13. Tadliq (tadalafil) [Prescribing Information]. Farmville, NC; CMP Pharma, Inc. June 2022.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

14. Liqrev [prescribing information]. Farmville, NC; CMP Pharma, Inc. April 2023.
15. Opsynvi [prescribing information]. Titusville, NJ. Actelion Pharmaceuticals. March 2024.
16. Winrevair [prescribing information]. Rahway, NJ. Merck & Co. March 2024.
17. Yutrepia [prescribing information].Morrisville, NC. Liquidia Technologies, Inc. June 2025
18. Klinger, et al. PAH WHO Group 1 CHEST Guidelines 2019. CHEST, 2019. https://journal.chestnet.org/article/S0012-3692(19)30002-9/abstract
19. FDA Drug Safety Communication: FDA recommends against use of Revatio in children with pulmonary hypertension. August 30, 2012. [cited September 11, 2012]; Available from: http://www.fda.gov/Drugs/DrugSafety/ucm317123.htm
20. The Regence Group. Preliminary Medication Review: Cardiovascular: sildenafil suspension. September 2012.
21. The Regence Group. Medical Policy for Adcirca and Cialis. July 2012.
22. McLaughlin VV, Badesch DB, Farber HW, et al for the American College of Cardiology Foundation Task Force. ACCF/AHA 2009 Expert Consensus Document on Pulmonary Hypertension: A Report of the American College of Cardiology Foundation Task Force on Expert Consensus Documents and the American Heart Association. Circulation 2009; 119:2250-94.
23. Michelakis E et al. Oral sildenafil is an effective and specific pulmonary vasodilator in patients with pulmonary arterial hypertension. Circulation 2002; 105:2398.
24. Ghofrani HA et al. Sildenafil for treatment of lung fibrosis and pulmonary hypertension: a randomized controlled trial. Lancet 2002; 360:895-900.
25. Ghofrani HA et al. Sildenafil for long-term treatment of nonoperable chronic thromboembolic pulmonary hypertension. Am J Respir Crit Care Med 2003; 167:1139.
26. Jackson G et al. Sildenafil for primary pulmonary hypertension: short and long-term symptomatic benefit. Int J Clin Pract 2002; 56(5):397-8.
27. Galiè N, Brundage BH, Ghofrani HA, Oudiz RJ, Simonneau G, Safdar Z, Shapiro S, White RJ, Chan M, Beardsworth A, Frumkin L, Barst RJ; Pulmonary Arterial Hypertension and Response to Tadalafil (PHIRST) Study Group. Tadalafil therapy for pulmonary arterial hypertension. Circulation. 2009 Jun 9; 119(22):2894-903. Epub 2009 May 26. PubMed PMID: 19470885.
28. Marion, DW. Pulmonary hypertension. In: UpToDate, Basow, DS (Ed), UptoDate, Waltham, MA, 2013.
29. Therapeutic Class Review℠. Pulmonary Arterial Hypertension (PAH): Updated for treprostinil (Tyvaso™), tadalafil (Adcirca™), sildenafil (Revatio®), treprostinil (Remodulin®) iloprost (Ventavis®). The Regence Group. July 2010.
30. Badesch DB, Abman SH, Simonneau G, et al. Medical therapy for pulmonary arterial hypertension: updated ACCP evidence-based clinical practice guidelines. Chest 2007; 131:1917.
31. BCBSA Technology Evaluation Center. TEC Specialty Pharmacy Report #15-2013 and #16-2013: Macitentan (Opsumit) and Riociguat (Adempas). October 2013.
32. Galie N, Corris PA, Frost A, Girgis RE, Granton J, Jing ZC, et al. Updated treatment algorithm of pulmonary arterial hypertension. J Am Coll Cardiol 2013;62:D60-72.
33. McLaughlin VV, Gaine, SP, Howard LS, Leuchte HH, Mathier MA, Mehta S, et al. Treatment goals of pulmonary hypertension. J Am Coll Cardio 2013;62:D73-81.
34. Hoeper MM, Bogaard HJ, Condliffe R, Frantz R, Khanna D, Kurzyna M, et al. Definitions and diagnosis of pulmonary hypertension. J Am Coll Cardio 2013;62:D42-50.
35. United Therapeutics Corp. FDA approved Orientram™ (treprostinil) extended-release tablets for the treatment of pulmonary arterial hypertension. Silver Springs, MD: United Therapeutics, 23 December 2013. Web 14 February 2014.
36. Marc Humbert, Gabor Kovacs, Marius M. Hoeper, et al. 2022 ESC/ERS Guidelines for the diagnosis and treatment of pulmonary hypertension. European Respiratory Journal Jan 2022, 2200879; DOI: 10.1183/13993003.00879-2022

Policy History		
#	Date	Change Description
2.6	Effective Date: 08/13/2026	Updated step therapy requirements for Uptravi due to Uptravi's expanded indication for pediatrics.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		Uptravi for pediatrics will require a trial and failure of generic sildenafil and generic bosentan when age appropriate per FDA labeling
2.5	Effective Date: 08/07/2025	Updated to include Yutrepia
2.4	Effective Date: 08/08/2024	Updated criteria for Tracleer suspension from "unable to swallow tablets" to t/f sildenafil or tadalafil AND ambrisentan or bosentan. Removed t/f sildenafil or tadalafil AND ambrisentan or bosentan criteria from Adempas.
2.3	Effective Date: 06/06/2024	Addition of Opsynvi and Winrevair Removed specific Opsumit criteria to reflect what is being implemented
2.1	Effective Date: 06/08/2023	Addition of Liqrev
2.0	Effective Date: 08/04/2022	Updated to add Tyvaso DPI formulation and Tadliq
1.9	Effective Date: 10/10/2021	Annual review of medical policy. Criteria applies to Medicare Part B only.
1.8	Effective Date: 06/10/2021	Updated policy with specific step therapy for certain medications following CHEST 2019 guidelines and included Tyvaso's new indication for PH-ILD; WHO Group 3
1.7	Effective Date: 06/11/2020	Annual Review of Medical Policy
1.6	Effective Date: 06/06/2019	Added trial and failure of preferred products statement
1.5	Effective Date: 02/14/2019	Annual Review of Medical Policy
1.4	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Flolan, Remodulin, Tyvaso, Veletri, and Ventavis
1.3	Effective Date: 08/14/2014	Add QL to Orenitram and updated information on dosing, safety, pregnancy & lactation, adverse effects
1.2	Effective Date: 05/08/2014	Criteria Update: Updated to include Orenitram
1.1	Effective Date: 02/06/2014	Criteria Update
1.0	Effective Date: 02/07/2013	Criteria Update

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Qalsody™ (tofersen)
HCPCS: J1304

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Qalsody is indicated for the treatment of amyotrophic lateral sclerosis (ALS) in adults who have a mutation in the SOD1 gene. This indication is approved under accelerated approval based on reduction in plasma neurofilament light chain observed in patients treated with Qalsody. Continued approval for this indication may be contingent upon verification of clinical benefit in confirmatory trial(s).

- ALS is the most common motor neuron disease in adults and is characterized by neurodegeneration of motor neurons in the brain and spinal cord. The incidence of ALS is approximately 1-2.6 cases per 100,000 persons annually, whereas the prevalence is approximately 6 cases per 100,000. The average age of onset of ALS is currently 58-60 years old and the average survival time from onset to death is 3-4 years. Mutations in the SOD1 gene account for approximately 2% of ALS cases (approximately 330 people in the US). In people with SOD1-ALS, mutations in their SOD1 gene cause their bodies to create a toxic misfolded form of SOD1 protein. This toxic protein causes motor neurons to degenerate, resulting in progressive muscle weakness, loss of function, and eventually, death.

- The American Academy of Neurology updated guidelines from 2009 (reaffirmed on January 11, 2020) titled "Update: The care of the patient with amyotrophic lateral sclerosis: drug, nutritional, and respiratory therapies" recommend that riluzole should be offered to slow the disease progression in patients with ALS. The European Federation of Neurological Sciences (EFNS) guidelines on clinical management of amyotrophic lateral sclerosis (MALS)-revised report of an EFNS task force, from 2012 also recommend riluzole in all patients. Neither set of guidelines have been updated to include the two most recent ALS drug approvals: Radicava® or Relyvrio™. There are no therapies listed specifically for ALS with SOD1 gene mutations.

- The efficacy of Qalsody was assessed in the VALOR study, a Phase III, 28-week, randomized, double-blind, placebo-controlled clinical study in patients 23 to 78 years of age with weakness attributable to ALS and a SOD1 mutation confirmed by a central laboratory. One hundred eight (108) patients were randomized 2:1 to receive treatment with either Qalsody 100 mg (n=72) or placebo (n=36) for 24 weeks (3 loading doses followed by 5 maintenance doses). Concomitant riluzole and/or edaravone use was permitted for patients, and at baseline 62% of patients were taking riluzole and 8% of patients were taking edaravone. The non-modified intent to treat population had a slow vital capacity ≥ 50% of predicted value at baseline.

    - The trial showed a non-statistically significant 1.2-point difference in the Revised ALS Functional Rating Scale (ALSFRS-R) ($p = 0.97$).

    - Qalsody led to reductions in SOD1 by 35% compared to 2% for placebo and a 55% reduction in plasma neurofilament, a biomarker of neurodegeneration, compared to a 12% increase in the placebo-treated group.

    - Additional analysis of the Phase III data combined with an open-label extension (OLE) study showed that earlier initiation of Qalsody slowed decline across measures of clinical and respiratory function, strength, and quality of life.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Qalsody [prescribing information]. Cambridge, MA; Biogen. April 2023
2. Talbott EO, Malek AM, Lacomis D. The epidemiology of amyotrophic lateral sclerosis. Handb Clin Neurol. 2016;138:225-38. doi: 10.1016/B978-0-12-802973-2.00013-6. PMID: 27637961.
3. R. G. Miller, C. E. Jackson, E. J. Kasarskis, J. D. England, D. Forshew, W. Johnston, S. Kalra, J. S. Katz, H. Mitsumoto, J. Rosenfeld, C. Shoesmith, M. J. Strong, S. C. Woolley Practice Parameter update: The care of the patient with amyotrophic lateral sclerosis: Drug, nutritional, and respiratory therapies (an evidence-based review) Report of the Quality Standards Subcommittee of the American Academy of Neurology. Neurology Oct 2009, 73 (15) 1218-1226; DOI: 10.1212/WNL.0b013e3181bc0141
4. Andersen, P.M., Abrahams, S., Borasio, G.D., de Carvalho, M., Chio, A., Van Damme, P., Hardiman, O., Kollewe, K., Morrison, K.E., Petri, S., Pradat, P.-F., Silani, V., Tomik, B., Wasner, M. and Weber, M. (2012), EFNS guidelines on the Clinical Management of Amyotrophic Lateral Sclerosis (MALS) – revised report of an EFNS task force. European Journal of Neurology, 19: 360-375. https://doi.org/10.1111/j.1468-1331.2011.03501.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.7</td><td>Effective Date: 08/13/2026</td><td>Annual review of policy. No changes to criteria were made.</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/07/2025</td><td>Updated to remove ALSFRS-R score requirements on initial, and to remove drugs specific renewal criteria and replace with standard renewal criteria.</td></tr>
<tr><td>1.5</td><td>Effective Date: 06/05/2025</td><td>Annual review of policy. No changes to criteria were made.</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/06/2024</td><td>Annual review of policy. No changes to criteria were made.</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/01/2023</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/08/2023</td><td>New policy</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 05/18/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/02/2023</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Radicava® (edaravone)
HCPCS: J1301

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Radicava and Radicava ORS are indicated for the treatment of ALS

- ALS is a neurodegeneration disease characterized by rapid loss of upper and lower motor neurons, resulting in death by paralysis and respiratory failure usually within 24-48 months. It has been suggested that pathogenesis of neuronal degeneration in ALS may be unique in different individuals, which is one reason ALS research and development has had minimal advancements. One primary suggestion is that oxidative stress to motor neurons is largely responsible for the pathogenesis of ALS onset and progression.

- It is proposed that by reducing free radicals that cause oxidative stress on motor neurons, radical damage may be minimized, thus preventing progression of ALS. One primary tool to measure progression of ALS is called Revised ALS Functional Rating Scale (ALSFRS-R), which has been used in many clinical trials to determine treatment efficacy.

- The American Academy of Neurology updated guidelines from 2009 (reaffirmed on January 25, 2023) titled "Update: The care of the patient with amyotrophic lateral sclerosis: drug, nutritional, and respiratory therapies" recommend that riluzole should be offered to slow the disease progression in patients with ALS. These guidelines have not been updated to include the most recent ALS drug approvals, including Radicava® or Qalsody™. The European Academy of Neurology (EAN) guideline on the management of amyotrophic lateral sclerosis in collaboration with European Reference Network for Neuromuscular Diseases (ERN EURO-NMD), which is an update of the 2012 European Federation of Neurological Societies guidelines strongly recommends lifelong riluzole at diagnosis, and to offer Qalsody (tofersen) as first-line for progressive ALS caused by pathogenic SOD1 mutations.

- Both guidelines recommend initiating riluzole as soon as possible after diagnosis along with non-pharmacotherapy. Non-pharmacotherapy goals are to maintain autonomy as long as possible through supportive care. The AAN recommends a multidisciplinary care approach that includes a neurologist when treating/caring for patients with ALS.

- The first of two Phase III trials failed to show significant difference between the treatment group and placebo in relativity to the ALSFRS-R score. Researchers determined that inclusion criteria (duration of disease within 3 years and forced vital capacity (FVC) at least 70%) had to be more stringent to observe responders. [Please see **Table 1** below for additional information regarding the trials].

- The second Phase III trial was conducted over 24 weeks and met a power of 80%. Based on the modified inclusion criteria (duration of disease within 2 years and FVC at least 80%), the trial concluded a significant difference in ALSFRS-R score between treatment group and placebo group.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- It is the Northeast Amyotrophic Lateral Sclerosis Consortum (NEALS) clinical investigators' opinion that a therapy that results in a change of 20-25% or greater in the slope of the ALSFRS-R would be considered clinically meaningful.

References:

1. Hardiman O, Van Den Berg L. Edaravone: a new treatment for ALS on the horizon. The Lancet Neurology. 2017 May15.
2. Abe K., Itoyama Y., Sobue G., et al. Confirmatory double-blind, parallel-group, placebo-controlled study of efficacy and safety of edaravone (MCI-186) in amyotrophic lateral sclerosis patients. Amyotroph Lateral Scler Frontotemporal Degener. 2014 Dec;15(7-8):610-17.
3. Petrov D., Mansfield C., Moussy A., Hermine O. ALS clinical trials review: 20 years of failure. Are we any closer to registering a new treatment?. Front Aging Neurosci. 2017;9:63.
4. Yoshino H., Kimura A. Investigation of the therapeutic effects of edaravone, a free radical scavenger, on amyotrophic lateral sclerosis (phase II study). Amyotroph Lateral Scler. 2006 Dec;7(4):241-5.
5. Abe K, Aoki M, Tsuji S, et al. Safety and efficacy of edaravone in well defined patients with amyotrophic lateral sclerosis: a randomised, double-blind, placebo-controlled trial. Lancet Neurology. 2017 May;[e-pub ahead of print].
6. Anon. Press Release: New Japan-originated ALS treatment option available to patients in the U.S. – U.S. FDA approves RADICAVA (edaravone) for the treatment of ALS. 2017 May 8.
7. Anon. Package insert: Radicava (edaravone). Mitsubishi Tanabe Pharma. Revised: 2017 May.
8. Miller RG, Jackson CE, Kasarskis EJ, et al. Practice parameter update: the care of the patient with amyotrophic lateral sclerosis: drug, nutritional, and respiratory therapies (an evidence-based review). American Academy of Neurology. 2009 Oct;73(15):1218-26.
9. Andersen PM, Abrahams S, Borasio GD, et al. EFNS guidelines on the management of amyotrophic lateral sclerosis (MALS) – revised report of an EFNS task force. Eur J Neurol. 2012;19(3)360-75.
10. Sawada H. Clinical efficacy of edaravone for the treatment of amyotrophic lateral sclerosis. Expert opin pharmacother. 2017 May;18(7)735-738.
11. Anon. Radicava (edaravone): for amyotrophic lateral sclerosis (ALS). IPD analytics; Drug Alert: Central Nervous System. 2017 May 10.
12. Cudkowicz M, Muhammad Q, Shefner J. Measures and markers in amyotrophic lateral sclerosis. NeuroRx. 2004 Apr;1(2):273-83.
13. Miller RG, Jackson EJ, et al. Practice Parameter update: The care of the patient with amyotrophic lateral sclerosis: Multidisciplinary care, symptom management, and cognitive/behavioral impairment (an evidence-based review) Report of the Quality Standards Subcommittee of the American Academy of Neurology First published October 12, 2009, DOI https://doi.org/10.1212/WNL.0b013e3181bc01a4
14. Radicava/Radicava ORS (edaravone) [prescribing information]. Jersey City, NJ: Mitsubishi Tanabe Pharma Corp. May 2022

Policy History		
#	Date	Change Description
2.5	Effective Date: 08/13/2026	Annual review – no changes to the criteria were made.
2.4	Effective Date: 08/07/2025	Updated to remove ALSFRS-R score requirements on initial, and to remove drugs specific renewal criteria and replace with standard renewal criteria.
2.3	Effective Date: 02/13/2025	Annual review – no changes to the criteria were made.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>2.2</td><td>Effective Date: 02/08/2024</td><td>Annual review – no changes to the criteria were made.</td></tr>
<tr><td>2.1</td><td>Effective Date: 02/02/2023</td><td>Updated FVC requirement to a vital capacity requirement</td></tr>
<tr><td>2.0</td><td>Effective Date: 12/01/2022</td><td>Updated renewal criteria to allow other clinical documentation outside of just patient assessments using the ALSFRS-R to determine if the medication is providing benefit</td></tr>
<tr><td>1.9</td><td>Effective Date: 08/04/2022</td><td>Update to include new oral suspension formulation Radicava ORS.</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/12/2021</td><td>Annual Review</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/13/2020</td><td>Updated to included FDA approved indication and age and the trial and failure of preferred products</td></tr>
<tr><td>1.6</td><td>Effective Date: 10/01/2019</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.5</td><td>Effective Date: 08/15/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/09/2018</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/01/2017</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 09/01/2017</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 08/10/2017</td><td>Changes to approved preliminary criteria</td></tr>
<tr><td>1.0</td><td>Effective Date: 06/08/2017</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

Table 1: Radicava Data Summary

Study # Design/Duration	Comparator Groups	Population	Difference in Inclusion criteria	Results
Study 1 R, DB, PG, PC, confirmatory study/ 36 weeks (12-week pre-observation; 24-week treatment period)	• Edaravone (Radicava) 60 mg QD IV infusion over 1 hour • Placebo QD IV infusion over 1 hour • There were 6 cycles with each cycle length being 28 days. Cycle 1 gave treatment or	N=106 Patients with ALS	• Age 20-75 • Diagnosis of definite, probable, or probable laboratory-supported ALS • FVC at least 70% • Duration of disease within 3 years • Change in ALSFRS-R score during a 12-	• After the 24 weeks of treatment, the inter-group difference of ALSFRS-R score comparing placebo to treatment was 0.65 points by ANCOVA and was not statistically significant. To get a significant

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	placebo for 14 days, followed by 14 days observation. Cycle 2-6 gave treatment or placebo for 10 out of 14 days in the administration period and maintained the 14-day observation period.		week pre-observation period of -1 to -4 points • There were no restrictions on concurrent use of Rilutek	difference, there had to be a difference of 2 points in this trial. • Mean change in ALSFRS-R score during treatment was -5.70 for Radicava and -6.35 for placebo; 25% of patients in Radicava group and 26% of patients in placebo group showed the change of 0 to -1 point in ALSFRS-R score • There was no significant difference in adverse events; adverse events in occurred in 88.5% of placebo group and 89.2% in treatment group.
Study 2: R, DB, PG, PC, parallel-group study/36 weeks (12-week pre-observation; 24-week treatment period)	• Edaravone (Radicava) 60 mg per day IV infusion over 1 hour • Placebo QD IV infusion over 1 hour • There were 6 cycles with each cycle length being 28 days. Cycle 1 gave treatment or placebo for 14 days, followed by 14 days observation. Cycle 2-6 gave treatment or placebo for 10 out of	N = 134 Patients with ALS	• Age 20-75 years old diagnosed with ALS and independent living status • Diagnosis of definite or probable ALS • FVC of at least 80% or better • Duration of disease with onset within 2 years • Decreased ALSFRS-R score of 1 to 4 during a 12-week pre-observation period	• After 24 weeks of treatment, the change in ALSFRS-R score was -5.01 in Radicava group and -7.50 (difference of 2.49) in the placebo group; thus, concluding a reduction in ALS decline • A 40-item ALS assessment Questionnaire (ALSA-Q40) favored Radicava on a

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

	14 days in the administration period and maintained the 14-day observation period.		• There were no restrictions on concurrent use of Rilutek	respiratory subscale and showed less deterioration in quality of life • No difference in FVC, grip strength, pinch strength, or ALS severity classification, or death • No significant differences were observed with adverse events • Current studies are unable to support therapeutic benefit of Radicava in ALS patients who do not meet these inclusion criteria.

DB – Double blind; PG – parallel-group; PC – Placebo-control

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Ranibizumab Policy

Byooviz™ (ranibizumab-nuna) **- HCPCS: Q5124**
Cimerli™ (ranibizumab-eqrn) **- HCPCS: Q5128**
Lucentis® (ranibizumab) **- HCPCS: J2778**
Nufymco® (ranibizumab-leyk) **- HCPCS: Q5168**
Ranibizumab-nuna - HCPCS: Q5124
Ranluspec™ (ranibizumab-hkdz) **– HCPCS: J3590**
Susvimo™ (ranibizumab) **- HCPCS: J2779**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Intravitreal injections of anti-vascular endothelial growth factor (VEGF) have been widely used by ophthalmologists to treat a variety of ocular diseases. They are injected directly into the eye to prevent the formation of new blood vessels and reduce blood vessel leakage and inflammation. The following anti-VEGF therapies are currently available to treat the following indications:
    - Byooviz: macular edema due to retinal vein occlusion (RVO), myopic choroidal neovascularization (mCNV), and neovascular (wet) age-related macular degeneration (AMD)
    - Cimerli: diabetic macular edema (DME), diabetic retinopathy (DR), macular edema due to RVO, mCNV, and wet AMD
    - Lucentis: DME, DR, macular edema due to RVO, mCNV, and wet AMD
    - Nufymco: DME, DR, macular edema due to RVO, mCNV, and wet AMD
    - Ranluspec: DME, DR, macular edema due to RVO, mCNV, and wet AMD
    - Susvimo: neovascular AMD and DME in those who have previously responded to at least two intravitreal injections of a VEGF inhibitor
- Age-related Macular Degeneration
    - Age-related macular degeneration is a degenerative disease of the macula that results primarily in loss of central vision. Wet AMD is characterized by growth of abnormal vessels into the subretinal space. These abnormal blood vessels leak leading to collections of subretinal fluid and/or blood beneath the retina. The

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2024 American Academy of Ophthalmologists (AAO) Age-Related Macular Degeneration Preferred Practice Pattern Guidelines recommend observation and early detection, antioxidant vitamin and mineral supplements, and intravitreal injections of anti-VEGF agents for the management of wet AMD. Guidelines recommend Eylea™, Avastin®, Vabysmo™, or Lucentis for treatment. The guidelines have not been updated with Beovu®, Byooviz, and Susvimo.

- Diabetic Retinopathy and Diabetic Macular Edema

    - Diabetic retinopathy and DME are common complications and the ocular manifestations of end-organ damage in diabetes mellitus. The 2025 AAO Diabetic Retinopathy Preferred Practice Pattern Guidelines state the goals of therapy for DR and DME include improvement or stabilization of visual function, improvement in vision-related quality of life, and optimal control of blood glucose, blood pressure, and other metabolic risk factors. Patients should always be treated with anti-VEGF therapy if they have severe non-proliferative DR or proliferative DR with center-involved macular edema. In cases of mild to moderate non-proliferative DR with center-involved macular edema, patients should also receive intravitreal injections. The guidelines support the use of Lucentis, Eylea, Vabysmo, and Avastin. AAO recommendations were based on trials comparing Eylea, Avastin, and Lucentis to focal laser treatment. All trials showed that treatment with VEGF inhibitors resulted in statistically and clinically significant improvements in visual acuity in patients with DME after one to two years compared to laser treatment.

- Retinal Vein Occlusion

    - Retinal vein occlusion occurs when there is partial or complete obstruction of a retinal vein. Vision loss can occur with RVO and is associated with macular ischemia or edema, retinal hemorrhages, vitreous hemorrhage, or epiretinal membrane formation. The 2025 AAO Retinal Vein Occlusions Preferred Practice Pattern Guidelines recommend anti-VEGF therapy as first-line treatment for macular edema caused by RVO. The guidelines support the use of Lucentis, Eylea, and Avastin. The guidelines state VEGF inhibitors, Eylea, Avastin, and Lucentis, are more effective than sham injection or laser therapy in maintaining or improving visual acuity in patients with macular edema secondary to RVO.

- Myopic Choroidal Neovascularization

    - Myopic choroidal neovascularization is a common vision-threatening complication of myopia and pathological myopia. Naïve myopic patients who present with blurred vision, vision loss, or metamorphopsia should be referred to a retinal specialist who can diagnose mCNV. Once mCNV is diagnosed, anti-VEGF therapy should be started immediately. Lucentis has demonstrated improvements in visual acuity in patients with mCNV. A randomized controlled trial compared the effects of Lucentis to photodynamic therapy with verteporfin in patients with mCNV. At month three, treatment with Lucentis demonstrated significant improvements in visual acuity compared to photodynamic therapy with verteporfin. A Cochrane systematic review concluded that there is low to moderate-certainty evidence for the efficacy of VEGF inhibitors to treat mCNV at one year and two years. It also concluded that Lucentis and Avastin are equivalent in terms of efficacy in the treatment of patients with mCNV.

- There are very few randomized control trials that assess the efficacy of one anti-VEGF therapy over another. Of the two that are available, Avastin, Eylea, and Lucentis were all shown to be non-inferior to each other, and because of this, choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability. However, a 2015 study conducted by Wells, et al. did show Eylea was superior to Avastin therapy when patients had a visual acuity of less than or equal to 20/50. In addition, a subcohort analysis of the YOSEMITE AND RHINE trials showed Vabysmo demonstrated BCVA gains similar to aflibercept, while demonstrating numerically greater improvements in anatomic outcomes at years 1 and 2. Therefore, in these scenarios Avastin should not be used prior to Eylea or Vabysmo.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Susvimo

    - In the ARCHWAY clinical trial, Susvimo was only implanted following at least 3 prior anti-VEGF intravitreal injections of either Avastin, Eylea, or Lucentis within 6 months of screening. Patients in the study had to demonstrate anatomic and visual response to anti-VEGF treatment for nAMD, therefore, Susvimo should not be administered to patients who have not had proven success with prior anti-VEGF therapy.

    - Susvimo was not studied with supplemental doses of other anti-VEGF therapies and therefore, should not be administered with any other intravitreal injections other than Lucentis. Supplemental doses were given when the study participants experienced one of the following: decrease of 15 Early Treatment Diabetic Retinopathy Study (ETDRS) letters or more from the best-recorded BCVA in the study; an increase of 150 µm or more in retinal thickness measured by central subfield thickness (CST) on spectral domain OCT (SD-OCT) from the lowest CST measurement in the study; or an increase of 100 µm or more in CST on SD-OCT from the lowest CST measurement in the study associated with a decrease of 10 ETDRS letters or more from the best-recorded BCVA during the study. In these scenarios only should patients be considered for additional Lucentis injections. Fifteen ETDRS letters are equivalent to a decrease in visual acuity by half.

    - Of the 1.6% of patients who required supplemental injections with Lucentis during the study, a maximum of 2 injections were given per affected eye within the 24 weeks between implantation of the device of the first refill. As such, there is no data available to support more than 2 supplemental injections per 6 months.

References:

1. Lucentis [prescribing information]. South San Francisco, CA: Genentech, Inc.; February 2024.
2. Byooviz [prescribing information]. Cambridge, MA: Samsung Bioepis Co., Ltd; August 2025.
3. Susvimo [prescribing information]. South San Francisco, CA: Genentech, Inc.; September 2025.
4. Cimerli [prescribing information]. Redwood City, California: Coherus BioSciences, Inc.; May 2024.
5. Avastin [prescribing information]. South San Francisco, CA: Genentech, Inc.; January 2021.
6. Martin DF, Maguire MG, Ying GS, et al. Ranibizumab and bevacizumab for neovascular age-related macular degeneration. NEJM. 2011 May 19; 364 (20): 1897 - 908.
7. Harding S, Rogers C, Chakravarthy U, et al. Ranibizumab versus bevacizumab to treat neovascular age-related macular degeneration: one year findings from the IVAN randomized trial. Ophthalmology. 2012 Jul; 119 (7): 1399 - 411.
8. Flaxel CJ, Adelman RA, Bailey ST, et al. Age-related macular degeneration preferred practice pattern. Ophthalmology. 2025 Feb. Available at: file:///C:/Users/e131093/Downloads/Age-Related%20Macular%20Degeneration%20PPP_2026.pdf. Accessed on June 4, 2026.
9. Tufail A, Patel PJ, Egan C, et al. Bevacizumab for neovascular age related macular degeneration (ABC Trial): multicentre randomized double masked study. BMJ. 2010; 340: c2459.
10. Zhand H, Liu ZL, Sun P, et al. Intravitreal bevacizumab for treatment of macular edema secondary to central retinal vein occlusion: eighteen-month results of a prospective trial. J Ocul Pharmacol Ther. 2011 Dec; 27 (6): 615 - 21.
11. Ghanem AA, El- Kannishy AM, El- Wehidy AS, et al. Intravitreal bevacizumab (avastin) as an adjuvant treatment in cases of neovascular glaucoma. Middle East Afr J Ophthalmol. 2009; 16: 75 - 9.
12. Michaelides M, Kaines A, Hamilton R, et al. A prospective randomized trial of intravitreal bevacizumab or laser therapy in the management of diabetic macular edema (BOLT Study). Amer Acad Ophth. 2010 Mar; 117 (6): 1078 – 86.
13. El Matri L, Chebil A, & Kort F. Current and emerging treatment options for myopic choroidal neovascularization. Clin Ophthalmology. 2015; 9: 733 – 44.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

14. Wells JA, Glassman AR, Ayala AR, et al. Aflibercept, bevacizumab, or ranibizumab for diabetic macular edema. NEJM. 2015 March 26; 372 (13): 1193 – 203.
15. Vedula SS & Krzystolik MG. Antiangiogenic therapy with anti-vascular endothelial growth factor modalities for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2008(2):CD005139. PMID: 18425911 6.
16. Solomon SD, Lindsley K, Vedula SS, et al. Anti-vascular endothelial growth factor for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2019 Mar 4; 3: CD005139. PMID: 30834517.
17. Kim SJ, Lim JI, Bailey ST, et al. Diabetic retinopathy preferred practice pattern. Ophthalmology. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/diabetic-retinopathy-ppp. Accessed on March 25, 2025.
18. Flaxel CJ, Adelman RA, Bailey ST, et al. Retinal vein occlusions preferred practice pattern. Feb 2025. Available at: https://www.aao.org/education/preferred-practice-pattern/retinal-vein-occlusions-ppp. Accessed on March 25, 2025.
19. Wolf S, Balciuniene V, Laganovska G, et al. RADIANCE: a randomized controlled study of ranibizumab in patients with choroidal neovascularization secondary to pathologic myopia. Ophthalmology. 2014; 121: 682 - 92.
20. Zhu Y, Zhang T, Xu G, et al. Anti-vascular endothelial growth factor for choroidal neovascularization in people with pathological myopia (Review). The Cochrane database of systematic reviews. 2016; 12: CD011160.
21. Holekamp NM, Campochiaro PA, Chang M, et al. ARCHWAY randomized phase 3 trial of the port delivery system with ranibizumab for neovascular age-related macular degeneration. Ophthalmology. 2021 Sept 28. Available at: https://doi.org/10.1016/j.ophtha.2021.09.016. Accessed on October 25, 2021.
22. Jhaveri CD, Glassman AR, Ferris FL, et al. Aflibercept monotherapy or bevacizumab first for diabetic macular edema. NEJM. 2022 Aug 25; 387: 692 – 703.

Policy History		
#	Date	Change Description
2.7	Effective Date: 08/13/2026	Updated to include Ranluspec
2.6	Effective Date: 06/15/2026	UM medical management system update for BCBS and BCN for Ranluspec
2.5	Effective Date: 02/12/2026	Updated to include Nufymco
2.4	Effective Date: 01/07/2026	UM medical management system update for BCBS and BCN for Nufymco
2.3	Effective Date: 12/04/2025	Updated to include ranibizumab-nuna
2.2	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made
2.1	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 06/08/2023	Updated to add criteria stating the biosimilars will be covered for all FDA approved indications of the innovator product and add a step through Byooviz
1.9	Effective Date: 04/06/2023	New policy. This policy replaces previously approved criteria that was embedded in the Intravitreal Injections for Retinal Conditions Policy which is being split into individual drug

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		policies and retired. The authorization period was updated from up to 1 year to at least 60 days and up to 1 year
1.8	Efffective Date: 10/03/2022	UM medical management system update for BCNA and MAPPO for Cimerli
1.7	Effective Date: 09/01/2022	UM medical management system update for BCN and BCBS for Cimerli
1.6	Efffective Date: 06/06/2022	UM medical management system update for BCNA and MAPPO for Byooviz
1.5	Efffective Date: 04/01/2022	UM medical management system update for BCN and BCBS for Byooviz and Ranibizumab-nuna
1.4	Effective Date: 12/27/2021	UM medical management system update for MAPPO and BCNA for Susvimo
1.3	Effective Date: 11/18/2021	UM medical management system update for BCBSM and BCN for Susvimo
1.2	Effective Date: 01/01/2020	UM medical management system update for BCBS for Lucentis
1.1	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Lucentis
1.0	Effective Date: 11/08/2012	UM medical management system update for BCN for Lucentis

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Reblozyl® (luspatercept-aamt)
HCPCS: J0896

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Beta-thalassemia

  - The term "thalassemia" refers to a group of blood disorders characterized by a decrease or absence of synthesis of normal hemoglobin globulin chains. According to the chain whose synthesis is impaired, the thalassemias are call α-, β-, γ-, δ-, δβ-, or εγδβ-thalassemias. Beta-thalassemias result from a genetic defect in the HBB gene leading to a reduction in production of β-globulin chains, an excess of α-globulin chains, and a decrease in functioning hemoglobin. Low levels of hemoglobin cause a lack of oxygen in many parts of the body and anemia. People with anemia in beta-thalassemia often require lifelong blood transfusions for survival and subsequent treatment for iron overload due to these transfusions.

  - The 2021 International Thalassemia Federation guidelines for transfusion dependent thalassemias recommend diagnosis should begin with genetic testing because of the extreme diversity in clinical severity of thalassemia subtypes. The degree of excess nonfunctional α-chains is the major predictor of disease severity. The less β-globulin production, the more non-functional α-chains in the bloodstream. β0-thalassemia refers to the complete absence of production of β-globulin. When patients are homozygous for a β0-thalassemia gene, they cannot make any normal β-chains. β+-thalassemia indicates a mutation that presents decreased but not absent production of β-globulin. In thalassemia patients in which one or both of their β-thalassemia mutations are β+-mutations, the disorder may be less severe. Beta-thalassemia major is a clinical diagnosis referring to a patient who has a severe form of the disease and requires chronic transfusions early in life. Beta-thalassemia intermedia is a clinical diagnosis of a patient characterized by a less severe chronic anemia and a more variable clinical phenotype. Reblozyl was not studied in patients with S/β-thalassemia or α-thalassemia. Patients with other β-thalassemia subtypes that were transfusion dependent were included in the clinical trial.

  - Treatment guidelines also recommend all patients undergo at least an annual comprehensive assessment at a thalassemia center. During such an assessment, recommendations are summarized after consultation with multiple specialists including a hematologist, a nurse specialist, a hepatologist, a cardiologist, an endocrinologist, a psychologist, a genetics counselor, a social worker, and a dietitian.

  - Blood transfusion is the mainstay of care for individuals with thalassemia major and many with intermedia. The purpose of transfusion is twofold: to improve the anemia and to suppress the ineffective erythropoiesis. Chronic transfusions prevent most of the serious growth, skeletal, and neurological complications of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

thalassemia major. The decision to start regular transfusions is clear when the initial hemoglobin level is well below 6 g/dL. Continuation of infusions can be assessed by withholding transfusions and monitoring weekly hemoglobin levels. If the hemoglobin drops under 7 g/dL on two occasions two weeks apart, then regular transfusions should be commenced. Guidelines define a patient as transfusion dependent when they are getting infusions of packed red blood cells every 2 – 5 weeks to maintain the pre-transfusion hemoglobin of 9 g/dL - 10.5 g/dL and the post-transfusion hemoglobin less than 14 - 15 g/dL. This translates to approximately 100 mL/kg/year of packed red blood cells.

- Guidelines recommend the use of Reblozyl in patients who are regularly transfused and have a hemoglobin of less than 11 g/dL when not influenced by a recent red blood cell transfusion. They also state that if improvement is not seen following the first 3 doses, or after 9 weeks of therapy, Reblozyl should be discontinued.

- Myelodysplastic Syndrome

  - Myelodysplastic syndromes are a group of blood cancers that occur as a result of disordered development of blood cells within the bone marrow. The World Health Organization has classified six types of MDS based on how many early cell types show dysplasia, the type of cytopenias a patient is experiencing, the portion of ring sideroblasts, the portion of blasts in the blood or bone marrow, and the type of genetic mutations in the bone marrow cells. In ESA treatment experienced patients, Reblozyl was only studied in patients with the MDS with ring sideroblasts (MDS-RS) subtype. In this subtype, patients have ring sideroblasts greater than or equal to 15% of erythroid precursors in bone marrow or greater than or equal to 5% if the SF3B1 mutation is present. They also present with less than 5% blasts in the bone marrow. Patients with the MDS-RS subtype do not have MDS associated with a del 5q cytogenetic abnormality. The classification system for MDS automatically classifies patients with the del 5q mutation as a separate unique subtype. This subtype was also not included in the clinical trial assessing efficacy of Reblozyl in ESA treatment naïve patients.

  - One in three patients with MDS will progress to acute myeloid leukemia (AML). Risk of disease progression to AML and risk of mortality are assessed using the Revised International Prognostic Scoring System (IPSS-R). The IPSS-R categorizes patients into 1 of 5 groups, from very low risk to very high risk using the patient's disease presentation including cytogenic groups, percentage of medullary blasts, hemoglobin, platelets, and absolute neutrophil count. The IPSS-R can help determine whether to treat or observe patients at the time of diagnosis. Reblozyl was only studied in patients classified as very low, low, or intermediate risk using the IPSS-R in all clinical trials.

  - Reblozyl for use in ESA treatment experienced patients was approved based on the results of the MEDALIST trial, a phase III, placebo-controlled study in 229 patients with very low, low, or intermediate risk non-del(5q) MDS with ring sideroblasts. All patients were red blood cell transfusion-dependent defined as anemia requiring at least 2 units of red blood cells over 8 weeks. Patients had disease that was refractory to or unlikely to respond to erythropoiesis-stimulating agents (ESAs) or were intolerant to ESA therapy. Refractory was defined as non-response or response that is no longer maintained to prior ESA therapy of either recombinant human erythropoietin at a dose of 40,000 IU/week for at least 8 weeks or darbepoetin alpha greater than 500 µg every 3 weeks for at least 4

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

doses. Patients were considered unlikely to respond when they had an endogenous serum erythropoietin level greater than 200 U/L. Patients must not have used any prior therapy with disease-modifying agents for underlying MDS disease and must not have secondary MDS known to have arisen as the result of chemical injury or treatment with chemotherapy or radiation for other diseases. The primary endpoint was transfusion independence for 8 weeks or longer during weeks 1 through 24. The primary endpoint was observed in 38% of the patients in the Reblozyl group compared with 13% of those in the placebo group (p-value < 0.001).

- Reblozyl for use in ESA treatment naïve patients was approved based on the results of the COMMANDS trial, a phase III, open-label, randomized controlled study of 356 patients with myelodysplastic syndromes of very low risk, low risk, or intermediate risk. Subjects had not experienced prior treatment with ESAs and required regular red blood cell transfusions of at least 2 – 6 packed red blood cell units per 8 weeks for greater than or equal to 8 weeks immediately before randomization. Patients must not have MDS associated with del 5q cytogenetic abnormality or secondary MDS known to have arisen as the result of chemical injury or treatment with chemotherapy and/or radiation for other diseases. The primary endpoint was red blood cell transfusion independence for at least 12 weeks with a concurrent mean hemoglobin increase of at least 1.5 g/dL during weeks 1 – 24. Results showed 58.5% of patients treated with Reblozyl vs. 31.2% of patients treated with epoetin alfa achieved the primary endpoint (p-value < 0.0001).

- The current NCCN guidelines recommend ESA treatment in all patients unless their serum epopoietin is greater than 500 mU/mL or those with IPSS-R very low, low, or intermediate disease without a del(5q) mutation with RS greater than or equal to 15% or RS greater than or equal to 5% with an SF3B1 mutation. In instances where a patient presents with an eoppoietin greater than 500 mU/mL or IPSS-R very low, low, or intermediate disease without a del(5q) mutation with RS greater than or equal to 15% or RS greater than or equal to 5% with an SF3B1 mutation, guidelines recommend Reblozyl as first-line therapy.

References:

1. Reblozyl [prescribing information]. Summit, NJ: Celgene Corporation; May 2024.
2. Manufacturer press release. Available at: https://www.businesswire.com/news/home/20191108005496/en/FDA-Approves-REBLOZYL%C2%AE-luspatercept-aamt-Treatment-Anemia-Adults. Accessed on: November 10, 2019.
3. Fenaux P, Platzbecker U, Mufti GJ, et al. The Medalist trial: results of a phase 3, randomized, double-blind, placebo-controlled study of luspatercept to treat anemia in patients with very low, low-, or intermediate-risk myelodysplastic syndromes (MDS) with ring sideroblasts (RS) who require red blood cell (RBC) transfusion. Blood. 2018; 132: 1. doi: 10.1182/blood-2018-99-110805.
4. Cappelini MD, Viprakasit V, Taher A, et al. The BELIEVE Trial: results of a phase 3, randomized, double-blind, placebo-controlled study of luspatercept in adult beta-thalassemia patients who require regular red blood cell (RBC) transfusions. Blood. 2018; 132: 163. doi: 10.1182/blood-2018-163.
5. Piga A, Perrotta S, Gamberini MR, et al. Luspatercept improves hemoglobin levels and blood transfusion requirements in a study of patients with β-thalassemia. Blood. 2019 Mar 21; 133 (12): 1279-1289. doi: .10.1182/blood-2018-10-879247.
6. Cappellini MD., Farmakis D., Porter J., et al. 2021 guidelines for the management of transfusion dependent thalassaemia, 4th edition. 2021 June 25. Available at: https://issuu.com/internationalthalassaemiafederation/docs/final_guideline_4th. Accessed on June 21, 2022.
7. Hong M and He G. The 2016 revision to the WHO classification of MDS. J Transl Intern Med. 2017; 5: 139-43.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Greenberg PL, Tuechler H, Schanz J, et al. Revised international prognostic scoring system for myelodysplastic syndromes. Blood. 2012; 120(12): 2454-2465.
9. American Cancer Society. What are myelodysplastic syndromes. 2018 Jan 22. Available at: https://www.cancer.org/cancer/myelodysplastic-syndrome/about/what-is-mds.html. Accessed on May 5, 2020
10. Leukemia and Lymphoma Society. Myelodysplastic syndromes. Available at: https://www.lls.org/disease-information/myelodysplastic-syndromes. Accessed on May 5, 2020.
11. Fenaux P, Platzbecker U, Mufti GJ, et al. Luspatercept in patients with lower-risk myelodysplastic syndromes. NEJM. 2020 Jan 9; 382: 140 – 51.
12. National Comprehensive Cancer Network. Myelodysplastic syndromes (Version 2.2025). 2025 Jan 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mds.pdf. Accessed on: August 21, 2025.
13. Platzbecker U, Della Porta MG, Santini V, et al. Efficacy and safety of luspatercept versus epoetin alfa in erythropoiesis-stimulating agent-naive, transfusiondependent, lower-risk myelodysplastic syndromes (COMMANDS): interim analysis of a phase 3, open-label, randomised controlled trial. Lancet. 2023 July 29; 402 (10399): 373 – 85.

Policy History		
#	Date	Change Description
2.3	Effective Date: 10/09/2025	Annual review of criteria was performed, no changes were made
2.2	Effective Date: 10/03/2024	Updated authorization period to state “aligns with FDA recommended or guideline supported treatment duration and provided for at least 60 days and up to 6 months at a time” and added an exception to ESA use in those with IPSS-R very low, low, or intermediate disease without a del(5q) mutation with ring sideroblasts (RS) greater than or equal to 15% or RS greater than or equal to 5% with an SF3B1 mutation
2.1	Effective Date: 10/12/2023	Updated to remove prescriber requirements, the sideroblast requirements in myelodysplastic syndrome, and require ESA’s as first-line therapy unless a patient has serum epopoietin greater than 500 mU/mL.
2.0	Effective Date: 06/08/2023	Updated to remove the statement not allowing use with other disease modifying therapies
1.9	Effective Date: 12/01/2022	Updated to include the trial and failure of preferred products statement
1.8	Effective Date: 10/06/2022	Update to remove statement not allowing use with gene therapy
1.7	Effective Date: 08/04/2022	Annual review of medical policy. No changes to the criteria were made at this time

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 08/12/2021</td><td>Updated to remove the upper limit on ring sideroblast when the SF3B1 mutation is present</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/13/2020</td><td>Updated to not allow use following gene therapy</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/11/2020</td><td>Updated to include new indication of myelodysplastic syndrome</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/02/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 03/16/2020</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/01/2020</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/05/2019</td><td>New drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Rebyota® (fecal microbiota, live-jslm)
HCPCS: J1440

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Rebyota is indicated for the prevention of recurrence of CDI in individuals 18 years of age and older following antibiotic treatment for recurrent CDI.

    - In the pivotal Phase III PUNCH CD3 trial, which was utilized for FDA approval of this therapy, inclusion criteria included documentation of recurrent CDI (defined as one or more recurrences after a primary episode) in participants who had completed one or more rounds of standard-of-care antibiotic therapy OR had two or more episodes of severe CDI resulting in hospitalization in the last year, a positive stool test within 30 days of enrollment, and participants must have been taking or have just been prescribed antibiotics to control recurrent CDI symptoms. There was a 24-72 hour antibiotic washout period prior to Rebyota therapy. These specific inclusion criteria are included in the policy due to the narrow treatment window that Rebyota offers.

        - Patients were treated with a single 150 mL rectal dose. The primary endpoint was treatment success, defined as the absence of CDI diarrhea within 8 weeks of study treatment. The estimated rate of treatment success was 70.6% in the Rebyota group (95% Credible Interval, 64.1%-76.8%) compared to placebo 57.5% (95% Credible Interval, 48.1%-67.1%). In this trial, patients who did not experience treatment success at week 8 were given a 2nd dose. Determining treatment failure can take up to 8 weeks, and an authorization period of 2 months would allow for a one-time repeat dose of Rebyota after the initial authorization period. Data that supports continued Rebyota treatment does not exist. Currently, data only supports one repeat course of treatment.

    - The 2021 IDSA/SHEA Guideline Update recommends use of adjunctive therapy for prophylaxis after one recurrent CDI episode treated with appropriate antibiotics.

        - These guidelines recommend the use of Rebyota alternative, Zinplava, for patients with recurrent CDI episode within the last 6 months, as an adjunctive treatment to antibiotics (fidaxomicin, vancomycin, etc.) rather than antibiotics alone. Zinplava is an IV administered monoclonal antibody that is given as a single infusion over 60 minutes. Zinplava is FDA approved to reduce the recurrence of CDI in patients 18 years of age or older who are receiving antibacterial drug treatment of CDI and are at a high risk for CDI recurrence.

        - The guidelines state the balance of benefits and harms favor adding Zinplava to SOC antibiotics for patients with a CDI episode and at least 1 risk factor for recurrence (recurrent CDI episode within the last 6 months, age ≥ 65 years, immunocompromised host, and severe CDI on presentation), however treatment seems more favorable in patients with multiple risk factors of recurrent CDI and especially in patients with a prior CDI in the last 6

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

months. Current guidelines do not favor the use of Zinplava or FMT over the other for prevention of recurrence of CDI. Zinplava was the only FDA approved option for prevention of recurrence of CDI when the 2021 IDSA/SHEA guidelines were published.

References:

1. Rebyota [Package Insert]. Parsippany, NJ. Ferring Pharmaceuticals Inc. November, 2022.
2. Stuart Johnson, Valéry Lavergne, Andrew M Skinner, Anne J Gonzales-Luna, Kevin W Garey, Ciaran P Kelly, Mark H Wilcox, Clinical Practice Guideline by the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA): 2021 Focused Update Guidelines on Management of *Clostridioides difficile* Infection in Adults, *Clinical Infectious Diseases*, Volume 73, Issue 5, 1 September 2021, Pages e1029–e1044, https://doi.org/10.1093/cid/ciab549
3. Khanna, Sahil et al. "Efficacy and Safety of RBX2660 in PUNCH CD3, a Phase III, Randomized, Double-Blind, Placebo-Controlled Trial with a Bayesian Primary Analysis for the Prevention of Recurrent Clostridioides difficile Infection." Drugs vol. 82,15 (2022): 1527-1538. doi:10.1007/s40265-022-01797-x
4. ClinicalTrials.gov. Microbiota Restoration Therapy for Recurrent Clostridium Difficile Infection (PUNCHCD2). Available at: https://clinicaltrials.gov/ct2/show/results/NCT02299570

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date:
02/12/2026</td><td>Annual review – no changes to the criteria were made.</td></tr>
<tr><td>1.4</td><td>Effective Date:
03/31/2025

P&T Date:
02/13/2025</td><td>Updated criteria to include not to be used in combination with Zinplava or Vowst.</td></tr>
<tr><td>1.3</td><td>Effective Date:
02/08/2024</td><td>Annual review – no changes to the criteria were made.</td></tr>
<tr><td>1.2</td><td>Effective Date:
03/01/2023</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 02/02/2023</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 01/05/2023</td><td>UM medical management system update for BCBSM and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Rituximab Class Policy

Riabni™ (rituximab-arrx) **- HCPCS: Q5123**
Rituxan® (rituximab) **- HCPCS: J9310**
Rituxan Hycela® (rituximab and hyaluronidase human) **- HCPCS: J9311**
Ruxience™ (rituximab-pvvr) **- HCPCS: Q5119**
Truxima™ (rituximab-abbs) **- HCPCS: Q5115**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Rituxan Hycela is a combination of rituximab and hyaluronidase human, an endoglycosidase, indicated for the treatment of adult patients with:
  - Follicular lymphoma (FL)
    - Relapsed or refractory follicular lymphoma as a single agent
    - Previously untreated follicular lymphoma in combination with first line chemotherapy and in patients achieving a complete or partial response to rituximab in combination with chemotherapy as single agent maintenance therapy
    - Non-progressing follicular lymphoma as a single agent after first-line CVP chemotherapy
  - Previously untreated diffuse large B-cell lymphoma (DLBCL) in combination with CHOP or other anthracycline-based chemotherapy regimens
  - Previously untreated and previously treated CLL in combination with FC
  - Limitations of use:
    - Treatment should only be initiated after patients have received at least one full dose of a rituximab product by intravenous infusion
    - Rituxan Hycela is not indicated for the treatment of non-malignant conditions
- Rituxan Hycela is a combination of rituximab and hyaluronidase, an enzyme that helps deliver rituximab under the skin, and can be given subcutaneously versus intravenously as with Rituxan. Rituxan Hycela cannot be given before a patient has received at least one full dose of intravenous Rituxan without adverse effects and, because of this, there would be no clinical necessity for a patient to switch from Rituxan to Rituxan Hycela as it offers no clinical safety or efficacy advantages over the intravenous product.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- NCCN guidelines state an FDA approved biosimilar can be substituted for Rituxan. The guidelines do not specify what biosimilars are appropriate for a specific tumor type which allows for use of any of the biosimilars to be used for any indication the innovator product is FDA approved for.

