



# Radiology Data Review

## Oakland Southfield Physicians, PC

Presented by: Ilene Horowitz  
Administrative Network, Inc  
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BCBSM Physician Group Incentive Program

# Introduction

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- **Methods overview**
- **Low-Tech and High-Tech radiology analysis**
  - Percent utilization review
  - Per 1000 utilization review
- **High-Tech radiology analysis**
  - Procedure codes
  - Most frequently used procedures
  - Most expensive procedures
- **Barriers**
- **Future**
- **Conclusion**

# Methods Overview

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- Data sources
  - BCBSM radiology paid claims
  - Attributed patient panel
  - IPA/PO physician database
- IPA/PO information technology
  - Comprehensive data integration
  - Customizable programming/query capabilities
- Outcome results
  - Review findings
  - Revise query or theory
  - Repeat process

# Low-Tech and High-Tech Radiology Percent Utilization

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- Phase One: To determine percent of imaging services per category by physician, specialty and group
- Remove all ER/IP claim lines
- Data used:
  - Attributed Physicians
  - Physicians rectag
  - Physicians specialty (FP,GP,IM)
  - Imaging Category (low-tech, high-tech, other)
  - Number of *patients* that received imaging services per category for physician, specialty and group
  - Total number of attributed patients by physician, specialty and group

# Low-Tech and High-Tech Radiology Per 1000 utilization

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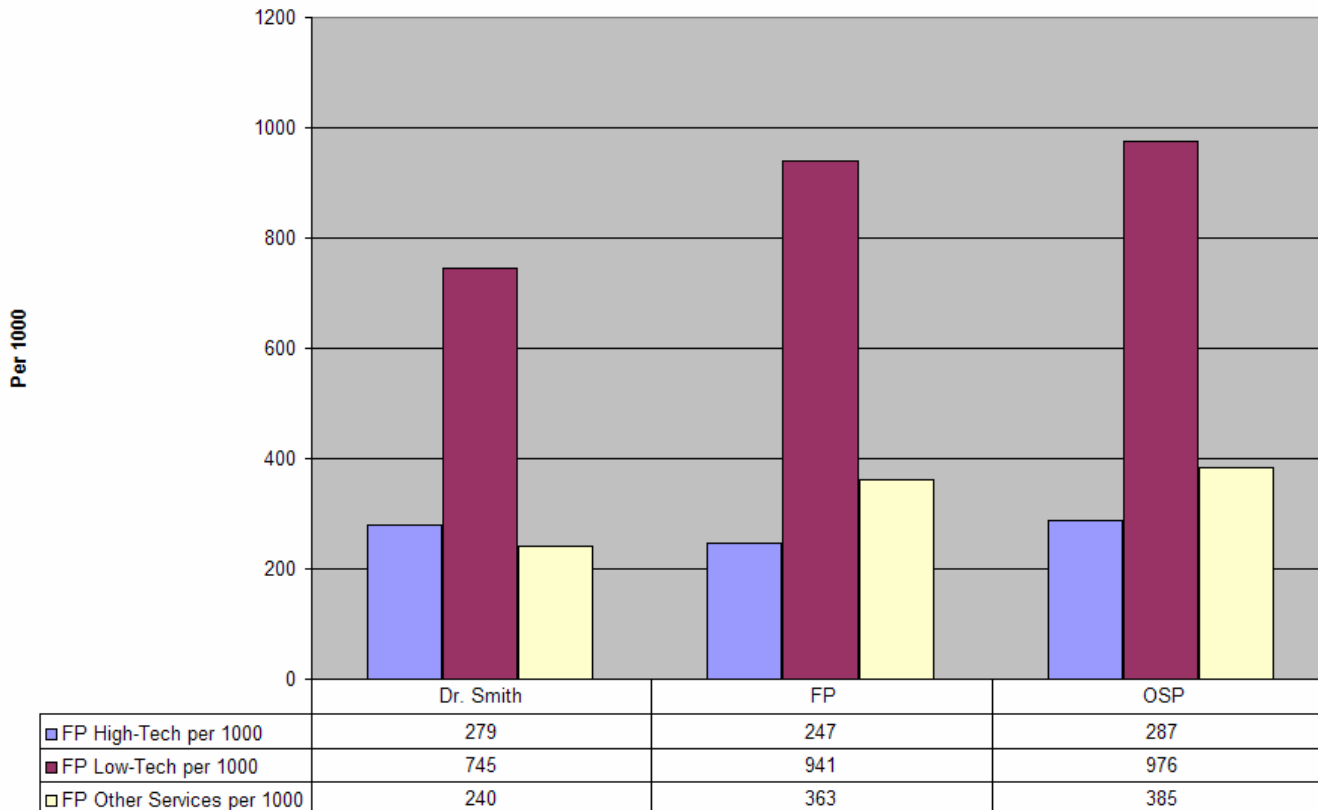
- Phase Two: To determine the per 1000 utilization in each imaging category by physician, specialty and group
- Remove all ER/IP claim lines
- Data used:
  - Attributed Physicians
  - Physicians rectag
  - Physicians specialty (FP,GP,IM)
  - Imaging Category (low-tech, high-tech, other)
  - Number of *claims* for each imaging category for physician, specialty and group
  - Total number of attributed patients by physician, specialty and group