References:

1. Rituxan [prescribing information]. South San Francisco, CA: Genentech, Inc.; December 2021.
2. Rituxan Hycela [prescribing information]. South San Francisco, CA: Genentech; June 2021.
3. Truxima [prescribing information]. North Wales, PA: Celltrion, Inc.; December 2022.
4. Ruxience [prescribing information]. New York, NY: Pfizer Biosimilars; Octoer 2023.
5. National Comprehensive Cancer Network. B-cell lymphoma (Version 3.2026). 2026 March 12. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on April 14, 2026.
6. National Comprehensive Cancer Network. Chronic lymphocytic leukemia/small lymphocytic lymphoma (Version 2.2026). 2025 Dec 22. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cll.pdf. Accessed on April 14, 2026.
7. Joly P, Maho-Vaillant M, Prost-Squarcioni C, et al. First-line rituximab combined with short-term prednisone versus prednisone alone for the treatment of pemphigus (Ritux 3): a prospective, multicentre, parallel-group, open-label randomised trial. Lancet. 2017 May 20; 389 (10083): 2031 - 40.
8. Kim WS, Buske C, Ogura M, et al. Efficacy, pharmacokinetics, and safety of the biosimilar CT-P10 compared with rituximab in patients with previously untreated advanced-stage follicular lymphoma: a randomised, double-blind, parallel-group, noninferiority phase 3 trial. Lancet Haematol. 2017; 4 (8): e362 - e373.
9. Kim WS, Buske C, Kwak K, et al. Similar efficacy and safety of CT-P10 and reference rituximab in patients with advanced stage follicular lymphoma: updated phase III study results [abstract 1616]. Blood. 2018; 132: 1616.
10. Ogura M, Sancho J, Cho S, et-al. Efficacy, pharmacokinetics, and safety of the biosimilar CT-P10 in comparison with rituximab in patients with previously untreated low-tumour burden follicular lymphoma: a randomised, double-blind, parallel-group, phase 3 trial. Lancet Haematol. 2018; 5 (11): e543 - e553.
11. Wilson R, Makuch M, Kienzler AK, et al. Condition-dependent generation of aquaporin-4 antibodies from circulating B cells in neuromyelitis optica. Brain. April 2018; 141(4): 1063–74.
12. Sellner J, Boggild M, Clanet M, et al. EFNS guidelines on diagnosis and management of neuromyelitis optica. EJN. 2010; 17: 1019 – 32.
13. Sherman E and Han MH. Acute and chronic management of neuromyelitis optica spectrum disorder. Curr Treat Options Neurol. 2015; 17(11): 48 – 62.
14. Nikoo Z, Badihian S, Shaygannejad V, et al. Comparison of the efficacy of azathioprine and rituximab in neuromyelitis optica spectrum disorder: a randomized clinical trial. J Neuro. 2017; 264: 2003 - 9.
15. Damato V, Evoli A, & Iorio R. Efficacy and safety of rituximab therapy in neuromyelitis optica spectrum disorders: a systematic review and meta-analysis. JAMA Neurol. 2016; 73: 1342 - 8.
16. Etemadifar M, Salari M, Mirmosayyeb O, et al. Efficacy and safety of rituximab in neuromyelitis optica: review of evidence. J Res Med Sci. 2017; 22: 18.
17. IPD Analytics. Enspryng (satralizumab-mwge) New Drug Review. September 2020.
18. Singh JA, Saag KG, Bridges SL, et al. 2015 american college of rheumatology guideline for the treatment of rheumatoid arthritis. Arthritis Rheumatol. 2016 Jan; 68 (1): 1 - 26.
19. Yates M, Watts RA, Bajema IA, et al. EULAR/ERA-EDTA recommendations for the management of ANCA-associated vasculitis. Ann Rheum Dis. 2016; 75: 1583 – 94.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
3.0	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
2.9	Effective Date: 01/01/2026	UM medical management system removal for Truxima for BCBS and BCN
2.8	Effective Date: 06/05/2025	Updated to remove the statement requiring a rationale for use of Rituxan Hycela over rituximab and added a statement requiring trial and failure of intravenous rituximab prior to use of Rtiuxan Hycela
2.7	Effective Date: 04/10/2025	Annual review of criteria was performed, no changes were made
2.6	Effective Date: 01/01/2025	UM medical management system update for Truxima for BCBS and BCN and UM medical management system removal for Riabni for BCBS and BCN
2.5	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
2.4	Effective Date: 04/06/2023	Updated the approval duration to allow for at least 60 days and up to 6 months of therapy
2.3	Effective Date: 04/14/2022	Annual review of criteria was performed, no changes were made.
2.2	Effective Date: 04/08/2021	Updated to remove FDA approved indication from the Rituxan and rituximab biosimilar products
2.1	Effective Date: 04/01/2021	UM medical management system update for Rituxan and Truxima for BCBS, BCN, BCNA, and MAPPO
2.0	Effective Date: 02/04/2021	Updated to remove prescriber requirement, not allow use with other medications for the treatment of NMOSD, remove the bullet saying Rituxan Hycela cannot be used for non-cancer indications, removed bullet stating the drugs should not be used in cases of severe infection, and added Riabni
1.9	Effective Date: 02/06/2020	Updated to add new Truxima indications
1.8	Effective Date: 12/05/2019	Updated to remove age requirements for Rituxan and added FDA approved age for age requirements
1.7	Effective Date: 08/15/2019	Updated to add new Truxima indications and Ruxience
1.6	Effective Date: 02/14/2019	Added Criteria for Truxima
1.5	Effective Date: 11/01/2018	Pemphigus Vulgaris indication added

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.4	Effective Date: 09/07/2018	The Treatments for RA Policy is being retired; adding RA criteria back in this document.
1.3	Effective Date: 02/08/2018	Added Criteria for Rituxan Hycela
1.2	Effective Date: 05/04/2017	Update to include neuromyelitis optica
1.1	Effective Date: 02/09/2017	Annual review of criteria was performed, no changes were made.
1.0	Effective date: 11/05/2015	New Policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Rivfloza™ (nedosiran)
HCPCS: J3490

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Rivfloza is a small interfering ribonucleic acid (siRNA) that inhibits the production of the hepatic lactase dehydrogenase (LDH) enzyme – an enzyme that is involved in the conversion of glyoxylate to oxalate. Rivfloza is approved to lower urinary oxalate levels in children 9 years of age and older and adults with PH1 and relatively preserved kidney function, e.g., eGFR ≥ 30 ml/min/1.73 m^2.

- Primary hyperoxaluria (PH) is an ultra-rare genetic disease characterized by recurrent kidney and bladder stones. There are three types of PH that differ in their severity and underlying genetic mutation: PH1, PH2, and PH3. PH1 is the most common form of PH, accounting for around 80% of total cases and affecting approximately 3,000 to 5,000 patients in the US. PH1 patients have a mutation of the AGXT gene, which results in decreased or absent hepatic enzyme alanine-glyoxylate aminotransferase (AGT). AGT converts glyoxylate to glycine, and a decrease or absence of AGT brings about an increase in glyoxylate and oxalate. The excess production of oxalate by the liver results in the deposition of calcium oxalate crystals in the kidneys and urinary tract and can lead to the formation of painful and recurrent kidney stones, nephrocalcinosis, progression to kidney failure, and systemic organ dysfunction. PH1 can be suspected in patients with increased urinary oxalate excretion, indicated by levels >1 mmol/1.73 m^2 per day. Genetic testing for a mutation in the AGXT gene confirms the PH1 diagnosis.

- Conservative treatment is generally recommended following a diagnosis of PH1, which includes hyperhydration, alkalizing the urine, and trialing pyridoxine. Hyperhydration is a common supportive measure for management of PH1. Increasing fluid intake to 3 L/m^2 body surface area (BSA) per day can create higher urinary output, which decreases tubular fluid oxalate concentration and intratubular deposition, thereby preventing oxalate accumulation in the kidney. Experts recommend this approach of increasing fluid intake to help manage PH1. Pediatric patients may require a gastronomy tube to meet the high daily fluid requirement. Urinary alkalinization should also be started to prevent stone formation. Potassium citrate (0.1 to 0.15 g/kg) can be used to decrease the amount of calcium oxalate. The citrate component will allow calcium citrate to form, which is much more soluble than calcium oxalate. Urinary pH must be kept between 6.2 and 6.8 to be alkaline.

- Prior to the approval of Oxlumo and Rivfloza, high-dose vitamin B-6 (pyridoxine), a cofactor for the AGT enzyme, was the only treatment proven to target the underlying pathophysiology of PH1. In 30-50% of PH1 patients, vitamin B-6 reduces oxalate levels and prevents accumulation in the kidneys. Responsiveness to vitamin B-6 is defined as a >30% decrease in urinary oxalate excretion after a minimum trial period of 3-6 months at the maximum tolerated dose. Experts recommend a starting dose of 5 mg/kg/day, with a maximum daily dose of 20 mg/kg. Sensory neurotoxicity is a rare, dose limiting side effect of vitamin B-6.

- Oxlumo was the first FDA-approved medication indicated for the treatment of PH1 to lower urinary and plasma oxalate levels in pediatric and adult patients. Oxlumo is an RNA interference therapy that reduces levels of the glycolate oxidase (GO) enzyme by targeting mRNA in the hepatocytes. Decreased GO enzyme levels reduce the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

amount of available glyoxylate, which is the substrate for oxolate production. The GO enzyme is upstream from the deficient AGT enzyme that causes PH1; therefore, the mechanism of action of Oxlumo is independent of the underlying AGXT gene mutation.

- The safety and efficacy of Rivfloza was established in the randomized, double-blind, placebo-controlled Phase II PHYOX2 trial which enrolled 35 patients aged 6 years or older with PH1 or PH2 and an eGFR ≥ 30 ml/min/1.73 m^2. Too few patients were enrolled to evaluate the efficacy in the PH2 population, therefore Rivfloza is only indicated for patients with PH1. Key exclusion criteria included prior kidney or liver transplantation, current or planned dialysis during the trial period, planed transplantation during the trial period, and use of an RNAi drug within the last 6 months.
    - Patients were randomized to receive monthly doses of Rivfloza (n=23) or placebo (n=12). The Rivfloza dose for patients at least 12 years of age weighing at least 50 kg was 160 mg, for patients at least 12 years of age weighing less than 50 kg was 128 mg, and for children 6 to 11 years of age was 3.3 mg/kg (to a maximum of 128 mg).
    - The primary endpoint was the area under the curve, from days 90 to 180, of the percent change in baseline in 24-hour urinary oxalate excretion (AUC24-hour Uox). The least-squares (LS) mean AUC24-hour Uox was -3486 in the Rivfloza group compared to +1490 in the placebo group, for a between group difference of 4976.
    - The LS mean percent change from baseline in 24-hour urinary oxalate excretion averaged over days 90, 120, 150, and 180 was -37% in the Rivfloza group and 12% in the placebo group for a between group difference of 49%. Among patients with PH1, the between group difference was 56%.
- Clinical trials have shown that Oxlumo and Rivfloza can effectively treat the underlying pathophysiology of oxalate overproduction. Data to show that Oxlumo or Rivfloza delays or precludes the need for liver and/or kidney transplantation will impact these therapies prospective value.
    - Systemic oxalosis is defined as the spread of oxalate to organs outside of the kidneys, such as the joints, skin, bones, and heart. This can lead to organ dysfunction and death. One registry study found that around 40% of patients present with end-stage renal disease (ESRD) at the time of PH1 diagnosis, representing a significant proportion of the PH1 patient population.
    - In patients with PH1, aggressive hemodialysis is indicated once plasma oxalate levels exceed 30 mmol/L to prevent systemic oxalosis. Patients with PH1 and advanced renal disease carry a higher risk for systemic oxalosis, as renal excretion of oxalate is greatly reduced as eGFR declines, leading to an increase in plasma oxalate levels. Peritoneal dialysis alone does not achieve sufficient oxalate clearance; however, peritoneal dialysis in combination with hemodialysis may be necessary for those who do not respond to hemodialysis alone.
    - Dialysis is often used as a bridge to future liver and/or kidney transplantation in patients with PH1. Patients with a history of liver and/or kidney transplantation were excluded from all Oxlumo and Rivfloza trials, as removal of the patient's native liver is considered curative by removing the source of oxalate overproduction. Subsequent kidney transplantation or simultaneous liver-kidney transplantation may be required for those with ESRD. The role of transplantation in the setting of PH1 may change in the future with the introduction of small-interfering RNA therapies. However, additional long-term data is needed to understand whether these therapies can delay or eliminate the need for liver and/or kidney transplantation in patients with PH1.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Rivfloza [prescribing information]. Plainsboro, NJ. Novo Nordisk Inc. March 2025.
2. Novo Nordisk Press release. FDA approves Rivfloza™ for children ≥9 years old and adults living with primary hyperoxaluria type 1 (PH1), a rare genetic condition. October 2, 2023.
3. Oxlumo [prescribing information]. Cambridge, MA: Alnylam Pharmaceuticals; April 2025.
4. Milliner DS, Eickholt JT, Bergstralh EJ, et al. Results of long-term treatment with orthophosphate and pyridoxine in patients with primary hyperoxaluria. N Engl J Med 1994; 331:1553.
5. Danpure CJ. Molecular etiology of primary hyperoxaluria type 1: new directions for treatment. Am J Nephrol. 2005;25(3):303-310. doi:10.1159/000086362
6. Niaudet, P. Treatment of Primary Hyperoxaluria Type 1. UpToDate. Accessed on October 3, 2023. Available at: https://www.uptodate.com/contents/primary-hyperoxaluria#H3
7. Garrelfs SF, Frishberg Y, Hulton SA, et al. Lumasiran, an RNAi Therapeutic for Primary Hyperoxaluria Type 1. N Engl J Med. 2021;384(13):1216-1226. doi:10.1056/NEJMoa2021712
8. IPD Analytics. Oxlumo (lumasiran) New Drug Review. Published December 2020. Accessed December 10, 2020.
9. Hoyer-Kuhn H, Kohbrok S, Volland R, et al. Vitamin B6 in primary hyperoxaluria I: first prospective trial after 40 years of practice. Clin J Am Soc Nephrol. 2014;9(3):468-477. doi:10.2215/CJN.06820613
10. Cochat P, Hulton SA, Acquaviva C, et al. Primary hyperoxaluria Type 1: indications for screening and guidance for diagnosis and treatment. Nephrol Dial Transplant. 2012;27(5):1729-1736. doi:10.1093/ndt/gfs078
11. Baum MA, Langman C, Cochat P, Lieske JC, Moochhala SH, Hamamoto S, Satoh H, Mourani C, Ariceta G, Torres A, Wolley M, Belostotsky V, Forbes TA, Groothoff J, Hayes W, Tönshoff B, Takayama T, Rosskamp R, Russell K, Zhou J, Amrite A, Hoppe B; PHYOX2 study investigators. PHYOX2: a pivotal randomized study of nedosiran in primary hyperoxaluria type 1 or 2. Kidney Int. 2023 Jan;103(1):207-217. doi: 10.1016/j.kint.2022.07.025. Epub 2022 Aug 22. PMID: 36007597.
12. Groothoff, J.W., Metry, E., Deesker, L. et al. Clinical practice recommendations for primary hyperoxaluria: an expert consensus statement from ERKNet and OxalEurope. Nat Rev Nephrol 19, 194–211 (2023). https://doi.org/10.1038/s41581-022-00661-1

Policy History		
#	Date	Change Description
1.4	Effective Date: 12/04/2025	Annual review completed, no changes to criteria. Added ERKNet/OxalEurope clinical practice recommendations.
1.3	Effective Date: 12/12/2024	Annual review of policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.2</td><td>Effective Date: 02/12/2024</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/14/2023</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 10/19/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Roctavian™ (valoctocogene roxaparvovec)
HCPCS: J1412

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Roctavian is an adeno-associated virus vector-based gene therapy indicated for the treatment of adults with severe hemophilia A without antibodies to adeno-associated virus serotype 5 (AAV5).

- Hemophilia A is a rare genetic bleeding disorder in which affected individuals have insufficient levels of factor VIII. It is the second most common type of hemophilia and caused by mutations in the F8 gene. The F8 gene is located on the X chromosome and thus the disease is inherited as an X-linked recessive trait. About 30% of cases are the result of spontaneous genetic mutations. Overall incidence is estimated at 1 in 5,000 male births.

- The symptoms and severity of hemophilia A may vary greatly from one person to another. Hemophilia A can range from mild to moderate to severe.

- Mild hemophilia patients have a factor activity of 5% to 40% and usually do not experience any major problems in everyday life. It often goes unnoticed until puberty or adulthood when bleeding after surgery or a deep cut lasts longer than normal. These patients do not typically need prophylactic therapy and only require on-demand factor for injuries or surgeries.

- Moderate hemophilia patients have a factor activity of 1% to 5% and may have occasional episodes of spontaneous bleeding from deep tissues such as joints and muscles. These episodes are usually associated with some injury or inciting event. Individuals with moderate hemophilia A are at risk for prolonged bleeding following surgery or trauma. Affected individuals are usually diagnosed by 5 or 6 years of age. The frequency of spontaneous bleeding episodes in individuals with moderate hemophilia A is highly variable resulting in some patients needing consistent prophylactic factor VIII and others only needing on-demand factor VIII for medical procedures.

- Severe hemophilia patients have a factor level of less than 1% and often have bleeding for no known reason, especially in the joints and muscles. From infancy, patients bruise easily and as they become more active, learn to walk, and put more strain on their joints and muscles, bleeding starts to occur. Without preventative treatment, a young child may experience 2 to 5 spontaneous bleeding episodes per month.

- Hemophilia A should be suspected in individuals presenting with a history of easy bruising, spontaneous bleeding, particularly into the joints, muscles, and soft tissues, or excessive bleeding following trauma or surgery. If hemophilia is suspected, the clinician should obtain the patient's bleeding history and family history of abnormal or unexplained bleeding experienced by any siblings or maternal male relatives to assess patterns of inheritance and assist with diagnosis. A definitive hemophilia A

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

diagnosis is based on a factor assay to demonstrate a deficiency of factor VIII. Once an individual is diagnosed with hemophilia A, the specific mutation in the F8 gene responsible for causing hemophilia may be identified.

- The current standard of care for hemophilia A is the use of factor VIII replacement therapy. There are two types of factor products available to treat hemophilia which include plasma derived factor, entirely made of plasma from human donations and recombinant factor, which is made by genetically engineered technology, both with standard and extended half-life products. All factor products have demonstrated to have similar safety and efficacy in clinical studies treating or reducing bleeding episodes with the apparent difference in the frequency of administration: up to three times weekly injections for standard products and weekly or every two weeks for extended half-life products. To be enrolled in the GENEr8-1 trial, patients needed to be stable on factor VIII therapy for 12 months prior Roctavian administration.

- Hemlibra (emicizumab) is a recombinant, humanized, bispecific monoclonal antibody that bridges activated factor IX and factor X to restore the function of missing activated factor VIII in hemophilia A patients to restore hemostasis. It can be used to treat patients without inhibitors who continue having spontaneous bleeds on prophylactic factor VIII therapy. Failure of Hemlibra is denoted by spontaneous soft tissue bleeds, micro-bleeding into a joint, or ongoing joint pain of a known target joint.

- It is estimated that up to 30% of individuals with severe hemophilia A develop inhibitors against factor VIII replacement therapy. Inhibitors most often develop during childhood, especially during the first 20 exposure days. Exposure days are counted as a day during which a patient receives factor. Controlling bleeds is a greater challenge in hemophilia patients with inhibitors than in those without. Inhibitors to factor VIII are associated with a higher disease burden, including increased risk of musculoskeletal complications, pain, physical limitations, and treatment challenges, all of which may impact a patient's physical functioning, capacity for physical activities, and quality of life. The definition of a positive inhibitor is a Bethesda titer of greater than or equal to 0.6 BU for factor VIII. Patients positive for factor VIII inhibitors or with a prior history of factor VIII inhibitors were excluded from the GENEr8-1 trial. In order to limit the risk of inhibitor development following Roctavian therapy, the GENEr8-1 study also required patients had greater than 150 prior exposure days to factor IX therapy before receiving gene therapy.

- Roctavian uses an AAV5 vector to deliver a functional copy of the F8 gene to the patient's liver where functional factor VIII is produced. Patients with high AAV5 antibody titers may not respond to gene therapy due to the antibodies neutralizing Roctavian before the functional F8 gene can be properly incorporated into the patient's genome. The GENEr8-1 study excluded patients from the trial based on antibody titers and is only indicated in those without AAV5 antibodies.

- Roctavian has not been studied and there is no data to support use in combination with other gene therapies indicated for use in hemophilia A.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Roctavian [prescribing information]. Novato, CA: BioMarin Pharmaceutical Inc.; June 2023.
2. Clinicaltrials.gov. Study to evaluate the efficacy and safety of valoctocogene roxaparvovec, with prophylactic steroids in hemophilia A (GENEr8-3) (NCT04323098). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04323098. Accessed on June 30, 2023.
3. Ozelo MC, Mahlangu J, Pasi KJ, et al. Valoctocogene roxaparvovec gene therapy for hemophilia A. NEJM. 2022 March 17; 386: 1013 – 25.
4. National Organization for Rare Disorders. Hemophilia A. 2022 Aug 31. Available at: https://rarediseases.org/rare-diseases/hemophilia-a/?filter=ovr-ds-resources. Accessed on July 5, 2023.
5. World Federation of Hemophilia. Guidelines for the management of hemophilia. Haemophilia. 2020 August 3. Available at: https://onlinelibrary.wiley.com/doi/epdf/10.1111/hae.14046. Accessed on: July 5, 2023.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.9</td><td>Effective Date: 08/07/2025</td><td>Updated the provider portal from Audaire to the appropriate provider portal</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.7</td><td>Effective Date: 08/10/2023</td><td>New policy. This criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.6</td><td>Effective Date: 07/10/2023</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 07/06/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 04/06/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/14/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/08/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 04/16/2020</td><td>Criteria Update</td></tr>
<tr><td>1.0</td><td>Effective Date: 08/15/2019</td><td>Preliminary Drug Review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ryoncil® (remestemcel-L)
HCPCS: J3590

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ryoncil is an allogeneic bone marrow-derived mesenchymal stromal cell (MSC) therapy indicated for the treatment of steroid-refractory acute graft versus host disease (SR-aGvHD) in pediatric patients 2 months of age and older.

- Acute GVHD occurs in approximately 50% of patients who receive an allogeneic bone marrow transplant (BMT). Over 30,000 patients worldwide undergo an allogeneic BMT annually, primarily during treatment for blood cancers, including about 20% in pediatric patients. SR-aGVHD is associated with mortality as high as 90% and significant extended hospital stay costs. Prior to the approval of Ryoncil, there were no FDA-approved treatments in the US for children under 12 with SR-aGVHD. GVHD has been classically divided into acute and chronic variants based on the time of onset using a cutoff of 100 days. However, this conventional division has been challenged by the recognition that signs of acute and chronic GVHD may occur outside of these designated periods. Acute GVHD manifestations include: classic maculopapular rash, abdominal cramps with diarrhea, and rising serum bilirubin concentration. Patients who demonstrate progression of disease by day 5 or nonresponse by day 7 are considered to have corticosteroid resistance.

- The National Comprehensive Cancer Network (NCCN) Hematopoietic Cell Transplantation (HCT) guidelines Version 3.2025 recommend Jakafi as a category 1 option for patients with SR-aGVHD. At this time, Jakafi is only indicated for patients 12 years and older with SR-aGVHD. Per UpToDate for patients with aGVHD grade 2 or higher, systemic glucocorticoids are recommended.

- The safety and effectiveness of Ryoncil were evaluated in a multicenter, single-arm study in 54 pediatric study participants with SR-aGVHD after undergoing allogeneic hematopoietic stem cell transplantation (allo-HSCT). The study enrolled pediatric patients with SR-aGVHD Grade B to D (excluding Grade B skin alone) as per International Blood and Marrow Transplantation Registry Severity Index Criteria (IBMTR) after receiving allo-HSCT. SR-aGVHD was defined as aGVHD that progressed within 3 days or did not improve within 7 consecutive days of treatment with methylprednisolone 2 mg/kg/day or equivalent.

    - The main efficacy outcome measures were Day-28 overall response rate (complete response rate and partial response rate) and the duration of response.

    - The overall response rate was 70% with sixteen study participants (30%) having had a complete response to treatment 28 days after receiving Ryoncil, and 22 study participants (41%) having had a partial response.

        - Overall response rate at Day-28 by baseline disease severity is as follows: Grade B (3/6; 50%), Grade C (16/23; 70%), and Grade D (19/25; 76%).

    - The median duration of response, as calculated from Day-28 response to either progression (worsening by one stage in any organ without improvement in other organs in comparison to prior response assessment), new systemic therapy for aGVHD, or death from any cause, was 54 days

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Ryoncil [prescribing information]. New York, NY. Mesoblast, Inc. December 2024
2. BioSpace. Press Release. Mesoblast's RYONCIL® is the First U.S. FDA-Approved Mesenchymal Stromal Cell (MSC) Therapy - BioSpace December 18, 2024
3. National Comprehensive Cancer Network. NCCN Clinical Practice Guidelines in Oncology. Hematopoietic Cell Transplantation (HCT) (Version 3.2025)– September 24, 2025. NCCN.org
4. Chao NJ. Clinical manifestations, diagnosis, and grading of chronic graft-versus-host-disease. UpToDate. https://www.uptodate.com/contents/clinical-manifestations-diagnosis-and-grading-of-chronic-graft-versus-host-disease accessed August 2021

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date:
02/12/2026</td><td>Annual review – No changes to the criteria were made at this time.</td></tr>
<tr><td>1.5</td><td>Effective Date:
03/03/2025</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date:
03/31/2025

P&T Date:
02/13/2025</td><td>New policy.
This criteria replaces previously approved preliminary criteria.</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 01/09/2025</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 12/12/2024</td><td>Updated authorization period to align with OncoHealth preferred verbiage.</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.0</td><td>Effective Date: 06/08/2023</td><td>Preliminary drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ryplazim® (plasminogen)
HCPCS: J2998

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ryplazim is a plasma-derived human plasminogen indicated for the treatment of patients with plasminogen deficiency type 1 (hypoplasminogenemia).

- Plasminogen is a naturally occurring protein that is synthesized by the liver and circulates in the blood. Activated plasminogen, known as plasmin, is an enzymatic component of the fibrinolytic system and the main enzyme involved in the lysis of clots and clearance of extravasated fibrin. Activated plasminogen is also involved in wound healing, cell migration, tissue remodeling, angiogenesis, and embryogenesis.

- Plasminogen deficiency type 1 is a disorder that results in inflamed growths on the mucous membranes, which are the moist tissues that line body openings such as the eyelids and the inside of the mouth. The most common and visible lesion associated with plasminogen deficiency is ligneous conjunctivitis, which is characterized by thick, woody (ligneous) growths on the conjunctiva of the eye, and if left untreated, can lead to corneal damage and blindness. While ligneous conjunctivitis is the best characterized and visible lesion, plasminogen deficiency type 1 is a multi-systemic disease that can also affect the ears, sinuses, tracheobronchial tree, genitourinary tract, and gingiva.

- A diagnosis of plasminogen deficiency type 1 is based upon identification of characteristic symptoms, a family account of their medical history (anamnesis), a detailed patient history, and a thorough clinical evaluation. Specific laboratory tests can confirm a diagnosis, specifically tests that measure the activity of plasminogen, which will be severely deficient in individuals with plasminogen deficiency. The prevalence of plasminogen deficiency type 1 has been estimated at 1.6 per one million people.

- Congenital plasminogen deficiency type II, also called dysplasminogenemia, is not believed to be associated with any symptoms.

- 15 patients were enrolled in Ryplazim Trial 2, a single-arm, open-label, Phase II/III study. All study participants had a baseline plasminogen activity level <45% (normal plasminogen activity range is between 70% and 130%). All study participants showed an increase in baseline trough plasminogen activity levels during an initial 12-week treatment period (success defined as at least and absolute 10% above baseline for at least 3 measurements). Additionally, all patients with any lesion at baseline had at least 50% improvement in the number/size of their lesions.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Ryplazim [prescribing information]. Fort Lee, NJ; Prometic Bioproduction Inc. Novemer 2021
2. Plasminogen deficiency. Liminal BioSciences. https://liminalbiosciences.com/pipeline/plasminogen/plasminogen-deficiency-clinical-trials/ accessed July 2021
3. Tefs K, Gueorguieva M, Klammt J, et al. Molecular and clinical spectrum of type I plasminogen deficiency: a series of 50 patients. Blood. 2006;108(9):3021-3026.
4. IPD Analytics. Ryplazim (plasminogen, human-tvmh). New drug review. June 2021. Accessed July 15, 2021. https://www.ipdanalytics.com
5. National organization for rare disease NORD. Rare disease database, congenital plasminogen deficiency. https://rarediseases.org/rare-diseases/congenital-plasminogen-deficiency/ accessed July 2021

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.7</td><td>Effective Date: 08/13/2026</td><td>Annual review of medical policy. No changes to the criteria were made as this time.</td></tr>
<tr><td>1.6</td><td>Effective Date: 08/07/2025</td><td>Annual review of medical policy. No changes to the criteria were made as this time.</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/08/2024</td><td>Annual review of medical policy. No changes to the criteria were made as this time.</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/10/2023</td><td>Annual review of medical policy. No changes to the criteria were made as this time.</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/04/2022</td><td>Annual review of medical policy. No changes to the criteria were made as this time.</td></tr>
<tr><td>1.2</td><td>Effective Date: 01/17/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 09/17/2021</td><td>UM medical management system update BCBSM and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/12/2021</td><td>New policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Rystiggo® (rozanolixizumab-noli)
HCPCS: J9333

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Rystiggo is a neonatal Fc receptor blocker indicated for the treatment of generalized myasthenia gravis (gMG) in adult patients who are anti-acetylcholine receptor (AChR) or antimuscle-specific tyrosine kinase (MuSK) antibody positive

  - Myasthenia gravis is a rare autoimmune disease resulting from an immunologic attack of AChR, MuSK, and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular, or class I, MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Depending on the severity of muscle weakness, at this point MG is classified as either class II for mild, class III for moderate, and class IV for severe presentation. Those with class V disease require intubation due to profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Rystiggo has only been studied in patients with class II – IV disease. There is no safety and efficacy data to support use in patients with class I or V disease at this time.

  - Rystiggo is only indicated for use in patients with anti-AChR or anti-MuSK antibodies. An immunologic assay to detect for the presence of anti-AChR and anti-MuSK antibodies is the first step towards a diagnosis of MG. Once it is determined a patient has one of these antibody types, at least one other confirmatory test should be conducted. A positive edrophonium test, history of response to oral cholinesterase inhibitors, repetitive nerve stimulation (RNS), or single-fiber electromyography (SFEMG) all can be used to verify anti-AChR MG. Only a repetitive nerve stimulation (RNS) or single-fiber electromyography (SFEMG) can be used to confirm anti-MuSK antibody positive disease.

  - The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. MuSK antibody positive disease is not typically associated with thymic abnormalities or thymoma. The 2021 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on Class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Rystiggo has not been studied in patients who have undergone thymectomy within 6 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Rystiggo in these patient populations at this time regardless of antibody status.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy of Rystiggo were established in the MycarinG trial, a multicenter, randomized, double-blind, placebo-controlled study of 200 adult patients with gMG who were anti-AChR antibody positive or anti-MuSK antibody positive. Patients had class II – IV disease and were already stable on at least one treatment, which included acetylcholinesterase inhibitors, corticosteroids, or immunosuppressants, for MG prior to study entry. They also had a Myasthenia Gravis Activities of Daily Living (MG-ADL) score of at least 3 with at least 3 points from non-ocular symptoms. Patients were randomly assigned 1:1:1 to receive weight-tiered doses of Rystiggo equivalent to approximately 7 mg/kg or approximately 10 mg/kg or placebo administered as six subcutaneous infusions per cycle with one infusion given per week repeated as needed depending on clinical response no sooner than 63 days after initiation of the previous cycle. The primary endpoint the change from baseline to day 43 in the myasthenia gravis activities of daily living (MG-ADL) score. The trial met its primary endpoint with reductions in MG-ADL score from baseline to day 43 were greater in the Rystiggo 7 mg/kg group and in the Rystiggo 10 mg/kg group than with placebo which was statistically significant for both groups (p-value < 0·0001).

- Standard therapies recommended by the 2021 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, rituximab, Soliris®, IVIG, and PLEX.

- Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

- Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

- Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no more frequently than every 3 to 6 months. Once the patient experiences treatment effect doses should be maintained for six months to two years of therapy and then tapered to the lowest effective dose.

- Oral methotrexate may be considered as a steroid-sparing agent in patients with generalized MG who have not tolerated or responded to steroid-sparing agents that are better supported by randomized clinical trial data.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX. Patients were excluded from the ADAPT trial if they had received IVIG or undergone PLEX 1 month prior to the start of the study.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. Treatment guidelines state rituximab should be considered as an early therapeutic option in patients with MuSK antibody positive MG who have an unsatisfactory response to initial immunotherapy. The efficacy of rituximab in refractory AChR antibody positives MG is uncertain. It is an option if patients fail or do not tolerate other immunosuppressive agents. Patients were excluded from the ADAPT trial is they had used rituximab 6 months prior to the start of Vyvgart therapy.

- Soliris should be considered in the treatment of severe, refractory, AChR antibody positive generalized MG. Until further data become available to allow comparisons of cost and efficacy with other treatments guidelines state, Soliris should be considered after trials of other immunotherapies have been unsuccessful in meeting treatment goals. Pateints were excluded from the ADAPT trial is they had received Soliris 6 months prior to the start of Vyvgart therapy.

- Rystiggo have not been studied and there is no data to support use in combination with other medications used to treat MG, such as, Soliris.

References:

1. Rystiggo [prescribing information. Smyrna, GA: UCB, Inc.; March 2025.
2. Bril V, Drużdż A, Grosskreutz J, et al. Safety and efficacy of rozanolixizumab in patients with generalised myasthenia gravis (MycarinG): a randomised, double-blind, placebo-controlled, adaptive phase 3 study. Lancet Neurol. 2023 May; 22 (5): 383 – 94.
3. Trouth AJ, Dabi A, Solieman N, at al. Myasthenia gravis: a review. Autoimmune Dis. 2012; 2012: 874680.
4. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2016 Jul 26; 87 (4): 419 - 25.
5. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
6. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
7. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
8. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 – 84

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 08/13/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/08/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/10/2023</td><td>New Policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 07/13/2023</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 07/10/2023</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Rytelo™ (imetelstat)
HCPCS: J0870

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Rytelo is an oligonucleotide telomerase inhibitor indicated for the treatment of adult patients with low- to intermediate-1 risk myelodysplastic syndromes (MDS) with transfusion-dependent anemia requiring 4 or more red blood cell (RBC) units over 8 weeks who have not responded to, have lost response to, or are ineligible for erythropoiesis-stimulating agents (ESA).

- MDS are a group of blood cancers that occur as a result of disordered development of blood cells within the bone marrow. The World Health Organization (WHO) has classified six types of MDS based on how many early cell types show dysplasia, the type of cytopenias a patient is experiencing, the portion of ring sideroblasts, the portion of blasts in the blood or bone marrow, and the type of genetic mutations in the bone marrow cells. Rytelo was only studied in patients without a del 5q cytogenetic abnormality. The classification system for MDS automatically classifies patients with the del 5q mutation as a separate unique subtype.

- One in three patients with MDS will progress to acute myeloid leukemia (AML). Risk of disease progression to AML and risk of mortality are assessed using the International Prognostic Scoring System (IPSS) or Revised International Prognostic Scoring System (IPSS-R). Both the IPSS and IPSS-R risk stratify patients with newly diagnosed MDS into risk categories based on blast percentage, number of cytopenias, and cytogenetic profile. The IPSS-R categorizes patients into 1 of 5 groups, from very low risk to very high risk using the patient's disease presentation including cytogenic groups, percentage of medullary blasts, hemoglobin, platelets, and absolute neutrophil count. Very low, low, or intermediate risk on the IPSS-R are conventionally defined as a risk score in the low or intermediate-1 range on the IPSS scale. Rytelo was only studied in patients classified as low or intermediate-1 risk disease using the IPSS.

- Safety and efficacy of Rytelo were evaluated in the IMerge trial, a randomized, double-blind, placebo-controlled, phase III study of 178 patients with low- to intermediate-1 risk MDS. Subjects were enrolled in the trial if they met the following criteria: RBC transfusion-dependent, defined as requiring at least 4 RBC units transfused over an 8 week period during the 16 weeks prior to randomization; pre-transfusion hemoglobin (Hgb) less than or equal to 9.0 g/dL; relapsed or refractory to ESA treatment or have an erythropoietin level greater than 500 mU/mL; an absolute neutrophil count (ANC) greater than or equal to 1.5 x 10^9/L independent of growth factor support; and platelets greater than or equal to 75 x 10^9/L independent of platelet transfusion. Refractory to ESAs was defined as at least one of the following: non-response or response that is no longer maintained to a prior ESA-containing regimen of either recombinant human erythropoietin > 40,000 IU/week for at least 8 doses or equivalent OR darbepoetin alpha > 500 µg every 3 weeks for at least 4 doses or equivalent. Patients were ineligible if they had del(5q) cytogenetic abnormality. The primary endpoint was 8 week and 24 week RBC transfusion independence (RBC-TI) defined as the proportion of subjects without any RBC transfusion during any consecutive 8 weeks or 24 weeks starting from study day 1 until subsequent anti-cancer therapy, if any. Median follow-up was 19.5 months (range: 12.0, 23.4) in the Rytelo group and 17.5 months (range: 12.1, 22.7) in the placebo group. Rytelo demonstrated significantly higher rates of RBC-TI versus placebo for at least eight consecutive weeks

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

(Rytelo 39.8% [95% CI: 30.9, 49.3]; placebo 15.0% [95% CI: 7.1, 26.6]; p-value < 0.001) and for at least 24 weeks (Rytelo 28.0% [95% CI: 20.1, 37.0]; placebo 3.3% [95% CI: 0.4, 11.5]; p-value < 0.001). RBC-TI was durable and sustained in the Rytelo treated population, with a median RBC-TI duration for 8-week responders and 24-week responders of approximately 1 year and 1.5 years, respectively.

- The current NCCN guidelines recommend ESAs as the preferred treatment in all patients and Reblozyl® as an alternative unless their serum erythropoietin is greater than 500 mU/mL in those with ring sideroblasts less than 15% or ring sideroblasts less than 5% with an SF3B1 mutation. Reblozyl is recommended first-line in instances where a patient presents with an erythropoietin greater than 500 mU/mL or a patient has ring sideroblasts greater than or equal to15% or ring sideroblasts greater than or equal to 5% with an SF3B1 mutation.

References:

1. Rytelo [prescribing information]. Foster City, CA: Geron Corporation; June 2024.
2. Clinicaltrials.gov. Study to evaluate imetelstat (GRN163L) in subjects with international prognostic scoring system (IPSS) low or intermediate-1 risk myelodysplastic syndrome (MDS) (NCT02598661). Available at: https://classic.clinicaltrials.gov/ct2/show/NCT02598661. Accessed on April 9, 2024.
3. Platzbecker U, Santini V, Fenaux P, et al. Imetelstat in patients with lower-risk myelodysplastic syndromes who have relapsed or are refractory to erythropoiesis-stimulating agents (IMerge): a multinational, randomised, double-blind, placebo-controlled, phase 3 trial. Lancet. 2024 Jan 20; 403 (10423): 249 – 60.
4. American Cancer Society. What are myelodysplastic syndromes. 2018 Jan 22. Available at: https://www.cancer.org/cancer/myelodysplastic-syndrome/about/what-is-mds.html. Accessed on June 9, 2024.
5. Leukemia and Lymphoma Society. Myelodysplastic syndromes. Available at: https://www.lls.org/search?search=myelodysplastic+syndromes. Accessed on June 9, 2024.
6. Greenberg P, Cox C, LeBeau MM, et al. International scoring system for evaluating prognosis in myelodysplastic syndromes. Blood. 1997; 89: 2079 – 88.
7. Greenberg PL, Tuechler H, Schanz J, et al. Revised international prognostic scoring system for myelodysplastic syndromes. Blood. 2012; 120: 2454 – 65.
8. National Comprehensive Cancer Network. Myelodysplastic syndromes (Version 2.2025). 2025 Jan 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mds.pdf. Accessed on June 12, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 08/13/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/07/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/08/2024</td><td>New policy. UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/06/2024</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Saphnelo™ (anifrolumab-fnia)
HCPCS: J0491

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Saphnelo is a type I interferon (IFN) receptor antagonist indicated for the treatment of adult patients with moderate to severe systemic lupus erythematosus (SLE), who are receiving standard therapy. Efficacy has not been evaluated in patients with severe active lupus nephritis or severe active central nervous system lupus and use is not recommended in these situations.

- Use of Saphnelo also has not been studied in combination with other biologic therapies and is not recommended.

- Diagnosis of SLE was defined in the clinical trials by positive antinuclear antibody (ANA) titers (≥ 1:80), anti-double stranded DNA (dsDNA) antibodies, or anti-Smith (anti-Sm) antibodies upon study screening. The 2019 EULAR/ACR classification system for SLE allow ANA levels to be used as a qualifier for SLE, however, because ANA can elevate transiently and also be a marker for other diagnoses, a second confirmatory test must be done to confirm seropositivity. While other classification systems exist to define lupus, these systems do not ensure patients are seropositive as they only have to meet a certain number of criterion for diagnosis. Those criterion may or may not include positive tests for elevated ANA, anti-dsDNA titers, or anti-SM antibodies.

- Saphnelo was studied in three multicenter, randomized, double-blind, placebo-controlled studies, MUSE, TULIP-1, and TULIP-2. All trials included patients who had positive ANA titers, dsDNA antibodies, or anti-SM antibodies at the time of study screening. Patients were stable and maintained on standard therapy throughout the study. TULIP-1's primary endpoint was the difference between the proportion of patients who achieved an SLE responder index-4 (SRI-4) response at week 52 with 300 mg Saphnelo versus placebo. TULIP-2's primary endpoint was the reduction in disease activity as measured by the BILAG-Based Composite Lupus Assessment (BICLA) scale. MUSE's primary endpoint was the percentage of patients achieving a SRI-4 response at week 24 with sustained reduction of oral corticosteroids. The SRI4 is a composite index requiring a 4-point reduction in the SELENA–SLEDAI score, no worsening (increase from baseline) in the physician's global assessment (on a 0 – 10-cm visual analog scale), and no new British Isles Lupus Assessment Group (BILAG) A organ domain score or 2 new BILAG B organ domain scores at week 52 compared with baseline. The BICLA scale can register both partial and complete improvement within an organ system unlike the SRI-4 which requires complete resolution within a particular item to register change and cannot capture partial improvements. While TULIP-1 did not show statistically significant differences in the primary endpoint between the Saphnelo group and placebo, there were positive results seen in the secondary endpoints. Therefore, studies continued with TULIP-2 and MUSE both of who's primary endpoints showed statistical significance between treatment groups.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2019 EULAR guidelines recommend use of hydroxychloroquine in all patients with the use of glucocorticoids to treat flares. The goal of therapy is for patients to get into remission or a state of low disease activity. If hydroxychloroquine use is still resulting in disease flare, use of immunosuppressants should be considered. The guidelines state Benlysta should be considered in patients who have failed hydroxychloroquine in combination with glucocorticoids and immunosuppressants. Guidelines have yet to be updated to include Saphnelo.

References:

1. Saphnelo [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals LP; August 2024.
2. Morand EF, Furie R, Tanaka Y, et al. Trial of anifrolumab in active systemic lupus erythematosus. NEJM. 2020; 382 (3): 211 - 21.
3. Furie R, Morand EF, Bruce IN, et al. Type I interferon inhibitor anifrolumab in active systemic lupus erythematosus (TULIP-1): a randomised, controlled, phase 3 trial. Lancet Rheumatol. 2019; 1 (4): e208 - e219.
4. Furie R, Khamashta M, Merrill JT, et al. Anifrolumab, an anti–interferon-α receptor monoclonal antibody, in moderate-to-severe systemic lupus erythematosus. Arthritis Rheumatol. 2017; 69 (2): 376 - 86.
5. Tunnicliffe DJ, Singh-Grewal D, Kim S, at al. Diagnosis, monitoring, and treatment of systemic lupus erythematosus: a systematic review of clinical practice guidelines. 2015 Oct; 67 (10): 1440 – 52.
6. Aringer M, Costenbader K, Daikh D, et al. 2019 european league against rheumatism/american college of rheumatology classification criteria for systemic lupus erythematosus. Arthritis Rheumatol. 2019 Sept; 71 (9): 1400 – 12.
7. The American College of Rheumatology response criteria for systemic lupus erythematosus clinical trials: measures of overall disease activity. Arthritis Rheum 2004; 50 (11): 3418-3426.

Policy History		
#	Date	Change Description
1.6	Effective Date: 10/09/2025	Annual review of policy. No changes were made to the criteria
1.5	Effective Date: 10/03/2024	Annual review of policy. No changes were made to the criteria
1.4	Effective Date: 10/12/2023	Annual review of policy. No changes were made to the criteria
1.3	Effective Date: 10/06/2022	Annual review of policy. No changes were made to the criteria
1.2	Effective Date: 10/07/2021	New Policy

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.1</td>
<td>Effective Date: 09/16/2021</td>
<td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td>
</tr>
<tr>
<td>1.0</td>
<td>Effective Date: 09/01/2021</td>
<td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Scenesse® (afamelanotide injectable implant)
HCPCS: J7352

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Scenesse is an alpha-melanocyte stimulating hormone analog indicated to increase pain free light exposure in adult patients with a history of phototoxic reactions from erythropoietic protoporphyria (EPP).

- EPP is an autosomal recessive, childhood-onset, rare porphyria with severe phototoxic manifestations. On sun exposure, patients experience prodromal symptoms, including tingling, burning, or itching, that serve as a warning signal, as continued exposure to sunlight leads to severe phototoxic pain and erythema and swelling of the exposed skin. The phototoxic pain is not responsive to treatment, including narcotic analgesics, and the severe pain may last for days. After experiencing the disabling phototoxic attacks, patients typically develop an ingrained fear of exposure to sunlight, leading to a conditioned behavior of sun avoidance that limits their daily activities and markedly impairs their quality of life.

- A diagnosis of EPP can be made in multiple ways if a patient is showing signs and symptoms of the disease. Biochemical testing is the most common method through which EPP is diagnosed via an elevated erythrocyte metal-free protoporphyrin greater than or equal to 85% of the total erythrocyte protoporpyrin level. Per Dr. Robert Desnick of Mount Sinai Hospital in New York City, an expert in EPP, diagnosis can also be made using the total erythrocyte protoporphyrin. He stated EPP will have a total erythrocyte protoporphyrin 50 to 100 times the upper limit of normal of the laboratory reference range. Finally, genetic testing can be done. Genetic testing will show two mutations of the ferrochelatase (FECH) gene. While there are over 200 known mutations of the FECH gene, 98% of EPP patients have an IVS3-48T>C variant. All biochemical and genetic testing should be performed in a laboratory that specializes in and is accredited in porphyria testing.

- The efficacy and safety of Scenesse was established in two Phase 3 studies. Patients in the United States and European Union were randomly assigned 1:1 to receive a subcutaneous implant of afamelanotide or placebo every 60 days for a six-month and a nine-month period, respectively. Patients in the US received 3 doses and those in the EU 5 doses. The study was designed to take place mostly during the summer months. The primary efficacy endpoint was duration of direct sunlight exposure between 10:00 am and 3:00 pm in the EU trial and 10:00 am and 6:00 pm in US trial on days when no pain was experienced (pain score of 0). There were 167 patients enrolled, 74 patients in the EU trial and 93 patients in the U.S. trial. Patients were excluded if they had a history of melanoma or other cancerous or precancerous skin lesions. In the United States, the median duration of pain-free time was longer over a 6-month period in the afamelanotide group compared to placebo (64.1 hours vs. 40.5 hours). In the European Union, the median duration of pain-free survival was longer over a 9-month period in the afamelanotide group compared to placebo (6.0 vs. 0.75).

References:

1. Scenesse [prescribing information]. West Menlo Park, CA: Clinuvel, Inc.; August 2024.
2. Langendonk JG, Balwani M, Anderson KE, et al. Afamelanotide for erythropoietic protoporphyria. NEJM. 2015; 373: 48 – 59.
3. Balwani M. National Organization for Rare Diseases. Erythropoietic protoporphyria and x-linked protoporphyria. Available at: https://rarediseases.org/rare-diseases/erythropoietic-protoporphyria/. Accessed on: September 3, 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4. Donker AE, Raymakers AEP, Valsveld LT, et al. Practice guidelines for the diagnosis and management of microcytic anemias due to genetic disorders of iron metabolism or heme synthesis. Blood. 2014 June 19; 123 (25): 3973 – 86.
5. Kushner JP and Phillips JD. Erythropoietic protoporphyria: multiple pathways to a common phenotype. Hematologist. 2013; 10 (5): 5 – 14.
6. Kopcke W and Krutmann J. Protection from sunburn with beta-carotene: a meta-analysis. Photochem Photobiol. 2008; 84 (2): 284.
7. Stozil U, Doss MO, and Schuppan D. Clinical guide and update on prophyrias. Gastroenter. 2019 August; 157 (2): 365 – 81.
8. Balwani M, Naik H, Anderson KE, et al. Clinical, biochemical, and genetic characterization of north american patients with erythropoietic protoporphyria and x-linked protoporphyria. JAMA Dermatol. 2017 Aug; 153 (8): 789 – 96.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.0</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.8</td><td>Effective Date: 10/12/2023</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.7</td><td>Effective Date: 10/06/2022</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.6</td><td>Effective Date: 10/07/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/08/2020</td><td>Updated testing requirements to allow genetic testing and use of total protoporphyrin and also added expert opinion</td></tr>
<tr><td>1.4</td><td>Effective Date: 03/16/2020</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 12/05/2019</td><td>Full drug review</td></tr>
<tr><td>1.1</td><td>Effective Date: 11/15/2019</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 11/07/2019</td><td>Preliminary drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Skyrizi™ (risankizumab-rzaa)

Skyrizi SC - HCPCS: J3590
Skyrizi IV - HCPCS: J2327

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Skyrizi is an interleukin (IL)-23 antagonist indicated for the treatment of moderate-to-severe psoriasis in adults who are candidates for systemic therapy or phototherapy, for the treatment of active psoriatic arthritis in adults, for the treatment of moderately to severely active Crohn's disease in adults, and for the treatment of moderately to severely active ulcerative colitis in adults.

- An intravenous (IV) formulation of Skyrizi is available and indicated specifically as induction therapy for both Crohn's disease and ulcerative colitis; the subcutaneous (SC) formulation is indicated for maintenance therapy for these indications. IV administration must be done by a healthcare provider using aseptic technique.

- Psoriasis

    - Psoriasis is a chronic, painful, and life-altering immune-mediated disease which predominantly manifests with skin and joint involvement. Patients may also experience significant cardiovascular and psychological comorbidities. Approximately 2% of U.S. adults are affected by psoriasis (men and women equally), and it can occur at any age. Approximately 90% of psoriasis-affected patients have plaque psoriasis, which is characterized by well-defined round or oval plaques that vary in size and often coalesce. The severity of psoriasis is defined as: mild = less than 3% of body affected; moderate = 3-10% of body affected; and severe being more than 10% of the body affected.

    - Per the 2020 Joint American Academy of Dermatology - National Psoriasis Foundation (AAD/NPF) guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures: topical corticosteroids provide a high efficacy and good safety option for patients with localized disease. They are generally recommended as first-line therapy. Choice of steroid potency may depend on severity, location, patient preference, and patient age, while the duration of treatment may vary with steroid potency, location and severity of disease often ranging from 2-12 weeks. Therapeutic regimens may include 2-4 weeks with a topical steroid applied twice daily, followed by a maintenance regimen where topical steroids are alternated with a steroid-sparing topical agent. Treatment with topical steroids for over 12 weeks is recommended under careful supervision by a physician.

    - Per the 2019 Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with phototherapy: phototherapy serves as a reasonable and effective treatment option for patients requiring more than topical medications and/or those wishing to avoid systemic medications or simply seeking an adjunct to a failing regimen. Guidelines also state that the majority of patients with mild-to-moderate disease have adequate disease control with topical therapies and phototherapy alone.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Per the Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies: many oral medications, including methotrexate, cyclosporine, and acitretin, have been used for decades to treat psoriasis, each with its own benefits and risks. Most work by targeting the immune system, whereas others, such as acitretin, work predominantly by decreasing keratinocyte hyperproliferation, thus restoring the normal epidermal differentiation. Both methotrexate and cyclosporine are category A guideline recommendations for the treatment of moderate to severe psoriasis in adults and for severe, recalcitrant psoriasis, respectively. Studies examining the use of methotrexate and cyclosporine in psoriasis showed the primary efficacy endpoints met within 12-16 weeks. Acitretin is a category B guideline recommendation as monotherapy for plaque psoriasis, with full treatment response expected within 3-6 months.

- Per the 2019 Joint AAD/NPF guidelines of care for the management and treatment of psoriasis with biologics: biologic agents, as monotherapy or combined with other topical or systemic medications, have a high benefit-to-risk ration. Tumor necrosis factor inhibitors (TNFi) and IL-12/IL-23, IL-23, and IL-17 products have a category "A" recommendation as a monotherapy treatment option for adult patients with moderate-to-severe plaque psoriasis. Guidelines do not recommend one product over another and note the similar efficacy seen across biologics within the same class. There are no published, robust studies to support the use of more than one biologic or targeted DMARD in combination.

- Psoriatic Arthritis

  - Psoriatic arthritis (PsA) is a chronic inflammatory disease often associated with psoriasis. Psoriasis is an autoimmune disease affecting the skin, resulting in scaly red and white patches. These patches, called plaques, may appear anywhere on the body. The inflammation may also develop in the joints, which is classified as PsA. PsA occurs in up to 30% of patients with psoriasis, most commonly appearing between the ages of 30 and 50. PsA causes pain, stiffness, and swelling in and around the joints. If not properly treated, progressive joint damage may occur.

  - Per the 2018 American College of Rheumatology (ACR)/National Psoriasis Foundation (NPF) guideline for the treatment of psoriatic arthritis, all recommendations for treatment-naive patients with active PsA are conditional based on low- to very-low quality evidence.

  - In treatment-naïve patients, oral systemic medications (OSMs), such as methotrexate, sulfasalazine, cyclosporine, and leflunomide, may be used in patients without severe psoriatic arthritis and without severe psoriasis. OSMs have robust longitudinal safety and efficacy data in patients with PsA. Maximal response to OSMs are most commonly achieved within 3 months of therapy.

  - If PsA remains active despite OSM therapy, switching to a TNFi, an interleukin-17 inhibitor (IL-17i), or an IL-12/23i biologic is recommended over switching to a different OSM. In this scenario, a TNFi biologic is conditionally recommended over an IL-17i or IL-12/23i biologic based on moderate quality evidence. Additional treatment options include Xeljanz/Xeljanz XR (tofacitinib) and Orencia® (abatacept). Detailed recommendations regarding subsequent therapies can be found in the 2018 ACR/NPF guideline for the treatment of psoriatic arthritis.

- Crohn's disease

  – Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

- Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

- A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

- Ulcerative Colitis

  - Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

  - The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

- The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

References:

1. Skyrizi [prescribing information]. North Chicago, IL. AbbVie Inc., June 2024.
2. Elmets CA, Lim HW, Stoff B, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy [published correction appears in J Am Acad Dermatol. 2020 Mar;82(3):780]. J Am Acad Dermatol. 2019;81(3):775-804. doi:10.1016/j.jaad.2019.04.042
3. Elmets CA, Korman NJ, Prater EF, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures [published online ahead of print, 2020 Jul 30]. J Am Acad Dermatol. 2020;S0190-9622(20)32288-X. doi:10.1016/j.jaad.2020.07.087
4. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
5. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072. doi:10.1016/j.jaad.2018.11.057
6. Singh JA, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis Rheumatol. 2019 Jan; 71 (1): 5-32.
7. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
8. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
9. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
10. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn’s Disease. Gastroenterology, 169, 1397-1448

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.4</td><td>Effective Date: 07/01/2026

P&T Date: 06/11/2026</td><td>Updated to remove conventional therapy requirement for Crohn’s disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.</td></tr>
<tr><td>2.3</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.2</td><td>Effective Date: 10/03/2024</td><td>Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria</td></tr>
<tr><td>2.1</td><td>Effective Date: 08/08/2024</td><td>Added ulcerative colitis indication</td></tr>
<tr><td>2.0</td><td>Effective Date: 08/10/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 08/04/2022</td><td>Added Crohn’s disease indication and new IV formulation</td></tr>
<tr><td>1.8</td><td>Effective Date: 12/09/2021</td><td>Removed FDA approved indications and phototherapy and oral DMARD requirements for psoriasis and added a trial of one topical corticosteroid for psoriasis.</td></tr>
<tr><td>1.7</td><td>Effective Date: 02/04/2021</td><td>Removal of the topical steroid critera for psoriasis indication</td></tr>
<tr><td>1.6</td><td>Effective Date: 12/03/2020</td><td>New policy replacing previously approved criteria that was embedded in the Skyrizi drug review. Previous criteria updated to align management between pharmacy and medical benefit for all listed indications. Skyrizi drug review document to be retired once new policy is approved</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/08/2020</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 06/11/2020</td><td>Annual review of medical policy</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 02/03/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 12/01/2019</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 10/01/2019</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/06/2019</td><td>Full Drug Review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Spevigo® (spesolimab-sbvo)
HCPCS: J1747

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Generalized pustular psoriasis (GPP) is a rare and potentially life-threatening neutrophilic skin disease characterized by flares consisting of widespread eruptions of painful, sterile pustules. Patients with acute GPP may appear systemically ill and require hospital admission for adequate supportive care, and flares can be so disruptive to the system that they can trigger sepsis, cardiovascular complications, and renal failure. It is estimated that 1 out of every 10,000 people has GPP, and because it is so rare the condition is often under- or mis-diagnosed. Mortality ranges from 2% to 16% with deaths often attributed to septic shock and cardiorespiratory failure. Clinical course of GPP varies and can be relapsing with recurrent flares or persistent with intermittent flares. Flare frequency varies among patients and may be spontaneous or triggered by stress, infection, medication, or pregnancy.

- Due to its rarity and heterogeneity of clinical presentations, GPP lacks an internationally accepted definition and diagnostic criteria. The European Rare and Severe Psoriasis Expert Network (ERASPEN), National Psoriasis Foundation (NPF), and International Psoriasis Council (IPC) have each presented their own consensus statement on GPP.

    - The ERASPEN consensus statement on phenotypes of pustular psoriasis (2017) defines GPP as macroscopically visible primary sterile pustules occurring on non-acral skin and not within psoriasis plaques. Per the ERASPEN, GPP may occur with or without systemic inflammation and with or without psoriasis vulgaris and should only be diagnosed when the condition has relapsed at least once or when it persists for more than 3 months. The ERASPEN also advises against counting pustules to measure GPP intensity as the spectrum can vary from discrete to confluent forms and notes there is an unmet need for development of a clinically validated standard to measure GPP severity.

    - The NPF in its 2024 consensus statement on GPP, states that the diagnosis of GPP be made based on the assessment of clinical features. It presents as recurrent episodes of disseminated, sterile, monomorphic pustules on a background of widespread erythema, with many patients presenting with systemic illness and laboratory anomalies. Skin biopsy is not considered a requirement for GPP diagnosis due to potential delays in treating a potentially life-threatening condition. Additionally , the consensus disagrees with utilization of the ERASPEN criteria to deny or delay treatment in practice, indicating that our experience in the United States has shown that GPP can also occur on acral surfaces and may last fewer than three months.

    - The IPC developed an international consensus definition and diagnostic criteria for GPP in 2024 to serve as a reference point for clinicians, though further validation is needed. It defines GPP as a systemic inflammatory disease characterized by cutaneous erythema and macroscopically visible sterile pustules. It may manifest with or without systemic signs and symptoms. It may or may not be associated with other types of psoriasis. It can present as an acute form with widespread pustular eruption or a subacute variant. Laboratory abnormalities may or may not be present. The IPC consensus agrees with the NPF, stating it is essential for a patient to have macroscopically visible sterile pustules on erythematous base for diagnosis, with location not restricted to the acral region or within psoriatic plaques. Additional supporting diagnostic criteria include: lakes of pus, painful skin, fatigue, fever, history of recurring flares, positive personal or family history of psoriasis, elevated C-reactive protein (CRP), leukocytosis, neutrophilia, abnormal laboratory tests such as hypocalcemia, hypoproteinemia,

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

hypoalbuminemia, abnormal liver or renal function, biopsy confirmation with presence of spongiform pustules of Kogoj, and any positive genetic finding (primarily *IL36RN* mutation, *MPO, AP153, SERPINA, CARD14*). The extent of body surface area involvement and the duration of pustulation were deemed nonessential for diagnosis. Additionally, the consensus emphasized actively ruling out differential diagnoses of GPP, like pemphigus and acute generalized exanthematous pustulosis

- The goals of treatment of GPP are to improve skin manifestations, alleviate systemic symptoms, and minimize the risk for life-threatening systemic complications. There are no standard US or international guidelines for the treatment of GPP as high-quality data on the efficacy of treatments is lacking. Treatment options include systemic therapies, topicals, and phototherapy. Phototherapy has a delayed onset of action, and due to the widespread nature of GPP topicals may not be practical; therefore, these therapies are typically reserved as adjuncts to systemic therapy for the treatment of GPP.

- Japanese guidelines for the treatment of GPP (2018), a 2012 consensus statement on GPP from the NPF Medical Board, and joint guidelines on the treatment of psoriasis from the American Academy of Dermatology and NPF (2019, 2020) recommend an oral retinoid (e.g. acitretin), cyclosporine, methotrexate, and various biologics as potential systemic treatments for GPP. In the United States, these therapies are used off-label to treat GPP flares. The choice of systemic agent is based on disease severity and may differ between those with severe acute disease and those with stable disease. It should be noted that demonstration of efficacy with any of these agents is solely based on limited evidence from case reports and small, uncontrolled trials. No randomized controlled trials or other comparative studies have been done comparing treatment methods.

- A retinoid like acitretin is considered a first-line agent for GPP. Improvement (i.e., cessation of new pustule formation, initial improvement in other clinical signs) is typically seen within 7 to 10 days of initiating therapy, and a complete response is noted after 2 to 3 months of treatment. Methotrexate is an alternative, particularly for those intolerant to retinoids, with significant clinical improvement expected within 8 to 12 weeks of treatment. These agents can be continued for long-term maintenance treatment once the flare has resolved; however, due to their slow onset of action they are best suited for patients with less severe disease.

- More severe, acute GPP flares require rapid stabilization and improvement. For these patients, faster-acting drugs such as cyclosporine, infliximab, and interleukin (IL)-17 and IL -23 receptor antagonists are preferred. Cyclosporine and infliximab have a longer history of use compared to the IL-17 and IL-23 biologics, and both therapies are supported by the AAD, NPF, and Japanese guidelines. Marked improvement is often seen within the first few days of treatment with either of these agents. Some case reports with cyclosporine have demonstrated near-complete remission within 2 weeks, and Japanese guidelines cite the effects of infliximab as apparent within 24-48 hours in many cases and a clear effect often seen after 1 to 3 administrations. Once the flare has resolved, patients can be transitioned to alternative therapies like methotrexate or a retinoid for maintenance, or they can remain on infliximab. For those treated with cyclosporine, however, transitioning to another drug for maintenance is recommended due to side effect concerns with prolonged cyclosporine use.

- IL-17 inhibitors that have demonstrated benefit in small studies and case reports in GPP flares include secukinumab, ixekizumab and brodalumab. These drugs are approved to treat GPP in Japan and the Japanese guidelines support their use. Ustekinumab, an IL-23 inhibitor, has shown some efficacy in case reports for GPP; however, it is not approved for this indication in Japan and the Japanese guidelines suggest reserving use for those resistant to other treatment modalities. Dosing of interleukin receptor antagonists generally reflects doses recommended for plaque psoriasis; however, the optimal treatment regimen for GPP is unknown.

- In addition to select interleukin receptor antagonists, the tumor necrosis factor (TNF) inhibitors adalimumab and etanercept have demonstrated successful control of GPP in small numbers of patients. These drugs are considered second-line therapies for GPP flares by the 2012 NPF consensus and Japanese guidelines. Of note, there are reports of TNF inhibitors inducing pustular psoriasis, including GPP.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Spevigo (spesolimab-sbvo) is the first and only therapy approved in the United States to treat GPP in adults and pediatric patients 12 years and older weighing at least 40 kg. It is an IL-36 inhibitor and is the first approved drug in this class. Loss-of-function mutations in the IL-36 receptor antagonist gene and other associated genes as well as overexpression of IL-36 cytokines in GPP skin lesions have been found in patients with GPP and support the role of the IL-36 pathway in the disease process.

- Spevigo for GPP flares was evaluated in the Phase II, randomized, multicenter, double-blind, placebo-controlled Effisayil-1 trial. Adults 18 to 75 years of age who had a history of GPP consistent with the ERASPEN diagnostic criteria and presenting with a GPP flare were randomly assigned in a 2:1 ratio to receive a single IV dose of Spevigo (n=35) or placebo (n=18). Patients were followed through week 12. The primary endpoint was a Generalized Pustular Psoriasis Physician Global Assessment (GPPGA) pustulation sub-score of 0 (no visible pustules) at the end of week 1. The key secondary end point was a GPPGA total score of 0 or 1 (clear or almost clear skin) at the end of week 1. Scores range from 0 to 4, with higher scores indicating greater disease severity. Refer to Appendix A for a full description of the GPPGA.

    - Trial participants were required to have a GPP flare of moderate to severe intensity as defined by the following:

        - A GPPGA total score of $\geq$ 3,

        - New or worsening pustules,

        - A GPPGA pustulation sub-score of $\geq$ 2, and

        - $\geq$5% of body-surface area with erythema and the presence of pustules.

    - At the end of week 1, 54% (19 of 35) patients in the Spevigo group met the primary endpoint compared to 6% (1 in 18) in the placebo group ($p<0.001$). Additionally, 43% (15 of 35) of patients treated with Spevigo showed clear/almost clear skin compared to 11% (2 of 18) in the placebo group ($p=0.02$).

    - Patients in both groups were eligible to receive a single open-label dose of Spevigo on day 8 if the flare symptoms persisted as defined by a GPPGA total score $\geq$ 2 at the end of week 1, a clinician assessment of GPP severity based on a modified Physician Global Assessment, and a GPPGA pustulation sub-score of $\geq$2 at week 1.

    - Both groups were also eligible to receive rescue treatment with a single dose of Spevigo in the case of flare reoccurrence after week 1, which was defined as an increase of $\geq$2 points in both the GPPGA total score and the pustulation sub-score after a GPPGA total score of 0 or 1 had been reached. It should be noted that only one rescue dose with Spevigo was allowed in the trial if a patient experienced a reoccurrence of a GPP flare after achieving clinical response to either Spevigo at day 1, placebo at day 1, escape medication, or an open-label dose of Spevigo at Day 8. Subsequent flares were treated with standard of care therapy per the physician's discretion.

    - All patients in the trial were followed through 12 weeks. Effect on pustular and skin clearance was sustained over 12 weeks, with 84.4% who received Spevigo having no visible pustules after the 12 week trial duration, and 81.3% having clear/almost clear skin. Additionally, clearance was accompanied by clinically significant improvements in quality of life and symptoms such as pain and fatigue.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- For patients not experiencing a flare, the Phase IIb, randomized, double-blind, placebo-controlled Effisayil-2 trial evaluated the safety and efficacy of Spevigo for SC administration in patients 12 to 75 years of age with a documented history of GPP consistent with the ERASPEN diagnostic criteria, a history of at least 2 GPP flares of moderate to severe intensity with new or worsening pustulation, and a GPPGA score of 0 or 1. Patients already receiving GPP treatment prior to randomization were required to discontinue treatment and must have had a history of flaring while on concomitant treatment for GPP or in case of dose reduction or discontinuation of these concomitant medications. Patients who were not on concomitant GPP treatment at randomization were required to have had at least two moderate to severe GPP flares in the past year, with at least one displaying evidence of either fever and/or elevated C-reactive protein and/or elevated white blood count, and/or asthenia, and/or myalgia.

    - Participants (n=123) were randomized 1:1:1:1 to one of four treatment arms: Spevigo 600 mg SC loading dose followed by 300 mg SC every 4 weeks (high dose); Spevigo 600 mg SC loading dose followed by 300 mg SC every 12 weeks (medium dose); Spevigo 300 mg SC loading dose followed by 150 mg SC every 12 weeks (low dose); or matched placebo.

    - The primary endpoint was the time to first GPP flare up to week 48, defined by a Generalized Pustular Psoriasis Physician Global Assessment (GPPGA) pustulation sub-score > 2 and an increase in GPPPGA total score by > 2 from baseline.

    - Results demonstrated that treatment with SC Spevigo (high dose) significantly reduced the risk of GPP flares by 84% over 48 weeks compared to placebo; by week 48, 3 (10%) of 30 patients in the high dose group experienced GPP flares compared to 16 (52%) of 31 patients in the placebo group.

- To treat a GPP flare, Spevigo is recommended as a single IV infusion. If flare symptoms persist, an additional dose may be administered one week after the initial dose. For patients not experiencing a flare, Spevigo is recommended as a subcutaneous (SC) injection for maintenance to prevent flare occurrence. Treatment with SC Spevigo is initiated with a 600 mg loading dose, followed by a maintenance dose of 300 mg every 4 weeks. All SC doses can be administered by the patient or their caregiver except for the loading dose using the 150 mg syringe, which requires administration by a healthcare professional per the prescribing information. Should a patient experience a flare during treatment with SC Spevigo, the flare can be treated with IV Spevigo. A loading dose is not required following treatment of a flare with IV Spevigo.

- Spevigo fills an unmet need as the only FDA-approved treatment for GPP; however, the off-label alternatives that have historically been used can also be used for both GPP flares and prevention and provide more cost-effective alternatives by comparison. There is no literature comparing the safety and efficacy of Spevigo to that of alternatives to determine differences in clinical efficacy. The NPF strongly advocates for timely access to FDA-approved therapies for GPP like Spevigo as delays may increase mortality risk in patients with more rapidly progressing GPP. Ultimately, the choice of therapy is dependent on the individual patient and may differ between those with severe acute disease and those with stable disease.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Armstrong AW, Elston CA, et al. Genealized pustular psoriasis: A consensus statement from the National Psoriasis Foundation. J Am Acad Dermatol 2024;90:727-30.
2. Bachelez H, Choon SE, et al. Trial of Spesolimab for Generalized Pustular Psoriasis. N Engl J Med 2021; 385: 2431-40.
3. Burden AD, et al. Clinical Disease Measures in Generalized Pustular Psoriasis. Am J Clin Dermatol (2022) 23 (Suppl1):@39-s50. https://doi.org/10.1077/s40257-021-00653-0.
4. Choon SE, et al. International Consensus Definition and Diagnostic Criteria for Generalized Pustular Psoriasis from the International Psoriasis Council. JAMA Dermatol. 2024;160(7):758-768. doi:10.1001/jamadermatol.2024.0915
5. Fujita H, Terui T, et al. Japanese guidelines for the management and treatment of generalized pustular psoriasis: The new pathogenesis and treatment of GPP. Journal of Dermatology 2018; 45: 1235-1270.
6. Kalb RE. Pustular psoriasis: Management. In: UpToDate, Duffin KC (Ed), UpToDate, Waltham, MA. (Accessed April 11, 2024).
7. Kalb RE. Pustular psoriasis: Pathogenesis, clinical manifestations, and diagnosis. In: UpToDate, Duffin KC (Ed), UpToDate, Waltham, MA. (Accessed April 11, 2024).
8. Krueger J, Puig L, Thaci D. Treatment Options and goals for Patients with Generalized Pustular Psoriasis. Am J Clin Dermatol 23 (Suppl 1), 51–64 (2022). https://doi.org/10.1007/s40257-021-00658-9.
9. Manufacturer press release. FDA approves first treatment option for generalized pustular psoriasis flares in adults. September 1, 2022. Accessed on September 6, 2022. Available at: https://www.boehringer-ingelheim.us/press-release/fda-approves-first-treatment-option-generalized-pustular-psoriasis-flares-adults.
10. Menter A, Cordoro KM, Davis DMR, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis in pediatric patients. J Am Acad Dermatol 2020;82:161-201. https://doi.org/10.1016/j.jaad.2019.08.049
11. Menter A, Gelfand JM, Connor C, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol. 2020;82(6):1445-1486. doi:10.1016/j.jaad.2020.02.044
12. Menter A, Strober BE, Kaplan DH, et al. Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol. 2019;80(4):1029-1072. doi:10.1016/j.jaad.2018.11.057
13. Morita A, et al. Efficacy and safety of subcutaneous spesolimab for the prevention of generalised pustular psoriasis flares (Effisayil 2): an international, multicentre, randomised, placebo-controlled trial. Lancet 2023; 402: 1541–51.
14. Navarini AA, Burden AD, et al. European consensus statement on phenotypes of pustular psoriasis. J Eur Acad Dermatol Venerel. 2017 Nov;32(11):1792-1799. doi: 10.1111/jdv.14386.
15. Robinson A, Van Voorhees, AS, et al. Treatment of pustular psoriasis: From the Medical Board of the National Psoriasis Foundation. J Am Acad Dermatol 2012;67:279-88.
16. Spevigo [prescribing information]. Ridgefield, CT: Boeringer Ingelheim Pharmaceuticals; March 2024.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
1.8	Effective Date: 07/27/2026 P&T Date: 06/11/2026	Removed criteria requiring a history of generalized pustular psoriasis (GPP) as defined by the European Rare and Severe Psoriasis Expert Network due to not being implemented Added criteria clarification that treatment of flares pertains to intravenous formulation only, and prevention of flares applies to subcutaneous formulation only Added criteria requiring member to self-administer Spevigo for prevention of flares unless clinically unable to do so
1.7	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 07/01/2024	UM medical management system update for MAPPO and BCNA for Spevigo SC
1.5	Effective Date: 06/06/2024	Updated to add FDA approved indication criteria and criteria for members with GPP not experiencing a flare and authorization period and renewal criteria specific to Spevigo SC
1.4	Effective Date: 04/25/2024	UM medical management system update for BCBS and BCN for Spevigo SC
1.3	Effective Date: 10/12/2023	Annual review of criteria performed, no changes were made
1.2	Effective Date: 10/13/2022	UM medical management system update for BCBS and BCN for Spevigo IV
1.1	Effective Date: 10/06/2022	New policy
1.0	Effective Date: 09/26/2022	UM medical management system update for MAPPO and BCNA for Spevigo IV

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Spinraza® (nusinersen)
HCPCS: J2326

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- SMA is a severe, inherited progressive neuromuscular disease that causes devastating muscle atrophy and disease-related complications in approximately 4 to 10 per 100,000 live births. SMA is caused by a mutation in the survival motor neuron 1 (SMN1) gene that results in a deficiency of SMN protein. People have a "backup" copy of this gene called SMN2 that produces low levels of SMN protein. SMA varies in severity with four different types that inversely correlate to the number of SMN2 copies a person has. The type of SMA a person has is based on function and age of onset. Type 1 is the most severe type of SMA and the most common. It affects 6 out of every 10 children with SMA. Those with Type 1 have the fewest number of SMN2 copies (usually 2 or fewer). Type 1 patients have an age of onset usually between 0-6 months, and as the natural history of those with Type 1 SMA progresses the children will never be able to sit unsupported. Life expectancy of untreated Type 1 patients is less than 2 years old. Type 2 patients usually present around 7-18 months of age and will have the ability to sit but never stand. The majority of SMA Type 2 patients have 3 copies of SMN2. Type 3 SMA patients present after 18 months of age and usually are able to stand and walk. About 51% of the patients with SMA Type 3 have 3 copies of SMN2 while 46% have 4 copies of SMN2. Although there is an inverse correlation between severity of disease and number of SMN2 copies, diagnoses of type is not solely based on number of SMN2 copies.

- Spinraza is an antisense oligonucleotide that alters splicing of SMN2, increasing full-length, SMN (survival motor neuron) mRNA protein production. This is thought to improve motor function and achievement of motor milestones in patients and delays the progression in presymptomatic patients. Thus, early treatment is thought to result in the greatest potential benefit.

- Although approved to treat all SMA patients regardless of type and age:

    - Spinraza has only been studied in patients with SMA types 1-3 which make up approximately 95% of all SMA cases. SMA type 4 is usually later onset (often after age 30) and patients are able to achieve motor milestones and maintain mobility throughout life.

    - There is a lack of clinical data supporting the benefits of Spinraza on fully ventilato- dependent patients.

    - Therefore, the safety and efficacy of Spinraza has not been confirmed outside of the above patient population.

- SMA patients' motor function and ability are monitored in a variety of ways, including but not limited to Bayley Scales of Infant and Toddler development (BSID), Motor Function Measure 32 (MFM-32), Hammersmith Infant Neurological Exam (HINE), Hammersmith Functional Motor Scale Expanded (HFMSE), Revised Upper Limb Module (RULM) Test (non-ambulatory patients), Six-Minute Walk Test (6MWT) (ambulatory patients only) and Children's Hospital of Philadelphia Infant Test of Neuromuscular Disorders (CHOP INTEND).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There is currently no data supporting co-administration of Spinraza with other SMA therapies, in those who have received gene therapy for SMA, and in patients requiring invasive ventilation. The pivotal clinical studies did not include this patient population; therefore, the safety and efficacy of Spinraza is unknown in this patient population at this time.

- Bridging therapy with either Evrysdi® or Spinraza prior to the use of Zolgensma® can be appropriate in young patients with elevated anti-AAV9 antibodies. Elevated titers are not common (~13%) in SMA patients. Those that do have titers can get it from the placenta at birth from mothers who have acquired them. Just like other maternal antibodies passed on to children, these antibodies diminish over time. Bridging therapy allows patients to start therapy without delay, and waits for the titers to naturally diminish. Scientists have stressed the importance of treating SMA as early as possible and suggested that patients with elevated antibodies be given disease-modifying therapies that work through different mechanisms — Spinraza (nusinersen) or Evrysdi (risdiplam) — as "bridge treatments" until able to receive Zolgensma.

- Provider portals are used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Spinraza [Prescribing Information]. Cambridge, MA:Biogen; June 2020.
2. Wang CH, Finkel RS, Bertini ES, Schroth M, Simonds A, Wong B, Aloysius A, Morrison L, Main M, Crawford TO, Trela A; Participants of the International Conference on SMA Standard of Care.. Consensus statement for standard of care in spinal muscular atrophy. J Child Neurol. 2007 Aug;22(8):1027-49.
3. Finkel, Richard S et al. Treatment of infantile-onset spinal muscular atrophy with nusinersen: a phase 2, open-label, dose-escalation study. The Lancet , Volume 388 , Issue 10063 , 3017 – 3026.
4. Chiriboga CA, Swoboda KJ, Darras BT, Iannaccone ST, Montes J, De Vivo DC, Norris DA, Bennett CF, Bishop KM. Results from a phase 1 study of nusinersen (ISIS-SMN(Rx)) in children with spinal muscular atrophy. Neurology. 2016 Mar 8;86(10):890-7.
5. Daras BT, et al. Nusinersen in Treatment Naïve-Patients with Later-Onset SMA: Efficacy Results from a Phase 1b/2a Multicentre Study (CS2) and its Open-label Extension (CS12). October 4-8, 2016. Granada, Spain.
6. Bertini E, et al. Nusinersen in Pre-symptomatic Infant with SMA: Interim Efficacy and Safety Results from the Phase 2 NURTURE Study. October 4-8, 2016. Granada, Spain.
7. Finkel RS, Chiriboga CA, Vajsar J, Day JW, Montes J, De Vivo DC, Yamashita M, Rigo F, Hung G, Schneider E, Norris DA, Xia S, Bennett CF, Bishop KM. Treatment of infantile-onset spinal muscular atrophy with nusinersen: a phase 2, open-label, dose-escalation study. Lancet. 2016 Dec 17; 388(10063):3017-3026.
8. SMA Overview. SMA Foundation. http://www.smafoundation.org/wp-content/uploads/2012/03/SMA-Overview.pdf Accessed September 4, 2020.
9. Ferrante, L., Melendez-Zaidi, A., Lindsey, W. and Lotze, T. (2022), Novel use of nusinersen as a therapeutic bridge to onasemnogene abeparvovec-xioi in a premature neonate with type 1 spinal muscular atrophy. Muscle & Nerve, 66: E8-E10. https://doi.org/10.1002/mus.27648
10. Meglio M. Neurology Live. Despite limited literature, combination therapy occurring in spinal muscular atrophy. Despite Limited Literature, Combination Therapy Occurring in Spinal Muscular Atrophy (neurologylive.com) accessed June 2024.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.6</td><td>Effective Date: 08/13/2026</td><td>Updated authorization period from 6 months to 1 year, as Audaire Health specific requirements are no longer applicable.</td></tr>
<tr><td>2.5</td><td>Effective Date: 08/07/2025</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>2.4</td><td>Effective Date: 08/08/2024</td><td>Updated to prevent concurrent use with other SMA therapies including gene therapy, but to allow the use of Spinraza prior to Zolgensma with regard to bridging therapy</td></tr>
<tr><td>2.3</td><td>Effective Date: 04/11/2024</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>2.2</td><td>Effective Date: 04/06/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.1</td><td>Effective Date: 04/14/2022</td><td>Update to include Audaire Health™ requirements</td></tr>
<tr><td>2.0</td><td>Effective Date: 06/10/2021</td><td>Removed upper age limit criteria. Added not to be used in combination with other SMA therapies</td></tr>
<tr><td>1.9</td><td>Effective Date: 08/13/2020</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 08/15/2019</td><td>Added must not be used in combination with Zolgensma</td></tr>
<tr><td>1.7</td><td>Effective Date: 10/01/2018</td><td>UM medical management system update for BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.6</td><td>Effective Date: 08/09/2018</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 02/12/2018</td><td>UM medical management system update for MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.4</td><td>Effective Date: 08/10/2017</td><td>Specified initial authorization</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/02/2017</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 03/23/2017</td><td>Preliminary Criteria updated</td></tr>
<tr><td>1.1</td><td>Effective Date: 03/01/2017</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/09/2017</td><td>New Drug Criteria</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Syfovre™ (pegcetacoplan)
HCPCS: J2781

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Geographic atrophy is an advanced and severe form of dry age-related macular degeneration (AMD). It is caused by the gradual breakdown of light-sensitive cells in the macula resulting in the growth of irreversible lesions in the retinal pigment epithelium (RPE). GA progression causes a gradual loss of visual function. Symptoms include scotomas, difficulty recognizing faces, decreased reading speed, impaired dark adaptation, low luminance deficit (LLD), impaired contrast sensitivity, and difficulty driving at night. More than half of all patients with GA will experience significant impairment of everyday vision, and about 20% of patients will develop severe vision loss with visual acuity of 20/200 or worse.

- The exact cause of GA is unknown but it is thought the disease is the result of a multifactorial process. The most significant risk factors include age and family history with genetics playing a role in disease development. It is thought errors found in the genes of the complement cascade may cause inflammation making the eye more susceptible to GA. Smoking and a higher body mass index are also risk factors.

- Diagnosis is made by an ophthalmologist during a dilated exam and/or with retinal imaging. In a dilated exam, geographic atrophy appears as a patch of retina that's missing its dark melanin pigment. Imaging techniques including retinal color photographs, optical coherence tomography (OCT), or autofluorescence photographs can also be used to detect GA

- Syfovre is a C3 complement inhibitor indicated for the treatment of GA secondary to AMD. It is the first FDA approved therapy for GA. It targets the complement overactivation generating GA progression, preventing lesion growth, and reducing the likelihood of severe disease.

- GA can be secondary to other conditions outside of AMD. Those include Stargardt disease, cone rod dystrophy, or toxic maculopathies like plaquenil maculopathy. Syfovre has only been studied in patients with GA secondary to dry AMD and therefore should not be used to treat GA secondary to other conditions. If the patient has multiple eye conditions requiring treatment, such as wet and dry AMD, it is appropriate to treat both conditions simultaneously.

- Syfovre has not been studied in patients with a visual acuity worse than 20/320. Use should be limited to those patients with visual acuity equal to or better than 20/320.

References:

1. Syfovre [prescribing information]. Waltham, MA: Apellis Pharmaceuticals, Inc.; July 2025.
2. The Eye Diseases Prevalence Research Group. Prevalence of age-related macular degeneration in the United States. Arch Ophthalmol. 2004; 122 (4): 564 – 572.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3. Flaxel CJ, Adelman RA, Bailey ST, et al. Age-related macular degeneration preferred practice pattern. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/age-related-macular-degeneration-ppp. Accessed on August 22, 2025.
4. Clinicaltrials.gov. A study to compare the efficacy and safety of intravitreal APL-2 therapy with sham injections in patients with geographic atrophy secondary to age-related macular degeneration (NCT03525613). Available at: https://clinicaltrials.gov/ct2/show/NCT03525613?term=NCT03525613&draw=2&rank=1. Accessed on February 20, 2023.
5. Clinicaltrials.gov. Study to compare the efficacy and safety of intravitreal APL-2 therapy with sham injections in patients with geographic atrophy secondary to age-related macular degeneration (NCT03525600). Available at: https://clinicaltrials.gov/ct2/show/NCT03525600. Accessed on February 20, 2023

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/12/2023</td><td>Updated to include criteria not allowing use with other medications for the treatment of GA</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/06/2023</td><td>New policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/03//2023</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/09/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

		BCNA | No
1.0	Effective Date: 10/06/2022	Preliminary drug review **Line of Business** | **PA Required in Medical Management System (Yes/No)** BCBS | No BCN | No MAPPO | No BCNA | No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Talvey™ (talquetamab-tgvs)
HCPCS: J3055

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Talvey is a bispecific GPRC5D-directed CD3 T-cell engager indicated for the treatment of adult patients with relapsed or refractory multiple myeloma who have received at least four prior lines of therapy, including a proteasome inhibitor, an immunomodulatory agent and an anti-CD38 monoclonal antibody

- Safety and efficacy were evaluated in the MonumenTAL-1 study, a phase 1/2 single-arm, open-label, multicohort, multicenter dose-escalation trial of 187 patients with multiple myeloma who had received at least 4 prior lines of therapy, including a proteasome inhibitor, an immunomodulatory agent, and an anti-CD38 monoclonal antibody. Subjects had not received prior GPRC5D-directed CD3 T-cell engager. Patients had received a median of 5 prior lines of therapy, with a median number of 5. The study excluded patients who had stroke or seizure within the past 6 months, an ECOG performance score of 2 or higher, known active CNS involvement or clinical signs of meningeal involvement of multiple myeloma, or active or documented history of autoimmune disease. The primary endpoints were overall response rate (ORR) and duration of response (DOR). At the biweekly dose of 0.8 mg/kg, 73.6% of patients (95% CI: 63.0, 82.4) achieved an ORR. With a median follow-up of nearly 6 months from first response among responders, 58% of patients achieved a very good partial response (VGPR) or better, including 33% of patients achieving a complete response (CR) or better. At the weekly dose of 0.4 mg/kg, 73.0% of patients (95% CI: 63.2, 81.4) achieved an ORR. With a median follow-up of nearly 14 months from first response among responders, 57% of patients achieved a VGPR or better, including 35% of patients achieving a CR or better. Responses were durable with a median duration of response not reached in the 0.8 mg/kg biweekly dose group and 9.5 months in the 0.4 mg/kg SC weekly dose group. Among patients receiving the 0.8 mg/kg biweekly dose, an estimated 85% of responders maintained response for at least 9 months.

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- Due to the risk of cytokine release syndrome and neurological toxicities, the step-up doses of Talvey are required to be administered in an inpatient setting.

- Talvey has not been studied when given following prior treatment with Talvey or following any other CD3-GRPC-directed CD3 T-cell engager therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Talvey [prescribing information]. Horsham, PA: Janssen Biotech, Inc.; August 2023.
2. Clinicaltrials.gov. A phase 1/2, first-in-human, open-label, dose escalation study of talquetamab, a humanized GPRC5D x CD3 bispecific antibody, in subjects with relapsed or refractory multiple myeloma. Available at: https://classic.clinicaltrials.gov/ct2/show/NCT04634552. Accessed on August 11, 2023.
3. Clinicaltrials.gov. A phase 1, first-in-human, open-label, dose escalation study of talquetamab, a humanized GPRC5D x CD3 bispecific antibody, in subjects with relapsed or refractory multiple myeloma. Available at: https://classic.clinicaltrials.gov/ct2/show/NCT03399799. Accessed on August 11, 2023.
4. Pillarisetti K, Edavettal S, Mendonça M, et al. A T-cell-redirecting bispecific G-protein-coupled receptor class 5 member D x CD3 antibody to treat multiple myeloma. Blood. 2020 Apr 9; 135 (15): 1232 - 43.
5. Chari A, Minnema MC, Berdeja JG, et al. Talquetamab, a T-cell–redirecting GPRC5D bispecific antibody for multiple myeloma. NEJM. 2022; 387: 2232 – 44.
6. National Comprehensive Cancer Network. Multiple myeloma (Version 2.2026). 2025 July 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/myeloma.pdf. Accessed on August 25, 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>Updated to remove the requirements of active disease, liver function, kidney function, no uncontrolled infection, no detectable hepatitis B or C viral load, cardiac function, no stroke event within 6 months of therapy administration, no pulmonary disease requiring oxygen dependence, no seizures within 6 months of therapy administration, and no active autoimmune disease. Also added the requirements that the patient has no plasma cell leukemia, no allogenic stem cell transplant within the past 6 months, no autologous stem cell transplant within the past 12 weeks, and no prior T-cell redirection therapy within the past 3 months</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/20/2024</td><td>UM medical management system update for BCBS, BCN, MAPPO, and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 02/08/2024</td><td>Updated to change the drug class from BCMA-CD3 t-cell engager therapy to CD3-GRPC that Talvey cannot be used after</td></tr>
<tr><td>1.0</td><td>Effective Date: 10/12/2023</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tecartus™ (brexucabtagene autoleucel)
HCPCS: Q2053

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.

- Tecartus is indicated for the treatment of adult patients with relapsed or refractory mantle cell lymphoma (MCL) and Adult patients with relapsed or refractory B-cell precursor acute lymphoblastic leukemia (ALL).

- Safety and efficacy were established in the ZUMA-2 trial, a single-arm, open-label, multicenter phase II study of 74 adult patients with relapsed or refractory mantle cell lymphoma. Patients had received up to 5 prior lines of therapy, including an anti-CD20 antibody, either an anthracycline- or bendamustine-containing chemotherapy regimen, and a Bruton's tyrosine kinase (BTK) inhibitor. Three patients experienced manufacturing failure, one died of progressive disease, and one withdrew from the study prior to lymphodepleting chemotherapy. One patient received lymphodepleting chemotherapy but did not receive Tecartus due to ongoing active atrial fibrillation. Tecartus was administered as a single intravenous infusion at a target dose of 2×10^6 CAR-positive viable T-cells/kg. The lymphodepleting regimen consisted of cyclophosphamide 500 mg/m^2 intravenously and fludarabine 30 mg/m^2 intravenously given on the fifth, fourth, and third day before Tecartus. Patients with prior allogeneic HSCT, any active central nervous system malignancy, ECOG performance status of 2 or greater, absolute neutrophil count less than 1,000/µL, platelet count < 75,000/µL, creatinine clearance less than 60 mL/min, hepatic transaminases more than 2.5 times the upper limit of normal, cardiac ejection fraction less than 50%, or active serious infection were excluded. The primary endpoint was objective response rate to therapy which was 87%, including 37 patients who had complete response (62%) and 15 who had a partial response (25%). The median time to response was 28 days with median duration of response not yet being reached.

- Safety and efficacy for use in acute lymphoblastic leukemia were established in the ZUMA-3 trial, a multicenter, phase I/II trial of 55 adult patients with relapsed or refractory ALL. Patients must have had documentation of CD19 positive disease and if they were Philadelphia chromosome positive, must have been intolerant to, had a contraindication to, or have failed 2 lines of tyrosine kinase inhibitor therapy. Patients with prior allogeneic SCT within 100 days of therapy, any active central nervous

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

system malignancy, ECOG performance status of 2 or greater, creatinine clearance less than 60 mL/min, hepatic transaminases more than 2.5 times the upper limit of normal, cardiac ejection fraction less than 50%, diagnosis of Burkitt's lymphoma, grade 2 to 4 graft-versus-host disease, or active serious infection were excluded. The primary endpoint is overall complete remission rate. In the study, 70.9% presented with a complete remission rate. The median duration of response was 12.8 months and the median overall survival (OS) was 18.2 months.

- Disease should be measured/staged with PET-CT. Focal uptake in nodal and extranodal sites is considered involvement with lymphoma, including spleen, liver, bone, thyroid, and so on. A measurable node must have a longest diameter (LDi) greater than 1.5 cm. A measurable extranodal lesion should have an LDi greater than 1.0 cm. All other lesions (including nodal, extranodal, and assessable disease) should be followed as nonmeasured disease (eg, cutaneous, GI, bone, spleen, liver, kidneys, pleural or pericardial effusions, ascites).

- While use of Tecartus has not been established in patients with a creatinine clearance of less than 60 mL/minute, other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Tecartus should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 ml/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. While Tecartus has only been studied in patients with a LVEF greater than or equal to 45%, there is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Tecartus should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.

- A provider portal that is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Tecartus [prescribing information]. Santa Monica, CA: Kite Pharma, Inc.; October 2025.
2. National Comprehensive Cancer Network. Acute lymphoblastic leukemia (Version 2.2025). 2025 June 27. Available at: https://www.nccn.org/professionals/physician_gls/pdf/all.pdf. Accessed on March 3, 2026.
3. National Comprehensive Cancer Network. B-cell lymphomas (Version 2.2026). 2026 March 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on March 3, 2026.
4. Lee DW et al. Current concepts in the diagnosis and management of cytokine release syndrome. Blood. 2014 Jul 10; 124 (2): 188 - 195.
5. Wang M, Munoz J, Goy A, et al. KTE-X19 CAR T-cell therapy in relapsed or refractory mantle cell lymphoma. NEJM. 2020 Apr 2; 382 (14): 1331 – 42.
6. Shah BJ, Bishop MR, Oluwole OO, et al. KTE-X19 anti-CD19 CAR T-cell therapy in adult relapsed/refractory acute lymphoblastic leukemia: ZUMA-3 phase 1 results. Blood. 2021 Jul 8; 138 (1): 11-22.
7. GlobalData Healthcare. ASCO 2021: tecartus' ZUMA-3 trial to support a first label in adult r/r all. 2021 June 10. Available at: https://www.clinicaltrialsarena.com/comment/asco-2021-tecartus-zuma-3-all/. Accessed on June 21, 2021.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Businesswire. Kite submits supplemental biologics license application to US food and drug administration for tecartus in adult patients with relapsed or refractory acute lymphoblastic leukemia. 2021 April 1. Available at: https://www.businesswire.com/news/home/20210401005666/en/Kite-Submits-Supplemental-Biologics-License-Application-to-U.S.-Food-and-Drug-Administration-for-Tecartus%C2%AE-in-Adult-Patients-With-Relapsed-or-Refractory-Acute-Lymphoblastic-Leukemia. Accessed on June 21, 2021.
9. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 6, 2022.

Policy History		
#	Date	Change Description
1.9	Effective Date:	Updated to remove platelet count, liver function test, no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, no graft versus host disease, no diagnosis of Burkitt's lymphoma, and no clinically significant CNS disease. Also added requirements of no active infection and updated the approval length to 6 months
1.8	Effective Date: 06/05/2025	Updated to change the provider portal from Audaire Health to the appropriate provider portal
1.7	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/08/2023	Updated to require physicians to provide clinical outcomes data using the Audaire Health platform
1.5	Effective Date: 08/04/2022	Updated to align criteria across all CAR-T policies
1.4	Effective Date: 04/14/2022	Updated to remove CD19 requirement as NCCN guidelines state CAR-T can work without being positive for CD19 disease
1.3	Effective Date: 12/09/2021	Updated to include new indication of ALL
1.2	Effective Date: 08/12/2021	New policy. This policy replaces previously approved criteria that was embedded in Chimeric Antigen Receptor-T Cell Class policy which will be retired. The criteria was also updated to add preliminary criteria for use in ALL.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 01/01/2021</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 07/24/2020</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tecelra® (afamitresgene autoleucel)
HCPCS: Q2057

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tecelra is a melanoma-associated antigen A4 (MAGE-A4)-directed genetically modified autologous T-cell immunotherapy indicated for the treatment of adults with unresectable or metastatic synovial sarcoma who have received prior chemotherapy, are HLA-A*02:01P, -A*02:02P, -A*02:03P, or -A*02:06P positive and whose tumor expresses the MAGE-A4 antigen as determined by FDA-approved or cleared companion diagnostic devices.

- Specific peptide enhanced affinity receptor (SPEAR), T-cell therapy is a type of treatment the utilizes the body's own immune system to fight cancer. Autologous T-cells are transduced with a lentiviral vector to create Tecelra which expresses MAGE-A4-specific affinity-enhanced T-cell receptors (TCRs) on the surface of the cells. The engineered TCRs recognize an HLA-A*02-restricted MAGE-A4 peptide resulting in antigen-specific activation of Tecelra, T-cell proliferation, cytokine secretion, and killing of MAGE-A4/HLA-A*02-expressing synovial sarcoma cells.

- SPEAR T-cell therapy has not been studied when given following prior treatment with any SPEAR T-cell therapy or following any other genetically-modified T-cell therapy.

- Safety and efficacy were evaluated in the SPEARHEAD-1 trial, an open-label, non-randomized, phase 2 study of 44 patients with metastatic or unresectable synovial sarcoma who had received prior systemic therapy with either doxorubicin and/or ifosfamide and whose tumor expressed the MAGE-A4 tumor antigen. MAGE-A4 expression was defined as greater than or equal to 2+ staining in greater than or equal to 30% of the cells by immunohistochemistry. Patients needed to be HLA-A*02:01P, HLA-A*02:02P, HLA-A*02:03P, and HLA-A*02:06P allele positive. Subjects with an HLA-A*02:05P allele were not included in the trial. The study excluded patients with an ECOG score of 1 or greater, a creatinine clearance of less than or equal to 40 mL/minute, alanine aminotransferase greater than 2.5 times upper limit of normal, and left ventricular ejection fraction less than 40%. Patients were also excluded if absolute neutrophil count less than 1000 cells/mm^3 and platelet count less than 75,000/mm^3. Patients were required to have measurable disease. The primary endpoint was overall response rate (ORR). The ORR was 43.2% (95% CI: 28.4, 59.0) with a complete response rate of 4.5% and partial response rate of 38.6%. The median duration of response was 6 months (95% CI: 4.6, not reached). Among patients who were responsive to the treatment, 39% had a duration of response of 12 months or longer.

- A provider portal platform is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Tecelra [prescribing information]. Philadelphia, PA: Adaptimmune, LLC; August 2024.
2. National Comprehensive Cancer Network. Soft tissue sarcoma (Version 2.2026). 2026 Feb 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/sarcoma.pdf. Accessed on March 3, 2026.
3. D'Angelo SP, Araujo DM, Razak ARA, et al. Afamitresgene autoleucel for advanced synovial sarcoma and myxoid round cell liposarcoma (SPEARHEAD-1): an international, open-label, phase 2 trial. Lancet. 2024 April 13; 403 (10435): 1460 – 71.
4. Hong DS, Van Tine BA, Biswas S, et al. Autologous T-cell therapy for MAGE-A4+ solid cancers in HLA-A*02+ patients: a phase 1 trial. Nature Med. 2023 Jan 9; 29: 104 – 14.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 06/01/2026

P&T Date: 04/16/2026</td><td>Updated to require drug be given in consultation with an oncologist, removed ANC, platelet, and liver function requirements, removed no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, no primary malignancy, and no primary immunodeficiency. Also added requirements of no active infection and updated the approval length to 6 months</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 10/01/2024</td><td>UM medical management system update for MAPPO and BCNA

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.1</td><td>Effective Date: 08/15/2024</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/06/2024</td><td>Preliminary Drug Review

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tepezza™ (teprotumumab-trbw)
HCPCS: J3241

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Thyroid eye disease is a complex orbital inflammatory disease, which can be sight threatening, debilitating, and disfiguring. It is caused by antibodies directed against receptors in the thyroid cells and also on the surface of the cells behind the eyes. Muscles and fatty tissues behind the eye become inflamed leading to proptosis (eye bulging), strabismus (misalignment of the eyes), and diplopia (double vision) and in some cases can lead to blindness. Risk factors for the disease include female gender, middle age, and smoking. Active TED lasts for up to three years with the disease only responding to pharmacotherapy while it is active and inflammation is ongoing.

- Tepezza is an insulin-like growth factor-1 receptor antagonist indicated for the treatment of thyroid eye disease (TED).

- Goals of treatment in thyroid disease consists of achieving a euthyroid state and symptom management. The majority of patients with thyroid eye disease have mild to moderate disease and require primarily supportive care with ocular lubrication, topical cyclosporine, and lifestyle modification, such as, smoking cessation, sodium restriction, and sunglasses.

- The current mainstay of treatment for moderate to severe thyroid eye disease is oral or intravenous corticosteroids. Treatment can be initiated at doses of oral prednisone 30 mg daily for four weeks or methylprednisolone 500 mg once weekly for weeks 1 to 6, then 250 mg once weekly for weeks 7 to 12 with cumulative dose 4.5 to 5 g over 12 weeks. The European Thyroid Association recommends initial treatment with IV glucocorticoids for moderate-to-severe, active orbitopathy, citing several studies that suggest it is more efficacious and associated with fewer side effects than oral therapy. Similar trials have not been performed in the United States, where initiation with oral glucocorticoids remains the most common first-line treatment. Treatment for thyroid eye disease should start in the early months of the active inflammatory phase, as treatment becomes less effective as the disease progresses.

- There are no clinical head to head studies that compare steroids and Tepezza for the treatment TED. The 2021 European Group on Graves' orbitopathy (EUGOGO) clinical practice guidelines for the medical management of Graves' orbitopathy state Tepezza's incorporation into routine clinical practice is currently limited by the lack of comprehensive long-term efficacy and safety data and the absence of head-to-head comparison trials with intravenous glucocorticoids. However, a 2022 joint consensus statement by the American Thyroid Association and the European Thyroid Association state intravenous corticosteroids are the preferred treatment for active moderate-to-severe TED when disease activity is the prominent feature in the absence of either significant proptosis, defined as greater than or equal to 3 mm above normal for race and gender, or diplopia. In the presence of significant proptosis or diplopia, Tepezza is the preferred treatment option.

- Safety and efficacy were evaluated in the OPTIC trials, two multicenter, randomized, double-masked, placebo-controlled trials of 171 patients with thyroid eye disease. Patients were required to have active, moderate to severe thyroid eye disease with significant symptoms, including at least one of the following: lid retraction of greater than or equal to 2 mm, moderate or severe soft-tissue involvement, proptosis of greater than or equal to 3 mm, and periodic or constant diplopia. Patients were also required to have a clinical activity score (CAS) greater than or equal to 4 and symptoms less than 9 months from the onset of thyroid eye disease. All patients were

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

euthyroid or with mild hypothyroidism or hyperthyroidism, defined as free thyroxine (T4) and free triiodothyronine (T3) levels less than 50% above or below the normal limits for the testing laboratory. Patients with previous orbital irradiation or surgery for thyroid eye disease were not allowed. The primary endpoint in the first trial was a composite endpoint of reduction of greater than or equal to 2 points in the CAS and a reduction of greater than or equal to 2 mm in proptosis. The primary endpoint in the second trial was a reduction in proptosis of greater than or equal to 2 mm. In both trials, significantly more patients treated with teprotumumab demonstrated less symptoms of thyroid eye disease than patients treated with placebo.

- In 2023, results from a randomized, double-masked, placebo-controlled, phase 4 clinical trial evaluating Tepezza for the treatment of adults with chronic TED and low CAS scores became available. The phase 4 trial evaluated patients with an initial diagnosis of TED between two to 10 years (mean duration of 5.2 years; SD 1.77) and low levels of disease activity (mean CAS of 0.4; SD 0.49), whereas the prior pivotal trials that formed the basis of the original FDA approval of Tepezza evaluated patients with disease duration of nine months or less and higher levels of disease activity. At week 24, the primary endpoint was met and patients treated with Tepezza achieved a statistically significant reduction in proptosis from baseline compared to those receiving placebo.