# Percent High-Tech Radiology Worksheet

Physician Last Name	Physician First Name	rectag	Provider Specialty	Imaging Category	Attributed Physician			Family Practice			PO Group		
					Physician Patients who received High-Tech Radiology Services	Physician Attributed Patients	% Physician Patients who received High-Tech Radiology Services	FP Patients who received High-Tech Radiology Services	FP Attributed Patients	% of FP Patients who received High-Tech Radiology Services	FP,GP, IM Patients who received High-Tech Radiology Services	PO Patients	% of FP, GP, IM Patients who received High-Tech Radiology Services
Sample1	Sample1	00000	FP	High-Tech	4	28	14%	3039	25467	12%	6123	45493	13%
Sample2	Sample2	00001	FP	High-Tech	16	223	7%	3039	25467	12%	6123	45493	13%
Sample3	Sample3	00002	FP	High-Tech	25	193	13%	3039	25467	12%	6123	45493	13%
Sample4	Sample4	00003	FP	High-Tech	56	594	9%	3039	25467	12%	6123	45493	13%
Sample5	Sample5	00004	FP	High-Tech	57	594	10%	3039	25467	12%	6123	45493	13%
Sample6	Sample6	00005	FP	High-Tech	48	457	11%	3039	25467	12%	6123	45493	13%
Sample7	Sample7	00006	FP	High-Tech	6	35	17%	3039	25467	12%	6123	45493	13%
Sample8	Sample8	00007	FP	High-Tech	44	428	10%	3039	25467	12%	6123	45493	13%
Sample9	Sample9	00008	FP	High-Tech	81	508	16%	3039	25467	12%	6123	45493	13%
Sample10	Sample10	00009	FP	High-Tech	81	398	20%	3039	25467	12%	6123	45493	13%

# High-Tech Radiology per 1000 Utilization Chart

Dr. Smith



# High-Tech Radiology Procedures

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- Fields used:
  - Procedure codes
  - Procedure code description
  - Modality category
  - Diagnostic code
  - Diagnostic description and category
  - Physician name
  - Patient name
  - Patient contract number
  - Patient age
  - Date of service
  - Cost

# High-Tech Radiology Procedures

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## ○ Results:

- Discovered standard cost for all procedure codes
- Number of services
- Description of imaging services
- Diagnosis code and description
- High utilizers by attributed physician (caution: may not be the ordering physician)
- High modalities (most expensive test by standard cost)
- Detected all patients who received High-Tech services
- Detected all patients who received more than one High-Tech service

# High-Tech Radiology Procedures

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- Most frequently used High-Tech procedures:
  - Nuclear Scan of the Heart
  - CT of the Abdomen
  - CT of the Pelvis
  - MRI of the Lumbar Spine
  - MRI of the Brain

# High-Tech Radiology Procedures

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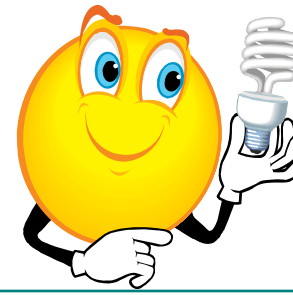
- Most expensive High-Tech procedures:
  - MRI of the Brain
  - Nuclear Scan of the Heart
  - MRI of the Lumbar Spine
  - MRI of the Leg/Foot
  - CT of the Abdomen

# Barriers

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- OSP attributed physicians admit/refer to multiple hospitals/specialists. Identification of ordering provider difficult due to structure of group
- Unable to supply a detailed summary report to the attributed physician to support the percent and per 1000 utilization numbers
- Without full claims disclosure difficult to proceed with affixing change
- Lack of data to support change

# The Future is Bright



- Commitment to push the envelope
  - HMO comparison
  - Practice pattern
  - Universal medicine
- BCBSM Advantage
  - Data use support
  - Subject experts
- Future Review
  - Investigate services/procedures rendered to patients before and after receipt of high-tech imaging service(s)

# Conclusions

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- Data provided by BCBSM able to identify and accomplish:
  - Percent utilization by attributed physician, specialty and group
  - Per 1000 utilization by attributed physician, specialty and group
  - Barriers
  - High utilizers
  - High modalities
  - Patients receiving one or more high-tech services
  - Most frequently used high-tech services
  - Most expensive high-tech services

# Contact Information

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*Ilene Horowitz*

Oakland Southfield Physicians, PC

Administrative Network, Inc

Telephone 248.357.4048

Email [Ilene@aniosp.com](mailto:Ilene@aniosp.com)