References:

1. Tepezza [prescribing information]. Lake Forest, IL: Horizon Therapeutics USA, Inc.; November 2025.
2. Ross DS, Burch HB, Cooper DS, et al. 2016 american thyroid association guidelines for diagnosis and management of hyperthyroidism and other causes of thyrotoxicosis. Thyroid. 2016; 26 (10): 1343 - 1421.
3. Bartalena L, Baldeschi L, Boboridis K, et al. The 2016 european thyroid association/european group on graves' orbitopathy guidelines for the management of graves' orbitopathy. Eur Thyroid J. 2016 Mar; 5 (1): 9 - 26.
4. Smith TJ, Kahaly GJ, Ezra DG, et al. Teprotomumab for thyroid-associated opthalmopathy. NEJM. 2017 May 4; 376 (18): 1748 – 61.
5. Douglas RS. Teprotumumab, an insulin-like growth factor-1 receptor antagonist antibody, in the treatment of active thyroid eye disease: a focus on proptosis. Eye. 2019; 33: 183- 90.
6. Douglas RS, Kahaly GJ, Patel A, et al. Teprotumumab for the treatment of active thyroid eye disease. NEJM. 2020 Jan 23; 382: 341 – 52.
7. McAlinden C. An overview of thyroid eye disease. Eye and Vision. 2014; 1: 9 – 12.
8. Bartalena L, Kahaly GJ, Baldeschi L, at al. The 2021 european group on graves' orbitopathy (EUGOGO) clinical practice guidelines for the medical management of graves' orbitopathy. Eur J Endocrinol. 2021 Aug 27; 185 (4): G43 - G67.
9. Horizon Therapeutics. Horizon Therapeutics plc announces positive topline data from Tepezza (teprotumumab-trbw) phase 4 clinical trial in patients with chronic/low clinical activity score (CAS) Thyroid eye disease (TED). 2023 April 10. Available at: https://ir.horizontherapeutics.com/news-releases/news-release-details/horizon-therapeutics-plc-announces-positive-topline-data. Accessed on May 4, 2023.
10. Burch HB, Perros P, Bednarczuk T, et al. Management of thyroid eye disease: a consensus statement by the american thyroid association and the european thyroid association. Eur Thyroid J. 2022 Dec 8; 11 (6): e220189.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.1</td><td>Effective Date: 07/27/2026

P&T Date: 06/11/2026</td><td>Updated to only require steroids in the absence of significant ptosis or diplopia and include a statement that Tepezza is not used in combination with or following any previous treatment with other insulin-like growth factor-1 receptor antagonist for the treatment of TED</td></tr>
<tr><td>2.0</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 06/08/2023</td><td>Updated to remove criteria specific to disease activity in support of the updated FDA indication</td></tr>
<tr><td>1.7</td><td>Effective Date: 12/01/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 12/09/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/03/2020</td><td>Updated to include requirement patients be euthyroid and updated steroid requirement to only allow for oral or IV steroids.</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/01/2020</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.3</td><td>Effective Date: 05/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date:</td><td>New full drug review</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td>04/16/2020</td><td></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/01/2020</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/06/2020</td><td>Preliminary review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tevimbra® (tislelizumab-jsgr)
HCPCS: J9329

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tevimbra is a programmed death receptor-1 (PD-1)-blocking antibody indicated
    - In combination with platinum-containing chemotherapy for the first-line treatment of adults with unresectable or metastatic esophageal squamous cell carcinoma (ESCC) whose tumors express PD-L1 (≥1).
    - As a single agent in adults with unresectable or metastatic ESCC after prior systemic chemotherapy that did not include a PD-(L)1 inhibitor.
    - In combination with platinum and fluoropyrimidine-based chemotherapy in adults for the first line treatment of unresectable or metastatic HER2-negative gastric or gastroesophageal junction adenocarcinoma whose tumors express PD-L1 (≥ 1).
- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Tevimbra following failure. NCCN treatment guidelines also do not recommend use of Tevimbra or other PD-L1 checkpoint inhibitors following a previous failure.
    - Tevimbra has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.
- Tevimbra has not been studied in patients with an ECOG performance status of greater than 2 and therefore, should not be sed in patients with an ECOG score greater than 2.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Tevimbra [prescribing information]. San Mateo, CA: BeiGene USA, Inc.; December 2025.
2. Shen L, Kato K, Kim SB, et al. Tislelizumab versus chemotherapy as second-line treatment for advanced or metastatic esophageal squamous cell carcinoma (RATIONALE-302): a randomized phase III study. J Clin Oncol. 2022 Sep 10; 40 (26): 3065 - 76.
3. National Comprehensive Cancer Network. Esophageal and esophagogastric junction cancers (Version 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/esophageal.pdf. Accessed on April 15, 2026.
4. National Comprehensive Cancer Network. Gastric cancer (Version 2.2026). 2026 Jan 21. Available at: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed on April 15, 2026.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.3</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.1</td><td>Effective Date: 01/01/2025</td><td>UM medical management system update for BCBS, BCN, MAPPO, BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/06/2024</td><td>New policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tezspire™ (tezepelumab-ekko)
HCPCS: J2356

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tezspire is a thymic stromal lymphopoietin (TSLP) blocker, human monoclonal antibody (IgG2λ), indicated:
  - For the add-on maintenance treatment of adult and pediatric patients aged 12 years and older with severe asthma.
    - Limitations of use: Not for relief of acute bronchospasm or status asthmaticus.
  - For the add-on maintenance treatment of adult and pediatric patients aged 12 years and older with inadequately controlled chronic rhinosinusitis with nasal polyps (CRSwNP)
- TSLP is a key epithelial cytokine in allergy and asthma pathophysiology and is overexpressed in asthmatic patients. Once released, TSLP drives multiple downstream innate and adaptive immune responses.
- Severe asthma
  - Severe asthma is uncontrolled despite adherence with maximally optimized high dose inhaled corticosteroids/long-acting beta agonists (ICS/LABA), or that requires high dose ICS/LABA to prevent it from becoming uncontrolled.
  - Asthma affects 25 million Americans with 1.6 million ER visits, 180,000 hospitalizations, and 3,500 deaths each year. Severe asthma afflicts 5 to 10 percent of the asthma population but drives the majority of the morbidity and costs of the disease.
  - Add-on treatments for severe asthma include LAMAs, leukotriene receptor antagonists (LTRA), low-dose azithromycin (adults), and biologic agents for severe allergic or severe type 2 asthma. Type 2 inflammation is found in a majority of people with severe asthma and is characterized by the production of cytokines such as interleukin (IL). The Global Institute for Asthma (GINA) 2022 guidelines have the following recommendations for add-on biologic therapy for severe asthma:
    - Add-on anti-immunoglobulin E (anti-IgE) (omalizumab) treatment: for patients aged ≥6 years with moderate or severe allergic asthma that is uncontrolled on Step 4–5 treatment (Evidence A).
    - Add-on anti-IL-5/5R treatment (subcutaneous mepolizumab for patients aged ≥6 years; intravenous reslizumab for ages ≥18 years; or subcutaneous benralizumab for ages ≥12 years), with severe eosinophilic asthma that is uncontrolled on Step 4–5 treatment. Efficacy data for mepolizumab in children 6–11 years are limited to one very small open label uncontrolled study.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Add-on anti-IL-4Rα treatment (subcutaneous dupilumab) for patients aged ≥6 years with severe eosinophilic/Type 2 asthma, or for adults or adolescents requiring treatment with maintenance OCS.

  - Add-on anti-thymic stromal lymphopoietin (anti-TSLP) (subcutaneous tezepelumab): for patients aged ≥12 years with severe asthma (Evidence A).

- Per the GINA 2022 guidelines, a trial of at least 4 months of an add-on biologic therapy is recommended before assessing response.

- Eosinophilic asthma is a sub-phenotype of severe asthma characterized by elevated sputum and blood eosinophil levels as well as increased asthma severity, atopy, late-onset disease, and steroid refractoriness.

- A peripheral blood eosinophil count is an indirect way to estimate airway inflammation. A blood eosinophil count ≥ 300 cells/microliter may help to predict asthmatics who are at increased risk for exacerbations in the next year. Furthermore, a count-response relationship exists between blood eosinophil counts and asthma-related outcomes. The European Respiratory Society/American Thoracic Society guidelines from 2020 suggest that treatment of severe asthma be guided by clinical criteria and biomarkers such as blood eosinophil levels or fractional exhaled nitric oxide (FeNO), rather than by clinical criteria alone. In addition, it also suggests that a blood eosinophil count cut-off point of ≥ 150 cells/microliter can be used to guide anti-IL5 therapy initiation in adult patients with severe asthma and a history of prior asthma exacerbations.

- Type 2 inflammation is found in a majority of people with severe asthma and is characterized by production of cytokines such as interleukin and can also include immunoglobulin E (IgE)-mediated events involving mast cells and basophils (in particular, mast cells, eosinophils, T lymphocytes, macrophages, neutrophils, and epithelial cells). Anti-IgE monoclonal antibodies reduce the levels of circulating IgE and inhibit the binding of IgE to mast cells to prevent activation of the allergic cascade and decrease inflammation.

  - IgE levels of >30 but <700 IU/mL for patients 12 years of age and older and IgE levels >30 but <1,300 IU/mL for patients between the ages of 6 to <12 years were used in the efficacy data from Xolair clinical trials and showed where Xolair was most effective.

- Clinical reasons a patient may be unable to self-administer Tezspire include:

  - Patient or caregivers are unable to perform subcutaneous (SC) injections with proper technique.

  - Member requires monthly medical support from the physician.

- Chronic rhinosinusitis with nasal polyps

  - Chronic rhinosinusitis with nasal polyps (CRSwNP) is a chronic disease of the upper airway predominantly driven by Type 2 inflammation and characterized by polyps that obstruct the sinuses and nasal passages. Current treatment options are intranasal corticosteroids (INCS), systemic corticosteroids, and surgery, all with suboptimal efficacy and/or high recurrence rates after treatment. Patients may experience severe nasal obstruction with breathing difficulties, nasal discharge, reduced or loss of sense of smell and taste, and facial pain or pressure.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Persistent symptoms of CRSwNP have a substantial adverse impact on patients' health-related quality of life, a composite that includes reduced productivity and activities of daily living, inability to enjoy food, lack of sleep and fatigue.

- Per the Joint Task Force on Practice Parameters GRADE guidelines for the medical management of chronic rhinosinusitis with nasal polyps (Journal of Allergy and Clinical Immunology; 2023) in people with CRSwNP, the guideline panel suggests INCS rather than no INCS (conditional recommendation based on low certainty of evidence), and the guideline panel suggests biologics rather than no biologics in people with CRSwNP (conditional recommendation based on moderate certainty of evidence.)

- The approval in CRSwNP was based on efficacy and safety data from the Phase III WAYPOINT trial, which enrolled 408 patients with severe, uncontrolled CRSwNP. Tezspire significantly reduced nasal polyp severity, nearly eliminated the need for surgery, and significantly reduced systemic corticosteroid use versus placebo, with a safety profile consistent with prior studies.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Tezspire [prescribing information]. Thousand Oaks, CA. Amgen Inc. May 2023.
2. Holguin F, Cardet JC, Chung KF, et al. Management of severe asthma: a European Respiratory Society/American Thoracic Society guideline. Eur Respir J 2020; 55.
3. Global Initiative for Asthma. Global Strategy for Asthma Management and Prevention, 2022. Available from: www.ginasthma.org.
4. PRNewswire press release; FDA approves Tezspire™ (tezepelumab-ekko) in the U.S. for severe asthma (prnewswire.com) accessed December, 2021.
5. Rank MA, Chu DK, Bognanni A, et. al.. The Joint Task Force on Practice Parameters GRADE guidelines for the medical management of chronic rhinosinusitis with nasal polyposis. J Allergy Clin Immunol. 2023 Feb;151(2):386-398. doi: 10.1016/j.jaci.2022.10.026. Epub 2022 Nov 9. PMID: 36370881.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 12/04/2025</td><td>Update to include new indication for chronic rhinosinusitis with nasal polyps</td></tr>
<tr><td>1.4</td><td>Effective Date: 12/12/2024</td><td>Updated in combo with other DMARD verbiage to align with other biologic policies.</td></tr>
<tr><td>1.3</td><td>Effective Date: 12/14/2023</td><td>Specific step therapy is now “Medicare only” criteria.</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/06/2023</td><td>Update to require 4 month trial of appropriate step therapy and to require self-administration of new prefilled pen product for those clinically able to do so</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/02/2023</td><td>Update to require pharmacy benefit options when clinically appropriate</td></tr>
<tr><td>1.0</td><td>Effective Date: 02/21/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Table 1: Comparative cumulative daily dosing of inhaled corticosteroids (mcg/day)

Inhaled Corticosteroid (alone or in combination with LABA)	Adults and adolescents (12 years and older)			Children 6-11 years		
	Low Dose	Medium Dose	High Dose	Low Dose	Medium Dose	High Dose
Beclometasone dipropionate (pMDI*, HFA)	200-500	>500-1000	>1000	100 – 200	>200 – 400	>400
Beclometasone dipropionate (DPI or pMDI, extra fine particle, HFA)	100-200	>200-400	>400	50-100	>100-200	>200
Budesonide (DPI or pMDI*, HFA -12+) (DPI – 6-11)	200 – 400	>400 – 800	>800	100 – 200	>200 – 400	>400
Budesonide nebules	NA	NA	NA	250 – 500	>500 – 1,000	>1,000
Ciclesonide (pMDI, extrafine particle, HFA)	80 – 160	>160 – 320	>320	80	>80 – 160	>160
Fluticasone furoate (DPI)	100	100	200	50	50	NA
Fluticasone propionate (DPI)	100-250	>250 – 500	>500	50-100	>100-200	>200
Fluticasone propionate (pMDI*, HFA)	100 – 250	>250 – 500	>500	50-100	>100-200	>200
Fluticasone propionate HFA	100 – 250	>250 – 500	>500	100 – 200	>200 – 500	>500
Mometasone furoate (DPI)	Depends on DPI device – see product information			NA	NA	NA
Mometasone furoate (pMDI*, HFA)	200-400	200-400	>400	100	100	200

- From the 2023 GINA guidelines

***** Standard (non-fine) particle. ICS by pMDI should preferably be used with a spacer.
DPI – Dry powder inhaler
LABA – Long-acting beta$_2$-agonist
pMDI – Pressurized metered dose inhaler
HFA – Hydrofluoroalkane (propellant)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tocilizumab Products

Actemra® (tocilizumab) **- HCPCS: J3262**
Avtozma® (tocilizumab-anoh) **- HCPCS: J3590**
Tocilizumab-aazg - HCPCS: Q5135
Tocilizumab-anoh - HCPCS: Q5156
Tofidence™ (tocilizumab-bavi) **- HCPCS: Q5133**
Tyenne™ (tocilizumab-aazg) **- HCPCS: Q5135**

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tocilizumab is an interleukin-6 inhibitor (IL-6i) available as the innovator product Actemra and its biosimilars Avtozma, Tofidence, and Tyenne.
  - Actemra is indicated for RA, GCA, pJIA, sJIA, CRS, SSc-ILD, and COVID-19. It is available for both subcutaneous (SC) and intravenous (IV) administration. For CRS and COVID-19, only the IV formulation is approved for use whereas only the SC formulation is approved for SSc-ILD. Either Actemra formulation may be used for all other indications.
  - In contrast to the innovator product, Avtozma, Tofidence, and Tyenne are approved for RA, pJIA, sJIA, GCA and COVID-19. Avtozma and Tyenne also carry an additional indication for CRS. Tofidence is only available in an IV formulation, whereas Avtozma and Tyenne are available in IV and SC formulations.
- Tocilizumab has not been studied in combination with other biologic disease-modifying agents such as tumor necrosis factor inhibitors, interleukin receptor antagonists, anti-CD20 monoclonal antibodies, and selective co-stimulation modulators due to an increased risk of infection and increased immunosuppression. As such, use of tocilizumab products in combination with other biologic agents is not recommended.
- Rheumatoid Arthritis
  - The 2021 American College of Rheumatology (ACR) Guidelines for the Treatment of Rheumatoid Arthritis (RA) established recommendations for the care of adult RA patients. The guidelines state that treatment decisions should follow a shared decision-making process and should be reevaluated within a minimum of 3 months based on the efficacy and tolerability of the DMARD(s) chosen.
  - For the initial treatment of symptomatic RA, the guidelines strongly recommend the use of conventional synthetic disease-modifying antirheumatic drug (csDMARD) monotherapy in those who are DMARD-naive. csDMARD monotherapy is a less costly first line treatment option with an extensive safety record accompanied by well-documented clinical efficacy and a large body of clinical experience and familiarity among prescribers. csDMARDs in the guidelines refer to methotrexate (MTX), hydroxychloroquine, leflunomide (LEF), and sulfasalazine. Azathioprine, cyclosporine, minocycline, and gold were not included due to their

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

infrequent use in RA and lack of new data since the prior guidelines were published. Oral MTX is recommended as the preferred initial DMARD for patients with moderate-to-high disease activity, and hydroxychloroquine is recommended as the preferred initial DMARD for patients with low disease activity.

- If disease activity remains moderate or high despite optimal dosing of methotrexate monotherapy, the use of dual therapy with methotrexate plus biologic DMARD (bDMARD; etanercept, adalimumab, infliximab, golimumab, certolizumab pegol, abatacept, tocilizumab, sarilumab, rituximab) or targeted synthetic DMARD (tsDMARD; tofacitinib, baricitinib, upadacitinib) therapy is conditionally recommended over the use of triple therapy (i.e., addition of sulfasalazine and hydroxychloroquine). The guidelines do not inform preference of bDMARD over tsDMARD therapy (or vice-versa) for use in combination with methotrexate. No one agent has been shown to be superior to another. The guidelines do acknowledge the emergence of safety signals for the JAK inhibitor class (tsDMARD), and state that further modification of this recommendation may be necessary as additional data are published.

- A treat-to-target approach is conditionally recommended over usual care for patients who have had an inadequate response to bDMARDs or tsDMARDs. Treat-to-target refers to a systematic approach involving frequent monitoring of disease activity using validated instruments and modification of treatment to minimize disease activity with the goal of reaching a pre-defined target (low disease activity or remission).

- Tocilizumab is indicated for treating adult patients with moderately to severely active RA who have had an inadequate response to one or more DMARDs. Tocilizumab may be used as monotherapy or concomitantly with other non-biologic DMARDs as an IV infusion or as a subcutaneous injection for the treatment of RA.

– Polyarticular Juvenile Idiopathic Arthritis

- Juvenile idiopathic arthritis (JIA) defines a collection of inflammatory arthritides of unknown etiology. JIA onset is prior to 16 years of age with a minimum duration of 6 weeks and other potential causes of synovitis are excluded. JIA can be subdivided into pJIA and sJIA.

- pJIA is defined by the presence of more than 4 affected joints in the first 6 months of illness and comprises 20-30% of children with JIA. Therapy is directed toward treating the underlying inflammation and preventing JIA-associated complications and adverse effects of its treatment.

- The 2019 American College of Rheumatology/Arthritis Foundation (ACR/AF) guideline for the treatment of JIA strongly recommends initial therapy for pJIA with a DMARD such as MTX or LEF. MTX is conditionally recommended over LEF as it has a greater volume of data supporting its effectiveness compared to LEF and can be administered subcutaneously (recommended) or orally. The guidelines consider an adequate trial of a DMARD to be 3 months.

- If moderate or high disease activity persists despite adequate DMARD use, the ACR/AF guidelines recommend biologic agents either in combination with a DMARD or as monotherapy in certain situations. Biologic agents FDA approved for pJIA in patients 2 years of age and older include Humira® (adalimumab), Enbrel® (etanercept), tocilizumab, Orencia® (abatacept), Simponi Aria® (golimumab), Xeljanz® (tofacitinib), Xeljanz (tofacitinib) oral solution, and Cimzia® (certolizumab pegol).

    - Of note, biologic therapy may be an appropriate initial therapy in pJIA patients with risk factors and involvement of high-risk joints, high disease activity, and/or for those judged to be at high risk of disabling joint damage.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There is the most experience with tumor necrosis factor inhibitors (TNFi; Humira, Enbrel, Simponi Aria) as initial biologic therapy; however, the preferred class of initial biologic is not specified in the guideline recommendations due to a lack of comparative data and the consideration that non-TNFi biologics may be preferred in certain patient-specific scenarios. If a TNFi is started as the initial biologic, switching to a non-TNFi (tocilizumab or Orencia) is recommended over switching to a second TNFi. An exception to this is for those who had a good initial response to the first TNFi.

- Systemic Juvenile Idiopathic Arthritis and Adult Onset Still's Disease

  - sJIA is a rare and distinct subset of JIA. It accounts for 4-15% of JIA and is defined as arthritis in > 1 joint for at least 6 weeks duration in a child age < 16 years with or preceded by a fever of at least 2 weeks duration that is documented to be daily for at least 3 days and accompanied by one or more of the following: evanescent erythematous rash, generalized lymphadenopathy, hepatomegaly or splenomegaly, and serositis. This condition can occur in adulthood with similar features and is referred to as AOSD when diagnosed in patients 16 years of age and older.

  - AOSD and sJIA may also be complicated by macrophage activation syndrome (MAS), a secondary hemophagocytic syndrome that can be life-threatening and requires urgent recognition and treatment. MAS presents with fevers, high ferritin levels, cytopenias, elevated liver enzyme, low fibrinogen levels, and high triglyceride levels. Regardless of MAS presence at presentation, careful monitoring is necessary as MAS can occur at any point during the disease course.

  - The inflammatory process underlying sJIA and AOSD appears to be distinct from other categories of JIA, with interleukin (IL)-1 and IL-6 playing a central role. The goal of therapy focuses on prompt control of active inflammation and symptoms and prevention of disease- and or treatment-related morbidities like growth disturbances, joint damage and functional limitations.

  - Treatment recommendations vary depending on the presence of MAS. The 2021 ACR guideline for pharmacologic management of oligoarthritis, TMJ arthritis, and sJIA in children recommend the following for the treatment of sJIA:

    - Classes of pharmacologic interventions addressed in the recommendations include:

- Any NSAIDs at therapeutic dosing

- Traditional DMARDs (i.e., methotrexate, sulfasalazine, hydroxychloroquine, leflunomide, calcineurin inhibitors (cyclosporin A, tacrolimus))

- Biologics (i.e., tumor necrosis factor inhibitors (adalimumab, etanercept, infliximab, golimumab, certolizumab pegol), abatacept, IL inhibitors (tocilizumab, anakinra, canakinumab))

- Glucocorticoids, including any oral or intravenous agent, or intraarticular triamcinolone acetonide or triamcinolone hexacetonide.

    - In the presence of MAS, an IL-1 or IL-6 inhibitor (no preferred agent) and/or systemic glucocorticoids are recommended for initial treatment. If residual arthritis is present, a traditional DMARD may be added or treatment can be switched to a different biologic agent (no preferred agent).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - In sJIA without MAS, the guidelines recommend monotherapy with an IL-1 or IL-6 inhibitor (no preferred agent) and/or a brief trial of scheduled NSAIDs. The guidelines do not provide a recommended duration of initial use for NSAIDs. Traditional DMARDs are strongly recommended against as initial monotherapy as they are minimally effective at controlling systemic features of sJIA alone. Glucocorticoids are also conditionally recommended against as initial monotherapy; however, they may be used to help control systemic and joint manifestations of sJIA until an IL-1 or IL-6 inhibitor can be started. If a patient experiences an incomplete response or intolerance to first-line treatment, switching to an alternative IL-1 or IL-6 inhibitor is recommended (no preferred agent).

  - Regardless of the presence of MAS, if a patient responds to initial treatment but residual arthritis is present, a traditional DMARD or switch to a different biologic (no preferred agent) is recommended.

  - Ultimately, treatment is continued and the patient monitored until the sJIA becomes inactive, at which point it is recommended that the patient taper and stop biologics and/or glucocorticoids.

- Tocilizumab and Ilaris® (canakinumab; IL-1 inhibitor) are FDA approved for the treatment of sJIA in patients 2 years of age and older, while Ilaris is the only drug approved for the treatment of AOSD. There are no guidelines for treating AOSD; however, literature recommends a similar treatment approach to sJIA. The use of tocilizumab in AOSD is supported by a small, randomized trial and several case reports and case series that have shown efficacy in patients with AOSD with both the intravenous and subcutaneous formulations. Tocilizumab's efficacy in patients with sJIA also serves as additional evidence to support its use in AOSD.

- Cytokine Release Syndrome

  - CRS is an acute systemic inflammatory syndrome that is characterized by fever with or without multiple organ dysfunction occurring in response to chimeric antigen receptor (CAR)-T cell therapy, therapeutic antibodies and haploidentical allogeneic hematopoietic cell transplantation (HCT). The incidence of CRS varies based on the causative treatment and underlying malignancy. It most often occurs following targeted cellular immunotherapy for B cell acute lymphoblastic leukemia/lymphoma (ALL/LBL), non-Hodgkin's lymphoma (NHL), Chronic lymphocytic leukemia (CLL), and multiple myeloma (MM), and is less common following immunotherapy with bispecific antibodies and in the treatment of solid tumors.

  - The systemic inflammatory reaction that occurs with CRS involves increased levels of inflammatory cytokines and activation of T lymphocytes, macrophages, and endothelial cells; IL-6 appears to have a central role in CRS pathophysiology. The resulting manifestation of the CRS inflammatory response includes fever, which may be accompanied by fatigue, headache, rash, diarrhea, arthralgia, and myalgia. Mild CRS may progress to a more severe form, which may include hypotension, hypoxia, and uncontrolled systemic inflammatory response with circulatory collapse, vascular leakage, peripheral and/or pulmonary edema, renal failure, cardiac dysfunction, and multiorgan system failure. Neurologic manifestations may also develop in severe CRS, including aphasia, altered level of consciousness, impaired cognitive skills, motor weakness, seizures, and cerebral edema.

  - Diagnosis is made by clinical presentation and the temporal relationship to the triggering immune therapy. CRS typically begins within 1-14 days after CAR-T cell therapy with resolution within a few days to 2-3 weeks post CAR-T infusion. CRS diagnosis requires a fever (≥38°C) at onset, with or without hypotension, hypoxia, and/or other end-organ dysfunction in the hours to days after treatment with immune therapy like CAR-T. Due to variability of laboratory findings in CRS, laboratory studies are not required for diagnosis though they may be beneficial for differential diagnosis.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The severity of CRS is graded differently based on the causative immune therapy; literature includes diverse grading scales as there are various grading scales proposed for CRS. CAR-T therapy grading proposed by the American Society for Transplantation and Cellular Therapy (ASTCT) is based on the degree and type of interventions required for patient management.
    - Grade 1: Temperature ≥38°C and no hypotension and no hypoxia (defined by a requirement for supplemental oxygen to correct an oxygen deficit vs. a specific level of oxygen saturation). Patients may have malaise, myalgias, or arthralgias, but the severity of these constitutional symptoms does not affect the grade of CRS
    - Grade 2: Temperature ≥38°C plus hypotension that does not require vasopressors and/or hypoxia that requires low-flow nasal cannula (≤6 L/minute or blow-by oxygenation). See the notes below regarding aspects of the management of hypotension and hypoxia that may affect grading.
    - Grade 3: Temperature ≥38°C plus hypotension that requires one vasopressor (with or without vasopressin) and/or hypoxia requiring high-flow nasal cannula (≥6 L/minute), facemask, non-rebreather mask, or Venturi mask that is not attributable to any other cause.
    - Grade 4: Temperature ≥38°C plus hypotension that requires multiple vasopressors (excluding vasopressin) and/or hypoxia requiring positive pressure (e.g., continuous positive airway pressure [CPAP], bilevel positive airway pressure [BiPAP], intubation and mechanical ventilation). Intubation for reasons other than hypoxia alone does not meet criteria for Grade 4 CRS.
- The National Comprehensive Cancer Network (NCCN) guidelines for management of CAR T-Cell and Lymphocyte Engager-Related Toxicities (version 2.2026) recommends treatment with tocilizumab for patients with Grades 1-4 CRS related to CAR-T cell therapies either as monotherapy or in conjunction with IV corticosteroids. NCCN recommends considering tocilizumab treatment for prolonged (> 3 days) Grade 1 CRS in patients with significant symptoms, comorbidities, and/or are elderly. An FDA-approved biosimilar is considered an appropriate substitute for any recommended systemic biologic in the NCCN guidelines.
- Tocilizumab is FDA approved for treating severe or life-threatening CRS due to CAR-T cell therapy in patients 2 years of age and older. If there is no improvement after the first dose, the dose may be repeated in 8 hours for a maximum of 3 doses in 24 hours and 4 doses total. The need for subsequent dosing must be assessed after each dose.
- CAR-T therapy is currently only administered as one dose per lifetime; it has not been studied in patients who received prior treatment with any CAR-T therapy or other genetically modified T-cell therapy. As such, the use of Actemra for CRS related to CAR-T is limited to a one-time treatment.
- The FDA REMS program regulates CAR-T cell products in the United States. REMS guidelines should be consulted for specific details of CRS management as guidelines for treating CRS associated with CAR-T cell therapy varies according to the specific product.

- Giant Cell Arteritis
    - GCA (also known as Horton disease, cranial arteritis, and temporal arteritis) is the most common systemic vasculitis in North America, affecting adults over 50 years of age with a peak incidence between ages 70 and 79. Symptoms and signs of GCA typically results from vascular inflammation of the small extracranial

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

branches of the carotid arteries; however, the disease is systemic and may involve the aorta and large arteries, leading to aneurysms of the thoracic and abdominal aorta ischemic symptoms in the extremities, respectively.

- Manifestations of GCA vary between patients and may be transient or fluctuating. Systemic symptoms are frequent and may include fever, fatigue and weight loss. Diagnosis of GCA should be considered in patients over 50 years old complaining of or found to have one or more of the following symptoms, the significance of which is heightened if a patient has a current or prior diagnosis of polymyalgia rheumatica:
    - New headache
    - Abrupt onset of visual disturbances, in particular transient monocular visual loss
    - Jaw claudication
    - Unexplained fever or anemia
    - Elevated erythrocyte sedimentation rate (ESR) and/or C-reactive protein (CRP)
- The most significant complication of GCA is vision loss, which most frequently arises from cranial arteritis, a major phenotype of GCA. Approximately 25-50% of untreated patients who present with vision loss in one eye will develop bilateral blindness, and once visual impairment due to GCA is established, it is rarely reversible. Another concern is subclinical involvement of the aorta and large arteries (large vessel GCA), which occurs frequently and may result in aortic aneurysm and dissection.
- The 2021 ACR/Vasculitis Foundation Guideline for GCA and Takayasu Arteritis recommends temporal artery biopsy as the gold standard for GCA diagnosis; scheduling of the biopsy, however, should not interfere with treatment initiation when there is a high likelihood of GCA as a delay can put patients at risk of significant complications, particularly vision loss. In patients with a negative biopsy but high GCA suspicion, the guideline conditionally recommends noninvasive vascular imaging of the large vessels with clinical assessment to aid in diagnosis. The diagnostic procedure of choice for suspected large vessel GCA is advanced imaging of the torso (i.e. CT, MRI, PET scan).
- High dose glucocorticoid treatment (typically prednisone for 2-4 weeks) followed by a slow oral glucocorticoid taper is typically the mainstay of therapy for GCA and should be instituted promptly if a diagnosis of GCA is strongly suspected, especially in the event of recent or threatened vision loss. The initiation of IV or oral glucocorticoids is determined based on the presence of visual symptoms/loss or critical cranial ischemia. Prompt glucocorticoid treatment reduces the risk of sight loss to less than 1% in patients with intact vision at time of treatment initiation. Glucocorticoid effectiveness in GCA is well established by decades of clinical experience, producing prompt improvement of signs and symptoms generally within 24 to 48 hours of treatment initiation.
- The 2021 guideline conditionally recommends the use of glucocorticoids combined with tocilizumab or other non-glucocorticoid immunosuppressants over oral glucocorticoids alone for patients with newly diagnosed GCA; however, the guideline ultimately defers to the treating physician and the patient's clinical condition, values, and preferences in making the decision to treat with glucocorticoid monotherapy or combination therapy. Once a patient is in clinical remission, the oral glucocorticoids can be tapered.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Relapses may occur and are most common at prednisone doses less than 20 mg/day; these are treated with increases in the glucocorticoid dose appropriate to the relapse, and/or the addition of a nonglucocorticoid immunosuppressants like tocilizumab or methotrexate. The optimal duration of therapy for GCA is not well established given the variable presentation and duration of symptoms and may extend from one to multiple years. The 2021 guideline panel takes the position that the duration of therapy should be guided by the patient and emphasized minimizing the use of glucocorticoids as much as possible due to glucocorticoid toxicity; however, the panel recognized that longer-term use may be needed in select patients to avoid relapses and flares.

- Potential toxicities of glucocorticoids are of concern in patients of advanced age, with comorbid conditions (e.g., preexisting diabetes mellitus, osteoporosis, significant obesity), and utilizing glucocorticoid therapy for extended periods of time. The prevalence of significant glucocorticoid-related adverse events correlates with increased patient age and cumulative glucocorticoid dose. Based on the patient population affected by GCA and the prolonged exposure to glucocorticoids, early implementation of glucocorticoid-sparing agents like tocilizumab may be preferred to minimize toxicity risk.

- Tocilizumab is FDA approved for the treatment of GCA in adults based on safety and efficacy data from pivotal trials that evaluated tocilizumab for both new-onset and relapsing GCA. For the treatment of GCA, tocilizumab is recommended in combination with a tapering course of glucocorticoids; monotherapy with Actemra may be continued following glucocorticoid discontinuation.

- Systemic sclerosis-associated interstitial lung disease

  - SSc-ILD is a rare autoimmune disease affecting about 75,000 people in the U.S. It is characterized by thickening, hardening, and scarring of the skin and caused by the accumulation of excess collagen in the skin and internal organs, such as the heart, lungs, kidneys, and intestinal tract, leading to organ damage. An estimated 80% of patients have ILD due to the buildup of scar tissue and inflammation in the lungs. ILD is a progressive disease that can significantly impact lung function.

  - Mycophenolate and cyclophosphamide are considered standard of care as initial therapy as supported by numerous clinical trials and the European League Against Rheumatism (EULAR) guidelines for SSc (updated in 2017). Mycophenolate is often preferred in practice as it has comparable benefit to cyclophosphamide but has a better toxicity profile. Ofev® and more recently Actemra subcutaneous injection received FDA approval for this indication and are options for patients who are not candidates for mycophenolate or cyclophosphamide.

  - The approval of Actemra was based on the results of a Phase III, placebo-controlled trial. The trial did not meet its primary goal of a change on a standard skin fibrosis measurement called the modified Rodnan Skin Score (mRSS). However, based on a post hoc subgroup analysis, a benefit was apparent in patients with confirmed SSc-ILD. Analyses found that these Actemra-treated patients, relative to those on placebo, had a smaller decline in mean forced vital capacity (FVC).

- COVID-19

  - On December 21, 2022, Actemra was approved for the treatment of COVID-19 in hospitalized adults who are receiving systemic corticosteroids and require supplemental oxygen, non-invasive or invasive mechanical ventilation, or extracorporeal membrane oxygenation (ECMO). This approval is for adults aged 18 and older only. There is still an Emergency Use Authorization in place for use of Actemra for treatment of COVID-19 in hospitalized patients aged 2-17.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Actemra comes in 2 formulations: an IV infusion formulation and a subcutaneous injection formulation. The FDA approval for COVID-19 only pertains to the IV formulation as the medication should not be self-administered in the hospital. The recommended dosage of Actemra for adult patients with COVID-19 is 8 mg/kg administered via a 60-minute IV infusion.

- The National Institutes of Health (NIH) COVID-19 Treatment Guidelines recommend oral Olumiant® (baricitinib) or IV Actemra in addition to dexamethasone in patients who are hospitalized requiring high-flow nasal cannula (HFNC) oxygen or noninvasive ventilation (NIV), or in patients who are hospitalized requiring ECMO or mechanical ventilation (MV).

- The primary outcome in the RECOVERY trial was 28-day mortality in those receiving Actemra compared to usual care alone. The rate ratio was 0.85; (95% CI 0.76-0.94; p=0.0028) demonstrating that Actemra was statistically significant in reducing 28-day mortality compared to usual care alone. Additionally, among patients who were not receiving invasive mechanical ventilation at baseline in the RECOVERY trial, patients on Actemra were less likely to reach the composite endpoint of invasive mechanical ventilation or death. The risk ratio was 0.84; (95% CI, 0.77-0.92; p <0.0001).

References:

1. Actemra (tocilizumab) [prescribing information]. South San Francisco, CA: Genentech Inc; December 2022.
2. Avtozma [prescribing information]. Jersey City, NJ: Celltrion, Inc.; January 2026.
3. Cimzia (certolizumab pegol) [prescribing information]. Smyrna, GA: UCB, Inc. September 2019.
4. COVID-19 Treatment Guidelines Panel. Coronavirus Disease 2019 (COVID-19) Treatment Guidelines. National Institutes of Health. Available at https://www.covid19treatmentguidelines.nih.gov/. Accessed 02/21/2023.
5. Docken WP and Rosenbaum JT. Clinical manifestations of giant cell arteritis. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
6. Docken WP. Diagnosis of giant cell arteritis. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
7. Docken WP. Treatment of giant cell arteritis. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
8. Enbrel (etanercept) [prescribing information]. Thousand Oaks, CA: Immunex Corporation; March 2020.
9. Fraenkel L, et al. 2021 American College of Rheumatology Guideline for the Treatment of Rheumatoid Arthritis. Arthritis Care & Research. 2021 Jul; 73 (7):924-939.
10. Humira (adalimumab) [prescribing information]. North Chicago, IL: AbbVie; March 2020.
11. Ilaris (canakinumab) [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals; June 2020.
12. Inflectra (infliximab-dyyb) [prescribing information].New York, NY: Pfizer; June 2019.
13. Kevzara (sarilumab) [prescribing information]. Bridgewater, NJ: Sanofi0Aventis; April 2018.
14. Kineret (anakinra) [prescribing information]. Stockholm, Sweden: Swedish Orphan Biovitrum AB; June 2018.
15. Kowal-Bielecka O, Fransen J, Avouac J EUSTAR Coauthors, et al. Update of EULAR recommendations for the treatment of systemic sclerosis. Annals of the Rheumatic Diseases 2017;76:1327-1339.
16. Mandl L. Treatment of adult Still's disease. In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
17. Maz M, Chung SA, et al. 2021 American College of Rheumatology/Vasculitis Foundation Guidelines for the Management of Giant Cell Arteritis and Takayasu Arteritis. Arthritis Rheumatol. 2021 Aug;73(8):1349-1365. doi: 10.1002/art.41774. Epub 2021 Jul 8. PMID: 34235884.
18. National Comprehensive Cancer Network Guidelines Version 2.2026. Management of CAR T-Cell and Lymphocyte Engager-Related Toxicities. Accessed on January 26, 2026.
19. Olumiant (baricitinib) [prescribing information]. Indianapolis, IN: Eli Lilly; July 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

20. Onel KB, Horton db, et al. 2021 American College of Rheumatology Guideline for the Treatment of Juvenile Idiopathic Arthritis: Therapeutic Approaches for Oligoarthritis, Tempomandibular Joint Arthritis, and Systemic Juvenile Idiopathic Arthritis. Arthritis Rheumatol. 2022 Apr;74(4):553-569. doi: 10.1002/art.42037. Epub 2022 Mar 1.
21. Orencia (abatacept) [prescribing information]. Princeton, NJ: Bristol-Myers Squibb; June 2020.
22. Porter DL and Maloney DG. Cytokine release syndrome (CRS). In: UpToDate, Post, TW (Ed), UpToDate, Waltham, MA, 2020.
23. RECOVERY Collaborative Group. "Tocilizumab in patients admitted to hospital with COVID-19 (RECOVERY): a randomised, controlled, open-label, platform trial." Lancet (London, England) vol. 397,10285 (2021): 1637-1645. doi:10.1016/S0140-6736(21)00676-0
24. Reihl Crnogaj M, Čubelić D, Babić A, Mayer M, Anić B. Treatment of refractory adult onset Still's disease with tocilizumab-a single centre experience and literature review. Rheumatol Int. 2020 Aug;40(8):1317-1325. Doi: 10.1007/s00296-020-04622-4. Epub 2020 Jun 6.
25. Remicade (infliximab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; May 2020.
26. Renflexis (infliximab-abda) [prescribing information]. Whitehouse Station, NJ: Merc Sharp & Dohme Corp; February 2020.
27. Ringold et al. 2019 American College of Rheumatology/Arthritis Foundation Guideline for the Treatment of JIA. Arthritis Care and Research. Vol 71 No 6 Jun 2019.
28. Rinvoq (upadacitinib) [prescribing information]. North Chicago, IL: AbbVie Inc; July 2020.
29. Rituxan (rituximab) [prescribing information]. South San Francisco, CA: Genentech Inc; August 2020.
30. Simponi (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.
31. Simponi Aria (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.
32. Tofidence (prescribing information). Cambridge, MA: Biogen; December 2024.
33. Tyenne [prescribing information]. Lake Zurich, IL: Fresenius Kabi USA LLC; February 2025.
34. Vandemergel X, Vandergheynst F. Efficacy of Low-Dose Tocilizumab on Relapsing Adult-Onset Still's Disease. Acta Medica (Hradec Kralove). 2016;59(1):22-5. Doi: 10.14712/18059694.2016.51.
35. Varga J, Montesi S. Treatment and prognosis of interstitial lung disease in systemic sclerosis (scleroderma). UpToDate. ©2019. Updated 7/15/2019
36. Xeljanz (tofacitinib) [prescribing information]. New York, NY: Pfizer; December 2019.

Policy History		
#	Date	Change Description
4.2	Effective Date: 04/16/2026	Added tocilizumab-anoh unbranded biosimilar to the policy
4.1	Effective Date: 10/01/2025	UM medical management system update for MAPPO and BCNA for Avtozma
4.0	Effective Date: 08/07/2025	Added tocilizumab-aazg unbranded biosimilar to the policy
3.9	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated to add Avtozma and criteria requiring the member to self-administer unless clinically unable to do so
3.8	Effective Date: 02/20/2025	UM medical management system update for BCBS and BCN for Avtozma and Tocilizumab-anoh

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3.7	Effective Date: 10/03/2024	Added "for the same indication" to the not to be used in combination with other biologics or targeted DMARDs criteria
3.6	Effective Date: 07/01/2024	UM medical management system update for MAPPO and BCNA for Tyenne and Tocilizumab-aazg
3.5	Effective Date: 05/01/2024	UM medical management system update for MAPPO and BCNA for Tofidence
3.4	Effective Date: 04/11/2024	Added biosimilar Tyenne to the policy
3.3	Effective Date: 03/21/2024	UM medical management system update for BCBS and BCN for Tyenne
3.2	Effective Date: 12/14/2023	Changed policy name from Actemra to Tocilizumab Products Policy due to approval of biosimilar Updated to add Tofidence, FDA approved indications criteria, and criteria to allow coverage for biosimilar products for FDA labeled indications of the innovator product
3.1	Effective Date: 10/19/2023	UM medical management system update for BCBS and BCN for Tofidence
3.0	Effective Date: 04/06/2023	Removed DMARDs from sJIA and AOSD step options, added SSc-ILD authorization and renewal criteria, and changed CRS initial authorization period to 60 days to align with PA60 legislation
2.9	Effective Date: 04/14/2022	Updated giant cell arteritis criteria and supporting information to allow use of SC or IV formulation per updated labeling
2.8	Effective Date: 12/09/2021	Removed FDA approved indications criteria
2.7	Effective Date: 04/08/2021	Updated to include criteria for new indication of SSc-ILD
2.6	Effective Date: 02/04/2021	Addition of criteria for coverage of Still's disease, including AOSD
2.5	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications Updated all background information
2.4	Effective Date: 10/08/2020	Annual review of criteria was performed, no changes were made.
2.3	Effective Date: 11/07/2019	Annual review of criteria was performed, no changes were made.
2.2	Effective Date: 11/01/2018	Updated policy with new preferred product verbiage to apply to all indications
2.1	Effective Date: 08/09/2018	Updated policy with new preferred product verbiage

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

2.0	Effective Date: 02/08/2018	Criteria Update: GCA and CRS
1.9	Effective Date: 07/05/2017	UM medical management system update for MAPPO and BCNA for Actemra
1.8	Effective Date: 03/23/2017	New coverage criteria for biologics that treat rheumatoid conditions
1.7	Effective Date: 02/09/2017	Updated: PJIA & SJIA formatting within the coverage criteria section.
1.6	Effective Date: 07/01/2016	UM medical management system update for BCN for Actemra
1.5	Effective Date: 05/05/2016	Updated step therapy requirements: T/F of Remicade and Simponi Aria
1.4	Effective Date: 02/13/2014	Updated Actemra subcutaneous
1.3	Effective Date: 08/08/2013	Updated PJIA indication
1.2	Effective Date: 01/22/2013	UM medical management system update for BCBS for Actemra
1.1	Effective Date: 08/09/2012	Criteria Updates: Criteria, Dose. Considerations
1.0	Effective Date: 04/2010	Policy History: - Custom/Clinical Formulary: May Add - Part D: B vs D; if D then specialty tier based on pricing - Part D formulary chapter: 6D Miscellaneous Rheumatologic Agents Immunology and Hematology: - Miscellaneous Immunologic and Hematologic Agents

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Trastuzumab Class Policy

Herceptin® (trastuzumab) **- HCPCS: J9355**
Hercessi™ (trastuzumab-strf) **- HCPCS: Q5146**
Herzuma® (trastuzumab-pkrb) **- HCPCS: Q5113**
Kanjinti™ (trastuzumab-anns) **- HCPCS: Q5117**
Ogivri™ (traztuzumab-dkts) **- HCPCS: Q5114**
Ontruzant® (trastuzumab-dttb) **- HCPCS: Q5112**
Trastuzumab-pkrb - HCPCS: J3590
Trazimera™ (trastuzumab-qyyp) **- HCPCS: Q5116**

↑ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Herceptin and its biosimilars are anti-HER2 monoclonal antibodies that bind to the HER2 receptor and inhibit proliferation of tumor cells that overexpress the receptor. Both breast and gastric cancers can be positive for the HER2 receptor. Herceptin and the trastuzumab biosimilars have been studied in these tumor types and are guideline recommended for use. When used as adjuvant therapy, trastuzumab should be given for a total of 52 weeks of therapy. When used in metastatic disease, treatment should continue indefinitely until unacceptable toxicity or disease progression. Trastuzmab products are not effective against tumors that do not overexpress the HER2 receptor.

- The National Comprehensive Cancer Network (NCCN) 2025 Breast Cancer guidelines and NCCN 2025 Gastric Cancer guidelines support the use of the American Society of Clinical Oncology (ASCO)/College of American Pathologist (CAP) HER2 testing guidelines. The guidelines define tumors as HER2-positive when they meet any of the following: a single probe average HER2 copy number greater than or equal to 6.0 signals/cell, a dual-probe HER2/CEP17 ratio greater than or equal to 2.0, or a dual-probe HER2/CEP17 ratio less than 2.0 with an average HER2 copy number greater than or equal to 6.0 signals/cell.

- NCCN guidelines category 1 recommendations are based on high levels of evidence and uniform concensus that the recommendation is appropriate. Category 2A recommenations are based on a lower level of evidence but still have NCCN uniform concensus the recommenations are appropriate. Category 2B and lower recommendtions are based on low levels of evidence and do no have concensus the recommendation is appropriate, therefore, these treatment regimens should only be used when all other options have been exhausted.

- Where guidelines recommend trastuzumab to be used in combination with other agents as part of a treatment regimen it should be administered as such. Studies have been completed to support use as combination therapy in these scenarios. There are situations where use as a single agent is warranted, for instance, in breast cancer following multiple modality anthracycline therapy. When recommended, trastuzumab can be given as monotherapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- NCCN guidelines state an FDA approved biosimilar can be substituted for Herceptin. The guidelines do not specify what biosimilars are appropriate for a specific tumor type which allows for use of any of the biosimilars to be used for any indication the innovator product is FDA approved for.

References:

1. Herceptin [prescribing information]. South San Francisco, CA: Genentech, Inc.; June 2024.
2. Herzuma [prescribing information]. North Wales, PA: Teva Pharmaceuticals USA, Inc.; November 2024.
3. Trazimera [prescribing information]. New York, NY: Pfizer; November 2020.
4. Kanjinti [prescribing information]. Thousand Oaks, CA: Pfizer; December 2024.
5. Ogivri [prescribing information]. Zurich, Switzerland: Mylan; November 2024.
6. Ontruzant [prescribing information]. Whitehouse Station, NJ: Merck and Co., Inc.; February 2025.
7. Hercessi [prescribing information]. Raleigh, NC: Accord BioPharma Inc.; September 2024.
8. Stebbing J, Baranau Y, Baryash V, et al. CT-P6 compared with reference trastuzumab for HER2-positive breast cancer: a randomised, double-blind, active-controlled, phase 3 equivalence trial. Lancet Oncol. 2017 Jul; 18(7): 917-28.
9. Pegram MD, Bondarenko I, Zorzetto MMC, et al. PF-05280014 (a trastuzumab biosimilar) plus paclitaxel compared with reference trastuzumab plus paclitaxel for HER2-positive metastatic breast cancer: a randomized, double-blind study. BR J Cancer. 2019 Jan; 120(2): 172 – 82.
10. Von Minckwitz G, Colleoni M, Kolberg HC, et al. Efficacy and safety of ABP 980 compared with reference trastuzumab in women with HER2-positive early breast cancer (LILAC study): a randomised, double-blind, phase 3 trial. Lancet Onc. 2018 July 1; 19(7): 987 – 998.
11. National Comprehensive Cancer Network (NCCN). Breast cancer (Version 4.2025). 2025 April 17. Available from: https://www.nccn.org/professionals/physician_gls/pdf/breast.pdf. Accessed May 28, 2025.
12. National Comprehensive Cancer Network (NCCN). Gastric cancer (Version 2.2025). 2025 April 4. Available from: https://www.nccn.org/professionals/physician_gls/pdf/gastric.pdf. Accessed May 28, 2025.
13. Mylan Press Release. U.S. FDA Approves Mylan and Biocon's Ogivri, the First Biosimilar for Trastuzumab, for the Treatment of HER2- Positive Breast and Gastric Cancers. December 1, 2017. Available at: http://newsroom.mylan.com/2017-12-01-U-S-FDA-Approves-Mylan-and-Biocons-OgivriTM-the-First-Biosimilar-for-Trastuzumab-for-the-Treatment-of-HER2-Positive-Breast-and-GastricCancers
14. Rugo HS, Barve A, Waller CF, et al. Effect of a Proposed Trastuzumab Biosimilar Compared With Trastuzumab on Overall Response Rate in Patients With ERBB2 (HER2)–Positive Metastatic Breast Cancer A Randomized Clinical Trial. JAMA. 2017;317(1):37–47.
15. Pivot X, Bondarenko I, Nowecki Z, et al. Phase III, Randomized, Double-Blind Study Comparing the Efficacy, Safety, and Immunogenicity of SB3 (Trastuzumab Biosimilar) and Reference Trastuzumab in Patients Treated With Neoadjuvant Therapy for Human Epidermal Growth Factor Receptor 2–Positive Early Breast Cancer. J Clin Oncol. 2018; 36(10): 968 – 74.
16. National Comprehensive Cancer Network. Colon cancer (Version 3.2025). 2025 Oct 20. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on December 10, 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Policy History		
#	Date	Change Description
2.4	Effective Date: 02/12/2026	Updated to include trastuzumab-dttb
2.3	Effective Date: 08/07/2025	Updated to include trastuzumab-pkrb
2.2	Effective Date: 06/05/2025	Annual review – no changes to the criteria at this time
2.1	Effective Date: 06/01/2025	UM medical management system update for MAPPO and BCNA for Hercessi
2.0	Effective Date: 06/06/2024	Updated to include Hercessi
1.9	Effective Date: 05/16/2024	UM medical management system update for BCBS and BCN for Hercessi
1.8	Effective Date: 04/11/2024	Annual review – no changes to the criteria at this time
1.7	Effective Date: 04/06/2023	Updated to include new indication of HER2-positive colorectal cancer
1.6	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days and up to 6 months at a time
1.5	Effective Date: 02/10/2022	Updated to remove prescriber requirement
1.4	Effective Date: 08/12/2021	Annual review of criteria was performed, no changes were made
1.3	Effective Date: 08/13/2020	New policy created for this class of drugs. The individual policies for Herzuma, Kanjinti, Ogivri, Ontruzant, and Trazimera will be retired.
1.2	Effective Date: 03/16/2020	UM medical management system update for MAPPO and BCNA for Kanjinti and Trazimera
1.1	Effective Date: 11/01/2019	UM medical management system update for BCN for Kanjiti, Trazimera, Herzuma, Ogivri and Ontruzant
1.0	Effective Date: 08/01/2019	UM medical management system update for BCN for Herceptin

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tregzi™ (allogeneic regulatory T cell immunotherapy with HSPC and T cells-vldq)
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tregzi is an allogeneic regulatory T cell-based immunotherapy with hematopoietic stem and progenitor cells and T cells indicated for use in matched donor HSCT with myeloablative preparative regimen, for hematopoietic and immunologic reconstitution and to improve chronic graft-versus-host disease (cGVHD)-free survival, in the treatment of adults with hematological malignancies.

- Hematological malignancies cause uncontrolled growth of unhealthy cells in the bone marrow where blood cells are made. They can broadly be categorized as different types of leukemias, lymphomas and myelomas. The Center for International Blood and Marrow Transplant Research (CIBMTR) reported over 23,000 HSCT in 2023, with a significant portion for blood cancers like leukemia. cGVHD occurs in approximately 40% - 50% of patients with hematologic malignancies who undergo allo-HSCT. It is the leading cause of late non-relapse mortality and long-term morbidity in these survivors. Acute myeloid leukemia (AML) is rapidly progressing cancer that starts in the bone marrow and results in an overproduction of abnormal white blood cells. AML is the most common acute leukemia in adults, with about 22,000 new cases diagnosed each year. The percentage of AML patients receiving HSCT more than doubled in the U.S. from 2010 (11.9%) to 2023 (24.5%). Acute lymphoblastic leukemia (ALL) is a fast-growing cancer that affects immature white blood cells (lymphoblasts) in the bone marrow. ALL is the most common leukemia in children under 15, but is rare in adults, with about 3,000-6,000 new cases annually in the U.S. Myelodysplastic syndrome (MDS) is a group of diseases that prevent the bone marrow from producing enough healthy blood cells and can develop into leukemia. Around 12,000 to 15,000 new cases are diagnosed each year in the U.S. and an estimated 10% of these patients receiving HCST.

- The FDA approval for Tregzi is based on results from the pivotal Phase III study, Precision-T, a randomized, open-label, multi-center study that evaluated the safety, efficacy and tolerability of Tregzi compared to conventional allogeneic hematopoietic stem cell transplant (alloHSCT) in 187 adult (age 18-65) patients with AML, ALL mixed-phenotype acute leukemia (MPAL), and MDS. Patients must have been matched to the related or unrelated donor at an 8/8 HLA-A, -B, -C, and DRB1 match and have had planned to undergo myeloablative conditioning with total body irradiation (TBI)/cyclophosphamide (Cy), TBI/etoposide, or busulfan/fludarabine/thiotepa (BFT). For patients in the Tregzi arm, Tregzi was administered after myeloablative conditioning regimen; single-agent GVHD prophylaxis with tacrolimus was administered following Tregzi infusion (generally Day +3). A standard care arm of unmanipulated donor allograft with dual-agent tacrolimus and methotrexate GVHD prophylaxis was used for comparison. In the Precision-T trial key exclusion criteria included prior alloHSCT, being seropositive for HIV-1 or -2, HTLV-1 or -2, hepatitis B sAg, or hepatitis C antibody, and any uncontrolled autoimmune disease requiring active immunosuppressive treatment.

    - The primary endpoint, survival free of moderate-to-severe cGVHD, was met with a 1-year rate of outcome at 78% (95% CI: 65%, 87%) in the Tregzi plus single-agent tacrolimus group vs 38.4% (95% CI: 26%, 51%) in the standard care arm plus tacrolimus/methotrexate group ($p < 0.00001$).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - A secondary endpoint of cumulative incidence of moderate-to-severe cGVHD was 12.6% (95% CI: 5%, 23%) and 44.0% (95% CI: 31%, 56%) in the Tregzi and alloHSCT arms, respectively ($p < 0.00002$).

  - The overall survival (OS), another secondary endpoint, was 93.7% (95% CI: 86%, 97%) in the Tregzi arm and 83.2% (95% CI: 73%, 90%) in the alloHSCT arm though results only trended towards significance ($p = 0.11823$).

  - A secondary endpoint of GVHD and relapse-free survival (GRFS) was 63.1% and 30.9% with Tregzi and alloHSCT ($p<0.001$ in a post hoc analysis), respectively.

  - The cumulative incidence of non-relapse mortality (NRM) was 3.4% (95% CI: 0.9%, 8.8%) for Tregzi versus 13.2% (95% CI: 6.8%, 21.6%) for alloHSCT ([95% CI: 0.08, 0.93]; $p=0.03$ in a post hoc analysis).

- The National Comprehensive Cancer Network (NCCN) guidelines for hematopoietic cell transplantation (Version 2.2026 – April 3, 2026) recommend HSCT for a variety of blood cancers and mention the most common malignancies treated with alloHSCT include AML, MDS, myeloproliferative neoplasms (MPN), and ALL. The appropriateness of HSCT varies with the type of malignancy and remission status, so disease- specific NCCN guidelines should be consulted to determine the appropriate timing of this treatment. Hematopoietic stem cells for allogenic transplant can be obtained from peripheral blood, bone marrow, or umbilical cord blood (UCB). Several clinical factors should be considered when choosing an optimal graft source including disease state, disease stage, patient comorbidities, and the urgency for transplantation. The use of peripheral blood progenitor cells (PBPC) has largely replaced the use of bone marrow grafts (in particular for autologous HSCT) due to the ease of collection, avoidance of general anesthesia, more rapid engraftment rates, and reduced risk of graft failure. However, allogeneic PBPC transplants are associated with an increased risk of cGVHD compared to bone marrow transplants. There are three potential donor sources for hematopoietic cells: related donor (family members), unrelated volunteers (from donor registries), and UCB units. HLA matching is the most important factor when choosing a donor and HLA-matched siblings remains the preferred donor source, although post-transplant survival is comparable among patients receiving hematopoietic cells from HLA-matched unrelated donors. cGVHD is the leading cause of NRM after alloHSCT. Optimal GVHD care is best delivered by a multidisciplinary team, preferably in medical centers with access to specialized transplant services. Systemic corticosteroids are a mainstay of treatment for GVHD. Steroid-refractory GVHD, even after significant progress with recent FDA approval of several agents, remains associated with significant morbidity, poor quality of life, increased health care costs, and significant mortality. The guidelines suggest that continued research to improve risk stratification, develop new therapies, and enhance supportive care is needed. The guidelines have not been updated to include Tregzi.

- Tregzi is for intravenous use only. A single dose of Tregzi consists of hematopoietic stem and progenitor cells (HSPCs), regulatory T cells (Tregs), conventional T cells (Tcons), and Tcon diluent provided in 4 separate infusion bags labeled for the specific patient. Each patient-specific infusion bag of Tregzi contains a batch dependent concentration of allogeneic cells. Patient-specific dose information can be found within the Certificate of Analysis (COA).

  - HSPCs – intravenous, once, on day 0

  - Tregs – intravenous , once, on day 0 immediately after administration of HSPCs

  - Tcons – intravenous, once, on day +2 to +3 (after the start of HSPC infusion on day 0)

  - Tcon diluent – intravenous, once, administered with Tcons drug product on day +2 to +3 (after HSPC infusion on day 0)

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- An appropriate myeloablative preparative regimen should be administered before infusion of Tregzi. The use of corticosteroids as premedication is strongly discouraged per the prescribing information.

References:

1. Tregzi [prescribing information]. Sacramento, CA. Orca Biosystems Inc. June 2026
2. National Comprehensive Cancer Network. Hematopoietic Cell Transplantation (HCT) (Version 2.2026).April 3, 2026. Available at: https://www.nccn.org Accessed on July 7, 2026.
3. Ortner N, Holzer H. 2025 U.S. organ and tissue transplants: estimated costs and utilization, emerging issues, and solutions. Milliman; February 2025. Accessed July 2, 2026. Available at: https://www.milliman.com/en/insight/2025-us-organ-and-tissue-transplants-costs-utilization
4. Baumrin E, Loren AW, Falk SJ, Mays JW, Cowen EW. Chronic graft-versus-host disease. Part I: Epidemiology, pathogenesis, and clinical manifestations. J Am Acad Dermatol. 2024 Jan;90(1):1-16. doi: 10.1016/j.jaad.2022.12.024. Epub 2022 Dec 23. Retraction in: J Am Acad Dermatol. 2026 Jan 30:S0190-9622(26)00117-9. doi: 10.1016/j.jaad.2026.01.065. PMID: 36572065; PMCID: PMC10287844.
5. Elsevier. Chronic graft versus host disease. ScienceDirect Topics. Accessed July 8, 2026. https://www.sciencedirect.com/topics/pharmacology-toxicology-and-pharmaceutical-science/chronic-graft-versus-host-disease
6. Idoroenyi Amanam, Salman Otoukesh, Monzr M. Al Malki, Amandeep Salhotra; Chronic GVHD: review advances in prevention, novel endpoints, and targeted strategies. Hematology Am Soc Hematol Educ Program 2023; 2023 (1): 164–170. doi: https://doi.org/10.1182/hematology.2023000427

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 08/13/2026</td><td>New policy.
This criteria replaces previously approved preliminary criteria.</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/03/2026</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 07/13/2026</td>
<td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tremfya® IV (guselkumab)
HCPCS: J1628

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Tremfya (guselkumab) is an interleukin-23 inhibitor (IL-23i) with the following indications:
  - Adults and pediatric patients 6 years of age and older who also weigh at least 40 kg with moderate-to-severe plaque psoriasis who are candidates for systemic therapy of phototherapy
  - Adults and pediatric patients 6 years of age and older who also weigh at least 40 kg with active psoriatic arthritis
  - Adults with moderately to severely active ulcerative colitis
  - Adults with moderately to severely active Crohn's disease (CD)
- Tremfya is available as a subcutaneous (SC) injection and an intravenous (IV) infusion. The IV formulation is only indicated for the induction phases of ulcerative colitis and CD, whereas the SC formulation is indicated for plaque psoriasis, psoriatic arthritis, and both the induction and maintenance phases of ulcerative colitis and CD.

- Per the prescribing information, Tremfya may be administered alone or in combination with traditional DMARDs (e.g., methotrexate) for psoriatic arthritis. There is no robust clinical evidence supporting the safety and efficacy of Tremfya used in combination with other biologic agents or targeted DMARDs (e.g., Janus kinase (JAK) inhibitors).

- Clinical reasons a patient may be unable to self-administer Tremfya include:
  - Patient or caregivers are unable to perform subcutaneous injections with proper technique
  - Member requires monthly medical support from the physician

- Ulcerative colitis
  - Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

- The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

- The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

- The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

- Crohn’s disease

  - Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

  - The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

  - Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

- A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

- The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

References:

1. Elmets CA, Korman NJ, Prater EF, Wong EB, Rupani RN, Kivelevitch D et al, Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures, Journal of the American Academy of Dermatology (2020), doi: https://doi.org/10.1016/j.jaad.2020.07.087
2. Elmets CA, Lim HW, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy. J Am Acad Dermatol 2019; 81: 775-804. https://doi.org/10.1016/j.jaad.2019.04.042
3. Menter A, Strober BE, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol 2019; 80: 1029-1072. https://doi.org/10.1016/j.jaad.2018.11.057
4. Menter A, Gelfand JM, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol 2020; 82: 1445-1486. https://doi.org/10.1016/j.jaad.2020.02.044
5. Singh JA, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis Rheumatol. 2019 Jan; 71 (1): 5-32
6. Cimzia (certolizumab pegol) [prescribing information]. Smyrna, GA: UCB, Inc. September 2019.
7. Cosentyx (secukinumab) [prescribing information]. East Hanover, NJ: Novartis Pharmaceuticals; June 2020.
8. Enbrel (etanercept) [prescribing information]. Thousand Oaks, CA: Immunex Corporation; March 2020.
9. Humira (adalimumab) [prescribing information]. North Chicago, IL: AbbVie; March 2020.
10. Ilumya (tildrakizumab) [prescribing information]. Cranbury, NJ: Sun Pharmaceutical Industries, Inc; July 2020.
11. Inflectra (infliximab-dyyb) [prescribing information].New York, NY: Pfizer; June 2019.
12. Kevzara (sarilumab) [prescribing information]. Bridgewater, NJ: Sanofi0Aventis; April 2018.
13. Kineret (anakinra) [prescribing information]. Stockholm, Sweden: Swedish Orphan Biovitrum AB; June 2018.
14. Olumiant (baricitinib) [prescribing information]. Indianapolis, IN: Eli Lilly; July 2020.
15. Orencia (abatacept) [prescribing information]. Princeton, NJ: Bristol-Myers Squibb; June 2020.
16. Otezla (apremilast) [prescribing information]. Thousand Oaks, CA: Amgen Inc; April 2020.
17. Remicade (infliximab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; May 2020.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

18. Renflexis (infliximab-abda) [prescribing information]. Whitehouse Station, NJ: Merc Sharp & Dohme Corp; February 2020.
19. Rinvoq (upadacitinib) [prescribing information]. North Chicago, IL: AbbVie Inc; July 2020.
20. Siliq (brodalumab) [prescribing information]. Bridgewater, NL: Valeant Pharmaceuticals North America LLC; May 2018.
21. Simponi (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.
22. Simponi Aria (golimumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2019.
23. Skyrizi (risankizumab-rzaa) [prescribing information]. North Chicago, IL: AbbVie Inc; March 2020.
24. Stelara (ustekinumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; July 2020.
25. Taltz (ixekizumab) [prescribing information]. Indianapolis, IN: Eli Lilly and Co; May 2020.
26. Tremfya (guselkumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2025.
27. Xeljanz (tofacitinib) [prescribing information]. New York, NY: Pfizer; December 2019.
28. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
29. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343
30. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
31. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448

Policy History		
#	Date	Change Description
1.6	Effective Date: 07/01/2026 P&T Date: 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.
1.5	Effective Date: 12/04/2025	Added FDA approved weight criterion based on expanded indications for psoriatic arthritis and psoriasis to now include pediatrics 6 years and older weighing at least 40 kg
1.4	P&T Date: 10/09/2025 Effective Date: 01/01/2026	Updated wording to remove "subcutaneously only" with regard to self-administration to align with other policies in this class.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 06/05/2025</td><td>Updated to require subcutaneous products to be self-administered unless clinically unable to do so</td></tr>
<tr><td>1.2</td><td>Effective Date: 04/10/2025</td><td>Updated to include the new Crohn’s disease indication</td></tr>
<tr><td>1.1</td><td>Effective Date: 12/02/2024</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 10/03/2024</td><td>Updated to include new IV formulation.
Included criteria for ulcerative colitis – new indication associated with the new IV formulation.
Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Trogarzo® (ibalizumab-ulyk)
HCPCS: J1746

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Trogarzo is indicated for use in combination with other ARTs for the treatment of HIV-1 infection in heavily treatment-experienced adults with multidrug resistant (MDR) HIV-1 infection failing their current antiretroviral regimen. It is a humanized IgG4 monoclonal antibody that blocks the entry of HIV-1 through binding to CD4.

- The indication, along with specific criteria on defining treatment resistance and failure, reflects the patient population that was included in the clinical trial that lead to its approval. Therefore, use outside of this specific patient population is not recommended as the safety and efficacy has not been established.

- The evidence of efficacy for Trogarzo is based on one small, open-label, phase 3 trial in 40 patients. The primary outcome evaluated was the proportion of patients obtaining at least a 0.5 log10 reduction in HIV-1 RNA viral load compared to baseline. There was a statistically significant greater proportion of patients achieving at least a 0.5 log10 viral load reduction after seven days of treatment than at baseline (83% vs. 3%, respectively). A decrease of at least 0.5 log10 HIV-1 RNA viral load is considered clinically significant in MDR HIV-1 as this delays clinical progression.

- More than 25 approved antiretroviral drugs in multiple classes are available to design combination antiretroviral treatment (ART) regimens. Treatment always consist of drugs from multiple categories. Viral failure can occur for many reasons including development of drug resistance, suboptimal adherence, and drug intolerance/toxicity prompting a new antiretroviral regimen to be designed.

- Guidelines from the U.S. Department of Health and Human Services (2024) and International Antiviral Society–USA Panel (2024) state:

    - Virologic failure is a viral load that is persistently greater than or equal to 200 copies/mL because this level of viremia often leads to drug resistance

    - In patients with virologic failure, it is crucial to provide continuous adherence support before and after ART regimen changes.

    - Designing a new regimen for patients who are experiencing treatment failure should always be guided by ART history and results from current and past resistance testing.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Patients with MDR HIV-1 who have few treatment options their new regimen should include at least two, and preferably three, fully active agents, including those with novel mechanisms of action (ex: ibalizumab, fosternsavir, lenacapavir). If less than 3 fully active drugs, include as many fully active drugs as possible, along with potentially partially active drugs.

References:

1. Emu B, Fessel J, Schrader S, et al. Phase 3 Study of Ibalizumab for Multidrug-Resistant HIV-1. N Engl J Med. 2018;379(7):645-654.
2. Trogarzo [package insert]. Forest City, CA. Gilead Sciences Inc.; December 2023.
3. Gandhi RT, Landovitz RJ, Sax PE, et al. Antiretroviral Drugs for Treatment and Prevention of HIV in Adults: 2024 Recommendations of the International Antiviral Society–USA Panel. JAMA. 2025;333(7):609–628. doi:10.1001/jama.2024.24543
4. Panel on Antiretroviral Guidelines for Adults and Adolescents. Guidelines for the Use of Antiretroviral Agents in Adults and Adolescents with HIV. Department of Health and Human Services. Available at: https://clinicalinfo.hiv.gov/sites/default/files/guidelines/documents/adult-adolescent-arv/guidelines-adult-adolescentarv.pdfAccessed. August 8, 2025.

Policy History		
#	Date	Change Description
1.9	Effective Date: 10/09/2025	Annual Review Added updated IAS-USA guidelines (2024) and DDHS Panel guidelines (2024). Updated pricing table and pipeline information.
1.8	Effective Date: 10/03/2024	Annual review – no changes to the criteria
1.7	Effective Date: 10/12/2023	Annual review – no changes to the criteria
1.6	Effective Date: 10/06/2022	Updated to remove specific prescriber requirement per NCQA recommendations and loosen requirement to allow for documented resistance of at least one antiretroviral medication from three different classes without specifying which classes must be trialed
1.5	Effective Date: 10/07/2021	Annual review – no changes to the criteria
1.4	Effective Date: 08/13/2020	Annual review of criteria was performed, updated criteria to include trial or preferred statement

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 02/01/2019</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 10/01/2018</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 08/09/2018</td><td>Full Drug Review</td></tr>
<tr><td>1.0</td><td>Effective Date: 05/03/2018</td><td>Preliminary Drug Review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Tzield™ (teplizumab-mzwv)
HCPCS: J9381

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Type 1 diabetes (T1D) is an autoimmune disorder in which the pancreas is unable to produce enough insulin due to autoimmune destruction of pancreatic beta cells. The CDC estimates that about 5-10% of the diabetic population has T1D which typically develops in children, teenagers, and young adults; however, T1D can happen at any age. Markers of immune destruction of the beta cell include islet cell autoantibodies, autoantibodies to insulin, autoantibodies to GAD65, and autoantibodies to tyrosine phosphatases I-2 and IA-2B. At least one, and usually more, of these autoantibodies are present in 85-90% of individuals when fasting hyperglycemia is first detected.

- In T1D the rate of beta cell destruction is variable, and the patient may go through distinct stages before progressing to symptomatic disease requiring insulin. According to the American Diabetes Association's (ADA) Standards of Medical Care in Diabetes (2026), there are three distinct stages of T1D:

    - Stage 1 is characterized by autoimmunity, normoglycemia, and is pre-symptomatic. Multiple (at least two) islet autoantibodies are typically present and the patient exhibits no evidence of impaired glucose tolerance (IGT) or impaired fasting glucose (IFG). 5-year risk of developing symptomatic T1D is about 44% overall but varies depending on a number of factors.

    - Stage 2 exhibits autoimmunity, dysglycemia (i.e., abnormal glucose tolerance), and is also pre-symptomatic. In this stage, islet autoantibodies are present (usually multiple) and dysglycemia is demonstrated by IFG (i.e., fasting plasma glucose of 100-125 mg/dL) and/or IGT (i.e., 2-hour plasma glucose of 140-199 mg/dL on OGTT). A hemoglobin A1c of 5.7-6.4% or $\geq$ 10% increase in A1c may also be diagnostic of this stage. At stage 2, there is an approximately 60% risk of developing a clinical diagnosis of T1D by 2 years and approximately 75% risk within 5 years.

    - Stage 3 is also characterized by autoimmunity, but at this point the patient has progressed to overt hyperglycemia and is symptomatic. Autoantibodies may become absent at this stage and the patient can be diagnosed with T1D by standard criteria outlined in the ADA's Standards of Medical Care. Diagnosis is based on A1c $\geq$6.5% or plasma glucose criteria (i.e., FPG $\geq$126 mg/dL, or 2-hour plasma glucose $\geq$200 mg/DL during a 75-g OGTT, or random plasma glucose $\geq$ 200 mg/dL accompanied by classic symptoms of hyperglycemia [e.g., polyuria, polydipsia, unexplained weight loss] or hyperglycemic crisis). Unless unequivocal hyperglycemia is present, diagnosis requires confirmation by repeat testing (e.g., two abnormal results from different tests, which may be obtained at the same time, or the same test at two different time points).

- The presence of IFG as defined in Stage 2 and/or IGT as defined in Stage 2 and/or an A1c of 5.7-6.4% define prediabetes, a term for those whose glucose levels do not meet criteria for diabetes yet demonstrate abnormal carbohydrate metabolism. Patients with prediabetes are at relatively high risk for future development of diabetes. The 2026 ADA Standards of Medical Care recommend fasting plasma glucose, 2-hour plasma glucose during a 75-gram OGTT, and A1c as equally appropriate for screening for prediabetes; compared with fasting plasma glucose and A1c cut points, the 2-hour plasma glucose value diagnoses more people with prediabetes as well as diabetes.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

When using OGTT as a screening tool, adequate carbohydrate intake of at least 150 grams per day should be assured prior to testing; fasting and carbohydrate restriction can falsely elevate glucose level with an oral glucose challenge.

- The 2026 ADA Standards of Medical Care recommend screening for pre-symptomatic T1D using tests to detect autoantibodies to insulin, GAD, islet antigen 2, or ZnT8 as an option for those with a family history of T1D or otherwise known elevated genetic risk. The development and persistence of one or more islet autoantibodies should be evaluated for Stage 3 (overt) T1D as these patients have a high risk of progression to Stage 3.

- Delay of development of overt diabetes in patients with Stage 2 T1D has been a promising avenue of research. The FDA approved Tzield (teplizumab), an anti-CD3 antibody, to delay the onset of Stage 3 T1D in adults and pediatric patients 1 year of age and older with Stage 2 T1D. Tzield is the first and only FDA-approved pharmacologic therapy for delaying the onset of clinical diabetes and continues to be investigated for the treatment of newly diagnosed type 1 diabetics. The 2026 ADA Standards of Medical Care recommends that Tzield, to delay the onset of symptomatic T1D (stage 3), should be discussed in selected individuals 8 years of age and older with Stage 2 T1D, and treatment should be in a specialized setting with appropriately trained personnel. Of note, these recommendations do not refer to children under 8 years of age because they were published prior to the FDA expanding Tzield's approved population from 8 years of age and older to now 1 year of age and older.

- According to the prescribing information, eligibility for treatment requires that the patient's clinical history does not suggest type 2 diabetes (T2D) and that Stage 2 T1D be confirmed by documentation of the following:

    - At least 2 positive pancreatic islet cell autoantibodies.

    - Dysglycemia without overt hyperglycemia using an OGTT. If an OGTT is not available, an alternative method for diagnosing dysglycemia without overt hyperglycemia may be appropriate.

- Alternative methods for diagnosing dysglycemia does not suggest a specific or defined test, but rather alternative means of establishing the blood glucose levels indicative of dysglycemia. This could be accomplished with a fasting blood glucose draw, any blood draw measuring glucose with levels over 200 mg/dL, or blood sugar levels in response to a mixed meal prep or an alternative to the Glucola used in the OGTT at 2 hours.

- For Stage 2 T1D, Tzield was evaluated in the pivotal Phase II, randomized, double-blind, placebo-controlled "At-Risk" TN-10 trial in patients 8 to 49 years of age who had a direct relative with T1D and were considered high risk for development of clinical diabetes (n=76).

    - All patients were classified as having Stage 2 T1D defined by both of the following:

        - The presence of two or more diabetes-related pancreatic islet autoantibodies (GAD65, IAA, IA-2A, ZnT8A, or ICA)

        - Evidence of dysglycemia on OGTT, defined as any of the following occurring at least once (patients < 18 years) or on two occasions (patients > 18 years):

            - Fasting blood glucose level of 110mg/dL to < 126 mg/dL, OR

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - 2-hour postprandial glucose > 140 mg/dL and < 200 mg/dL, OR
  - Postprandial glucose level at 30, 60, or 90 minutes ≥ 200 mg/dL
- Eligible patients with a first-degree relative (parent, sibling, offspring) were required to be between 8 and 45 years old, while those with a second- or third-degree relative (niece, nephew, aunt, uncle, cousin, grandchild) were between 8 and 20 years old.
- The primary endpoint of Study TN-10 was the elapsed time from randomization to development of Stage 3 T1D diagnosis.
- Stage 3 T1D was diagnosed in 20 (45%) of the Tzield-treated patients and in 23 (72%) of the placebo-treated patients. The median time from randomization to Stage 3 T1D diagnosis was 50 months for the Tzield arm and 25 months for the placebo arm. This represents a statistically significant delay in the development of Stage 3 T1D by about 2 years (p=0.0066).
- A published follow-up of the TN-10 trial reported that those in the Tzield arm had a median time to diagnosis of 59.6 months compared to 27.1 months for those in the placebo arm (p=0.01), extending the median delay in diagnosis of Stage 3 T1D with Tzield to 2.7 years. Note that this data was not reviewed by the FDA in the approval of Tzield.

- The expanded indication for pediatrics as young as 1 year of age was supported by one-year data from the Phase IV PETITE-T1D study that evaluated safety and pharmacokinetics of Tzield in 23 children under 8 years old with Stage 2 T1D. According to the study, participants had an 89.6% probability of not progressing to Stage 3 T1D during the analysis period. Of the study group 2 participants developed Stage 3 T1D during median follow-up of 51.9 weeks. The trial is still ongoing and is expected to be completed in late August 2026.
- For Stage 2 T1D, Tzield is administered intravenously once daily for 14 consecutive days. Based on the available literature, additional Tzield treatments are not recommended to delay the onset of clinical T1D in at-risk individuals. Additionally, there is limited evidence of safety and effectiveness of Tzield in patients aged 45 years and older with Stage 2 T1D.
- In June 2026, the FDA expanded Tzield's approval to include a new indication to delay the decline in endogenous insulin production in pediatrics aged 8 to 17 years recently diagnosed with Stage 3 T1D. This indication was approved under accelerated approval based on evidence of reduced C-peptide decline. C-peptide is a short chain of amino acids that is secreted from pancreatic beta cells in equal amounts to endogenous insulin. It degrades slower than insulin, has negligible hepatic clearance, is cleared at a constant rate in the peripheral circulation, and is not a product of therapeutically administered exogenous insulin; therefore, C-peptide testing serves as a preferable and widely used measure of insulin secretion and beta cell function. A C-peptide level >0.2 pmol/mL has been correlated with clinically significant residual beta cell function, and research has established that maintaining this level confers protective benefits against complications like severe hypoglycemia, retinopathy, and nephropathy. C-peptide testing is not presently routine upon T1D diagnosis. The 2026 ADA Standards of Care reserve testing recommendations for suspected T1D in newly diagnosed adults who are islet autoantibody negative.
- According to the Tzield prescribing information, pediatric patients may be selected for Tzield treatment to delay the decline in endogenous insulin production in Stage 3 T1D if they are 8 to 17 years of age and recently diagnosed (within the last 8 weeks) with Stage 3 T1D based on confirmation of both of the following:

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - At least one positive pancreatic islet cell autoantibody.

  - Peak C-peptide > 0.2 pmol/mL on a mixed-meal tolerance test (MMTT). If a MMTT is not available, an alternative method for measuring peak C-peptide ≥0.2 pmol/mL may be appropriate. The MMTT utilizes a weight-based liquid meal (e.g., Sustacal, Boost) with timed samples for C-peptide measurement taken from prior to ingestion through 120 minutes post-ingestion, and it is considered a "gold standard" due to its excellent sensitivity in detecting residual insulin secretion. Glucagon stimulation C-peptide testing is a widely used, highly recommended alternative as it balances sensitivity and practicality. Other less common alternative methods include OGTT, venous fasting or random non-fasting C-peptide, urinary C-peptide creatinine ratio (UCPCR), urinary C-peptide, and 24-hour urinary collection.

- The accelerated approval for Stage 3 T1D was based on the randomized, double-blind, placebo-controlled Phase III PROTECT study that evaluated patients aged 8 to 17 years who were recently diagnosed with Stage 3 T1D in the previous 6 weeks according to diagnostic criteria from the American Diabetes Association (n=328). The purpose of the study was to determine whether Tzield would slow the loss of beta cells and preserve their function in newly diagnosed children and adolescents as this population has a significantly more rapid rate of decline compared to younger and older adults with new-onset disease.

  - Participants were required to have at least one T1D-related autoantibody (e.g., anti-GAD65, anti-IA-2, anti-ZnT8, anti-insulin, anti-ICA) and a peak stimulated C-peptide level >0.2 pmol/mL on a 2-hour MMTT.

  - Patients were randomized to receive Tzield (n=217) or placebo (n=111) once daily via IV infusion for 12 consecutive days, followed by another 12-day course 6 months later. One subset of 28 patients received their second course at approximately 12 months.

  - The primary efficacy endpoint was the change from baseline in stimulated C-peptide at week 78, serving as a surrogate endpoint and marker of pancreatic beta cell function and the pancreas' capacity to secrete insulin.

  - Secondary endpoints included the mean daily insulin dose, mean daily percentage of time in the target glucose range, change from baseline in mean A1c, and clinically important hypoglycemic events (i.e., blood glucose <54 mg/dL, severe cognitive impairment requiring assistance for recovery, or both) at week 78.

  - Tzield significantly slowed the decrease in mean C-peptide concentrations compared to placebo, with a change from baseline of −0.09 pmol/mL versus −0.22 pmol/mL for placebo at 78 weeks (least-squares mean difference of 0.13 pmol/mL [95% CI, 0.09 to 0.17; p<0.001]), representing a 59.3% difference between groups, favoring Tzield.

  - Though treatment with Tzield demonstrated benefits with respect to maintenance of beta cell function, significant differences were not shown with respect to the key secondary clinical endpoints of insulin dose, change in A1c, percentage of time in range, and clinically important hypoglycemic events.

- Continued FDA approval of Tzield for Stage 3 T1D may be contingent upon verification and description of clinical benefit in confirmatory trials. The confirmatory Phase III BETA-PRESERVE trial is underway with an expected results readout in 2028.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. American Diabetes Association Professional Practice Committee; 2. Diagnosis and Classification of Diabetes: Standards of Care in Diabetes—2026. Diabetes Care 1 January 2025; 49 (Supplement_1): S27–S49. https://doi.org/10.2337/dc26-S002
2. American Diabetes Association Professional Practice Committee; 3. Prevention or Delay of Diabetes and Associated Comorbidities: Standards of Care in Diabetes—2026. Diabetes Care 1 January 2026; 49 (Supplement_1): S50–S60. https://doi.org/10.2337/dc26-S003
3. American Diabetes Association. Diagnosis and classification of diabetes mellitus. Diabetes Care 2014;37(Suppl. 1):S81–S90
4. Herold KC, et al. An anti-CD3 antibody, teplizumab, in relatives at risk for type 1 diabetes [published correction appears in N Engl J Med. 2020 Feb 6;382(6):586]. N Engl J Med. 2019;381(7):603-613. doi:10.1056/NEJMoa1902226
5. IPD Analytics. Teplizumab New Drug Preview. August 5, 2022. Accessed August 31, 2022. https://www.ipdanalytics.com
6. Lachin JM, et al. DCCT/EDIC Research Group. Impact of C-peptide preservation on metabolic and clinical outcomes in the Diabetes Control and Complications Trial. Diabetes. 2014 Feb;63(2):739-48. doi: 10.2337/db13-0881. Epub 2013 Oct 2.
7. Leighton E, Sainsbury CA, Jones GC. A Practical Review of C-Peptide Testing in Diabetes. Diabetes Ther. 2017 Jun;8(3):475-487. doi: 10.1007/s13300-017-0265-4. Epub 2017 May 8.
8. Manufacturer Press Release. Provention Bio's Teplizumab Continued to Significantly Delay the Onset of Insulin-Dependent Type 1 Diabetes (T1D) in Presymptomatic Patients. June 15, 2020. Accessed on June 27, 2022. Available at: https://investors.proventionbio.com/2020-06-15-Provention-Bios-Teplizumab-Continued-to-Significantly-Delay-the-Onset-of-Insulin-Dependent-Type-1-Diabetes-T1D-in-Presymptomatic-Patients
9. Manufacturer press release. Sanofi's Tzield approved in the US to delay the onset of stage 3 type 1 diabetes in young children. April 22, 2026. Accessed on April 24, 2026. Available at: https://www.sanofi.com/en/media-room/press-releases/2026/2026-04-22-05-05-00-3278650
10. Manufacturer press release. TZIELD™ (teplizumab-mzwv) approved by FDA as the first and only treatment indicated to delay the onset of Stage 3 type 1 diabetes (T1D) in adult and pediatric patients aged 8 years and older with Stage 2 T1D. November 17, 2022. Accessed on November 18, 2022. Available at: https://investors.proventionbio.com/2022-11-17-TZIELD-TM-teplizumab-mzwv-approved-by-FDA-as-the-first-and-only-treatment-indicated-to-delay-the-onset-of-Stage-3-type-1-diabetes-T1D-in-adult-and-pediatric-patients-aged-8-years-and-older-with-Stage-2-T1D.
11. Protocol for: Ramos EL, Dayan CM, Chatenoud L, et al. Teplizumab and β-cell function in newly diagnosed type 1 diabetes. N Engl J Med 2023;389:2151-61. DOI: 10.1056/NEJMoa2308743
12. Ramos, EL, et al. Teplizumab and Beta-Cell Function in Newly Diagnosed Type 1 Diabetes. N Engl J Med 2023;389:2151-61. DOI: 10.1056/NEJMoa2308743
13. Sims EK, Bundy BN, et al. Teplizumab improves and stabilizes beta cell function in antibody-positive high-risk individuals. Science Translational Medicine. 3 Mar 2021. 13:583. Available at: https://doi.org/10.1126/scitranslmed.abc8980
14. Tzield (teplizumab-mzwv) [prescribing information]. Provention Bio, Inc. Red Bank, NJ; June 2026.

Policy History		
#	Date	Change Description
1.8	Effective Date: 08/13/2026	Added criteria for Stage 3 type 1 diabetes indication Added FDA approved indications bullet
1.7	Effective Date: 06/11/2026	Updated supporting information to reflect expanded approval for children 1 year of age and older
1.6	Effective Date: 02/12/2026	Annual review of criteria performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 02/13/2025</td><td>Changed the fasting plasma glucose criteria requirement from 110 mg/dL to 100 mg/dL and postprandial glucose from > 200 mg/dL to > 200 mg/dL to align with ADA Standards of Care (2025)</td></tr>
<tr><td>1.4</td><td>Effective Date: 02/08/2024</td><td>Annual review of criteria performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/02/2023</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.2</td><td>Effective Date: 12/22/2022</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 12/02/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 10/06/2022</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ultomiris® (ravulizumab)
HCPCS: J1303

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ultomiris is a complement inhibitor indicated for the treatment of adult and pediatric pateints one month and olther with paroxysmal nocturnal hemoglobinuria, adult and pediatric patients one month and older with atypical hemolytic uremic syndrome (aHUS) to inhibit complement-mediated thrombotic microangiopathy, generalized myasthenia gravis in adult patients who are anti-AChR antibody-positive, and neuromyelitis optica spectrum disorder (NMOSD) in adults who are anti-aquaporin-4 (AQP4) antibody positive. Ultomiris is not indicated for the treatment of patients with Shiga toxin E. coli related hemolytic uremic syndrome (STEC-HUS). The subcutaneous formulation is not indicated for use in MG.

- Paroxysmal nocturnal hemoglobinuria

    - Paroxysmal nocturnal hemoglobinuria is a rare acquired hematopoietic stem cell disorder in which red blood cells undergo cell lysis prematurely mediated by the alternative pathway of complement (APC). PNH arises due to a somatic mutation of a the PIGA gene whose protein product is a glycosyl transferase. Glycosyl transferase is part of the biosynthetic pathway that generates glycosyl phosphastidylinositol (GPI) that serves as an anchor for membrane bound proteins on hematopoietic lineage cells. The mutation in PIGA results in a lack of glycosyl transferase activity and near-complete or complete absence of expression of all proteins that are GPI-anchored including the complement inhibitory proteins CD55 and CD59. The deficiency of CD55 and CD59 cause the complement-mediated intravascular hemolysis characteristic of PNH.

    - Phenotypic mosaicism of the peripheral blood is a characteristic feature of PNH and is based on quantitative differences in complement sensitivity. Cell complement sensitivity is divided into 3 types. PNH type I cells are defined by having normal sensitivity to complement-mediated lysis. PNH type II cells are moderately complement sensitive or 2 - 4 times more sensitive than normal. Finally, PNH type III cells are markedly complement sensitive or 15 - 25 times more sensitive than normal. Complement sensitivity varies greatly from patient to patient depending on their unique phenotypic mosaicism. Erythrocyte phenotype is clinically relevant as patients with primarily type II cells have a relatively benign clinical course. In contrast, those who have more type III cells, which are completely deficient in CD55 and CD59, will have a more severe clinical course due to increased complement-mediated hemolysis. As Ultomiris is a complement inhibitor, it was studied only in patients with greater than 5% PNH type III cells on flow cytometry.

    - For patients with high disease activity, PNH complications increase significantly. High disease activity is defined as an elevated LDH greater than or equal to 1.5 times the upper limit of normal with constitutional symptoms of weakness, fatigue, hemoglobinuria, abdominal pain, dyspnea, hemoglobin less than 10 g/dL, dysphagia, and erectile dysfunction. Patients with an elevated LDH and at least one additional symptoms should begin treatment with Ultomiris.

    - Thrombolytic complications are the leading cause of morbidity and mortality in PNH. Acute thrombotic events require anticoagulation with heparin. If there is no contraindication, anticoagulation should continue indefinitely for a patient with PNH who has experienced a thromboembolic complication. For patients being

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

treated with Ultomiris and no history of thromboembolic complications, prophylactic anticoagulation may be unnecessary, although it is recommended that anticoagulation continue for those patients who experienced a thromboembolic event prior to initiating therapy with Ultomiris.

- Ultomiris has been shown to decrease the number of blood transfusions required by patients and stabilize hemoglobin levels and to be non-inferior to Soliris in regards to these endpoints. Soliris has been studied in patients receiving as few on 1 blood transfusion in 24 months while the Ultomiris studies had patients averaging at least 1 blood transfusion within the 12 months prior to the trial.

- Ultomiris has not been studied and there is no data to support use in combination with other medications used to treat PNH, such as, Soliris.

- Atypical hemolytic uremic syndrome

  - Atypical hemolytic uremic syndrome is an extremely rare disease characterized by hemolytic anemia, thrombocytopenia, and acute kidney failure. Acute presentation may also include neurological findings, including seizures, gastrointestinal symptoms, and cardiovascular involvement, including hypertensive emergency and acute coronory events. Chronic kidney disease (CKD) is the most common long-term complication and may result in the need for dialysis. The signs and symptoms of aHUS result from the formation of microthrombi in various small blood vessels of the body. These clots reduce or prevent proper blood flow to various organs especially the kidneys. Multiple factors, including certain genetic, environmental, and immunologic factors, all play a role in its development.

  - The nomenclature and terminology surrounding aHUS can be confusing. Atypical hemolytic uremic syndrome is considered a form of thrombotic microangiopathy (TMA). TMA is broken down into two main forms, thrombotic thrombocytopenia purpura (TTP) and hemolytic uremic syndrome (HUS).

    - TTP is group of syndromes in which patients usually present with thrombocytopenia and microangiopathic hemolytic anemia. Despite similarities in clinical features, the underlying mechanisms of aHUS and TTP differ, altering the manner in which patients respond to different therapies. TTP results from mutations in the gene encoding a disintegrin and metalloprotease with thrombospondin type 1 motif 13 or ADAMTS13. Patients who are severely ADAMTS13 deficient, defined as ADAMTS13 activity less than 10%, have a confirmed diagnosis of TTP and may not respond to complement-inhibitor therapy. There are no randomized, controlled trials that show complement inhibitors are safe or effective in the treatment of TTP and therefore, Ultomiris should not be prescribed.

    - HUS is also broken down into two main forms, aHUS and secondary HUS. Secondary HUS are caused by Shiga toxin E. coli, S. pneumoniae, malignancy, HIV infection, solid organ transplants, hematopoietic stem cell transplants, autoimmune disorders and the use of certain drugs or medications. HUS caused by infectious bacteria typically presents with diarrhea and responds well to antibiotic therapy. There are no randomized, controlled trials that show complement inhibitors are safe or effective in the treatment of infectious HUS and Ultomiris should not be initiated in these patients. Atypical hemolytic uremic syndrome typically results from complement abnormalities, however, it is a diagnosis of exclusion, meaning the diagnosis is made by excluding other primary thrombotic microangiopathy (TMA) syndromes, such as TTP or infectious HUS.

  - Most patients with aHUS present with the complete triad symptoms: hemoglobin less than 10 g/dL, platelets less than 150,000/mm^3, and renal insufficiency with increased serum creatinine or the need for dialysis. The presence of schizocytes, undetectable haptoglobin, and high LDH levels confirm the microangiopathic intravascular origin of hemolysis. Ultomiris should be initiated in patients with these symptoms and a lack of secondary or infectious causes.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Ultomiris has not been studied and there is no data to support use in combination with other medications used to treat aHUS, such as, Soliris.

- Myasthenia gravis

  - Myasthenia gravis is a rare autoimmune disease resulting from an immunologic attack of AChR, muscle-specific tyrosine kinase (MuSK), and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Approximately 10-15% of MG cases will become refractory resulting in profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Refractory disease is defined by the 2016 international consensus guidance for management of myasthenia gravis as worsening or unchanged disease despite use of corticosteroids and at least two different immunosuppressive therapies used in adequate doses for an adequate duration with persistent symptoms and/or side-effects that limit function.

  - Ultomiris has only been studied and shown to be safe or effective in patients with anti-AChR antibodies. An immunologic assay to detect for the presence of anti-AChR antibodies is the first step towards a diagnosis of MG. Once it is determined a patient has anti-AChR antibodies, at least one other confirmatory test including a positive edrophonium test, history of response to oral cholinesterase inhibitors, repetitive nerve stimulation (RNS), or single-fiber electromyography (SFEMG) should be conducted.

  - The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. The 2020 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on Class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Ultomiris has not been studied in patients who have undergone thymectomy within 12 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Ultomiris in these patient populations at this time.

  - Standard therapies recommended by the 2020 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, IVIG, and PLEX.

    - Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

    - Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

    - Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

more frequently than every 3 to 6 months. Once the patient experiences treatment effect and doses should be maintained for six months to two years of therapy and then tapered to the lowest effect dose.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. A number of case reports and case series support the efficacy of rituximab in patients with refractory MG. In a prospective study of 22 patients with refractory MG treated with rituximab, the mean time to relapse was 17 months. Among 14 patients taking prednisone, the mean daily dose decreased from 25 mg at baseline to 7 mg after treatment with a mean follow-up of 29 months. In an observational study of 72 patients with new-onset or refractory generalized MG, those treated with low-dose rituximab had shorter time to remission, lower use of adjunctive treatments, and fewer adverse events than patients treated with conventional immunosuppressive therapy.

- Ultomiris has not been studied and there is no data to support use in combination with other medications used to treat MG, such as, Soliris, or one medication is superior to the other.

- Neuromyelitis optica spectrum disorder

  - Neuromyelitis optica spectrum disorders (NMOSD) are inflammatory disorders of the central nervous system characterized by severe, immune-mediated demyelination and axonal damage mainly of the optic nerves and spinal cord. NMOSD is thought to be primarily mediated by the humoral immune system and the autoantibody aquaporin-4 (AQP4) which is released by B-cells and plasma blasts. Serum anti-AQP4 levels have been shown to correlate with disease activity, decrease after immunosuppressive therapy, and remain low during remissions.

  - Ultomiris is indicated for the treatment of neuromyelitis optica spectrum disorder in adult patients who are anti-AQP4 antibody positive.

  - Safety and efficacy were established in CHAMPION-NMOSD trial, an open-label phase III study of 58 patients with NMOSD who were anti-AQP4 antibody positive, had at least 1 relapse in the last 12 months prior to study screening, and an Expanded Disability Status Scale (EDSS) score less than or equal to 7. The primary endpoint was the time to the first adjudicated on-trial relapse. No on-trial relapses were observed in Ultomiris-treated patients during the primary treatment period, representing a statistically significant difference between the Ultomiris and placebo treatment arms in time to first on-trial relapse (p-value < 0.0001). The hazard ratio (95% confidence interval [CI]) for Ultomiris compared with placebo was 0.014 (0.000, 0.103), representing a 98.6% reduction in the risk of relapse. Ultomiris-treated patients experienced similar improvement in time to first on-trial relapse with or without concomitant treatment.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Ultomiris has not been studied and there is no data to support use in combination with other medications used to treat NMOSD, such as Rituxan®, Enspryng, or Uplizna.

- No American treatment guidelines are available for neuromyelitis optica spectrum disorders. The European Federation of Neurological Societies published guidelines for the diagnosis and management of neuromyelitis optica in 2010. Long-term treatment options should be initiated as soon as the diagnosis is made to prevent attacks and reduce the risk of permanent disability, but evidence from randomized-controlled trials for any particular medication is lacking. The guidelines recommend azathioprine plus prednisone or rituximab as first-line therapy to prevent attacks. If first-line treatment is ineffective or the patient develops steroid-dependence for clinical remission, alternative immunosuppressive therapies need to be considered. Second-line therapy includes cyclophosphamide, mitoxantrone, methotrexate, IVIG, mycophenolate mofetil, and intermittent plasma exchange. The guidelines have not been updated to include Uplizna, Soliris, Ultomiris, or Enspryng.

- While a variety of immunosuppressive therapy are regarded as first-line therapy based on primarily observational or single-arm data, use has fallen out of favor due to lack of efficacy. The most widely prescribed treatments include azathioprine and mycophenolate mofetil. However, if given, they are often prescribed with low doses of corticosteroids to treat the relapse and the steroids are weaned slowly.

- Rituximab targets the CD20 antigen on B-cells and leads to profound B-cell depletion, principally over an antibody-dependent cell cytotoxicity mechanism and decreases attack frequency and severity in patients with NMOSD. Most of the investigations revealed that Expanded Disability Status Score (EDSS) improved significantly in all patients with rituximab treatment after treatment with rituximab and relapse rates decreased by up to 88%. No new or enlarged lesions or pathological gadolinium enhancement was observed in serial brain and spinal cord MRIs, except for those observed concomitantly with clinical relapses and the median length of spinal cord lesions was significantly reduced after therapy. Paradoxical relapses may occur shortly after initiation of rituximab therapy so it is important to allow enough time for the rituximab to become effective. Complete suppression of CD19-positive B-lymphocytes takes one month.

- There are multiple options for the long-term treatment of NMOSD. There an no clinical trials comparing the efficacy of one therapy to another. Choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability.

References:

1. Ultomiris [prescribing information]. Boston, MA: Alexion Pharmaceuticals, Inc.; September 2025.
2. National Organization for Rare Disorders. Paroxysmal nocturnal hemoglobinuria. 2019. Available at: https://rarediseases.org/rare-diseases/paroxysmal-nocturnal-hemoglobinuria/. Accessed on: September 23, 2020.
3. Parker CJ. Update on the diagnosis and management of paroxysmal nocturnal hemoglobinuria. Hematology Am Soc Hematol Educ Program. 2016 Dec 2; 2016 (1): 208 - 16.
4. Hillmen P, Young NS, Schubert J, et al. The complement inhibitor eculizumab in paroxysmal nocturnal hemoglobinuria. NEJM. 2006 Sep 21; 355 (12): 1233 - 43.
5. Schubert J, Hillmen P, Roth A, et al. Eculizumab, a terminal complement inhibitor, improves anemia in patients with paroxysmal nocturnal haemoglobinuria. British J Hematology. 2008 Jun; 142 (2): 263 - 72.
6. Brodsky, RA. Paroxysmal nocturnal hemoglobinuria. Blood. 2014 Oct 30; 124 (18): 2804 - 11.
7. Lee JW, Sicre de Fontbrune F, Wong Lee Lee L, et al. Ravulizumab (ALXN1210) vs eculizumab in adult patients with PNH naive to complement inhibitors: the 301 study. Blood. 2019 Feb 7; 133 (6): 530 - 9.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Sahin F, Akay OM, Ayer M, et al. Pesg PNH diagnosis, follow-up and treatment guidelines. Am J Blood Res. 2016; 6 (2): 19 – 27.
9. Borowitz MJ, Craig FE, DiGiuseppe JA, et al. Guidelines for the diagnosis and monitoring of paroxysmal nocturnal hemoglobinuria and related disorders by flow cytometry. Cytometry Part B (Clinical Cytometry). 2010; 78B: 211 – 30.
10. Kulasekararaj AG, Hill A, Rottinghaus ST, et al. Ravulizumab (ALXN1210) vs eculizumab in C5-inhibitor-experienced adult patients with PNH: the 302 study. Blood. 2019 Feb 7; 133 (6): 540 - 9.
11. Hill A, Richards SJ, Rother RP, et al. Erythopoietin treatment during complement inhibition with eculizumab in a patient with paroxysmal nocturnal hemoglobinuria. Haematologica. 2007 March; 92 (3 Suppl): ECR14.
12. Hill A, Rother RP, Hillmen P. Improvement in the symptoms of smooth muscle dystonia during eculizumab therapy in paroxysmal nocturnal hemoglobinuria. Haematologica. 2005 Dec; 90 (12 Suppl): ECR40.
13. Hillmen P, Hall C, Marsh JC, et al. Effect of eculizumab on hemolysis and transfusion requirements in patients with paroxysmal nocturnal hemoglobinuria. NEJM. 2004 Feb 5; 350 (6): 552 - 9.
14. Luzzatto L & Gianfaldoni G. Recent advances in biological and clinical aspects of paroxysmal nocturnal hemoglobinuria. International J Hematology. 2006; 84: 104 - 12.
15. Hill A, Kelly RJ, & Hillmen P. Thrombosis in paroxysmal nocturnal hemoglobinuria. Blood. 2013; 121 (25): 4985 - 96.
16. Hillmen P, Muus P, Duhrsen U, et al. Effect of the complement inhibitor eculizumab on thromboembolism in patients with paroxysmal nocturnal hemoglobinuria. Blood. 2007; 110 (12): 4123 - 28.
17. Kelly RJ, Hill A, Arnold LM, et al. Long-term treatment with eculizumab in paroxysmal nocturnal hemoglobinuria: sustained efficacy and improved survival. Blood. 2011; 117 (25): 6786 - 92.
18. National Organization for Rare Disorders. Atypical hemolytic uremic syndrome. 2016. Available at: https://rarediseases.org/rare-diseases/atypical-hemolytic-uremic-syndrome/. Accessed on September 24, 2020.
19. Kavanagh D & Goodship THJ. Atypical hemolytic uremic syndrome, genetic basis, and clinical manifestations. Hematology Am Soc Hematol Educ Program. 2011 Dec 10; 2011 (1): 15 – 20.
20. Loirat C & Frémeaux-Bacchi V. Atypical hemolytic uremic syndrome. Orphanet Journal Rare Diseases. 200; 6: 60 – 90.
21. Kaplan BS, Ruebner RL, Spinale JM, et al. Current treatment of atypical hemolytic uremic syndrome. Intractable Rare Dis Res. 2014 May; 3 (2): 34 – 45.
22. Ariceta G, Besbas N, Johnson S, et al. Guideline for the investigation and initial therapy of diarrhea-negative hemolytic uremic syndrome. Pediatr Nephrol. 2009; 24: 687 – 96.
23. Cofiell R, Kukreja A, Bedard K, et al. Eculizumab reduces complement activation, inflammation, endothelial damage, thrombosis, and renal injury markers in aHUS. Blood. 2015 May 21; 125 (21): 3253 - 62.
24. Tschumi S, Gugger M, Bucher BS, et al. Eculizumab in atypical hemolytic uremic syndrome: long-term clinical course and histological findings. Pediatr Nephrol. 2011 Nov; 26 (11): 2085 - 8.
25. Legendre CM, Licht C, Muus P, et al. Terminal complement inhibitor eculizumab in atypical hemolytic-uremic syndrome. NEJM. 2013 Jun 6; 368 (23): 2169 - 81.
26. Taylor MC, Machin S, Wigmore SJ, et al. Clinical practice guidelines for the management of atypical hemolytic uremic syndrome in the united kingdom. British J of Haematology. 2009 Oct 11; 148: 37 – 47.
27. Rondeau E, Scully M, Ariceta G et al. The long-acting C5 inhibitor, ravulizumab, is effective and safe in adult patients with atypical hemolytic uremic syndrome niave to complement inhibitor treatment. Kidney International. 2020; 97: 1287 – 96.
28. Howard JF, Utsugisawa K, Benatar M, et al. Safety and efficacy of eculizumab in antiacetylcholine receptor antibody-positive refractory generalised myasthenia gravis (REGAIN): a phase 3, randomised, double-blind, placebo-controlled, multicenter study. The Lancet Neurology. 2017 Dec; 16 (12): 976 - 86.
29. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2016 Jul 26; 87 (4): 419 - 25.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

30. Narayanaswami P, Sanders DB, Wolfe G, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2021 Jan 19; 96 (3): 114 – 22.
31. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
32. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
33. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 - 84.
34. Tandan R, Hehir MK, Waheed W, et al. Rituximab treatment of myasthenia gravis: a systematic review. Muscle Nerve. 2017; 56: 185 - 96.
35. Iorio R, Damato V, Alboini PE, et al. Efficacy and safety of rituximab for myasthenia gravis: a systematic review and meta-analysis. J Neurol. 2015; 262: 1115 - 9.
36. Lu J, Zhong H, Jing S, et al. Low-dose rituximab every 6 months for the treatment of acetylcholine receptor-positive refractory generalized myasthenia gravis. Muscle Nerve. 2020; 61: 311 - 15.
37. Di Stefano V, Lupica A, Rispoli MG, et al. Rituximab in AChR subtype of myasthenia gravis: systematic review. J Neurol Neurosurg Psychiatry. 2020; 91: 392 - 5.
38. Beecher G, Anderson D, Siddiqi ZA. Rituximab in refractory myasthenia gravis: extended prospective study results. Muscle Nerve. 2018; 58: 452 - 5.
39. Brauner S, Eriksson-Dufva A, Hietala MA, et al. Comparison between rituximab treatment for new-onset generalized myasthenia gravis and refractory generalized myasthenia gravis. JAMA Neurol. 2020; 77: 974 - 81.
40. Wilson R, Makuch M, Kienzler AK, et al. Condition-dependent generation of aquaporin-4 antibodies from circulating B cells in neuromyelitis optica. *Brain*. April 2018; 141(4): 1063–74.
41. Sellner J, Boggild M, Clanet M, et al. EFNS guidelines on diagnosis and management of neuromyelitis optica. *EJN*. 2010; 17: 1019 – 32.
42. Sherman E and Han MH. Acute and chronic management of neuromyelitis optica spectrum disorder. *Curr Treat Options Neurol.* 2015; 17(11): 48 – 62.
43. Nikoo Z, Badihian S, Shaygannejad V, et al. Comparison of the efficacy of azathioprine and rituximab in neuromyelitis optica spectrum disorder: a randomized clinical trial. J Neuro. 2017; 264: 2003 - 9.
44. Damato V, Evoli A, & Iorio R. Efficacy and safety of rituximab therapy in neuromyelitis optica spectrum disorders: a systematic review and meta-analysis. JAMA Neurol. 2016; 73: 1342 - 8.
45. Etemadifar M, Salari M, Mirmosayyeb O, et al. Efficacy and safety of rituximab in neuromyelitis optica: review of evidence. J Res Med Sci. 2017; 22: 18.

Policy History		
#	Date	Change Description
2.3	Effective Date: 06/11/2026	Annual review – no changes to criteria at this time
2.2	Effective Date: 06/05/2025	Annual review – no changes to criteria at this time
2.1	Effective Date: 06/06/2024	Updated to include new indication of neuromyelitis optica spectrum disorder and add a step through Empaveli for the PNH indication
2.0	Effective Date: 10/12/2023	Annual review – no changes to criteria at this time
1.9	Effective Date: 10/06/2022	Updated to include the new subcutaneous formulation
1.8	Effective Date: 06/09/2022	Updated to include new indication of myasthenia gravis and remove prescriber requirements

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.7</td><td>Effective Date: 06/10/2021</td><td>Update to remove platelet requirement for PNH and the percentage of PNH type III cells required</td></tr>
<tr><td>1.6</td><td>Effective Date: 12/03/2020</td><td>Updated to remove meningitis vaccine criteria, added prescriber for PNH and aHUS diagnoses, added requirement to rule out typical hemolytic uremic syndrome, added trial and failure of preferred products statement, and changed renewal criteria to general standard statement.</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/05/2019</td><td>Updated to add new indication of aHUS</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/15/2019</td><td>Updated criteria to exclude combination use with Soliris</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/03/2019</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.2</td><td>Effective Date: 05/01/2019</td><td>UM medical management system update for BCBSM
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>TBD</td></tr>
<tr><td>BCNA</td><td>TBD</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 03/01/2019</td><td>UM medical management system update for BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>TBD</td></tr>
<tr><td>BCNA</td><td>TBD</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 02/14/2019</td>
<td>New Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>TBD</td></tr>
<tr><td>BCNA</td><td>TBD</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website o http://dailymed.nlm.nih.gov/dailymed/index.cfmr*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Unloxcyt™ (cosibelimab-ipdl)
HCPCS: J9275

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Unloxcyt is a programmed death receptor-1 (PD-L1)-blocking antibody indicated for the treatment of adults with metastatic cutaneous squamous cell carcinoma (mCSCC) or locally advanced CSCC (laCSCC) who are not candidates for curative surgery or curative radiation.

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- There are no studies to support use of Unloxcyt following failure. NCCN treatment guidelines also do not recommend use of Unloxcyt or other PD-L1 checkpoint inhibitors following a previous failure.

- Unloxcyt has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Unloxcyt [prescribing information]. Waltham, MA: Checkpoint Therapeutics, Inc.; December 2024.
2. National Comprehensive Cancer Network. Squamous cell skin cancer (Version 1.2024). 2023 Nov 9. Available at: https://www.nccn.org/professionals/physician_gls/pdf/squamous.pdf. Accessed on December 16, 2024.
3. Clingan P, Ladwa R, Brungs D, et al. Efficacy and safety of cosibelimab, an anti-PD-L1 antibody, in metastatic cutaneous squamous cell carcinoma. J Immunother Cancer. 2023 Oct; 11 (10): e007637.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2026</td><td>Annual review – no changes to the policy were made at this time</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/20/2025</td><td>UM medical management system update to BCBS, BCN, BCNA, and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 02/13/2025</td><td>New Policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Uplizna™ (inebilizumab)
HCPCS: J1823

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Neuromyelitis optica spectrum disorders (NMOSD)
  - Neuromyelitis optica spectrum disorders are inflammatory disorders of the central nervous system characterized by severe, immune-mediated demyelination and axonal damage mainly of the optic nerves and spinal cord. NMOSD is thought to be primarily mediated by the humoral immune system and the autoantibody aquaporin-4 (AQP4) which is released by B-cells and plasma blasts. Serum anti-AQP4 levels have been shown to correlate with disease activity, decrease after immunosuppressive therapy, and remain low during remissions.
  - Uplizna is indicated for the treatment of neuromyelitis optica spectrum disorder in adult patients who are anti-AQP4 antibody positive. Uplizna should be started with a loading dose of 300 mg at weeks 0 and 2 followed by 300 mg every 6 months starting from the first infusion thereafter.
  - Safety and efficacy were established in the multicenter, double-blind, randomized placebo-controlled, phase 2/3 N-Momentum study of 230 patients with NMOSD. In the trial, 213 of the 230 patients were anti-AQP4 antibody positive. Patients were included if they had a history of at least one attack requiring rescue therapy in the prior year and had an Expanded Disability Status Scale score of less than or equal to 7.5. Patients were randomized to receive 300 mg of Uplizna on day 1 and 15 followed by every 6 months thereafter or placebo in a 3:1 ratio. The primary endpoint was the time to the onset of the first adjudicated relapse on or before day 197. The risk of an NMOSD relapse in the 161 anti-AQP4 antibody positive patients who were treated with Uplizna was reduced by 77% when compared to the placebo treatment group ($p < 0.0001$). There was no evidence of a benefit in patients who were anti-AQP4 antibody negative.
  - Uplizna has not been studied and there is no data to support use in combination with other medications used to treat NMOSD, such as Rituxan®, Enspryng, or Soliris.
  - No American treatment guidelines are available for neuromyelitis optica spectrum disorders. The European Federation of Neurological Societies published guidelines for the diagnosis and management of neuromyelitis optica in 2010. Long-term treatment options should be initiated as soon as the diagnosis is made to prevent attacks and reduce the risk of permanent disability, but evidence from randomized-controlled trials for any particular medication is lacking. The guidelines recommend azathioprine plus prednisone or rituximab as first-line therapy to prevent attacks. If first-line treatment is ineffective or the patient develops steroid-dependence for clinical remission, alternative immunosuppressive therapies need to be considered. Second-line therapy includes cyclophosphamide, mitoxantrone, methotrexate, IVIG, mycophenolate mofetil, and intermittent plasma exchange. The guidelines have not been updated to include Uplizna, Soliris, or Enspryng.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- While a variety of immunosuppressive therapies are regarded as first-line therapy based on primarily observational or single-arm data, use has fallen out of favor due to lack of efficacy. The most widely prescribed treatments include azathioprine and mycophenolate mofetil. However, if given, they are often prescribed with low doses of corticosteroids to treat the relapse and the steroids are weaned slowly.

- Rituximab targets the CD20 antigen on B-cells and leads to profound B-cell depletion, principally over an antibody-dependent cell cytotoxicity mechanism and decreases attack frequency and severity in patients with NMOSD. Most of the investigations revealed that Expanded Disability Status Score (EDSS) improved significantly in all patients with rituximab treatment after treatment with rituximab and relapse rates decreased by up to 88%. No new or enlarged lesions or pathological gadolinium enhancement was observed in serial brain and spinal cord MRIs, except for those observed concomitantly with clinical relapses and the median length of spinal cord lesions was significantly reduced after therapy. Paradoxical relapses may occur shortly after initiation of rituximab therapy so it is important to allow enough time for the rituximab to become effective. Complete suppression of CD19-positive B-lymphocytes takes one month.

- There are multiple options for the long-term treatment of NMOSD. There an no clinical trials comparing the efficacy of one therapy to another. Choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability.

- IgG4 related disease (IgG4-RD)

  - IgG4-RD is a recently established systemic disease that is characteristically associated with elevated serum IgG4 levels and believed to be caused by autoimmune mechanisms. The clinical features of IgG4-RD include systemic distribution; imaging findings of swelling, nodules, and/or wall thickening; high serum IgG4 levels; abundant IgG4-bearing plasma cell infiltration and fibrosis in affected organs; a favorable response to corticosteroid therapy; and coexistence with other IgG4-RD manifestations simultaneously or in a metachronous fashion. The systemic distribution of IgG4-RD seems to be capable of affecting every organ causing issues including autoimmune pancreatitis, Mikulicz's disease, respiratory disease, sclerosing cholangitis, kidney disease, and retroperitoneal fibrosis.

  - High serum IgG4 levels and increased IgG4-bearing plasma cell infiltration in affected organs are the most important characteristic features of IgG4-RD and the major indicators in the diagnostic process. However, because these findings are similar for other inflammatory or malignant conditions, their presence does not necessarily exclude other disorders. In addition, while other clinical, serologic, radiologic, and pathologic features all contribute to the classification of IgG4-RD, none of these approaches alone provides definitive evidence for the diagnosis of patients. Therefore, in 2019, the American College of Rheumatology/European League Against Rheumatism (ACR/EULAR) developed an international set of classification criteria for IgG4-RD. The 3 step classification process includes demonstration that a potential IgG4-RD case has involvement of at least 1 of 11 possible organs in a manner consistent with IgG4-RD; exclusion criteria consisting of a total of 32 clinical, serologic, radiologic, and pathologic items that if present eliminates the patient from IgG4-RD classification; and 8 weighted inclusion criteria domains addressing clinical findings, serologic results, radiology assessments, and pathology interpretations. A score on the classification system of greater than or equal to 20 correlates to an IgG4-RD diagnosis with a specificity of 99.2% (95% CI: 97.2%, 99.8%) and a sensitivity of 85.5% (95% CI: 81.9%, 88.5%).

  - The 2015 International Consensus Guidance Statement on the Management and Treatment of IgG4-Related Disease recommend treatment with 30 – 40 mg/day of prednisone as first-line treatment for remission induction in all patients with active, untreated IgG4-RD. Typically the initial glucocorticoid dose should be maintained for 2 – 4 weeks after which it can be tapered gradually. The goal of induction therapy for many patients is to discontinue glucocorticoid use 3 – 6

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

months after the start of treatment, however, many clinicians recommend the use of low-dose glucocorticoid maintenance therapy for up to 3 years. Retreatment with glucocorticoids is indicated in patients who relapse off of treatment following successful remission induction.

- Following a successful course of induction therapy for certain high-risk patients or after a relapse, patients can benefit from maintenance therapy. The introduction of a steroid-sparing agent, such as, azathioprine, mycophenolate mofetil, methotrexate, tacrolimus, cyclophosphamide, or rituximab for continuation in the remission maintenance period can be considered. Patients with multiorgan disease, significantly elevated serum IgG4 concentrations, involvement of the proximal bile ducts, and a history of disease relapse are at higher risk of early recurrence following remission induction and can benefit from addition of steroid sparing agents from the start of glucocorticoid inducation. Patients with organ-threatening IgG4-RD manifestations and those with an elevated risk of relapse will also likely benefit from maintenance therapy in an effort to minimize morbidity.

- Myasthenia gravis

  - Myasthenia gravis is a rare autoimmune disease resulting from an immunologic attack of AChR, muscle-specific tyrosine kinase (MuSK), and/or other receptors found on the postsynaptic neuromuscular junction. It typically initially presents as asymmetric ptosis and diplopia and is known as ocular MG of the eyelids and extraocular muscles. As weakness extends beyond the ocular muscles, the disease progresses into generalized MG with patients experiencing widespread fatigue and muscle weakness most commonly in the head, neck, and extremities. Approximately 10-15% of MG cases will become refractory resulting in profound debilitating muscle weakness and fatigue and difficulty breathing, swallowing, speaking, and walking. Refractory disease is defined by the 2016 international consensus guidance for management of myasthenia gravis as worsening or unchanged disease despite use of corticosteroids and at least two different immunosuppressive therapies used in adequate doses for an adequate duration with persistent symptoms and/or side-effects that limit function.

  - Uplizna is only indicated for use in patients with anti-AChR or anti-MuSK antibodies. An immunologic assay to detect for the presence of anti-AChR and anti-MuSK antibodies is the first step towards a diagnosis of MG. Once it is determined a patient has one of these antibody types, at least one other confirmatory test should be conducted. A positive edrophonium test, history of response to oral cholinesterase inhibitors, repetitive nerve stimulation (RNS), or single-fiber electromyography (SFEMG) all can be used to verify anti-AChR MG. Only a repetitive nerve stimulation (RNS) or single-fiber electromyography (SFEMG) can be used to confirm anti-MuSK antibody positive disease.

  - The thymus plays an important role in the pathogenesis of MG. Studies have shown that muscle-like myoid cells in the thymic medulla expressing AChR could be driving the antibody mediated response seen in MG. The 2021 international consensus guidance for management of myasthenia gravis state thymectomy can be considered for patients with generalized MG without thymoma based on class II evidence from a meta-analysis. Benefit from thymectomy is usually delayed and is often only identified several years post-surgery. Also, patients with thymomas, tumors originating from the epithelial cells of the thymus, may develop MG. Guidelines state the presence of thymoma is always a surgical indication, regardless of the severity of MG, followed by chemotherapy and radiation to treat the tumor as appropriate. Uplizna has not been studied in patients who have undergone thymectomy within 12 months, those with thymoma, and those with other tumors of the thymus. There is no safety and efficacy data to support use of Uplizna in these patient populations at this time.

  - Standard therapies recommended by the 2021 international consensus guidance for management of myasthenia gravis include acetylcholinesterase inhibitors, corticosteroids, immunosuppressants, IVIG, and PLEX.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Acetylcholinesterase inhibitors are used for temporary symptomatic relief of MG symptoms. Their use is limited as an adjunct therapy to immunotherapy in those with residual or refractory MG or for treatment of ocular and mild generalized disease in those who cannot receive immunosuppressants.

- Corticosteroids are effective in ocular MG and in patients with general MG with unsatisfactory responses to acetylcholinesterase inhibitors. They produce improvement in up 80% of MG patients often beginning within 2 weeks. However, they are associated with significant dose-dependent adverse events and are typically started with an immunosuppressant and then tapered slowly.

- Azathioprine and mycophenolate mofetil are standard immunosuppressant therapies and act as steroid-sparing agents. Other options include cyclosporin, methotrexate, and tacrolimus. Onset of action is slow and may take up to 9 to 12 months. Guidelines recommend dose adjustments no more frequently than every 3 to 6 months. Once the patient experiences treatment effect and doses should be maintained for six months to two years of therapy and then tapered to the lowest effect dose.

- Cyclophosphamide is typically used after failure of standard therapy in severe MG. It has several serious potential side effects. Since there are effective agents with less toxicity cyclophosphamide is usually reserved for patients refractory to the other immunosuppressive therapies.

- PLEX and IVIG provide short-term symptomatic relief during exacerbations for surgical preparation or in patients with septicemia through downregulating autoantibodies and/or inducing antiidiopathic antibodies. IVIG has been shown to be effective in reducing the time of mechanical ventilation in myasthenic crisis, in management of severe generalized MG, to stabilize MG before surgery, and prior to high-dose corticosteroid therapy to minimize or prevent steroid-induced exacerbations. IVIG may be a maintenance treatment option for patients intolerant to or not responding to an adequate course of non-steroid immunosuppressive therapy. In contrast, the clinical effects of PLEX last only a few weeks unless concomitant immunosuppressants are given. Studies indicate that there is no long-term immunosuppressive effect of PLEX.

- There is good rationale for the use of rituximab in MG as the disease is B-cell mediated and rituximab targets CD20 on the B-cell membrane. A number of case reports and case series support the efficacy of rituximab in patients with refractory MG. In a prospective study of 22 patients with refractory MG treated with rituximab, the mean time to relapse was 17 months. Among 14 patients taking prednisone, the mean daily dose decreased from 25 mg at baseline to 7 mg after treatment with a mean follow-up of 29 months. In an observational study of 72 patients with new-onset or refractory generalized MG, those treated with low-dose rituximab had shorter time to remission, lower use of adjunctive treatments, and fewer adverse events than patients treated with conventional immunosuppressive therapy.

- Uplizna has not been studied and there is no data to support use in combination with other medications used to treat MG, such as, Soliris, or one medication is superior to the other.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Uplizna [prescribing information]. Gaithersburg, MD; Viela Bio, Inc.; December 2025.
2. Wilson R, Makuch M, Kienzler AK, et al. Condition-dependent generation of aquaporin-4 antibodies from circulating B cells in neuromyelitis optica. *Brain*. April 2018; 141(4): 1063–74.
3. Cree BAC, Bennett JL, Kim HJ, et al. Inebilizumab for the treatment of neuromyelitis optica spectrum disorder (N-MOmentum): a double-blind, randomized placebo-controlled phase 2/3 trial. *Lancet.* 2019 Oct 12; 394(10206): 1353 – 63.
4. Soliris [prescribing information]. Boston, MA: Alexion Pharmaceuticals, Inc.; November 2020.
5. Enspryng [prescribing information]. South San Francisco, CA: Genentech, Inc.; August 2020.
6. Wilson R, Makuch M, Kienzler AK, et al. Condition-dependent generation of aquaporin-4 antibodies from circulating B cells in neuromyelitis optica. Brain. April 2018; 141(4): 1063–74.
7. VielaBio. Potential first-line therapy for patients with NMOSD and other diseases sharing the autoantibody pathway. Available at: https://vielabio.com/product-candidates/inebilizumab/. Accessed on February 18, 2020.
8. Pittock SJ, Berthele A, Fujihara K, et al. Eculizumab in aquaporin-4 positive neuromyelitis optica spectrum disorder. *NEJM*. 2019 May 3. Doi: 10.1056/NEJMoa1900866.
9. Sellner J, Boggild M, Clanet M, et al. EFNS guidelines on diagnosis and management of neuromyelitis optica. *EJN*. 2010; 17: 1019 – 32.
10. Sherman E and Han MH. Acute and chronic management of neuromyelitis optica spectrum disorder. *Curr Treat Options Neurol.* 2015; 17(11): 48 – 62.
11. Gardner J. AstraZeneca spinout wins first FDA approval 2 years after launch. Available at: https://www.biopharmadive.com/news/viela-bio-uplinza-fda-approval/579750/. Accessed on June 14, 2020.
12. Nikoo Z, Badihian S, Shaygannejad V, et al. Comparison of the efficacy of azathioprine and rituximab in neuromyelitis optica spectrum disorder: a randomized clinical trial. J Neuro. 2017; 264: 2003 - 9.
13. Damato V, Evoli A, & Iorio R. Efficacy and safety of rituximab therapy in neuromyelitis optica spectrum disorders: a systematic review and meta-analysis. JAMA Neurol. 2016; 73: 1342 - 8.
14. Etemadifar M, Salari M, Mirmosayyeb O, et al. Efficacy and safety of rituximab in neuromyelitis optica: review of evidence. J Res Med Sci. 2017; 22: 18.
15. IPD Analytics. Enspryng (satralizumab-mwge) New Drug Review. September 2020.
16. Kawa S. Immunoglobulin G4-related disease: an overview. JMA J. 2019 Jan 21; 2 (1): 11 – 27.
17. Wallace ZS, Naden RP, Chari S, et al. The 2019 American College of Rheumatology/European League Against Rheumatism classification criteria for IgG4-related disease. Arth Rheum. 2020 Jan; 72 (1): 7 – 19.
18. Khosroshahi A, Wallace ZS, Crowe JL, at al. International consensus guidance statement on the management and treatment of IgG4-related disease. Arth Rheum. 2015 July; 67 (7): 1688 – 99.
19. Perugino C, Culver EL, Khosroshahi A, et al. Efficacy and safety of inebilizumab in IgG4-related disease: protocol for a randomized controlled trial. Rheumatol Ther. 2023 Dec; 10 (6): 1795 - 1808.
20. Trouth AJ, Dabi A, Solieman N, at al. Myasthenia gravis: a review. Autoimmune Dis. 2012; 2012: 874680.
21. Sanders DB, Wolfe GI, Benatar M, et al. International consensus guidance for management of myasthenia gravis: executive summary. Neurology. 2016 Jul 26; 87 (4): 419 - 25.
22. Narayanaswami P, Sanders DB, Wolfe GI, et al. International consensus guidance for management of myasthenia gravis: 2020 update. Neurology. 2021; 96: 114 - 22.
23. Skeie GO, Apostolski S, Evoli A, et al. Guidelines for treatment of autoimmune neuromuscular transmission disorders. European J Neurol. 2010 Jul; 17 (7): 893 - 902.
24. Pasnoor M, Dimachkie MM, Farmakidis C, at al. Diagnosis of myasthenia gravis. Neurol Clinic. 2018 May; 36 (2): 261 – 74.
25. Marx A, Pfister F, Schalke B, et al. The different roles of the thymus in the pathogenesis of the various myasthenia gravis subtypes. Autoimmun Rev. 2013; 12: 875 – 84

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>2.2</td><td>Effective Date: 02/12/2026</td><td>Updated to include the new indication for use in myasthenia gravis</td></tr>
<tr><td>2.1</td><td>Effective Date: 06/05/2025</td><td>Updated to include the new indication for use in IgG4 related disease</td></tr>
<tr><td>2.0</td><td>Effective Date: 04/10/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.9</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.8</td><td>Effective Date: 04/06/2023</td><td>Updated to remove the step through Rituxan or a rituximab biosimilar</td></tr>
<tr><td>1.7</td><td>Effective Date: 12/01/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.6</td><td>Effective Date: 12/09/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 12/03/2020</td><td>Updated to require trail and failure of rituximab or a rituximab biosimilar and Enspryng; removed relapse requirement, EDSS score requirement, and negative TB and Hep B testing requirements; updated renewal period to 1 year at a time and renewal criteria to show clinical benefit</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/01/2020</td><td>UM medical management system update for BCBSM
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 08/21/2020</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 08/13/2020</td><td>New Policy</td></tr>
<tr><td>1.1</td><td>Effective Date 08/01/2020</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 04/16/2020</td><td>Preliminary drug review
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Ustekinumab Products

Imuldosa™ (ustekinumab-srlf) **- HCPCS: Q5098**
Otulfi™ (ustekinumab-aauz) **- HCPCS: Q9999**
Pyzchiva® (ustekinumab-ttwe) **- HCPCS: Q9997**
Selarsdi™ (ustekinumab-aekn) **- HCPCS: Q9998**
Starjemza (ustekinumab-hmny) **- HCPCS: Q5164**
Stelara® (ustekinumab) **- HCPCS: J3358**
Steqeyma® (ustekinumab-stba) **- HCPCS: Q5099**
Ustekinumab - HCPCS: J3590
Ustekinumab-aauz - HCPCS: Q9999
Ustekinumab-aekn - HCPCS: J3590
Ustekinumab-auub - HCPCS: J5138
Ustekinumab-srlf - HCPCS: Q5098
Ustekinumab-stba - HCPCS: Q5099
Ustekinumab-ttwe - HCPCS: Q9997
Wezlana™ (ustekinumab-auub) **- HCPCS: Q5138**
Yesintek™ (ustekinumab-kfce) **- HCPCS: Q5100**

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Ustekinumab is an interleukin (IL)-12 and IL-23 inhibitor available as the innovator product Stelara and its biosimilars Imuldosa, Otulfi, Pyzchiva, Selarsdi, Starjemza, Steqeyma, Wezlana, and Yesintek. Wezlana was also granted interchangeability status by the FDA, while the FDA provisionally determined that Pyzchiva would be interchangeable with Stelara as it is currently subject to an unexpired period of exclusivity for the first interchangeable biosimilar biological products.

- The innovator product is indicated for moderate to severe plaque psoriasis in adult and pediatric patients 6 years of age and older who are candidates for phototherapy or systemic therapy, active psoriatic arthritis in adults and pediatric patients 6 years of age and older, moderately to severely active Crohn's disease in adult and pediatric patients 2 years of age and older, and moderately to severely active ulcerative colitis in adult patients. Stelara and its biosimilars may be administered as a subcutaneous (SC) injection or via intravenous (IV) infusion. Administration via IV infusion is reserved for induction therapy in Crohn's disease and ulcerative colitis utilizing a single weight-based dose. After induction, the transition is made to subcutaneous dosing for maintenance therapy.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Use of ustekinumab in combination with other biologic agents or targeted immunosuppressants has not been sufficiently evaluated for safety and efficacy and therefore is not recommended.

- Crohn's Disease

  - Crohn's disease (CD) is an idiopathic inflammatory disorder of unknown etiology with genetic, immunologic, and environmental influences. The incidence of CD has steadily increased over the past several decades. The diagnosis and treatment of patients with CD continues to evolve. The chronic intestinal inflammation that occurs in CD can over time lead to the development of intestinal complications such as strictures, fistulas, and abscesses. These complications can lead to inhibition of intestinal function or to surgery that itself can result in some morbidity and loss of intestinal function.

  - The 2025 American College of Gastroenterology (ACG) guidelines management recommendations for patients with CD are based on disease location, severity, presence of disease-associated complications including extraintestinal manifestations, and factors affecting future prognosis. Therapeutic approaches are individualized with the composite goal of achieving clinical and endoscopic remission without significant adverse effects of treatment. CD treatment should be considered as a sequential continuum to treat acute disease or induce clinical remission and then to maintain response/remission with overall improvements in quality of life.

  - Medical treatment of CD is usually categorized into induction and maintenance therapy. Regimens are generally chosen according to the patient's risk profile and disease severity with a goal to achieve clinical and biomarker response within 12 weeks of treatment initiation followed by durable steroid-free control of disease activity including both clinical and endoscopic remission. It is important to acknowledge; however, that CD clinical trials have only recently incorporated objective outcomes such as endoscopic improvement as a coprimary outcome. Another therapeutic goal is to prevent disease complications, such as strictures and fistulae. While medical therapy may be successful in some patients with fistulizing disease, including perianal disease, there is less evidence for medication efficacy in stricturing CD given the known fibrotic component of chronic strictures. Medical therapy used to treat CD primarily include supportive care including dietary-based strategies, corticosteroids and advanced therapies including anti-TNF agents, anti-integrins, anti-ILs, and JAK inhibitors.

  - A recent open-label randomized controlled trial (PROFILE—Predicting Outcomes for Crohn's Disease Using a Molecular Biomarker) evaluated 2 separate approaches to the management of newly diagnosed CD, early combined immunosuppression with infliximab plus immunomodulator or accelerated step-up therapy where conventional management with corticosteroids was followed by immunomodulator, then followed by infliximab use. The primary endpoint was sustained steroid-free and surgery-free remission at week 48. Those in the early combined group were significantly more likely to achieve steroid-free and surgery-free remission (79% vs 15%). This study demonstrates the benefit of early intervention with advanced therapy as compared to a serial approach first requiring the use of conventional therapy. The guidelines suggest against requiring failure of conventional therapy before initiation of advanced therapy for the management of CD.

  - The 2025 ACG guidelines do recommend oral corticosteroids for short-term induction of remission in patients with moderately to severely active CD, as conventional corticosteroid treatment, such as prednisone and methylprednisolone given orally or intravenously for more severe disease, is effective in alleviating signs and symptoms of a flare. The use of corticosteroids should not exceed 3 continuous months without attempting to introduce corticosteroid-sparing agents (such as biologic therapy or immunomodulators). Despite their effectiveness in reducing signs and symptoms of active CD, nearly 1 in 4 patients will have prolonged exposure to corticosteroids (i.e., greater than 6 months), particularly earlier in their disease course with approximately 15% of patients becoming steroid-dependent with an inability to taper without subsequent recrudescence of symptoms.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- The 2025 ACG guidelines recommend against azathioprine and 6-mercaptopurine for induction of remission in moderately to severely active CD, but they can be used for maintenance of remission in patients who had induction of remission with corticosteroids at proper doses (azathioprine at doses of 1.5–2.5 mg/kg/d and 6-mercaptopurine at doses of 0.75–1.5 mg/kg/d). Methotrexate (up to 25 mg once weekly via intramuscular or subcutaneous injection) can also be used for maintenance of remission in patients with moderately to severely active CD who had induction of remission with corticosteroids.

- The 2025 ACG guidelines recommend anti-TNF agents (intravenous infliximab, subcutaneous adalimumab, subcutaneous certolizumab pegol) for induction and maintenance of remission for moderately to severely active CD. They also recommend combination therapy of intravenous infliximab with immunomodulators (thiopurines) as compared with treatment with either immunomodulators alone or intravenous infliximab alone in patients with CD who are naive to those agents. Biosimilar infliximab, adalimumab, and ustekinumab are effective treatments for patients with moderate-to-severe CD and can be used for de novo induction and maintenance therapy. There are data to support the safety and efficacy of transitioning or switching to biosimilar infliximab or adalimumab for with patients CD in stable disease maintenance.

- Intravenous and subcutaneous vedolizumab, ustekinumab, risankizumab, mirikizumab, and guselkumab are all recommended for induction and maintenance of remission for patients with moderately to severely CD, whereas JAK inhibitors are recommended in these patients who have previously been exposed to anti-TNF agents.

- The 2025 American Gastroenterological Association (AGA) guidelines mirror the ACG guidelines and suggest, in adult outpatients with moderate to severely active CD, upfront use of advanced therapy compared with step-up therapy with initial use of corticosteroids and/or immunomodulator monotherapy.

- The 2025 AGA guidelines recommend using infliximab, adalimumab, ustekinumab, risankizumab, guselkumab, mirikizumab, or upadacitinib over no treatment, and suggest using certolizumab pegol and vedolizumab over no treatment.

- The 2025 AGA guidelines suggest using a higher efficacy rather than lower efficacy medication in advanced therapy-naïve patients (Higher efficacy medications: infliximab, adalimumab, vedolizumab, ustekinumab, risankizumab, mirikizumab, guselkumab; Lower efficacy medications: certolizumab pegol, upadacitinib). In patients with prior exposure to one or more advanced therapies, particularly TNF antagonists, the 2025 AGA guidelines suggest using higher efficacy, or intermediate efficacy medication rather than a lower efficacy medication. (Higher efficacy medications: adalimumab, risankizumab, guselkumab, upadacitinib; Intermediate efficacy medications: ustekinumab, mirikizumab; lower efficacy medications: certolizumab pegol, vedolizumab).

- Ulcerative Colitis

  - Ulcerative colitis (UC) is a chronic disease affecting the large intestine with an ongoing rising incidence worldwide and more recent updated estimates in the United States. Using pooled data from both commercial and public insurance (physician-coded diagnoses), the incidence of UC was estimated to be 6.3 per 100,000 person-years (95% confidence interval [CI], 6.1–6.6) and in adults, higher than that estimated for CD using the same methodology. The age-standardized, sex-standardized, and insurance-standardized prevalence per 100,000 population is estimated to be 305 (95% CI, 302–308), with a 2020 census-extrapolated US prevalence of 1.253 million people living with UC. UC is characterized by chronic inflammation of the large intestine that is frequently associated with involvement of the rectum but often extends proximally to involve additional areas of the colon. Despite advances in understanding environmental associations and risks, the causes of UC remain complex and unknown. UC causes significant morbidity but fortunately has a low incidence of mortality. Patients with active disease are more

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

likely to have comorbid psychological conditions of anxiety and depression and are more likely to have impaired social interactions or career progression. Longstanding UC is also associated with a defined risk of dysplasia and colorectal cancer (CRC) which is believed to be primarily related to more extensive bowel involvement and longstanding mucosal inflammatory activity.

- The 2024 AGA living clinical practice guideline on pharmacological management of moderate-to-severe UC suggests early use of advanced therapies with or without immunomodulator therapy, rather than gradual step-up after failure of 5-aminosalicylic acid (5-ASAs) in adult outpatients with moderate-to-severe UC. They comment that patients, particularly those with less severe disease who place higher value on the safety of 5-ASA therapy and lower value on the efficacy of immunosuppressive therapies, may reasonably choose gradual step therapy with 5-ASA therapy.

- The 2025 ACG clinical guideline update: ulcerative colitis in adults have many recommendations for the remission in moderately to severely active UC including oral budesonide MMX, oral systemic corticosteroids, S1P receptor modulators (ozanimod and etrasimod), ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, infliximab (in combination with a thiopurine), adalimumab or golimumab, tofacitinib, and upadacitinib, while recommending against monotherapy with thiopurines or methotrexate. These guidelines also have strategies for the induction of remission in moderately to severely active UC and include that 5-ASA therapy could be used as monotherapy, nonsystemic corticosteroids such as budesonide MMX can be considered before the use of systemic therapy, systemic corticosteroids can be considered in severely active UC, and that corticosteroids may be avoided entirely when other effective induction strategies are planned.

- The 2025 ACG guideline has many recommendations for maintenance of remission in patients with previously moderately to severely active UC and includes recommending against systemic corticosteroids, methotrexate, or adding 5-ASA to anti-TNF therapy. In those who are in remission due to corticosteroid induction, thiopurines are recommended over corticosteroids. The 2025 ACG guideline recommends continuing ozanimod, etrasimod, ustekinumab, guselkumab, mirikizumab, risankizumab, vedolizumab, adalimumab, golimumab, infliximab, tofacitinib, and upadacitinib after induction with said medication.

References:

1. Singh JA, et al. 2018 American College of Rheumatology/National Psoriasis Foundation Guideline for the Treatment of Psoriatic Arthritis. Arthritis Rheumatol. 2019 Jan; 71 (1): 5-32.
2. Elmets CA, Korman NJ, Prater EF, Wong EB, Rupani RN, Kivelevitch D et al, Joint AAD-NPF Guidelines of care for the management and treatment of psoriasis with topical therapy and alternative medicine modalities for psoriasis severity measures, Journal of the American Academy of Dermatology (2020), doi: https://doi.org/10.1016/j.jaad.2020.07.087.
3. Elmets CA, Lim HW, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with phototherapy. J Am Acad Dermatol 2019; 81: 775-804. https://doi.org/10.1016/j.jaad.2019.04.042
4. Menter A, Strober BE, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with biologics. J Am Acad Dermatol 2019; 80: 1029-1072. https://doi.org/10.1016/j.jaad.2018.11.057
5. Menter A, Gelfand JM, et al. Joint American Academy of Dermatology-National Psoriasis Foundation guidelines of care for the management and treatment of psoriasis with systemic nonbiologic therapies. J Am Acad Dermatol 2020; 82: 1445-1486. https://doi.org/10.1016/j.jaad.2020.02.044
6. Rubin, David T. MD, FACG[1]; Ananthakrishnan, Ashwin N. MBBS, MPH, FACG[2]; Siegel, Corey A. MD, MS[3]; et al. ACG Clinical Guideline Update: Ulcerative Colitis in Adults. The American Journal of Gastroenterology 120(6):p 1187-1224, June 2025. | DOI: 10.14309/ajg.0000000000003463
7. Singh S. Loftus EV. Limketkai BN. et al. AGA Living Clinical Practice Guidelines on the Medical Management of Moderate to Severe Ulcerative Colitis. Gastroenterology 2024;167:1307–1343

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

8. Lichtenstein, Gary R. MD, FACG[1]; Loftus, Edward V. MD, FACG[2]; Afzali, Anita MD, MPH, MHCM, FACG[3]; et. al. ACG Clinical Guideline: Management of Crohn's Disease in Adults. The American Journal of Gastroenterology 120(6):p 1225-1264, June 2025. | DOI: 10.14309/ajg.0000000000003465
9. Scott F, Ananthakrishnan A, Click B et al. AGA Living Clinical Practice Guideline on the Pharmacologic Management of Moderate-to-Severe Crohn's Disease. Gastroenterology, 169, 1397-1448
10. Stelara (ustekinumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; September 2022.
11. Tremfya (guselkumab) [prescribing information]. Horsham, PA: Janssen Biotech Inc; July 2020.
12. Ilumya (tildrakizumab) [prescribing information]. Cranbury, NJ: Sun Pharmaceutical Industries, Inc; July 2020.
13. Skyrizi (risankizumab-rzaa) [prescribing information]. North Chicago, IL: AbbVie Inc; May 2023.
14. Wezlana [prescribing information]. Thousand Oaks, CA: Amgen; September 2025.
15. Pyzchiva [prescribing information]. Princeton, NJ: Sandoz; June 2024.
16. Selardsi [prescribing information]. Leesburg, VA: Alvotech USA Inc; April 2024.
17. Otulfi [prescribing information]. Lake Zurich, IL: Fresenius Kabi; September 2024.
18. Imuldosa [prescribing information]. Raleigh, NC: Accord BioPharma Inc; November 2025.
19. Yesintek [prescribing information]. Cambridge, MA: Biocon Biologics, Inc; November 2024.
20. Steqeyma [prescribing information]. Jersey City, NJ: Celltrion USA, Inc.; December 2024.
21. Starjemza [prescribing information]. Berkley Heights, NJ: Hikma Pharmaceuticals; May 2025.

Policy History		
#	Date	Change Description
5.8	Effective Date: 07/01/2026 P&T Date: 06/11/2026	Updated to remove conventional therapy requirement for Crohn's disease and ulcerative colitis due to updated guidelines. Updated guideline sections in the background to correspond with removal of conventional therapy requirement.
5.7	Effective Date: 05/11/2026	UM medical management system update for MAPPO and BCNA for Starjemza
5.6	Effective Date: 02/12/2026	Updated policy to include biosimilars ustekinumab-srlf and ustekinumab-stba
5.5	Effective Date: 12/04/2025	Updated policy to include biosimilar ustekinumab-auub
5.4	Effective Date: 08/07/2025	Updated policy to include biosimilar Starjemza
5.3	Effective Date: 07/01/2025	UM medical management system update for MAPPO and BCNA for Selarsdi IV
5.2	Effective Date: 06/12/2025	UM medical management system update for BCBS and BCN for Starjemza

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

5.1	Effective Date: 06/05/2025	Updated policy to include biosimilars: ustekinumab, ustekinumab-aauz, ustekinumab-aekn, and ustekinumab-ttwe
5.0	Effective Date: 05/01/2025	UM medical management system removal for BCBS and BCN for Imudolsa SC, Otulfi SC, Pyzchiva SC, Seldsardi SC, Stelara SC, Steqeyma SC, Wezlana SC, and Yesintek SC
4.9	Effective Date: 04/17/2025	UM medical management system update for BCBS and BCN for Selarsdi IV and SC
4.8	Effective Date: 03/03/2025	UM medical management system update for MAPPO and BCNA for Steqeyma IV
4.7	Effective Date: 02/13/2025	Updated policy to include biosimilars Steqeyma and Yesintek
4.6	Effective Date: 02/03/2025	UM medical management system update for MAPPO and BCNA for Imuldosa IV, Pyzchiva IV, and Yesintek IV
4.5	Effective Date: 01/06/2025	UM medical management system update for MAPPO and BCNA for Otulfi IV
4.4	Effective Date: 01/02/2025	UM medical management system update for BCBS and BCN for Steqeyma IV & SC and Ustekinumab-stba
4.3	Effective Date: 12/13/2024	UM medical management system update for BCBS and BCN for Yesintek IV & SC
4.2	Effective Date: 12/12/2024	Updated include Otulfi and Imuldosa
4.1	Effective Date: 11/03/2024	UM medical management system update for MAPPO and BCNA for Wezlana IV
4.0	Effective Date: 10/31/2024	UM medical management system update for BCBS and BCN for Imuldosa IV & SC and Ustekinumab-srlf
3.9	Effective Date: 10/10/2024	UM medical management system update for BCBS and BCN for Otulfi IV & SQ
3.8	Effective Date: 10/03/2024	Added “for the same indication” to the not to be used in combination with other biologics or targeted DMARDs criteria
3.7	Effective Date: 08/08/2024	Updated policy to include biosimilar Pyzchiva
3.6	Effective Date: 07/18/2024	UM medical management system update for BCBS and BCN for Pyzchiva IV & SC
3.5	Effective Date: 06/06/2024	Updated policy to include biosimilar Selardsi
3.4	Effective Date: 12/14/2023	Changed policy name to Ustekinumab Products Policy. Updated to add Wezlana, FDA approved indications criteria, and coverage for biosimilar products for FDA labeled indications of the innovator product when criteria are met

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

3.3	Effective Date: 11/23/2023	UM medical management system update for BCBS and BCN for Ustekinumab-auub and Wezlana SC & IV
3.2	Effective Date: 12/01/2022	Annual review of criteria was performed, no changes were made
3.1	Effective Date: 08/01/2022	UM medical management system removal for MAPPO and BCNA for Stelara SC
3.0	Effective Date: 12/09/2021	Removed FDA approved indications, phototherapy and oral DMARD for psoriasis, the oral DMARD for psoriatic arthritis, and added a trial of one topical corticosteroid for psoriasis.
2.9	Effective Date: 02/04/2021	Removal of the topical steroid critera for psoriasis indication
2.8	Effective Date: 12/03/2020	Criteria updated to align management between pharmacy and medical benefit for all listed indications
2.7	Effective Date: 12/05/2019	Added new indication of ulcerative colitis
2.6	Effective Date: 08/15/2019	Added t/f of preferred product statement
2.5	Effective Date: 02/14/2019	Criteria updated to prevent use with other biologic agents and added required length for DMARD trial
2.4	Effective Date: 02/01/2019	UM medical management system update for MAPPO and BCNA for Stelara IV and SC
2.3	Effective Date: 08/09/2018	Annual Review of Medical Policy
2.2	Effective Date: 08/02/2018	Updated the QL for psoriasis/psoriatic arthritis indication in patients weighing >100kg to reflect prescribing information recommendations
2.1	Effective Date: 03/16/2018	Removed Humira requirement from Crohn's disease
2.0	Effective Date: 08/10/2017	Criteria updated to remove step therapy for preferred biologics on medical.
1.9	Effective Date: 03/23/2017	Criteria updated to clarify preferred biologics for each indication based on current contracting.
1.8	Effective Date: 02/09/2017	FDA approval Stelara Intravenous/Crohn's
1.7	Effective Date: 11/10/2016	Preliminary Criteria Approved for Crohn's disease including trial and failure of Humira or Remicade.
1.6	Effective Date: 01/01/2016	Document updated with specified drugs required
1.5	Effective Date: 12/16/2013	Criteria update to include psoriatic arthritis

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

1.4	Effective Date: 08/08/2013	Criteria updates, include self-injectable
1.3	Effective Date: 05/02/2013	Criteria updates
1.2	Effective Date: 01/22/2013	UM medical management system update for BCBS for Stelara IV and SC
1.1	Effective Date: 07/10/2012	Criteria updates
1.0	Effective Date: 10/2010	New policy

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Vabysmo™ (faricimab-svoa)
HCPCS: J2777

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Intravitreal injections of anti-vascular endothelial growth factor (VEGF) have been widely used by ophthalmologists to treat a variety of ocular diseases. They are injected directly into the eye to prevent the formation of new blood vessels and reduce blood vessel leakage and inflammation. Vabysmo is an anti-VEGF therapy indicted for neovascular (wet) age related macular degeneration (AMD), diabetic macular edema (DME), and macular edema following retinal vein occlusion (RVO).

- Age-related Macular Degeneration

    - Age-related macular degeneration is a degenerative disease of the macula that results primarily in loss of central vision. Wet AMD is characterized by growth of abnormal vessels into the subretinal space. These abnormal blood vessels leak leading to collections of subretinal fluid and/or blood beneath the retina. The 2024 American Academy of Ophthalmologists (AAO) Age-Related Macular Degeneration Preferred Practice Pattern Guidelines recommend observation and early detection, antioxidant vitamin and mineral supplements, and intravitreal injections of anti-VEGF agents for the management of wet AMD. Guidelines recommend Eylea™, Avastin®, Vabysmo, or Lucentis® for treatment. The guidelines have not been updated with Beovu®, Byooviz™, and Susvimo™.

- Diabetic Macular Edema

    - Diabetic retinopathy and DME are common complications and the ocular manifestations of end-organ damage in diabetes mellitus. The 2025 AAO Diabetic Retinopathy Preferred Practice Pattern Guidelines state the goals of therapy for DR and DME include improvement or stabilization of visual function, improvement in vision-related quality of life, and optimal control of blood glucose, blood pressure, and other metabolic risk factors. Patients should always be treated with anti-VEGF therapy if they have severe non-proliferative DR or proliferative DR with center-involved macular edema. In cases of mild to moderate non-proliferative DR with center-involved macular edema, patients should also receive intravitreal injections. The guidelines support the use of Lucentis, Eylea, Vabysmo, and Avastin. AAO recommendations were based on trials comparing Eylea, Avastin, and Lucentis to focal laser treatment. All trials showed that treatment with VEGF inhibitors resulted in statistically and clinically significant improvements in visual acuity in patients with DME after one to two years compared to laser treatment.

- Retinal Vein Occlusion

    - Retinal vein occlusion occurs when there is partial or complete obstruction of a retinal vein. Vision loss can occur with RVO and is associated with macular ischemia or edema, retinal hemorrhages, vitreous hemorrhage, or epiretinal membrane formation. The 2025 AAO Retinal Vein Occlusions Preferred Practice Pattern Guidelines recommend anti-VEGF therapy as first-line treatment for macular edema caused by RVO. The guidelines support the use of Lucentis, Eylea, and Avastin. The guidelines state VEGF inhibitors, Eylea, Avastin, and Lucentis, are more effective than sham injection or laser therapy in maintaining or improving visual acuity in patients with macular edema secondary to RVO.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There are very few randomized control trials that assess the efficacy of one anti-VEGF therapy over another. Of the two that are available, Avastin, Eylea, and Lucentis were all shown to be non-inferior to each other, and because of this, choice of therapy should be based on patient characteristics, side effect profiles, cost, and availability. However, a 2015 study conducted by Wells, et al. did show Eylea was superior to Avastin therapy when patients had a visual acuity of less than or equal to 20/50. In addition, a subcohort analysis of the YOSEMITE AND RHINE trials showed Vabysmo demonstrated BCVA gains similar to aflibercept, while demonstrating numerically greater improvements in anatomic outcomes at years 1 and 2. Therefore, in these scenarios Avastin should not be used prior to Eylea or Vabysmo.

References:

1. Avastin [prescribing information]. South San Francisco, CA: Genentech, Inc.; January 2021.
2. Vabysmo [prescribing information]. South San Francisco, CA: Genentech, Inc.; April 2026.
3. Vemulakonda A, Bailey ST, Kim SJ, et al. Age-related macular degeneration preferred practice pattern. Ophthalmology. 2025 Feb. Available at: file:///C:/Users/e131093/Downloads/Age-Related%20Macular%20Degeneration%20PPP_Dec%202025.pdf. Access on April 16, 2026.
4. Tufail A, Patel PJ, Egan C, et al. Bevacizumab for neovascular age related macular degeneration (ABC Trial): multicentre randomized double masked study. BMJ. 2010; 340: c2459.
5. Michaelides M, Kaines A, Hamilton R, et al. A prospective randomized trial of intravitreal bevacizumab or laser therapy in the management of diabetic macular edema (BOLT Study). Amer Acad Ophth. 2010 Mar; 117 (6): 1078 – 86.
6. Wells JA, Glassman AR, Ayala AR, et al. Aflibercept, bevacizumab, or ranibizumab for diabetic macular edema. NEJM. 2015 March 26; 372 (13): 1193 – 203.
7. Vedula SS & Krzystolik MG. Antiangiogenic therapy with anti-vascular endothelial growth factor modalities for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2008(2):CD005139. PMID: 18425911 6.
8. Solomon SD, Lindsley K, Vedula SS, et al. Anti-vascular endothelial growth factor for neovascular age-related macular degeneration. The Cochrane database of systematic reviews. 2019 Mar 4; 3: CD005139. PMID: 30834517.
9. Zarbin M, Ding A, Tabano D, et al. Clinical outcomes of diabetic macular edema patients treated with faricimab and aflibercept: a subcohort analysis of 20/50 or worse visual acuity across faricimab phase 3 clinical trials. Presented at: The Professional Society for Health Economics and Outcomes Research Europe Conference in Vienna, Austria. 2022 Nov 6 – 9.
10. Jhaveri CD, Glassman AR, Ferris FL, et al. Aflibercept monotherapy or bevacizumab first for diabetic macular edema. NEJM. 2022 Aug 25; 387: 692 – 703.
11. Kim SJ, Lim JI, Bailey ST, et al. Diabetic retinopathy preferred practice pattern. Ophthalmology. 2025 Feb. Available at: https://www.aao.org/education/preferred-practice-pattern/diabetic-retinopathy-ppp. Accessed on March 27, 2025.
12. Flaxel CJ, Adelman RA, Bailey ST, et al. Retinal vein occlusions preferred practice pattern. Feb 2025. Available at: https://www.aao.org/education/preferred-practice-pattern/retinal-vein-occlusions-ppp. Accessed on March 27, 2025.

Policy History		
#	Date	Change Description
1.7	Effective Date: 06/11/2026	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/05/2025	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.5</td><td>Effective Date: 06/06/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/08/2023</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/06/2023</td><td>New policy. This policy replaces previously approved criteria that was embedded in the Intravitreal Injections for Retinal Conditions Policy which is being split into individual drug policies and retired. The authorization period was updated from up to 1 year to at least 60 days and up to 1 year</td></tr>
<tr><td>1.2</td><td>Effective Date: 03/07/2022</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 02/24/2022</td><td>UM medical management system update for BCBSM and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/09/2021</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Vectibix® (panitumumab)
HCPCS: J9303

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Vectibix is an epidermal growth factor receptor (EGFR) antagonist indicated for the treatment of wild-type RAS metastatic colorectal cancer in combination with FOLFOX for first-line treatment, as monotherapy following disease progression after prior treatment with fluoropyrimidine, oxaliplatin, and irinotecan-containing chemotherapy, and in combination with sotorasib, for the treatment of adult patients with KRAS G12C-mutated mCRC who have received prior treatment with fluoropyrimidine-, oxaliplatin-, and irinotecan-based chemotherapy. Wild-type RAS is defined as wild-type in both KRAS and NRAS as determined by an FDA-approved test. Vectibix is not indicated for the treatment of patients with RAS-mutant mCRC unless used in combination with sotorasib in KRAS G12C-mutated mCRC or for the treatment of patients with mCRC for whom RAS mutation status is unknown.

- The safety and efficacy of Vectibix was demonstrated in three large clinical trials, PRIME, ASPECCT, and CodeBreaK 300. The PRIME study was a multicenter, phase 3 trial where patients with no prior chemotherapy for mCRC and available tissue for biomarker testing were randomly assigned 1:1 to receive Vectibix-FOLFOX4 versus FOLFOX4. KRAS results were available for 93% of the 1,183 patients randomly assigned. In the wild-type (WT) KRAS stratum, Vectibix-FOLFOX4 significantly improved progression free survival (PFS) compared with FOLFOX4. A nonsignificant increase in overall survival was also observed for Vectibix-FOLFOX4 versus FOLFOX4.

- The ASPECCT study was a randomized, multinational, open label, phase 3, head-to-head study that compared Vectibix to Erbitux® in patients with chemotherapy-refractory wild-type KRAS exon 2 metastatic colorectal cancer. The study enrolled and randomly allocated 1010 patients, 999 of whom began study treatment: 499 received Vectibix and 500 received Erbitux. For the primary analysis of overall survival, Vectibix was non-inferior to Erbitux. Median overall survival was 10·4 months with Vectibix and 10·0 months with Erbitux. Vectibix retained 105.7% of the effect of Erbitux on overall survival seen in this study.

- The CodeBreaK 300 study was a randomized, open-label, active-controlled trial of 160 previously treated patients with KRAS G12C-mutated mCRC. Subjects were randomized 1:1:1 to receive Vectibix 6 mg/kg every 2 weeks plus sotorasib 960 mg daily, Vectibix 6 mg/kg every 2 weeks and sotorasib 240 mg daily, or investigator's choice of standard of care consisting of trifluridine/tipiracil or regorafenib. The primary endpoint is progression free survival (PFS). The trial demonstrated a statistically significant improvement in PFS for patients randomized to Vectibix in combination with sotorasib 960 mg compared to the investigator's choice of standard of care. The final analysis of overall survival was not statistically significant.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There are no studies to support use of Vectibix following failure of its use. National Comprehensive Cancer Network 2025 colon cancer guidelines also do not recommend use of Vectibix or any other EGRF antagonist following a previous failure.

References:

1. Vectibix [prescribing information]. Thousand Oaks, CA: Amgen, Inc.; June 2025.
2. National Comprehensive Cancer Network. Colon cancer (Version 5.2025). 2025 Oct 30. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on February 24, 2026.
3. Douillard JY, Siena S, Cassidy J, et al. Randomized, phase III trial of panitumumab with infusional fluorouracil, leucovorin, and oxaliplatin (FOLFOX4) versus FOLFOX4 alone as first-line treatment in patients with previously untreated metastatic colorectal cancer: the PRIME study. J Clin Oncol. 2010 Nov 1; 28 (31): 4697 - 705.
4. Price TJ, Peeters M, K TW, et al. Panitumumab versus cetuximab in patients with chemotherapy-refractory wild-type KRAS exon 2 metastatic colorectal cancer (ASPECCT): a randomized, multicenter, open-label, non-inferiority phase 3 study. Lancet Oncol. 2014; 15: 569 - 79.
5. Fakih MG, Salvatore L, Esaki T, et al. Sotorasib plus panitumumab in refractory colorectal cancer with mutated KRAS G12C. NEJM. 2023 Oct 22; 389: 2125 – 39.

Policy History		
#	Date	Change Description
2.3	Effective Date: 04/16/2026	Updated to include the trial and failure of preferred products statement
2.2	Effective Date: 04/10/2025	Updated to include the new indication for use in combination with sotorasib, for the treatment of adult patients with KRAS G12C-mutated mCRC
2.1	Effective Date: 02/13/2025	Annual review of criteria was performed, no changes were made
2.0	Effective Date: 02/08/2024	Annual review of criteria was performed, no changes were made
1.9	Effective Date: 02/02/2023	Updated approval length to allow for FDA recommended dosing for at least 60 days
1.8	Effective Date: 10/06/2022	Updated approval length to allow for FDA recommended dosing or up to 6 months at a time
1.7	Effective Date: 10/07/2021	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.5</td><td>Effective Date: 10/08/2020</td><td>Annual Review</td></tr>
<tr><td>1.4</td><td>Effective Date: 01/01/2020</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 11/07/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/01/2019</td><td>UM medical management system update for BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 11/01/2018</td><td>Updated criteria per oncology vendor</td></tr>
<tr><td>1.0</td><td>Effective Date: 02/08/2018</td><td>New policy created</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

			Line of Business	**PA Required in Medical Management System (Yes/No)**
			BCBS	No
			BCN	No
			MAPPO	No
			BCNA	No

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Veopoz™ (pozelimab-bbfg)
HCPCS: J9376

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Complement hyperactivation, angiopathic thrombosis, and protein-losing enteropathy (CHAPLE) disease is an ultra-rare, potentially fatal, inherited autoimmune disorder. It is caused by a lack of CD55 protein and the inability to control complement activity. This leads to damaged blood and lymph vessels in the lower GI tract and a loss of protective immune proteins and blood cells. Patients experience abdominal pain, bloody diarrhea, nausea, vomiting, malabsorption, edema, delayed growth, recurrent lung infections, and blood clots.

- Diagnosis of CHAPLE disease is made based on a combination of factors. Patients will exhibit a clinical history of protein-losing enteropathy (PLE) symptoms, such as hypoalbuminemia and hypogammaglobulinemia. Genetic testing must be performed to confirm a biallelic CD55 loss-of-function mutation on the CD55 gene. Furthermore, patients with CHAPLE disease will have extensive lymphangiectasia upon histological assessment of intestinal biopsy samples or resections.

- Supportive care had been the mainstay of treatment and includes anticoagulation therapy, a low-fat medium-chain triglyceride–supplemented diet, supplementation of iron, fat-soluble vitamins, and minerals, use of immunoglobulin replacement therapy for recurrent infections, and albumin infusions. In recent years, Soliris, a C5 complement inhibitor, has been studied and used for CHAPLE disease. It is now considered the treatment of choice due to the results from a clinical trial of 3 patients with CHAPLE disease showing marked clinical improvement with resolution of gastrointestinal symptoms, improved overall well-being, growth, and quality of life, and increases in albumin and total protein levels. In correlation with the clinical improvements, progress was observed in all laboratory outcome parameters including increases in albumin and total protein levels and up to an 80% reduction in membrane attack complex deposition on leukocytes (p-value < 0.001). The progress persisted over 18 months of treatment without any severe adverse events.

- Veopoz is another C5 complement inhibitor indicated for the treatment of adult and pediatric patients 1 year of age and older with CHAPLE disease.

- Safety and efficacy were evaluated in a single-arm study in which patients' outcomes were compared to pre-treatment data in patients with active CHAPLE disease. Patients' diagnoses were based on a clinical history of PLE symptoms and with a confirmed genotype of biallelic CD55 loss-of-function mutation. Active disease was defined as a serum albumin concentration of less than or equal to 3.2 g/dL with one or more of the following signs or symptoms within the last six months: diarrhea, abdominal pain, peripheral edema, or facial edema. Patients received a single 30 mg/kg loading dose of Veopoz administered by intravenous infusion followed by a weekly maintenance subcutaneous injection starting one week after the loading dose. Ten patients ranging from 3 to 19 years of age were assessed for efficacy. All 10 patients achieved a serum albumin concentration of at least 3.5 g/dL by week 12 which was maintained through at least 72 weeks. All 10 patients also demonstrated a reduction in the number of hospitalizations and number of albumin transfusions over the first 48 weeks of treatment as compared to the 48 weeks prior to treatment.

- Veopoz has not been studied and there is no data to support use in combination with other medications used to treat CHAPLE disease, such as, Soliris.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Veopoz [prescribing information]. Tarrytown, NY: Regeneron Pharmaceuticals, Inc.; March 2024.
2. Clinicaltrials.gov. An open-label efficacy and safety study of pozelimab in patients with CD55-deficient protein-losing enteropathy (CHAPLE Disease) (NCT04209634). Available at: https://clinicaltrials.gov/ct2/show/NCT04209634?term=CHAPLE&draw=2&rank=1. Accessed on August 21, 2023.
3. Noris M & Remuzzi G. Overview of complement activation and regulation. Semin Nephro. 2013 Nov; 33 (6): 479 – 92.
4. Ozen A, Comrie WA, Ardy RC, et al. CD55 deficiency, early-onset protein-losing enteropathy, and thrombosis. NEJM. 2017 July 6; 377: 52 – 61.
5. Kurolap A, Eshach-Adiv O, Hershkovitz T, et al. Loss of CD55 in eculizumab-responsive protein-losing enteropathy. 2017 July 6; 377: 87 – 9.
6. Kurolap A, Eshach-Adiv O, Hershkovitz T, et al. Eculizumab is safe and effective as a long-term treatment for protein-losing enteropathy due to CD55 deficiency. J Ped Gastro & Nutrition. 2019 March; 68 (3): 325 – 33.
7. IPD Analytics. Hematology: genetic disorders. 2023. Accessed on August 21, 2023.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/15/2023</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 10/12/2023</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 08/31/2023</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 06/08/2023</td>
<td>Preliminary drug review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Vyjuvek™ (beremagene geperpavec-svdt)
HCPCS: J3401

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Epidermolysis bullosa, or EB, is a rare, inherited connective tissue disorder that causes abnormalities in cohesion of layers of the skin. There are 4 different types of EB, one of which is dystrophic epidermolysis bullosa (DEB) which makes up about 25% of EB cases. DEB can be inherited dominantly or recessively, with recessive cases being the most common and most severe. Patients with dominant DEB have few complications and survive into adulthood, while those with recessive only live to their 3rd or 4th decade, often dying of squamous cell carcinoma or renal failure.

- DEB is caused by mutations in the *COL7A1* gene which codes for Type 7 collagen, whose responsibility is to bind the dermis to the epidermis. In DEB, Type 7 collagen is either reduced or completely absent, creating extremely fragile skin that blisters between the dermis and the epidermis and tears from even the most minor friction or trauma, such as holding a pencil or putting on a shirt. The constant cycle of blistering, wounding, and re-healing that occurs with DEB contributes to complications like infection, debilitating scarring, physical deformities, pubertal or growth delay, anemia, esophageal blistering, spinal fractures, and squamous-cell carcinoma.

- Clinical practice guidelines for laboratory diagnosis of epidermolysis bullosa developed on behalf of the Dystrophic Epidermolysis Bullosa Research Association (DEBRA) International (2020) recommend every patient with an established or suspected diagnosis of EB undergo genetic testing (level of evidence 2++, grade of recommendation B). Skin biopsy of an induced blister with immunofluorescence mapping (IFM) and/or transmission electron microscopy (TEM) may also be useful in the diagnosis of EB; however, with DEB, particularly in mild cases, the results of these tests may not deliver a useful result and genetic testing documenting the presence of mutations in the *COL7A1* gene would be required to deliver the final diagnosis.

- The goal of treatment is to promote wound healing, prevent infection and other complications, and protect the skin. Prior to the FDA approval of DEB therapies, there were no approved treatments for any form of EB. Management has historically been supportive, involving a multidisciplinary team that includes wound care, infection and pain control, nutritional support, and prevention and treatment of complications.

- A consensus statement from the European Reference Network for Rare Skin Diseases on the practical management of EB (2021) and an international consensus on best practice guidelines for skin and wound care in EB from Wounds International (2017) regard wound care as the cornerstone of treatment for EB patients. Skin and wound assessments should be undertaken regularly and management tailored to suit both the type of EB and the specific characteristics of the wound, as well as the needs and preferences of the patient. Regular follow up on patient and caregiver adherence to treatment should also be performed with adaptation of the care plan to meet the patient's needs and preferences, as needed.

    - Malnutrition, anemia, pruritis, and pain can compromise a patient's ability to heal; therefore, these conditions should be treated appropriately to optimize long-term wound healing and minimize further skin damage and trauma.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - Atraumatic dressings should be utilized to prevent blistering and skin and wound bed damage. Dressing examples include polymeric membrane, super-absorbent, soft silicone mesh or foam, lipido-colloid, foam, and keratin. Most dressings should be changed every 1 to 3 days unless otherwise noted by the manufacturer or required by the patient's individual needs.

  - Preventative measures to avoid and/or reduce blister formation should also be enforced, such as padding trauma-exposed sites, avoidance of tight clothing, choosing suitable footwear with appropriate insoles and/or orthotics. Any intact blisters should be lanced and drained as they are not self-limiting.

  - Wound management in DEB must also address infection, critical colonization, and protection from additional trauma. Bacterial burden can be controlled by systemic or topical therapies.

  - Healing rate of wounds should be monitored by checking advancement of the wound edges. A reduction of 20-40% in 2 to 4 weeks may predict healing by 12 weeks. Pain and itch reduction and resolution of infection should also be evaluated.

- Recently approved treatments for DEB include topical gene therapy Vyjuvek for the treatment of wounds in patients with DEB and mutations in the *COL7A1* gene, Filsuvez®, a topical gel that promotes general wound healing of DEB-associated wounds, and Zevaskyn™, an autologous cell sheet-based gene therapy for the treatment of wounds in adults and pediatric patients with RDEB. All three products work locally to heal open skin wounds and do not treat extracutaneous manifestations of DEB; therefore, supportive and palliative care will continue to remain essential even in patients receiving treatment with FDA-approved therapies.

- Vyjuvek was approved by the FDA for the treatment of wounds in adult and pediatric patients with DEB with mutations in the *COL7A1* gene. It was the first FDA-approved treatment for any type of EB, and the first non-invasive, topical, and redosable gene therapy approved by the FDA. Unlike most other gene therapies, including Zevaskyn, Vyjuvek is "off-the-shelf", meaning therapy does not need to be made from the patient's own cells so the patient does not have to wait for the drug to be manufactured prior to initiating therapy. Because Vyjuvek works locally at the site of application, it should be used in addition to standard of care wound management and supportive/palliative care for DEB. The use of Vyjuvek has not yet been addressed by any guidelines or consensus statements.

- Vyjuvek utilizes an engineered herpes simplex virus vector virus to deliver two copies of functional *COL7A1* genes to affected cells when applied directly to the wound. Upon application, the patient's skin cells take up the genetic code housed in the vector virus and use it to produce functional COL7A1 protein. This protein assembles into anchoring fibrils, or Type 7 collagen, which holds the dermis and epidermis together to prevent and minimize blister formation between the skin layers.

- The safety and effectiveness of Vyjuvek was established primarily in the Phase III, multicenter, randomized, double-blind, placebo-controlled, intra-patient GEM-3 trial. Eligible patients were required to have a clinical diagnosis of DEB, characterized by blistering, wounds, and scarring, and confirmed by genetic testing. Patients were also required to have two cutaneous wounds similar in size, appearance, and anatomical regions. One wound from each pair was treated with Vyjuvek and the other treated with placebo. Wound sites with current evidence or history of squamous-cell carcinoma or active infection were excluded as sites for application of Vyjuvek or placebo.

  - Of the 31 patients enrolled in the trial, one had a dominant DEB genotype while the remaining 30 had a recessive DEB genotype. The age of the trial population ranged from 1 year to 44 years old.

  - Patients were randomized to once-weekly treatment with Vyjuvek or placebo until wound closure over a 6-month treatment period. Once a wound closed, product application was omitted, but if a healed wound reopened at any point in the study, then weekly application was resumed.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

  - The primary efficacy endpoint was complete wound healing at weeks 22 and 24, or weeks 24 and 26, defined as 100% wound closure from exact wound area at baseline evaluated at two consecutive visits two weeks apart. Efficacy was further supported by the secondary endpoint of complete wound healing at weeks 8 and 10 or weeks 10 and 12.

  - Vyjuvek met its primary endpoint, with 65% of Vyjuvek-treated wounds achieving complete wound healing at 6 months compared to only 26% of placebo-treated wounds (p=0.012). Secondary endpoint was also met, with 68% of Vyjuvek-treated wounds achieving complete wound healing at weeks 8 and 10 or weeks 10 and 12 compared to 23% of placebo-treated wounds (p=0.003).

- Vyjuvek gel must be prepared at the pharmacy by mixing the Vyjuvek biological suspension into the excipient gel for immediate use within 8 hours of mixing at room temperature. If immediate use is not possible, administration syringes containing the reconstituted gel can be kept for up to 48 hours at a temperature of 35.6° to 46.4° F. Application should be performed by a healthcare professional, patient, or caregiver either at a healthcare professional setting (e.g., clinic) or at a home setting. The gel should be applied to wounds until they are completely closed before selecting new wounds to treat. Should previously treated wounds re-open, their weekly treatment should be prioritized per the prescribing information.

- Additional gene and cell therapies are in development for the treatment of DEB. At present, there is no literature to support combination use of multiple gene therapies for the treatment of DEB.

- Provider portals are used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence

References:

1. UpToDate, Waltham, MA. (Accessed on November 1, 2022).
2. Denyer J, Pillay E, Clapham J. Best practice guidelines for skin and wound care in epidermolysis bullosa. An International Consensus. Wounds International, 2017. Available at: https://af13d689-15eb-4199-8733- e91a7bb8ae3f.usrfiles.com/ugd/af13d6_01ed147ab87e49c584c20a917c47f19f.pdf.
3. Guide SV, Gonzalez ME, et al. Trial of Beremagene Geperpavec (B-VEC) for Dystrophi Epidermolysis Bullosa. N Engl J Med 2022; 387:2211-9.
4. Has C, Bauer JW, et al. Consensus reclassification of inherited epidermolysis bullosa and other disorders with skin fragility. Br J Dermatol. 2020 Oct;183(4):614-627. doi: 10.1111/bjd.18921. Epub 2020 Mar 11. PMID: 32017015.
5. Has C, El Hachem M, Buckova H, et al. Practical management of epidermolysis bullosa: consensus clinical position statement from the European Reference Network for Rare Skin Diseases. J Eur Acad Derm Venereol. 2021;35:2349-2360.
6. Has C, Liu L, et al. Clinical practice guidelines for laboratory diagnosis of epidermolysis bullosa. Br J Dermatol (2020); 182: 574-592.
7. IPD Analytics. Payer & Provider Insights. April 2025. Accessed April 30, 2025. https://www.ipdanalytics.com.
8. Marinkovich MP, Gonzalez ME, et al. (2022, March 25-29). GEM-3: A Phase 3 Study of Beremagene Geperpavec (B-VEC), an Investigational Topical Gene Therapy, for the Treatment of Dystrophic Epidermolysis Bullosa (DEB). 2022 American Academy of Dermatology Annual Meeting. Boston, MA, United States. https://ir.krystalbio.com/static-files/bb74b04e-7e3d-44f8-afda-5469a3cf16b4
9. Murrell DF. Overview of the management of epidermolysis bullosa. In: UpToDate. Shefner JM (Ed), UpToDate, Waltham, MA. (Accessed on November 1, 2022).
10. Vyjuvek [prescribing information]. Krystal Biotech, Inc.: Pittsburgh, PA; September 2025.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 07/21/2025

P&T Date: 06/05/2025</td><td>Added criteria requiring provision of clinical outcome information within the appropriate provider portal</td></tr>
<tr><td>1.4</td><td>Effective Date: 06/06/2024</td><td>Added criteria requiring attestation of adherence to standard wound care measures and prevention of concomitant use with other DEB gene therapies</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/14/2023</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 08/10/2023</td><td>New policy. This criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 06/15/2023</td><td>UM medical management system update for BCN and BCBS
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/01/2022</td><td>Preliminary drug review</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Wainua™ (eplontersen)
HCPCS: J3490

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- In ATTR, TTR misfolds, causing it to aggregate into amyloid fibrils that accumulate in organs, nerves, and tissues. The buildup of these amyloid deposits results in progressive dysfunction at the site of deposition. Amyloid deposition can occur in the heart, gastrointestinal tract, kidneys, thyroid, salivary glands, eyes, peripheral nervous system, and central nervous system. The phenotype is driven by deposition site and may be predominantly cardiac, neurologic, or mixed.

- There are two types of ATTR: hereditary (hATTR), or variant, which is due to inherited mutations of the TTR gene that cause misfolding of the tetramer subunits, and wild-type, which occurs in the presence of a normal TTR gene, is typically associated with aging, and is most often diagnosed in men 65 years and older. In wild-type ATTR, TTR typically only deposits in the heart and manifests as cardiac symptoms. hATTR, in contrast, may be predominantly neuropathic, cardiomyopathy, or a mixed phenotype characterized by both

- ATTR is the most common form of hereditary amyloidosis. Approximately 120 different mutations or gene deletions have been identified in the TTR gene, with Val30Met as the most prevalent in the world.

- hATTR with polyneuropathy (hATTR-PN) is the most common neurologic manifestation. Without treatment, patients will have progressive neuropathy and disability ultimately resulting in death within 10-15 years of disease onset.

- Patients with hATTR-PN may present with peripheral neuropathy (sensory and motor; tingling or increased pain in the hands, feet and/or arms, loss of feeling in the hands and/or feet, numbness or tingling in the wrists, carpal tunnel syndrome, loss of ability to sense temperature, difficulty with fine motor skills, weakness in the legs, difficulty walking), autonomic neuropathy (e.g., orthostasis, abnormal sweating, dysautonomia [constipation and/or diarrhea, nausea, vomiting, anorexia, early satiety]), GI impairment, cardiomyopathy, nephropathy, or ocular deposition. Most hATTR-PN cases, however, are classified as neuropathic.

- Amyloid deposition induces a length-dependent peripheral neuropathy beginning in the lower limbs with symptoms like toe discomfort due to numbness and spontaneous pain. Continued aggregation of amyloid on the nerve fibers contributes to sensory loss extending upwards toward the proximal lower limbs as motor deficits and impaired sensations occur. Walking becomes increasingly difficult as balance and gait are affected. Neuropathic pain transitions to a burning sensation worsening at night. Over time, sensory deficit extends to the upper limbs, forearms, fingers and trunk and motor deficit follows with the same length dependent progression. At this stage, potentially life-threatening autonomic dysfunction is present manifesting as orthostatic hypotension, anhidrosis, neurogenic bladder, disturbances of gastrointestinal motility, and sexual impotence.

- Cardiac disease may occur in approximately 50% of patients with hATTR-PN. Ocular involvement is also common, including vitreous opacity, dry eye, glaucoma, and pupillary disorder.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- A rarer presentation of hATTR is leptomeningeal and meningovascular amyloidosis, often with concomitant vitreous opacity (oculoleptomeningeal amyloidosis). A number of mutations have reportedly been linked to this type of hATTR, though it may also manifest in more advanced cases of Val30MET hATTR-PN.
    - Central nervous system symptoms include stroke, subarachnoid hemorrhage, dementia, ataxia, seizures, and sensorineural hearing loss.
    - The source of mutant TTR in (oculo)leptomeningeal and meningovascular amyloidosis is thought to be the choroid plexus and retinal cells versus the liver. As such, ocular and meningovascular manifestations are commonly seen after liver transplantation because the source of mutant TTR is left unaffected.
    - To date, no treatments have been proven to be beneficial for the treatment of (oculo)leptomeningeal and meningovascular amyloidosis.
- The 2013 guideline of transthyretin-related hereditary amyloidosis for clinicians recommends that the most reliable diagnostic approach involves genetic testing and tissue biopsy to confirm the presence of active amyloid formation. Genetic testing is needed to document the TTR gene mutations; if testing is normal, a diagnosis of hATTR is excluded.
- Options for treatment of hATTR are limited. Treatment strategies for hATTR include depletion of the source of mutant TTR, inhibiting TTR formation, stabilizing the TTR molecule from dissociating, and therapy directed at removing the amyloid deposits. Regardless of the choice of treatment, the 2013 guidelines and expert opinion from a panel of experts (2024) recommend initiation as soon as possible after diagnosis to slow or halt disease progression. The best outcomes have been shown in patients diagnosed at younger ages and/or without advanced disease.
- For hATTR-PN, our best treatment option historically had been orthoptic liver transplant, which removes the source of mutant TTR and was considered the gold standard for hATTR-PN treatment early in the course of disease. In hATTR-PN, the liver is the primary source of mutant TTR; transplantation eliminates approximately 95% of the production of mutant TTR and may slow or halt disease progression outside of the brain and/or eyes, though nerve function rarely improves post-transplant. Transplant does not effectively prevent cardiomyopathy, however, and is not recommended for patients with late stage hATTR-PN or leptomeningeal disease. With later stages of hATTR-PN and cardiomyopathy, there are concerns of disease progression due to deposition of wild-type TTR from the transplanted liver on the preexisting amyloid from the variant TTR.
- Numerous disease-modifying therapeutics are now available for hATTR-PN, including Amvuttra® (vutrisiran), Onpattro® (patisiran), and Wainua® (eplontersen). Guidelines have not yet been updated to include Amvuttra, Onpattro, and Wainua specifically; however, they do note that early detection is critical and patients with early-stage disease should be treated with any approved drugs as they become available and as the patient's disease state meets drug indications, independent of liver transplant plans.
- Amvuttra, Onpattro, and Wainua are FDA-approved for the treatment of polyneuropathy of hereditary transthyretin-mediated amyloidosis in adults. Of these products, only Wainua has a formulation (prefilled autoinjector) that is FDA approved to be administered by the patient or caregiver; a healthcare provider is required for administration of Amvuttra and Onpattro per the approved labeling, as well as for the Wainua prefilled syringe. To date, there is no literature supporting the use of one product over another, nor is there support for the use of any of these products together or in combination with other therapies approved for ATTR (e.g., tafamidis [Vyndamax® and Vyndaqel®], acoramidis [Attruby®]). The 2024 expert opinion does not offer recommendations on choice of specific treatment due to the lack of direct comparison trials and advises that clinicians consider the efficacy and safety considerations, in addition to any comorbidities and personal preferences around ease of use for an individual patient.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Wainua is a ligand-conjugated antisense oligonucleotide (LICA) directed at TTR. It works by binding to and degrading TTR messenger RNA (mRNA) in the liver to prevent the production of TTR protein. Preventing TTR protein synthesis in the liver can help reduce the accumulation of amyloid deposits in peripheral nerves. Wainua works most similarly to Tegsedi, though it is thought to be engineered to be better at entering the liver which is the primary source of TTR.

    - In the pivotal Phase III NEURO-TTRansform trial, patients treated with Wainua demonstrated consistent and sustained benefit on co-primary endpoints of serum TTR concentration and neuropathy impairment measured by the modified Neuropathy Impairment Score +7 (mNIS+7), and key secondary endpoint of quality of life (QoL) on the Norfolk Quality of Life Questionnaire-Diabetic Neuropathy (Norfolk QoL-DN). The benefit of Wainua was demonstrated across the spectrum of hATTR-PN at 35, 66, and 85 weeks.

    - In clinical trials, Wainua was only evaluated in patients with a baseline familial amyloid polyneuropathy (FAP) or Coutinho stage of 1 or 2. The FAP or Coutinho stage (stage 0-3) assesses the patient's level of ambulation and the severity/progression of neuropathy; stage 1 signifies ambulatory without assistance, and stage 2 is ambulatory with assistance. Wainua was not evaluated in patients with baseline FAP or Coutinho stage 3, which designates patients with late-stage, significantly advanced disease who are wheelchair-bound or bedridden; therefore, clinical trials do not support use in this patient population with advanced disease.

        - The Polyneuropathy disability (PND) scoring system may also be used to classify hATTR-PN progression. This score focuses on the patient's walking ability, and scores range from 0 – IV. A PND score <IIIb equates to a FAP or Coutinho stage of 1 or 2, and a PND score of IV is considered equivalent to FAP or Coutinho stage 3.

    - Patients who were receiving treatment with any approved drug for hATTR or off-label use of diflunisal or doxycycline, and those who had been previously treated with Onpattro or other oligonucleotide or RNA therapeutics were excluded from the clinical trial, as were those with a history of liver transplant or NYHA functional classification of ≥3. There is no literature to support that patients who received a liver transplant would experience benefit from treatment with Wainua as they would not be expected to produce mutated TTR post-transplant.

- Additionally, there are no published clinical trials evaluating safety or efficacy of Wainua for the treatment of any condition other than hATTR-PN, and data is limited at this time on the effect of Wainua on other end organ dysfunction related to the underlying amyloidosis (i.e., cardiovascular outcomes).

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Wainua [prescribing information]. Wilmington, DE: AstraZeneca Pharmaceuticals; April 2026.
2. Ando Y, Coelho T, Berk JL, et al. Guideline of transthyretin-related hereditary amyloidosis for clinicians. Orphanet Journal of Rare Diseases. 2013;8:31. Doi: 10.1186/1750-1172-8-31.
3. Sekijima Y, Yoshida K, Tokudo T, et al. Familial Transthyretin Amyloidosis. Gene Reviews [internet]. Available at: https://www.ncbi.nlm.nih.gov/books/NBK1194/. Accessed February 21, 2022.
4. IPD Analytics. Payer & Provider Insights. December 2023. Accessed December 27, 2023. https://www.ipdanalytics.com.
5. IPD Analytics. The Evolving Treatment Paradigm of Transthyretin-Related Amyloidosis. November 2021. Accessed February 21, 2022. https://www.ipdanalytics.com
6. Coelho T, Marques W, et al. Eplontersen for Hereditary Transthyretin Amyloidosis with Polyneuropathy. JAMA. 2023; 330(15): 1448-1458.
7. Karam C, et al. Diagnosis and treatment of hereditary transthyretin amyloidosis with polyneuropathy in the United States: Recommendations from a panel of experts. Muscle Nerve. 2024 Mar;69(3):273-287. doi: 10.1002/mus.28026. Epub 2024 Jan 4. PMID: 38174864.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 07/27/2026

Effective Date: 06/11/2026</td><td>Added criteria requiring that the member must self-administer unless clinically unable to do so to accommodate newly approved prefilled syringe formulation under medical benefit</td></tr>
<tr><td>1.3</td><td>Effective Date: 04/27/2026</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 06/05/2025</td><td>Reworded diagnosis criteria for clarity to align with approved labeling
Removed criteria preventing use with previous liver transplant to align with management for other ATTR therapies</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.1</td>
<td>Effective Date: 03/01/2024</td>
<td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td>
</tr>
<tr>
<td>1.0</td>
<td>Effective Date: 02/08/2024</td>
<td>New policy.
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Waskyra™ (etuvetidigene autoemcel)
HCPCS: J3386

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Wiskott-Aldrich syndrome (WAS) is a rare X-linked disorder caused by a mutation on the WAS gene. It is characterized by a dysfunctional WAS protein resulting in thrombocytopenia. The disease occurs almost exclusively in males.

- The symptoms of WAS typically begin in infancy and include bloody diarrhea, abnormal bleeding episodes, petechia, eczema, and recurrent ear infections. Thrombocytopenia), in association with small platelet size, is usually present at birth, but platelet counts may initially be near normal. Intracranial bleeding is a possible life-threatening complication. Children with WAS have an increased risk for recurrent bacterial and viral infections. Autoimmune disorders are also common in those who survive and include hemolytic anemia, arthritis, vasculitis, and kidney and liver damage. The risk for developing an autoimmune disorder increases with age. In addition, there is an increased risk of developing lymphomas, especially after exposure to Epstein-Barr virus.

- The 2015 practice parameter for the diagnosis and management of primary immunodeficiency state WAS should be suspected in all male patients with clinically significant thrombocytopenia and small platelets with platelet volumes ranging from 3.8 fL to 5.0 fL For a definitive molecular diagnosis, finding a known deleterious WAS mutation and/or abnormal WAS protein expression is necessary.

- A disease scoring system has been created that allows for clinical categorization of patients with WAS and may be useful in predicting disease severity and outcome of hematopoietic stem cell transplantation (HSCT). A score of 1 or 2 defines patients with X-linked thrombocytopenia (XLT), a score of 3 to 4 identifies patients with classic WAS, and a score of 5 is reserved for patients with either XLT or WAS after developing autoimmunity and/or malignancies. The clinical phenotype of the disease evolves over time and is often incomplete in males younger than two years of age. Because of this, WAS scores should not be used during infancy to predict disease severity. An established WAS score describes current disease severity and does not reflect the possibility of disease progression to a more severe form.

- Guidelines recommend HSCT be seriously considered for patients less than 5 years of age with suitable stem cell donors. If no stem cell donor is available, patients should be treated with supportive care including prophylaxis against PCP and appropriate antimicrobial therapy for infections, intravenous immunoglobulin, routine childhood immunizations, and treating eczema with topical steroid therapy. Treatment of significant bleeding sometimes includes platelet transfusions.

- Waskyra is the first disease modifying therapy approved for the treatment of pediatric patients aged 6 months and older and adults with WAS who have a mutation in the WAS gene for whom HSCT is appropriate and no suitable human leukocyte antigen (HLA)-matched related stem cell donor is available.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Safety and efficacy of Waskyra were evaluated in two clinical studies, study 1 and study 2, as well as an expanded access program. Study 1 was a prospective, open-label, single-arm trial of 8 patients with WAS that compared efficacy of Waskyra fresh formulation compared to 12 month pre-treatment outcomes. Study 2 is an ongoing, open-label, single-arm trial of 10 patients with WAS that is evaluating the efficacy of Waskyra cryopreserved formulation compared to 12 month pre-treatment outcomes. Subjects must have had a genetic mutation confirming diagnosis of WAS with at least one of the following: absence of WAS protein expression; a WAS clinical score greater than or equal to 3; or a severe WAS mutation. Participants did not have a matched HLA-identical sibling donor. Following treatment with rituximab and a reduced-intensity conditioning regimen of busulfan and fludarabine, patients received one intravenous infusion of Waskyra. The primary endpoints were the rate of severe infections during the 6 to 18 month period after Waskyra infusion compared with the 12-month pre-treatment period, and the rate of moderate or severe bleeding episodes during the 12-month period after Waskyra infusion compared with the 12-month pre-treatment period. The rate of severe infections decreased from 2.0 (95% CI: 1.50, 2.61) infections per patient year observation (PYO) in the 12 months pre-treatment period to 0.2 (95% CI: 0.04, 0.40) per PYO infections in 6 - 18 months post-gene therapy. The rate of moderate and severe bleeding events decreased from 2.0 (95% CI: 1.50, 2.61) events per PYO in the 12 months pre-treatment to 0.8 (95% CI: 0.49, 1.22) events per PYO in the 12 months after treatment

- Waskyra has not been studied and there is no data to support use in combination with other gene therapies indicated for use in WAS.

- Provider portal platforms allow the capture of clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Waskyra [prescribing information]. Rome, Italy: Fondazione Telethon ETS; December 2025.
2. Clinicaltrials.gov. A clinical study to evaluate the use of a cryopreserved formulation of OTL-103 in subjects with wiskott-aldrich syndrome (NCT03837483). Available at: https://clinicaltrials.gov/study/NCT03837483. Accessed on December 11, 2025.
3. Clinicaltrials.gov. Gene therapy for wiskott-aldrich syndrome (NCT01515462). Available at: https://clinicaltrials.gov/study/NCT01515462. Accessed on December 11, 2025.
4. Ferrua F, Cicalese MP, Galimbert S, et al. Lentiviral haemopoietic stem/progenitor cell gene therapy for treatment of Wiskott-Aldrich syndrome: interim results of a non-randomised, open-label, phase 1/2 clinical study. Lancet Haematol. 2019 Apr 10; 6 (5): e239 – 53.
5. National Organization for Rare Disorders. WAS-related disorders. 2008 Feb 15. Available at: https://rarediseases.org/rare-diseases/was-related-disorders/. Accessed on December 11, 2025.
6. Bonilla FA, Khan DA, Ballas ZK, et al. Practice parameter for the diagnosis and management of primary immunodeficiency. J Allergy Clin Immunol. 2015 Sept 12; 136 (5): 1186 – 205.
7. Cavannaugh C, Ochs HD, & Buchbinder D. Diagnosis and clinical management of Wiskott–Aldrich syndrome: current and emerging techniques. Exp Rev Clin Immunol. 2022 May 19; 18 (6): 609 – 23.
8. Imai K, Morio T, Zhu Y, at al. Clinical course of patients with WASP gene mutations. Blood. 2004 Jan 15; 103 (2): 456 – 64.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

9. Albert MH, Notarangelo LD, & Ochs HD. Clinical spectrum, pathophysiology and treatment of the Wiskott-Aldrich syndrome. Curr Opin Hematol. 2011 Jan; 18 (1): 42 - 8.
10. Ochs HD & Thrasher AJ. The Wiskott-Aldrich syndrome. J Allergy Clin Immunol. 2006 April; 117 (4): 725 – 38.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2026</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 01/15/2026</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 12/22/2025</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Xenpozyme™ (olipudase alfa-rpcp)
HCPCS: J0218

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Acid sphingomyelinase deficiency (ASMD) is an autosomal recessive lysosomal storage disorder caused by a mutation on the sphingomyelin phophodiesterase-1 (SMPD1) gene. It is characterized by accumulation of undegraded sphingomyelin in the spleen, liver, lungs, bone marrow, and brain due to a deficiency or insufficient activity of the enzyme ASM. Symptoms may include lack of muscle coordination, brain degeneration, learning problems, loss of muscle tone, increased sensitivity to touch, spasticity, feeding and swallowing difficulties, slurred speech, and an enlarged liver and spleen. ASMD is also known as Niemann-Pick disease (NPD) types A and B. NPD type C is now considered a separate disorder, distinct from NPD types A and B.

- ASMD is broken down into two subgroups, neuronopathic (type A) and non-neuronopathic (type B). Type A generally causes severe neurodegenerative disease during infancy, while type B is generally not considered to be a neurologic disease. There are cases thazt fall in between these two classifications and are referred to as type A/B. Xenpozyme has only been studied in patients with type A/B or type B disease so use should be reserved for patients who fall into those two subgroups.

- The American College of Medical Genetics 2011 guidelines state ASMD is confirmed through identifying reduced ASM activity in peripheral leukocytes or skin fibroblasts of less than 10% of normal and through genetic testing that shows the patient has two pathogenic mutations of the SMPD1 gene.

- Xenpozyme has only been studied in patients experiencing symptoms of non-neuronopathic disease. Adults with a DLco of less than or equal to 70% of the predicted normal value and a spleen volume greater than or equal to 6 times the normal (MN) measured volume by MRI and pediatric patients with a spleen volume greater than or equal to 5 MN measured by MRI were included in clinical trials. As these are the patients who have shown benefit with treatment and there is no data to support use in those without these symptoms, Xenpozyme should be limited to those with similar clinical markers.

References:

1. Xenpozyme [prescribing information]. Cambridge, MA: Genzyme Corporation; December 2024.
2. Wasserstein M, Lachmann R, Hollak C, et al. A randomized, placebo-controlled clinical trial evaluating olipudase alfa enzyme replacement therapy for chronic acid sphingomyelinase deficiency (ASMD) in adults: one-year results. Genet Med. 2022; 24: 1425 – 36.
3. Diaz GA, Jones SA, Scarpa M, et al. One-year results of a clinical trial of olipudase alfa enzyme replacement therapy in pediatric patients with acid sphingomyelinase deficiency. Genet Med. 2021 Aug; 23 (8): 1543 - 50.
4. National Organization of Rare Disorders. Acid sphingomyelinase deficiency. 2019. Available at: https://rarediseases.org/rare-diseases/acid-sphingomyelinase-deficiency/. Accessed on September 2, 2022.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

5. McGovern MM, Dionisi-Vici C, Giugliani R, at al. Consensus recommendation for a diagnostic guideline for acid sphingomyelinase deficiency. Genet Med. 2017 Sep; 19 (9): 967 - 74.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 10/09/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/03/2024</td><td>Annual review – no changes to the criteria at this time</td></tr>
<tr><td>1.2</td><td>Effective Date: 10/12/2023</td><td>Updated to remove prescriber requirement</td></tr>
<tr><td>1.1</td><td>Effective Date: 11/01/2022</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 10/06/2022</td><td>New policy
UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Yartemlea® (narsoplimab-wuug)
HCPCS: J1289

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Hematopoietic stem-cell transplantation–associated thrombotic microangiopathy (HSCT-TMA), also known as transplant-associated TMA, is a potentially fatal complication of HSCT. Disease pathogenesis is related to endothelial injury, which may be incited by factors that damage the endothelium and possible abnormalities of the alternative complement pathway. Damage to the endothelium can be caused by calcineurin inhibitors (CNI), chemotherapy, graft versus host disease (GVHD), total body irradiation, and/or infections. Several risk factors for the development of HSCT-TMA have been described including older age, female sex, advanced primary cancer disease, unrelated donor transplants, high-dose busulfan conditioning regimens, human leukocyte antigen (HLA) mismatch, nonmyeloablative transplants, total body irradiation, CNI use, mammalian (mechanistic) target of rapamycin (mTOR) inhibitor use in conjunction with CNI use, acute GVHD, and infection.

- HSCT-TMA usually develops within the first 100 days after transplantation but may have a later onset in some patients. Patients typically present with microangiopathic hemolytic anemia along with thrombocytopenia, an elevated serum lactate dehydrogenase (LDH) level, and the presence of schistocytes on the peripheral blood smear. Serum haptoglobin is often low but may be normal or elevated in some patients. Kidney manifestations include an acute or subacute rise in the serum creatinine concentration and a urinalysis that may be relatively normal or show variable proteinuria and/or hematuria. Hypertension is often present.

- HSCT-TMA can range from a mild, self-limited form to severe, uncontrolled disease that frequently results in death. The reasons for this variation in disease severity are unclear but may be related to factors involving the recipient, the donor, or inciting events such as infections. In most patients, the hematologic abnormalities eventually resolve, although hypertension and chronic kidney disease (CKD) usually persist. Some patients progress to end-stage kidney disease (ESKD). Other patients may develop multiorgan involvement including pulmonary hypertension, polyserositis, gastrointestinal symptoms, and central nervous system injury.

- Diagnosis should be suspected in HSCT recipients who present with one or more of the following: elevated serum LDH level; elevated serum creatinine; new-onset or increasing proteinuria; hypertension that is out of proportion to what would be expected from CNI and glucocorticoid therapy or volume overload; and/or a sudden requirement for more transfusion support than previously needed to maintain stable blood cell and platelet counts. There is no current standard definition of HSCT-TMA; however, the 2005 Blood and Marrow Transplant Clinical Trials Network Toxicity Committee proposed an operational definition that includes the following: red blood cell fragmentation with greater than 2 schistocytes per high-power field on peripheral smear; concurrent increased serum lactate dehydrogenase above institutional baseline; concurrent renal and/or neurologic dysfunction without other explanations, where renal dysfunction is defined as either a doubling of serum creatinine from baseline, where baseline is the creatinine taken before hydration and just before initiation of the conditioning regimen, or a 50% decrease in creatinine clearance from baseline; and negative direct and indirect Coombs test results. In cases in which the diagnosis is uncertain based upon clinical findings, a kidney biopsy may be helpful to establish the diagnosis although the ability to perform a kidney biopsy is often limited by the presence of thrombocytopenia.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- There are no treatment guidelines for HSCT-TMA. The optimal approach to treatment is not known. Management is largely supportive and focuses on the management of hypertension and transfusion support as appropriate. Patients with hypertension should receive antihypertensive agents to control blood pressure. The optimal antihypertensive agent is unclear; however, in patients with proteinuria, use of angiotensin-converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARB) would be most appropriate. Discontinuation of CNIs and/or sirolimus is not generally recommended since there is no evidence that discontinuing these agents is clearly beneficial to patients with HSCT-TMA and increase the risk of GVHD. However, in patients who present with acute kidney injury (AKI), it may be beneficial to withdraw or reduce the dose of CNI and/or sirolimus if no other underlying cause for HSCT-TMA can be identified and the blood CNI level is higher than expected. If the decision is made to withdraw the CNI and/or sirolimus, replacement with mycophenolate mofetil with or without glucocorticoids may be reasonable. Other replacement options include interleukin (IL) 2 receptor antagonists.
- In patients with severe HSCT-TMA with kidney, cardiac, or pulmonary involvement that progresses in spite of general supportive measures, potential therapeutic options include Rituxan®, Soliris®, and Defitelio®. Evidence to support their efficacy is limited to mostly small observational studies and use of these agents should be considered on a case-by-case basis as none of these medications are indicated for use in HSCT-TMA. In patients with severe, progressive HSCT-TMA with multiorgan involvement who have evidence of complement activation, Soliris would be the preferred option. Rituxan should be considered in patients with primarily kidney involvement and no evidence of complement activation. Defitelio should be reserved for patients who do not respond to either Soliris or Rituxan.

- Yartemlea is a MASP-2 inhibitor indicated for the treatment of adult and pediatric patients 2 years of age and older with hematopoietic stem cell transplant-associated thrombotic microangiopathy (HSCT-TMA).

- Safety and efficacy of Yartemlea were evaluated in the TA-TMA trial, a single-arm, open-label study in 288 adults with HSCT-TMA. The results were supported by additional data from an expanded access program (EAP) of 19 evaluable adult and pediatric patients aged 2 years and older. In the TA-TMA study, 24 patients received 4 mg/kg Yartemlea once weekly and 4 patients received 370 mg Yartemlea once weekly. The median number of Yartemlea administrations received by the 28 TA-TMA trial patients plus the 19 EAP patients was 8 (range: 2 - 34) with a median duration of therapy of 8 weeks (range: 2 - 16 weeks). Study patients had a confirmed diagnosis of HSCT-TMA when meeting all of the following for a period greater than or equal to 2 weeks after modification or discontinuation of CNI therapy or greater than or equal to 30 days after transplantation: platelet count less than 150 x 10^9/L; evidence of microangiopathic hemolysis defined by the presence of schistocytes, serum lactate dehydrogenase (LDH) above the ULN, or haptoglobin below the lower limit of normal; and kidney dysfunction defined as a doubling of serum creatinine from pretransplant. The primary endpoint was based on HSCT-TMA response defined as improvement in both LDH and platelet counts and either improvement in organ function or independence from transfusions. Improvement in platelet count when patients had a baseline count of less than or equal to 20,000/µL was defined as greater than or equal to a 3-fold increase in platelet count, post-baseline platelet count greater than 30,000/µL, and no platelet transfusions within 2 days prior to the platelet count assessment. Improvement in platelet count when patients had a baseline count of greater than or equal to 20,000/µL was defined as greater than or equal to a 50% increase in platelet count, platelet count greater than 75,000/µL, and no platelet transfusions within 2 days prior to the platelet count assessment. To meet LDH improvement criteria, LDH levels were required to be less than 1.5 times the upper limit of normal. In the TA-TMA study and the EAP, HSCT-TMA response was achieved in 17/28 (60.7%) and 13/19 (68.4%) patients, respectively. Across the TA-TMA study and the EAP, 100-day survival from the time of HSCT-TMA diagnosis was 73% (95% CI: 52, 86) and 74% (95% CI: 48, 88) respectively.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Yartemlea [prescribing information]. Seattle, WA: Omeros Corporation; December 2025.
2. Businesswire.com. FDA approves Omeros' Yartemlea – first and only therapy indicated for TA-TMA. 2025 Dec 24. Available at: https://www.businesswire.com/news/home/20251224065139/en/FDA-Approves-Omeros-YARTEMLEA-First-and-Only-Therapy-Indicated-for-TA-TMA. Accessed on January 5, 2026.
3. Khaled SK, Claes K, Goh YT, et al. Narsoplimab, a mannan-binding lectin-associated serine protease-2 inhibitor, for the treatment of adult hematopoietic stem-cell transplantation–associated thrombotic microangiopathy. J Clin Oncol. 2022 April 19; 40 (22): 2447 – 57.
4. Chapin J, Shore T, Forsberg P, et al. Hematopoietic transplant-associated thrombotic microangiopathy: case report and review of diagnosis and treatments. Clin Adv Hem Onc. 2014 Sept; 12 (9): 565 – 73.
5. Ho VT, Cutler C, Carter S, et al. Blood and marrow transplant clinical trials network toxicity committee consensus summary: thrombotic microangiopathy after hematopoietic stem cell transplantation. Bio Blood & Marrow Transpl. 2005; 11: 571 – 5.
6. Au WY, Ma ES, Lee TL, et al. Successful treatment of thrombotic microangiopathy after haematopoietic stem cell transplantation with rituximab. Br J Haematol. 2007; 137: 475.
7. Marr H, McDonald EJ, Merriman E, et al. Successful treatment of transplant-associated microangiopathy with rituximab. N Z Med J. 2009; 122: 72.
8. Carella AM, D'Arena G, Greco MM, et al. Rituximab for allo-SCT-associated thrombotic thrombocytopenic purpura. Bone Marrow Transplant. 2008; 41: 1063.
9. Jodele S, Dandoy CE, Lane A, et al. Complement blockade for TA-TMA: lessons learned from a large pediatric cohort treated with eculizumab. Blood. 2020; 135: 1049.
10. Dhakal P, Giri S, Pathak R, et al. Eculizumab in transplant-associated thrombotic microangiopathy. Clin Appl Thromb Hemost. 2017; 23: 175.
11. Rudoni J, Jan A, Hosing C, et al. Eculizumab for transplant-associated thrombotic microangiopathy in adult allogeneic stem cell transplant recipients. Eur J Haematol. 2018; 101: 389.
12. de Fontbrune FS, Galambrun C, Sirvent A, et al. Use of eculizumab in patients with allogeneic stem cell transplant-associated thrombotic microangiopathy: a study from the SFGM-TC. Transplantation. 2015; 99: 1953.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.2</td><td>Effective Date: 02/12/2026</td><td>New policy - this criteria replaces previously approved preliminary criteria</td></tr>
<tr><td>1.1</td><td>Effective Date: 02/02/2026</td><td>UM medical management system update for MAPPO and BCNA
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date: 01/19/2026</td>
<td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Yervoy® (ipilimumab)
HCPCS: J9228

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Yervoy is currently indicated for use as monotherapy or in combination with Opdivo in patients 12 years of age or older for unresectable or metastatic melanoma; as adjuvant treatment in patients with cutaneous melanoma with pathologic involvement of regional lymph nodes of more than 1 mm who have undergone complete resection, including total lymphadenectomy; for treatment of adult patients with intermediate or poor risk advanced renal cell carcinoma, as first-line treatment in combination with Opdivo; in combination with Opdivo in patients age 12 and older for metastatic, microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) colorectal cancer; in combination with Opdivo for patients 18 years of age or older with hepatocellular carcinoma in patients previously treated with sorafenib or as first-line therapy; in combination with Opdivo for patients 18 years of age or older with previously untreated metastatic non-small cell lung cancer; in combination with Opdivo and platinum-doublet chemotherapy for patients 18 years of age or older with previously untreated advanced or metastatic non-small cell lung cancer; in combination with Opdivo for the first-line treatment of adult patients with unresectable malignant pleural mesothelioma; and in combination with Opdivo for the first-line treatment of adult patietns with unresectable advanced or metastatic esophageal squamous cell carcinoma.

- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.

- Yervoy has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

- Yervoy has not been studied in patients with an ECOG performance status of greater than 2 and therefore, should not be sed in patients with an ECOG score greater than 2.

- There are no studies to support use of Yervoy following failure of its use as a single agent or in combination with a PD-L1 checkpoint inhibitor, such as Opdivo. NCCN guidelines also do not recommend use of Yervoy or PD-L1 checkpoint inhibitors following a previous failure.

References:

1. Yervoy [package insert]. New Brunswick (NJ): E.R. Squibb & Sons, LLC. May 2025.
2. Opdivo [package insert]. New Brunswick (NJ): E.R. Squibb & Sons, LLC. May 2026.
3. National Comprehensive Cancer Network. Melanoma: cutaneous (Version 2.2026). 2026 April 17. Available at: https://www.nccn.org/professionals/physician_gls/pdf/cutaneous_melanoma.pdf. Accessed on June 29, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4. Sosman JA. Immunotherapy of advanced melanoma with immune checkpoint inhibition. UpToDate; updated March 16, 2016. Available from: http://www.uptodate.com/contents/immunotherapy-of-advanced-melanoma-with-immune-checkpoint-inhibition
5. Hodi FS, O'Day SJ, McDermott DF, et al. Improved survival with ipilimumab in patients with metastatic melanoma. NEJM. 2010 Aug 19; 363(8): 711-23.
6. Eggermont AM, Chiarion-Sileni V, Grob JJ, et al. Adjuvant ipilimumab versus placebo after complete resection of high-risk stage III melanoma (EORTC 18071): a randomised, double-blind, phase 3 trial. Lancet Oncol. 2015 May; 16(5): 522-30.
7. U.S. Food and Drug Administration Expands Approval of Yervoy (ipilimumab) to Include Pediatric Patients 12 Years and Older with unresectable or Metastatic Melanoma. Available from: https://news.bms.com/press-release/corporatefinancial-news/us-food-and-drug-administration-expands-approval-yervoy-ipilim
8. National Comprehensive Cancer Network. Kidney cancer (Version 2.2026). 2026 April 14. Available at: https://www.nccn.org/professionals/physician_gls/pdf/kidney.pdf. Accessed on June 29, 2026.
9. Motzer RJ, Tannir NM, McDermott DF et al. Nivolumab plus ipilimumab versus sunitinib in advanced renal-cell carcinoma. NEJM. 2018; 378: 1277-1290.
10. National Comprehensive Cancer Network. Hepatocellular carcinoma (Version 1.2026). 2026 March 10. Available at: https://www.nccn.org/professionals/physician_gls/pdf/hcc.pdf. Accessed on June 29, 2026.
11. National Comprehensive Cancer Network. Colon Cancer (Version 2.2026). 2026 April 7. Available at: https://www.nccn.org/professionals/physician_gls/pdf/colon.pdf. Accessed on June 29, 2026.
12. Clinicaltrials.gov. A phase 1/2, dose-escalation, open-label, non-comparative study of nivolumab or nivolumab in combination with ipilimumab in advanced hepatocellular carcinoma subjects with or without chronic viral hepatitis; and a randomized, open-label study of nivolumab vs sorafenib in advanced hepatocellular carcinoma subjects who are naive to systemic therapy. Available at: https://clinicaltrials.gov/ct2/show/NCT01658878?term=NCT01658878&draw=2&rank=1. Accessed on April 6, 2020.
13. National Comprehensive Cancer Network. Non-small cell lung cancer (Version 6.2026). 2026 June 16. Available at: https://www.nccn.org/professionals/physician_gls/pdf/nscl.pdf. Accessed on June 29, 2026.
14. Hellmann MD, Ciuleanu TE, Pluzanski A, et al. Nivolumab plus ipilimumab in lung cancer with a high tumor mutational burden. NEJM. 2018; 378: 2093-2104.
15. National Comprehensive Cancer Network. Mesothelioma: pleural (Version 2.2026). 2025 Oct 3. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mpm.pdf. Accessed on June 29, 2026.
16. Clinicaltrials.gov. A phase III, randomized, open label trial of nivolumab in combination with ipilimumab versus pemetrexed with cisplatin or carboplatin as first line therapy in unresectable pleural mesothelioma. Available at: https://clinicaltrials.gov/ct2/show/NCT02899299. Accessed on October 5, 2020.
17. National Comprehensive Cancer Network. Esophageal and esophagogastric junction cancers (Version 3.2026). 2026 June 3. Available at: https://www.nccn.org/professionals/physician_gls/pdf/esophageal.pdf. Accessed on June 29, 2026.

Policy History		
#	Date	Change Description
2.9	Effective Date: 08/13/2026	Updated to remove disease specific criteria and align criteria with NCCN category 1 and 2A recommendations and FDA approved indications
2.8	Effective Date: 08/07/2025	Updated to include the requirement that tumors express PD-L1 ≥ 1% for unresectable advanced or metastatic esophageal squamous cell carcinoma
2.7	Effective Date: 06/05/2025	Updated to include the new indications for use in unresectable or metastatic microsatellite instability-high (MSI-H) or mismatch repair deficient (dMMR) colorectal cancer (CRC) in combination with nivolumab and for use as first-line therapy in hepatocellular carcinoma and include the trial and failure of preferred products statement
2.6	Effective Date:	Annual review of criteria was performed, no changes were made

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td>04/10/2025</td><td></td></tr>
<tr><td>2.5</td><td>Effective Date: 04/11/2024</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.4</td><td>Effective Date: 04/06/2023</td><td>Updated to include the updated age requirements when used to treat melanoma</td></tr>
<tr><td>2.3</td><td>Effective Date: 12/01/2022</td><td>Updated to include the new indication of esophageal cancer and update the approval length to allow for FDA recommended dosing and provided for at least 60 days up to 6 months at a time</td></tr>
<tr><td>2.2</td><td>Effective Date: 12/09/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>2.1</td><td>Effective Date: 12/03/2020</td><td>Updated to include new indications for malignancy pleural mesothelioma</td></tr>
<tr><td>2.0</td><td>Effective Date: 12/01/2020</td><td>UM medical management system update for BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
<tr><td>1.9</td><td>Effective Date: 08/13/2020</td><td>Updated to include new indications for non-small cell lung cancer</td></tr>
<tr><td>1.8</td><td>Effective Date: 06/11/2020</td><td>Updated to include new indication for hepatocellular carcinoma</td></tr>
<tr><td>1.7</td><td>Effective Date: 11/07/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.6</td><td>Effective Date: 11/01/2018</td><td>Criteria update</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/09/2018</td><td>Criteria update</td></tr>
<tr><td>1.4</td><td>Effective Date: 05/03/2018</td><td>Criteria update</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>Effective Date: 07/05/2017</td><td>UM medical management system update for MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.2</td><td>Effective Date: 07/01/2017</td><td>UM medical management system update for BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 07/01/2015</td><td>New Policy
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Yescarta™ (axicabtagene ciloleucel)
HCPCS: Q2041

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- CAR-T therapy is a type of treatment the utilizes the body's own immune system to fight cancer. T-cells are collected from the patient via apheresis and are genetically engineered in the laboratory to produce chimeric antigen receptors on the cell surface, allowing the T-cells to recognize an antigen on target cancer cells. Once the tumor cells are identified, they are attacked and killed by the CAR-T therapy.

- CAR-T therapy has not been studied when given following prior treatment with any CAR-T therapy or following any other genetically-modified T-cell therapy.

- Due to the risk of cytokine release syndrome and neurological toxicities, CAR-T therapies are only allowed to be given at treatment centers certified by their REMS programs. CAR-T REMS programs require certified hospitals and their clinics to have on-site, immediate access to tocilizumab and an understanding of how to manage the risks of the associated CAR-T side effects.

- Yescarta is indicated for the treatment of adult patients with relapsed or refractory large B-cell lymphoma after two or more lines of systemic therapy, including diffuse large B-cell lymphoma not otherwise specified, primary mediastinal large B-cell lymphoma, high grade B-cell lymphoma, and DLBCL arising from follicular lymphoma. It is not indicated for the treatment of patients with primary central nervous system lymphoma. Yescarta is also indicated for adult patients with relapsed or refractory follicular lymphoma after two or more lines of systemic therapy.

- Efficacy was established in a single-arm, open-label, multicenter trial of 111 adult patients with relapsed or refractory aggressive B-cell non-Hodgkin lymphoma. Of 111 patients who underwent leukapheresis, 101 received Yescarta. One patient did not receive the product due to manufacturing failure and 9 others were not treated due to progressive disease or serious adverse reactions. Yescarta was administered as a single intravenous infusion at a target dose of 2×10^6 CAR-positive viable T-cells/kg. The lymphodepleting regimen consisted of cyclophosphamide 500 mg/m^2 intravenously and fludarabine 30 mg/m^2 intravenously given on the fifth, fourth, and third day before Yescarta. Patients with prior allogeneic HSCT, any history of central nervous system lymphoma, ECOG performance status of 2 or greater, absolute lymphocyte count less than 100/µL, creatinine clearance less than 60 mL/min, hepatic transaminases more than 2.5 times the upper limit of normal, cardiac ejection fraction less than 50%, or active serious infection were excluded. Subjects had previously received an anti-CD20 monoclonal antibody containing-regimen and an anthracycline-containing chemotherapy. Patients with transformed FL had received prior chemotherapy for follicular lymphoma and subsequently have chemorefractory disease after transformation to DLBCL. Primary endpoints were complete remission rate and duration of response. The median time to response was 0.9 months (range: 0.8 to 6.2 months). Of the 52 patients who achieved CR, 14 initially had stable disease (7 patients) or PR (7 patients), with a median time to improvement of 2.1 months (range: 1.6 to 5.3 months).

- Safety and efficacy for use in FL and MZL were established in the ZUMA-5 trial, an ongoing single-arm, open-label, multicenter phase 2 study of 104 adult patients with relapsed/refractory indolent NHL who had received up to 2 prior lines of therapy, including an anti-CD20 monoclonal antibody combined with an alkylating agent. Of the

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

104 patients, 84 had follicular lymphoma and 20 patients had marginal zone lymphoma and were required to have measurable disease. Patients were excluded if they had prior allogeneic HSCT, any history of central nervous system disease, ECOG performance status of 2 or greater, transformed FL, histological grade 3b FL, inadequate renal, hepatic, or cardiac function, or active serious infection. The primary endpoint is the objective response rate to therapy and key secondary endpoints include duration of response, progression-free survival (PFS), overall survival (OS), and incidence of adverse events. After a median follow-up of 17.5 months, the objective response rate was 92% with 76% of patients reaching a complete response. When broken down by exact indication, 94% (n = 84) of patients with relapsed/refractory FL had an objective response including 80% achieving a complete response. Of patients with relapsed/refractory MZL (n=20), 85% had an objective response with 60% achieving a complete response. At the data cutoff, 62% of all treated patients had ongoing responses. Median duration of response (DOR), progression-free survival (PFS) and overall survival (OS) were not reached.

- Safety and efficacy for use as second-line therapy in relapsed or refractory DLBCL is being established in the ZUMA-7 trial, an ongoing phase 3, randomized, open-label, multicenter study of 359 patients with replased/refractory DLBCL who had received one prior line of therapy that included an anti-CD20 monoclonal antibody combined with an anthracycline agent. Patients with prior allogeneic HSCT, any history of central nervous system lymphoma, ECOG performance status of 2 or greater, absolute lymphocyte count less than 100/μL, creatinine clearance less than 60 mL/min, hepatic transaminases more than 2.5 times the upper limit of normal, cardiac ejection fraction less than 50%, or active serious infection were excluded. Relapsed disease was defined as complete remission to first-line therapy followed by biopsy-proven relapse ≤ 12 months of first-line therapy. Refractory disease was defined as no complete remission to first-line therapy: progressive disease (PD) as best response to first-line therapy; stable disease (SD) as best response after at least 4 cycles of first-line therapy (eg, 4 cycles of R-CHOP); or partial response (PR) as best response after at least 6 cycles and biopsy-proven residual disease or disease progression ≤ 12 months of therapy. The primary endpoint is event-free survival (EFS) defined as time from randomization to disease progression, start of new lymphoma therapy, or death. ZUMA-7 met its primary EFS endpoint demonstrating statistically significant and clinically meaningful improvement in efficacy with Yescarta vs second-line standard of care.

- While use of Yescarta has not been established in patients with a creatinine clearance of less than 60 mL/minute, other CAR-T therapies have been studied in subjects with a creatinine clearance of 30 mL/minute. The National Institute of Health/National Cancer Institute Common Terminology Criteria of Adverse Events (CTCAE) classify grade 2 chronic kidney disease as a creatinine clearance of 30 – 59 mL/minute. As the classification system uses 30 mL/minute as a cutoff for grade 2 disease and data from other CAR-T therapies support their use in these patients, Yescarta should be able to be tolerated in this population. As there is no data to support administration of CAR-T at levels lower than 30 ml/minute, therapy should not be given in patients not meeting the 30 mL/minute threshold.

- The CTCAE recommendations set the grade 2 cutoff for left ventricular ejection fraction (LVEF) at 40%. While Yescarta has only been studied in patients with a LVEF greater than or equal to 50%, there is data from other CAR-T therapies to support use in those with a LVEF of 40% of greater. Therefore, Yescarta should be tolerated in these patients as well. There is no data supporting use at LVEF levels less than 40%.

- A provider portal that is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. Yescarta [prescribing information]. Santa Monica, CA: Kite Pharma, Inc.; February 2026.
2. LaRussa A. Chimeric antigen receptor (CAR) t-cell therapy. 10 Sept. 2015. Available at: www.lls.org/treatment/types-of-treatment/immunotherapy/chimeric-antigen-receptor-car-t-cell-therapy. Access on August 3, 2017.
3. National Comprehensive Cancer Network. B-cell lymphomas (Version 2.2026). 2026 March 2. Available at: https://www.nccn.org/professionals/physician_gls/pdf/b-cell.pdf. Accessed on March 3, 2026.
4. Lee DW et al. Current concepts in the diagnosis and management of cytokine release syndrome. Blood. 2014 Jul 10; 124 (2): 188 - 195.
5. Jacobson CA, Chavez JC, Sehgal AR, et al. Axicabtagene ciloleucel in relapsed or refractory indolent non-Hodgkin lymphoma (ZUMA-5): a single-arm, multicentre, phase 2 trial. Lancet Oncol. 2021 Dec 8; S1470-2045.
6. Locke FL, Miklos DB, Jacobson CA, et al. Axicabtagene ciloleucel as second-line therapy for large b-cell lymphoma. NEJM. 2022 Feb 17; 386: 640 – 654.
7. U.S. Department of Health and Human Services. Common terminology criteria for adverse events (Version 5.0). 2017 Nov 27. Available at: https://ctep.cancer.gov/protocoldevelopment/electronic_applications/docs/CTCAE_v5_Quick_Reference_8.5x11.pdf. Accessed on July 8, 2022.

Policy History		
#	Date	Change Description
1.9	Effective Date: 04/16/2026	Updated to remove absolute neutrophil count, liver function requirements, no HIV, hepatitis C or B infection, no uncontrollable infection or infection requiring long term antibiotics, no significant cardiac events, no thomboemolic events within 6 months, no pulmonary disease, no clinically significant CNS disease, the measureable disease requirement for FL, no transformed FL, and no grade 3b follicular lymphoma. Also added requirement of no active infection, and updated the approval length to 6 months
1.8	Effective Date: 06/05/2025	Updated to change the provider portal from Audaire Health to the appropriate provider portal
1.7	Effective Date: 06/06/2024	Annual review of criteria was performed, no changes were made
1.6	Effective Date: 06/08/2023	Updated to require physicians provide clinical outcomes data using the Audaire Health platform
1.5	Effective Date: 08/04/2022	Updated to align criteria across all CAR-T policies

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.4</td><td>Effective Date: 06/09/2022</td><td>Updated to include new indication allowing for use second-line in relapsed/refractory large B-cell lymphoma</td></tr>
<tr><td>1.3</td><td>Effective Date: 02/10/2022</td><td>Updated to include preliminary criteria for use as second-line therapy for DLBCL and remove the CD19 positive requirement</td></tr>
<tr><td>1.2</td><td>Effective Date: 08/12/2021</td><td>New policy</td></tr>
<tr><td>1.1</td><td>Effective Date: 03/08/2018</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.0</td><td>Effective Date: 01/01/2018</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Zevaskyn™ (prademagene zamikeracel)
HCPCS: J3389

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Epidermolysis bullosa, or EB, is a rare, inherited connective tissue disorder that causes abnormalities in cohesion of layers of the skin. There are 4 different types of EB, one of which is dystrophic epidermolysis bullosa (DEB) which makes up about 25% of EB cases. DEB can be inherited dominantly or recessively, with recessive cases being the most common and most severe. Patients with dominant DEB have few complications and survive into adulthood, while those with recessive only live to their 3rd or 4th decade, often dying of squamous cell carcinoma or renal failure.

- DEB is caused by mutations in the COL7A1 gene which codes for Type 7 collagen, whose responsibility is to bind the dermis to the epidermis. In DEB, Type 7 collagen is either reduced or completely absent, creating extremely fragile skin that blisters between the dermis and the epidermis and tears from even the most minor friction or trauma, such as holding a pencil or putting on a shirt. The constant cycle of blistering, wounding, and re-healing that occurs with DEB contributes to complications like infection, debilitating scarring, physical deformities, pubertal or growth delay, anemia, esophageal blistering, spinal fractures, and squamous-cell carcinoma.

- Clinical practice guidelines for laboratory diagnosis of epidermolysis bullosa developed on behalf of the Dystrophic Epidermolysis Bullosa Research Association (DEBRA) International (2020) recommend every patient with an established or suspected diagnosis of EB undergo genetic testing (level of evidence 2++, grade of recommendation B). Skin biopsy of an induced blister with immunofluorescence mapping (IFM) and/or transmission electron microscopy (TEM) may also be useful in the diagnosis of EB; however, with DEB, particularly in mild cases, the results of these tests may not deliver a useful result and genetic testing documenting the presence of mutations in the COL7A1 gene would be required to deliver the final diagnosis.

- The goal of treatment is to promote wound healing, prevent infection and other complications, and protect the skin. Prior to the FDA approval of DEB therapies, there were no approved treatments for any form of EB. Management has historically been supportive, involving a multidisciplinary team that includes wound care, infection and pain control, nutritional support, and prevention and treatment of complications.

- A consensus statement from the European Reference Network for Rare Skin Diseases on the practical management of EB (2021) and an international consensus on best practice guidelines for skin and wound care in EB from Wounds International (2017) regard wound care as the cornerstone of treatment for EB patients. Skin and wound assessments should be undertaken regularly and management tailored to suit both the type of EB and the specific characteristics of the wound, as well as the needs and preferences of the patient. Regular follow up on patient and caregiver adherence to treatment should also be performed with adaptation of the care plan to meet the patient's needs and preferences, as needed.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Malnutrition, anemia, pruritus, and pain can compromise a patient's ability to heal; therefore, these conditions should be treated appropriately to optimize long-term wound healing and minimize further skin damage and trauma.

- Atraumatic dressings should be utilized to prevent blistering and skin and wound bed damage. Dressing examples include polymeric membrane, super-absorbent, soft silicone mesh or foam, lipido-colloid, foam, and keratin. Most dressings should be changed every 1 to 3 days unless otherwise noted by the manufacturer or required by the patient's individual needs.

- Preventative measures to avoid and/or reduce blister formation should also be enforced, such as padding trauma-exposed sites, avoidance of tight clothing, choosing suitable footwear with appropriate insoles and/or orthotics. Any intact blisters should be lanced and drained as they are not self-limiting.

- Wound management in DEB must also address infection, critical colonization, and protection from additional trauma. Bacterial burden can be controlled by systemic or topical therapies.

- Healing rate of wounds should be monitored by checking advancement of the wound edges. A reduction of 20-40% in 2 to 4 weeks may predict healing by 12 weeks. Pain and itch reduction and resolution of infection should also be evaluated

- Recently approved treatments for DEB include topical gene therapy Vyjuvek® for the treatment of wounds in adults and pediatrics with DEB and mutations in the COL7A1 gene, Filsuvez®, a topical gel that promotes general wound healing of DEB-associated wounds, and Zevaskyn, an autologous cell sheet-based gene therapy for the treatment of wounds in adults and pediatric patients with RDEB. All three products work locally to heal open skin wounds and do not treat extracutaneous manifestations of DEB; therefore, supportive and palliative care will continue to remain essential even in patients receiving treatment with FDA-approved therapies. Additionally, there are limitations to the total wound area that can be treated with DEB gene therapies. Vyjuvek, for example, can cover a maximum of up to 200 cm2 per treatment. Wounds 200 cm2 or larger would need to be treated in sections, and as the surface of the treated area changes the dose can be adjusted to treat other sections of the wound.

- Zevaskyn consists of a patient's own cells that have been gene-modified through retroviral vector (RVV) transduction to express the COL7A1 gene to produce the collagen 7 (C7) protein. These cells are formed into cellular sheets for topical application onto wounds. It is the only FDA-approved product to treat RDEB wounds with a one-time surgical application. The use of Zevaskyn has not yet been addressed by any guidelines or consensus statements.

- The safety and effectiveness of Zevaskyn was established primarily in the pivotal, randomized, intrapatient-controlled Phase III VIITAL study, which compared Zevaskyn to standard of care (SOC) treatment in patients with RDEB wounds. Eligible patients were 6 years of age and older and required to have at least one pair of matched,

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

large (> 20 cm2), chronic (open for > 6 months) stage 2 wounds associated with RDEB. Stage 2 wounds are typically shallow with a reddish base and are characterized by partial-thickness skin loss into, but no deeper than, the dermis.

  - The matched wound pairs were randomized 1:1 to receive either Zevaskyn (up to 6 sheets) or control treatment consisting of SOC wound dressings and palliative care. Eleven patients ranging from 6 to 40 years old were enrolled and a total of 86 wounds were randomized to treatment.

  - The co-primary endpoints were the proportion of randomized wound pairs with at least 50% healing at 6 months with confirmation of wound healing two weeks later, and pain reduction as accessed by the mean differences in patient-reported pain scores using the Wong-Baker FACES® scale between randomized wound pairs at 6 months.

  - The trial met its co-primary endpoints. With Zevaskyn treatment, 81% of wounds (35/43) showed 50% or more healing at 6 months compared to 16% (7/43) in SOC-treated wounds. Additionally, Zevaskyn treatment demonstrated a nearly 3.5-times reduction in pain versus matched control wounds as reported following wound dressing changes using the Wong-Baker FACES pain rating scale (3.1-point reduction vs. 0.9-point reduction, respectively, utilizing a scale of 0-10; p=0.0002).

- Up to 12 Zevaskyn sheets may be manufactured per patient per treatment cycle, with each sheet covering an area of 41.25 cm^2. The recommended dose is based on wound surface area. Zevaskyn sheets are surgically applied to the wound(s) in a single surgical session at a qualified treatment center by a qualified healthcare provider and must not be trimmed. Only once Zevaskyn treatment cycle is recommended per treatment area. If different areas develop that necessitate treatment, a patient may then require more than one cycle.

- Additional gene and cell therapies are in development for the treatment of DEB. At present, there is no literature to support combination use of multiple gene therapies for the treatment of DEB

- Provider portals are used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

References:

1. DEBRA International. EB in Depth. March 2021. Accessed April 30, 2025. Available at: https://www.debra.org/about-eb/eb-depth.
2. Denyer J, Pillay E, Clapham J. Best practice guidelines for skin and wound care in epidermolysis bullosa. An International Consensus. Wounds International, 2017. Available at: https://af13d689-15eb-4199-8733- e91a7bb8ae3f.usrfiles.com/ugd/af13d6_01ed147ab87e49c584c20a917c47f19f.pdf
3. Eichstadt S, Tang JY, Solis DC, Siprashvili Z, Marinkovich MP, Whitehead N, Schu M, Fang F, Erickson SW, Ritchey ME, Colao M, Spratt K, Shaygan A, Ahn MJ, Sarin KY. From Clinical Phenotype to Genotypic Modelling: Incidence and Prevalence of Recessive Dystrophic Epidermolysis Bullosa (RDEB). Clin Cosmet Investig Dermatol. 2019 Dec 24;12:933-942. doi: 10.2147/CCID.S232547. Erratum in: Clin Cosmet Investig Dermatol. 2021 Jun 21;14:679. PMID: 31920360; PMCID: PMC693531
4. Has C, Bauer JW, et al. Consensus reclassification of inherited epidermolysis bullosa and other disorders with skin fragility. Br J Dermatol. 2020 Oct;183(4):614-627. doi: 10.1111/bjd.18921. Epub 2020 Mar 11. PMID: 32017015
5. Has C, El Hachem M, Buckova H, et al. Practical management of epidermolysis bullosa: consensus clinical position statement from the European Reference Network for Rare Skin Diseases. J Eur Acad Derm Venereol. 2021;35:2349-2360.
6. Has C, Liu L, et al. Clinical practice guidelines for laboratory diagnosis of epidermolysis bullosa. Br J Dermatol (2020); 182: 574-592.
7. IPD Analytics. Payer & Provider Insights. April 2025. Accessed April 30, 2025. https://www.ipdanalytics.com
8. Murrell DF. Overview of the management of epidermolysis bullosa. In: UpToDate. Shefner JM (Ed), UpToDate, Waltham, MA. (Accessed on April 30, 2025).
9. Vyjuvek [prescribing information]. Pittsburgh, PA; Krystal Biotech: September 2025.
10. Zevaskyn [prescribing information]. Cleveland, OH; Abeona Therapeutics: April 2025.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.5</td><td>P&T Date:
10/09/2025

Effective Date:
11/24/2025</td><td>Changed wound area requirement from >20 cm2 to >200 cm2.
Modified the criterion preventing combination use of RDEB gene therapies on the same wound to also include prior treatment with Zevaskyn.</td></tr>
<tr><td>1.4</td><td>Effective Date:
07/01/2025</td><td>UM medical management system update for MAPPO and BCNA

<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table>
</td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.3</td><td>P&T Date: 06/05/2025

Effective Date: 07/21/2025</td><td>New policy.

This criteria replaces previously approved preliminary criteria.</td></tr>
<tr><td>1.2</td><td>Effective Date: 05/08/2025</td><td>UM medical management system update for BCBS and BCN

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 06/06/2024</td><td>Addition of criteria requiring attestation of adherence to standard wound care interventions to align with Vyjuvek criteria</td></tr>
<tr><td>1.0</td><td>Effective Date: 04/11/2024</td><td>Preliminary Drug Review

<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>No</td></tr><tr><td>BCN</td><td>No</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Zilganersen injection
HCPCS: J3590

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- AxD is a rare, genetic, and ultimately fatal neurologic leukodystrophy that arises from a pathogenic variant in the GFAP gene
- It is characterized by excess production and accumulation of GFAP in astrocytes
- There are two forms, type I, which generally has an onset by age 4, and type II, which can have onset at any age, but primarily after age 4
- Symptoms associated with the type I form include a failure to thrive, psychomotor impairment, seizures, macrocephaly, spasticity, ataxia, vomiting, and difficulty swallowing, coughing, breathing, or talking
- Patients with type II AxD typically present with bulbar/pseudobulbar symptoms, ataxia, and spasticity
- AxD has been estimated to occur at a frequency of about 1 in 1 million births
- There are no guidelines for the diagnosis and treatment of AxD
- Diagnosis established based upon clinical and radiographic (MRI) features with diagnosis confirmed via genetic testing showing a pathogenic variant of the GFAP gene
- Four of the 5 MRI characteristics listed below should be present for diagnosis
    - Extensive cerebral white matter changes with frontal predominance
    - Abnormalities of the basal ganglia and thalami with T2/fluid-attenuated inversion recovery (FLAIR) signal abnormality and/or swelling
    - A periventricular rim of high signal on T1-weighted sequences and low signal on T2-weighted sequences
    - Abnormalities of the brainstem, mainly involving the midbrain and medulla

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

- Contrast enhancement involving one or more of the following gray and white matter structures:
  - Ventricular lining
  - Periventricular tissue
  - Frontal white matter
  - Optic chiasm
  - Fornix
  - Basal ganglia
  - Thalamus
  - Dentate nucleus
  - Brainstem
- Treatment is symptomatic and supportive and includes antiseizure medications, baclofen, and benzodiazepines

References:

1. PR Newswire. Zilganersen granted U.S. FDA fast track designation for people living with Alexander disease. 2024 Oct 1. Available at: https://www.prnewswire.com/news-releases/zilganersen-granted-us-fda-fast-track-designation-for-people-living-with-alexander-disease-302263365.html. Accessed on June 9, 2026.
2. Clinicaltrials.gov. A study to evaluate the safety and efficacy of zilganersen (ION373) in patients with Alexander disease (AxD) (NCT04849741). Available at: https://clinicaltrials.gov/study/NCT04849741. Accessed on June 9, 2026.
3. Ionis Pharmaceuticals. Ionis announces positive topline results from pivotal study of zilganersen in Alexander disease. 2025 Sept 22. Available at: https://ir.ionis.com/news-releases/news-release-details/ionis-announces-positive-topline-results-pivotal-study. Accessed on June 9, 2026.
4. Ionis Pharmaceuticals. Ionis presents new data from pivotal study of zilganersen in Alexander disease (AxD) at AAN 2026 annual meeting. 2026 April 21. Available at: https://ir.ionis.com/news-releases/news-release-details/ionis-presents-new-data-pivotal-study-zilganersen-alexander. Accessed on June 9, 2026.
5. National Organization of Rare Disorders. Alexander disease. 2017 Feb 1. Available at: https://rarediseases.org/rare-diseases/alexander-disease/. Accessed on June 9, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

6. Adang LA, Sherbini O, Ball L, et al. Revised consensus statement on the preventive and symptomatic care of patients with leukodystrophies. Mol Genet Metab. 2017; 122 (1-2): 18 – 32.
7. van der Knaap MS, Naidu S, Breiter SN, et al. Alexander disease: diagnosis with MR imaging. AJNR Am J Neuroradiol. 2001; 22 (3): 541.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.0</td><td>Effective Date: 08/13/2026</td><td>Preliminary Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Zilretta® (triamcinolone acetonide extended-release)
HCPCS: J3304

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Osteoarthritis (OA) is a common degenerative condition affecting the knees. Historically a disease of older Americans, OA is now being diagnosed at increasingly younger ages with the prevalence rising after age 45. More than 27 million individuals are affected by osteoarthritis. By 2030 it is expected to affect 67 million Americans.

- The overall goals of management are to reduce pain and prevent disability. Rheumatologists and orthopedists are the primary physician specialties versed in handling musculoskeletal disorders like OA, especially in cases of complicated or treatment-refractory disease. Consulting an orthopedic surgeon may be necessary for cases that may require surgical intervention.

- The American College of Rheumatology (ACR), American Academy of Orthopedic Surgeons (AAOS), and the Osteoarthritis Research Society International (ORSI) have practice guidelines for the management of OA of the knee. These guidelines provide recommendations for both non-pharmacologic and pharmacologic therapies for the treatment of knee OA.

- The ACR, AAOS, and ORSI all agree that non-pharmacologic treatment is a mainstay of therapy for all patients with knee OA. Non-pharmacologic treatment modalities are often used in combination to maximize their effectiveness.

1. Exercise is strongly recommended for all patients with OA, with an emphasis on resistance training (i.e. weightlifting, band exercises) and cardiovascular/aerobic exercise (i.e. walking, stationary bicycles, aquatics). Exercise interventions have evidence to support statistically and clinically significant improvements in pain and function scores in OA.

2. Weight loss is also recommended for patients with knee OA who are overweight (defined as a BMI $\geq$ 25). The 2019 ACR guidelines specifically note that a loss of $\geq$ 5% of body weight can yield positive change in clinical and mechanistic outcomes; the benefits continue to increase as the percent of weight lost increases.

3. Gait aids may be warranted for use in knee OA . The 2019 ACR guidelines strongly recommend the use of a cane and tibiofemoral knee braces in the event the disease is significantly impacting ambulation, joint stability, or pain; kinesiotaping and patellofemoral braces are conditionally recommended. The 2021 AAOS guidelines suggest braces and canes could help improve pain and function in patients with knee OA with moderate strength evidence.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

4. Physical and occupational therapy have also shown evidence of benefit in knee OA, particularly for initiating and maintaining an appropriate exercise regimen, for self-efficacy and self-management training, and instruction in the use of and fitting of braces.

- Pharmacologic interventions strongly recommended by the ACR, AAOS, and OARSI for knee OA include topical and oral NSAID therapy. Oral NSAIDs should be avoided in patients of any age with conditions putting them at high risk of cardiovascular, renal, gastrointestinal, and hematologic adverse events associated with NSAID use. The elderly population (65 years of age and older) in particular are very susceptible to the side effect profiles of NSAIDs; NSAIDs have also been shown to increase the risk of falls, geriatric psychiatric events, and the risk of stroke in elderly patients.

- Intra-articular glucocorticoid injections are recommended for knee OA by the ACR and OARSI recommendations (strongly recommended and conditionally recommended, respectively), and most recently by the AAOS per the updated 2021 guidelines as they have demonstrated short-term efficacy in symptomatic knee OA. Intra-articular glucocorticoid injections are available in both short- and long-acting preparations; however, there is insufficient evidence evaluating comparative safety and efficacy to recommend one product over the other.

- Zilretta (triamcinolone acetonide extended-release) is an extended-release intra-articular corticosteroid injection indicated for the management of osteoarthritis pain of the knee.

    1. It is administered as a one-time injection into the affected knee(s); the safety and efficacy of repeat injections have not been demonstrated.

    2. Per the prescribing information, the safety and effectiveness of Zilretta in pediatric patients has not been established; therefore, use is limited to patients 18 years of age and older.

    3. The safety and efficacy of Zilretta have not been evaluated for the management of osteoarthritis of other joints besides the knees.

- A Phase 3 trial demonstrated statistically significant improved pain, stiffness, and function in patients with osteoarthritis of the knee (Kellgren-Lawrence grade 2 or 3) treated with Zilretta compared to placebo through 12 weeks post injection. The treatment arm comparing Zilretta to traditional intraarticular triamcinolone acetonide, however, showed a similar onset of action and no statistically significant pain relief superiority between the two agents.

- The use of Zilretta in patients with previous intraarticular corticosteroid injections in any joint within 3 months of treatment with Zilretta was not established in the Phase 3 trial as these patients were excluded from enrollment.

- Zilretta has not demonstrated superior efficacy over traditional short-acting intra-articular triamcinolone acetate. There is a lack of data supporting one preparation over the other and a significant difference in cost between Zilretta and generically available intraarticular triamcinolone acetonide. This supports requiring trial and failure of

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

short-acting intraarticular triamcinolone prior to Zilretta, as well as requiring a credible explanation to why the long-acting formulation is expected to work if the short-acting formulation of the same product resulted in treatment failure.

References:

1. ZILRETTA® (triamcinolone acetonide extended-release injectable suspension) [package insert]. Flexion Therapeutics, INC. January 2020.
2. Drugs@FDA: FDA Approved Drug Products. Available at: https://www.accessdata.fda.gov/scripts/cder/daf/index.cfm?event=overview.process&ApplNo=208845. Accessed July 2018.
3. FDA Approves Flexion's Zilretta for osteoarthritis knee pain. Available at: http://www.firstwordpharma.com/node/1510807#axzz4v0KQGoMD. Accessed July 2018.
4. Flexion Therapeutics Submits New Drug Application for Zilretta to Treat Knee Osteoarthritis Pain. Available at: https://www.firstwordpharma.com/node/1440166. Accessed July 2018.
5. Flexion Therapeutics Announces Presentation of Phase 3 Data Demonstrating that Extended-Release Zilretta Achieves Clinically Significant Improvement of Pain, Stiffness, and Function in Patients with Osteoarthritis of the Knee. Available at: https://www.firstwordpharma.com/node/1432522. Accessed July 2018.
6. Flexion Therapeutics to Present Data on Zilretta (FX006) at the American Diabetes Association's 77th Scientific Sessions. Available at: https://www.firstwordpharma.com/node/1479103. Accessed July 2018.
7. Conaghan PG, Hunter DJ, Cohen SB, et al. Effects of a Single Intra-Articular Injection of a Microsphere Formulation of Triamcinolone Acetonide on Knee Osteoarthritis Pain: A Double-Blinded, Randomized, Placebo-Controlled, Multinational Study. The Journal of Bone and Joint Surgery American volume. 2018;100(8):666-677. doi:10.2106/JBJS.17.00154.
8. Kolasinski SL, Neogi T, et al. 2019 American College of Rheumatology/ Arthritis Foundation Guideline for the Management of Osteoarthritis of the Hand, Hip and Knee. Arthritis Care & Research. February 2020;72(2):149-162.
9. American Academy of Orthopaedic Surgeons Management of Osteoarthritis of the Knee (Non-Arthroplasty) Evidence-Based Clinical Practice Guideline. https://www.aaos.org/oak3cpg. Published 08/31/2021. Accessed June 15, 2022.
10. Bannuru RR, et al. OARSI guidelines for the non-surgical management of knee, hip, and polyarticular osteoarthritis. Osteoarthritis and Cartilage. 2019:27:1578-1589.

Policy History		
#	Date	Change Description
2.0	Effective Date: 08/13/2026	Annual review of criteria was performed, no changes were made
1.9	Effective Date: 08/07/2025	Annual review of criteria was performed, no changes were made
1.8	Effective Date: 08/08/2024	Annual review of criteria was performed, no changes were made
1.7	Effective Date: 08/10/2023	Removed prescriber requirement from criteria

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td>1.6</td><td>Effective Date: 08/04/2022</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/12/2021</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/13/2020</td><td>Policy update; Addition of preferred drug step</td></tr>
<tr><td>1.3</td><td>Effective Date: 08/15/2019</td><td>Annual Review of Medical Policy</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/03/2019</td><td>UM medical management system update for BCNA and MAPPO
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.1</td><td>Effective Date: 10/01/2018</td><td>UM medical management system update for BCBS and BCN
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 08/09/2018</td><td>New Drug Policy
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>No</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

Zinplava™ (bezlotoxumab)
HCPCS: J0565

Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Zinplava is a human monoclonal antibody that binds to Clostridium difficile toxin B, indicated to reduce recurrence of CDI in patients 18 years of age or older who are receiving antibacterial drug treatment of CDI and are at a high risk for CDI recurrence.

- CDI is one of the most common hospital-acquired (nosocomial) infections and is an increasingly frequent cause of morbidity and mortality among older adult hospitalized patients. Clostridium difficile colonizes the human intestinal tract after the normal gut flora has been altered by antibiotic therapy and is the causative organism of antibiotic-associated pseudomembranous colitis.

- Patients taking antibiotics are 7 to 10 times more likely to contract CDI. The overprescribing of antibiotics combined with poor hygiene and infection control on the part of healthcare workers make CDI a scourge in the nation's hospitals and nursing homes.

- Toxins A and B are the major virulence factors of Clostridium difficile. Toxins A and B mediate disease by disrupting the cytoskeletal structure of intestinal epithelial cells, resulting in inflammation and cell death. Toxin A ("enterotoxin") causes inflammation leading to mucosal injury and intestinal fluid secretion. Toxin B ("cytotoxin") is essential for the virulence of Clostridium difficile and is more potent than toxin A in mediating colonic mucosal damage. Ribotype 027 is a hypervirulent strain of Clostridium difficile found in 87% of patients who had a hypervirulent strain in the Zinplava study.

    - The 2021 Infectious Diseases Society of America and Society for Healthcare Epidemiology of America (IDSA/SHEA) Guideline Update recommends use of adjunctive therapy for prophylaxis after one recurrent CDI episode treated with appropriate antibiotics.

        - These guidelines recommend the use of Zinplava for patients with recurrent CDI episode within the last 6 months, as an adjunctive treatment to antibiotics (fidaxomicin, vancomycin, etc.) rather than antibiotics alone. Zinplava is an IV administered monoclonal antibody that is given as a single infusion over 60 minutes.

        - The guidelines state the balance of benefits and harms favor adding Zinplava to standard of care antibiotics for patients with a CDI episode and at least 1 risk factor for recurrence (recurrent CDI episode within the last 6 months, age ≥ 65 years, immunocompromised host, and severe CDI on

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

presentation), however treatment seems more favorable in patients with multiple risk factors of recurrent CDI and especially in patients with a prior CDI in the last 6 months. Current guidelines do not favor the use of Zinplava or fecal microbiota transplantation (FMT) over the other for prevention of recurrence of CDI. Zinplava was the only FDA approved option for prevention of recurrence of CDI when the 2021 IDSA/SHEA guidelines were published.

- In Zinplava's Phase III trial, standard of care antibiotics used were metronidazole (48%), vancomycin (48%), and fidaxomicin (4%).

References:

1. Zinplava [prescribing information] Whitehouse Station, NJ; Merck Sharp and Dohme, Corp.; October 2016.
2. Stuart Johnson, Valéry Lavergne, Andrew M Skinner, Anne J Gonzales-Luna, Kevin W Garey, Ciaran P Kelly, Mark H Wilcox, Clinical Practice Guideline by the Infectious Diseases Society of America (IDSA) and Society for Healthcare Epidemiology of America (SHEA): 2021 Focused Update Guidelines on Management of *Clostridioides difficile* Infection in Adults, *Clinical Infectious Diseases*, Volume 73, Issue 5, 1 September 2021, Pages e1029–e1044, https://doi.org/10.1093/cid/ciab549
3. Bezlotoxumab (BEZ) Alone and With Actoxumab (ACT) for Prevention of Recurrent C. difficile Infection (rCDI) in Patients on Standard of Care (SoC) Antibiotics: Integrated Results of 2 Phase 3 Studies (MODIFY I and MODIFY II) Open Forum Infect Disease, Fall 2015, Vol 2, issue suppl 1.
4. Wilcox MH, Gerding D, Poxton I, et al. Bezlotoxumab alone and with actoxumab for prevention of recurrent C. difficile infection in patients on standard of care antibiotics: Integrated results of two Phase III studies (MODIFY I and MODIFY II) [oral presentation]. ID Week; San Diego, CA; October 7-11, 2015.
5. Guidelines for Diagnosis, Treatment, and Prevention of Clostridium difficile Infections. The American Journal of Gastroenterology, Volume 108, April 2013.
6. Kelly C, Fischer M, Allegretti J, et al. ACG Clinical Guidelines: Prevention, Diagnosis, and Treatment of Clostridioides difficile Infections. The American Journal of Gastroenterology: June 2021 - Volume 116 - Issue 6 - p 1124-1147.

Policy History		
#	Date	Change Description
2.1	Effective Date: 04/16/2026	Annual review of criteria was performed, no changes were made. Product D/C'd however, still have claims within the past 6-9 months. Will keep policy active for now.
2.0	Effective Date: 05/27/2025 P&T Date: 04/10/2025	Updated criteria to include: Not to be used in combination with fecal microbiota products, such as Rebyota or Vowst
1.9	Effective Date: 04/11/2024	Annual review of criteria was performed, no changes were made
1.8	Effective Date:	Updated the approval duration to allow for 60 day requirement

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><td></td><td>04/06/2023</td><td></td></tr>
<tr><td>1.7</td><td>Effective Date: 04/14/2022</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.6</td><td>Effective Date: 04/08/2021</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.5</td><td>Effective Date: 04/16/2020</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.4</td><td>Effective Date: 10/01/2019</td><td>UM medical management system update for BCNA and MAPPO
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.3</td><td>Effective Date: 05/09/2019</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.2</td><td>Effective Date: 05/03/2018</td><td>Annual review of criteria was performed, no changes were made.</td></tr>
<tr><td>1.1</td><td>Effective Date: 07/01/2017</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr>
<td>1.0</td>
<td>Effective Date:
05/04/2017</td>
<td>New Drug Review
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>No</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>No</td></tr>
<tr><td>BCNA</td><td>No</td></tr>
</table>
</td>
</tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Zynteglo® (betibeglogene autotemcel)
HCPCS: J3393

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: Yes

Additional BCBSM Part B Criteria: Yes

Background Information:

- Zynteglo is an autologous hematopoietic stem cell-based gene therapy indicated for the treatment of adult and pediatric patients with β-thalassemia who require regular red blood cell (RBC) transfusions.

- The term "thalassemia" refers to a group of blood disorders characterized by a decrease or absence of synthesis of normal hemoglobin globulin chains. According to the chain whose synthesis is impaired, the thalassemias are called α-, β-, γ-, δ-, δβ-, or εγδβ-thalassemias. Beta-thalassemias result from a genetic defect in the HBB gene leading to a reduction in production of β-globulin chains, an excess of α-globulin chains, and a decrease in functioning hemoglobin. Low levels of hemoglobin cause a lack of oxygen in many parts of the body and anemia. People with anemia in beta-thalassemia often require lifelong blood transfusions for survival and subsequent treatment for iron overload due to these transfusions.

- The 2021 International Thalassemia Federation guidelines for transfusion-dependent thalassemias recommend diagnosis should begin with genetic testing because of the extreme diversity in clinical severity of thalassemia subtypes. The degree of excess nonfunctional α-chains is the major predictor of disease severity. The less β-globulin production, the more non-functional α-chains in the bloodstream. β_0-thalassemia refers to the complete absence of production of β-globulin. When patients are homozygous for a β_0-thalassemia gene, they cannot make any normal β-chains. β_+-thalassemia indicates a mutation that presents decreased but not absent production of β-globulin. In thalassemia patients in which one or both of their β-thalassemia mutations are β_+-mutations, the disorder may be less severe. Beta-thalassemia major is a clinical diagnosis referring to a patient who has a severe form of the disease and requires chronic transfusions early in life. Beta-thalassemia intermedia is a clinical diagnosis of a patient characterized by a less severe chronic anemia and a more variable clinical phenotype. Zynteglo was not studied in patients with S/β-thalassemia or α-thalassemia. Patients with other β-thalassemia subtypes that were transfusion-dependent were included in the clinical trial.

- Treatment guidelines also recommend all patients undergo at least an annual comprehensive assessment at a thalassemia center. During such an assessment, recommendations are summarized after consultation with multiple specialists including a hematologist, a nurse specialist, a hepatologist, a cardiologist, an endocrinologist, a psychologist, a genetics counselor, a social worker, and a dietitian.

- Blood transfusion is the mainstay of care for individuals with thalassemia major and many with intermedia. The purpose of transfusion is twofold: to improve the anemia and to suppress the ineffective erythropoiesis. Chronic transfusions prevent most of the serious growth, skeletal, and neurological complications of thalassemia major. The decision to start regular transfusions is clear when the initial hemoglobin level is well below 6 g/dL. Continuation of infusions can be assessed by withholding transfusions and monitoring weekly hemoglobin levels. If the hemoglobin drops under 7 g/dL on two occasions two weeks apart, then regular transfusions should be

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

commenced. Guidelines define a patient as transfusion dependent when they are getting infusions of packed red blood cells every 2 – 5 weeks to maintain the pre-transfusion hemoglobin of 9 g/dL - 10.5 g/dL and the post-transfusion hemoglobin less than 14 - 15 g/dL. This translates to approximately 100 mL/kg/year of packed red blood cells.

- Safety and efficacy are being evaluated in 2 ongoing Phase III, open-label, single-arm, 24-month, multicenter trials, Northstar-2 and Northstar-3, in 41 patients aged 4 to 34 years with β-thalassemia requiring regular transfusions. Patients were eligible if they had a history of transfusions of at least 100 mL/kg/year of pRBCs or 8 or more transfusions of pRBCs per year in the 2 years preceding enrollment. Patients who had advanced liver disease defined as alanine transferases or direct bilirubin greater than 3 times the ULN, baseline prothrombin time or partial thromboplastin time greater than 1.5 times the ULN suspected of arising from liver disease, or MRI of the liver demonstrating clear evidence of cirrhosis were excluded. Patients also were not included in the trial if they had a prior HSCT or currently were eligible for a HSCT with an HLA matched family donor; presence of HIV-1 or HIV-2 infection; current immunodeficiency disorder or malignancy; or uncorrected bleeding disorder. The primary endpoint of both studies was transfusion independence. Of 22 patients evaluable in Northstar-2, 20 (95% CI: 71, 99) achieved transfusion independence with a median average hemoglobin during transfusion of 11.8 g/dL (9.7, 13.0). Northstar-3 had 14 patients who were evaluable and 12 (86%; 95% CI: 57, 98) achieved transfusion independence with a median average hemoglobin during transfusion independence of 10.20 g/dL (9.3, 13.7). All patients who achieved transfusion independence maintained it.

- There is currently no data supporting administration of Zynteglo following administration of another gene therapy. Zynteglo should not be given following any other gene therapy for β-thalassemia as safety and efficacy has not been established.

- A provider portal is used to capture clinical outcome information for patients on select high-cost treatments, such as gene and cellular therapies. If a patient meets medical necessity as defined by this policy and is approved for treatment, the requesting physician must attest to providing clinical outcome information within the appropriate provider portal at the requested cadence.

References:

1. Zynteglo [prescribing information]. Somerville, MA: bluebird bio, Inc.; August 2022.
2. Locatelli F, Thompson AA, Kwiatkowski JL, et al. Betibeglogene autotemcel gene therapy for non–β0/β0 genotype β-thalassemia. NEJM. 2022; 386: 415 - 27.
3. Clinicaltrials.gov. A study evaluating the efficacy and safety of the LentiGlobin® BB305 drug product in participants with transfusion-dependent β-thalassemia (NCT03207009). Available at: https://clinicaltrials.gov/ct2/show/NCT03207009. Accessed on August 18, 2022.
4. National Organization for Rare Disorders. Beta-thalassemia. 2018. Available at: https://rarediseases.org/rare-diseases/thalassemia-major/. Accessed on August 18, 2022.
5. Cappellini MD, Cohen A, Porter J, et al. Guidelines for the management of transfusion dependent thalassemia. 2021. Available at: https://issuu.com/internationalthalassaemiafederation/docs/final_guideline_4th. Accessed on August 18, 2022.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.6</td><td>Effective Date: 08/13/2026</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.5</td><td>Effective Date: 08/07/2025</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.4</td><td>Effective Date: 08/08/2024</td><td>Updated to clarify language surrounding immunodeficiency disorders and updated provider portal to list appropriate instead of AudaireHealth</td></tr>
<tr><td>1.3</td><td>Effective Date: 10/12/2023</td><td>Annual review – no changes to criteria at this time</td></tr>
<tr><td>1.2</td><td>Effective Date: 11/01/2022</td><td>UM medical management system update for MAPPO and BCNA
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>Yes</td></tr><tr><td>BCNA</td><td>Yes</td></tr></table></td></tr>
<tr><td>1.1</td><td>Effective Date: 10/06/2022</td><td>New policy</td></tr>
<tr><td>1.0</td><td>Effective Date: 09/22/2022</td><td>UM medical management system update for BCBS and BCN
<table><tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr><tr><td>BCBS</td><td>Yes</td></tr><tr><td>BCN</td><td>Yes</td></tr><tr><td>MAPPO</td><td>No</td></tr><tr><td>BCNA</td><td>No</td></tr></table></td></tr>
</table>

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

Blue Cross Blue Shield Blue Care Network of Michigan

Zynyz™ (retifanlimab-dlwr)
HCPCS: J9345

⬆ Back to Drug Policy Index

BCBSM Part B Step Therapy Drug: No

Additional BCBSM Part B Criteria: Yes

Background Information:

- Zynyz is a programmed death receptor-1 (PD-1)–blocking antibody indicated
    - In combination with carboplatin and paclitaxel for the first-line treatment of adult patients with inoperable locally recurrent or metastatic squamous cell carcinoma of the anal canal (SCAC)
    - As a single agent for the treatment of adult patients with locally recurrent or metastatic SCAC with disease progression on or intolerance to platinum-based chemotherapy
    - For the treatment of adult patients with metastatic or recurrent locally advanced Merkel cell carcinoma
- The National Comprehensive Cancer Network (NCCN) guidelines category 1 and 2A recommendations are based on uniform NCCN consensus that the recommendations are appropriate. Treatment regimens have been studied and shown to be efficacious when administered as listed in the guidelines. Category 2B and 3 recommendations do not have a high level of evidence to support use and also do not have a uniform consensus from the NCCN panel that the recommendations are appropriate.
- There are no studies to support use of Zynyz following failure. NCCN treatment guidelines also do not recommend use of Zynyz or other PD-L1 checkpoint inhibitors following a previous failure.
- Zynyz has not been studied in patients on chronic immunosuppressant therapy and therefore, should not be used in patients on chronic immunosuppressants.

References:

1. Zynyz [prescribing information]. Wilmington, DE: Incyte Corporation; March 2026.
2. National Comprehensive Cancer Network. Merkle cell carcinoma (Version 2.2026). 2025 Oct 24. Available at: https://www.nccn.org/professionals/physician_gls/pdf/mcc.pdf. Accessed on April 16, 2026.
3. Clinicaltrials.gov. A phase 2 study of INCMGA00012 in participants with metastatic merkel cell carcinoma (POD1UM-201) (NCT03599713). Available at: https://clinicaltrials.gov/ct2/show/NCT03599713. Accessed on March 24, 2023.
4. National Comprehensive Cancer Network. Anal carcinoma (Version 2.2026). 2026 April 7. Available at: https://www.nccn.org/professionals/physician_gls/pdf/anal.pdf. Accessed on April 16, 2026.

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.

<table>
<tr><th colspan="3">Policy History</th></tr>
<tr><th>#</th><th>Date</th><th>Change Description</th></tr>
<tr><td>1.4</td><td>Effective Date: 06/11/2026</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.3</td><td>Effective Date: 06/05/2025</td><td>Annual review of criteria was performed, no changes were made</td></tr>
<tr><td>1.2</td><td>Effective Date: 06/06/2024</td><td>Updated to remove the ECOG score requirement</td></tr>
<tr><td>1.1</td><td>Effective Date: 12/10/2023</td><td>UM medical management system update for BCNA, MAPPO, BCN, and BCBS
<table>
<tr><th>Line of Business</th><th>PA Required in Medical Management System (Yes/No)</th></tr>
<tr><td>BCBS</td><td>Yes</td></tr>
<tr><td>BCN</td><td>Yes</td></tr>
<tr><td>MAPPO</td><td>Yes</td></tr>
<tr><td>BCNA</td><td>Yes</td></tr>
</table></td></tr>
<tr><td>1.0</td><td>Effective Date: 06/08/2023</td><td>New policy</td></tr>
</table>

** The prescribing information for a drug is subject to change. To ensure you are reading the most current information it is advised that you reference the most updated prescribing information by visiting the drug or manufacturer website or http://dailymed.nlm.nih.gov/dailymed/index.cfm.*

This policy and any information contained herein is the property of Blue Cross Blue Shield of Michigan and its subsidiaries, is strictly confidential, and its use is intended for the P&T committee, its members and BCBSM employees for the purpose of coverage determinations.