



Getting to Safe, Affordable, Effective, Patient-Centered Care: Good Data & Measures Are Just the Beginning

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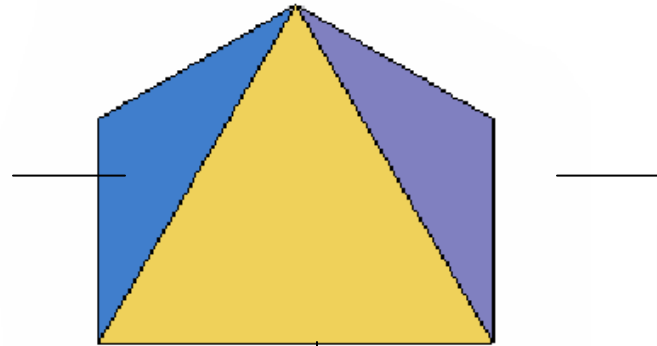
A health care system that provides safe, timely, effective, affordable, patient-centered care for everyone in Massachusetts.

A Balanced Portfolio of Measures



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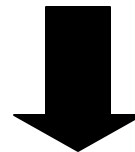
Patient Experience



Cost / Efficiency

Clinical Performance:

- Process
- Outcomes

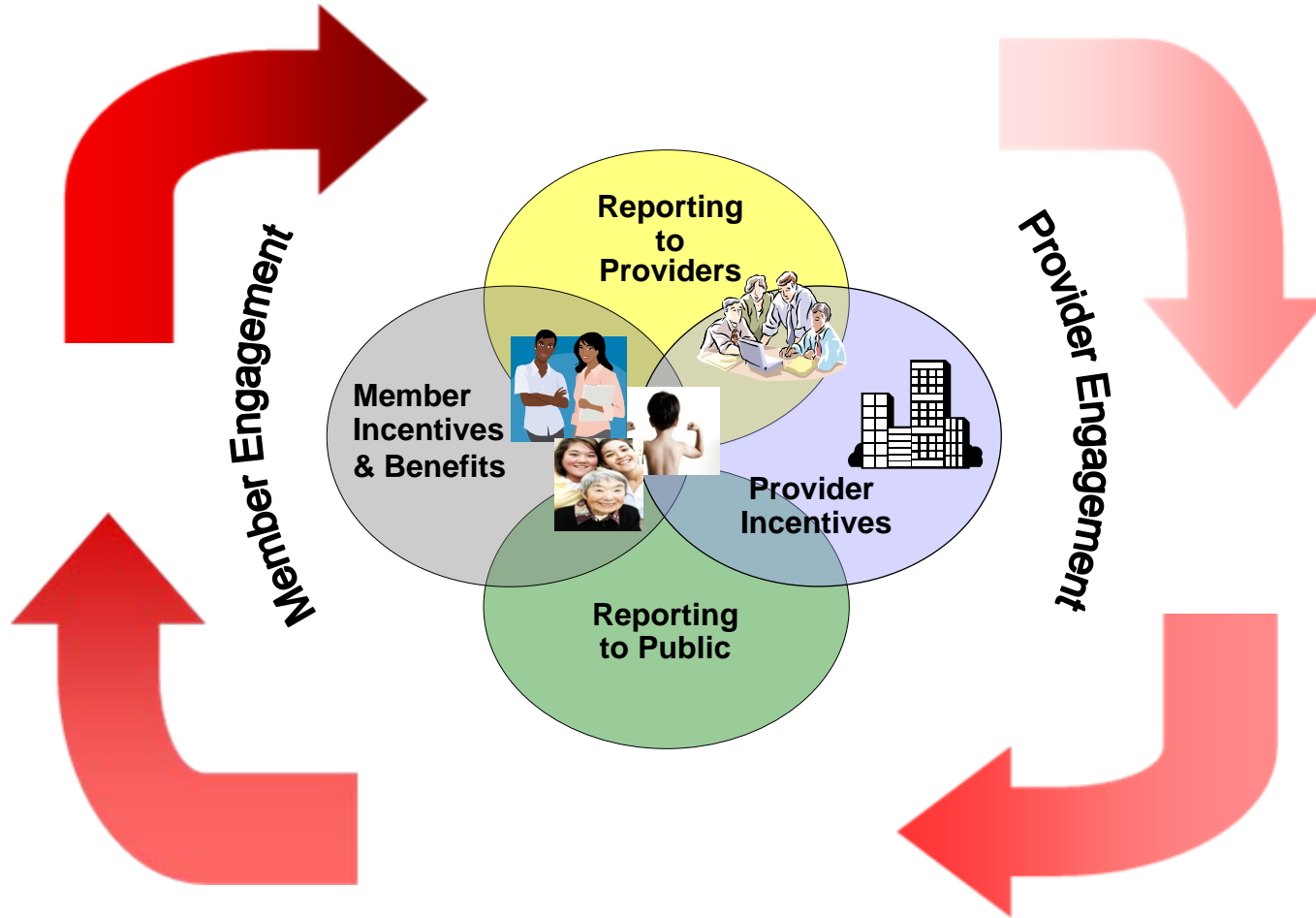


A health care system that provides safe, timely, effective, affordable, patient-centered care for everyone in Massachusetts.

Advancing Quality and Safety Through Our Performance Measurement and Reporting Programs



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Guiding Principles in Selecting Performance Measures for “High Stakes” Use



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- ◆ Wherever possible, our measures should be drawn from nationally accepted standard measure sets.
- ◆ The measure must reflect something that is broadly accepted as clinically important.
- ◆ There must be empirical evidence that the measure provides stable and reliable information at the level at which it will be reported (i.e. individual, site, group, or institution) with available sample sizes and data sources.
- ◆ There must be sufficient variability on the measure across providers (or at the level at which data will be reported) to merit attention.
- ◆ There must be empirical evidence that the level of the system that will be held accountable (clinician, site, group, institution) accounts for substantial system-level variance in the measure.
- ◆ Providers should be exposed to information about the development and validation of the measures and given the opportunity to view their own performance, ideally for one measurement cycle, before the data are used for “high stakes” purposes.

Key Components of the Alternative Contract Model



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Unique contract model:

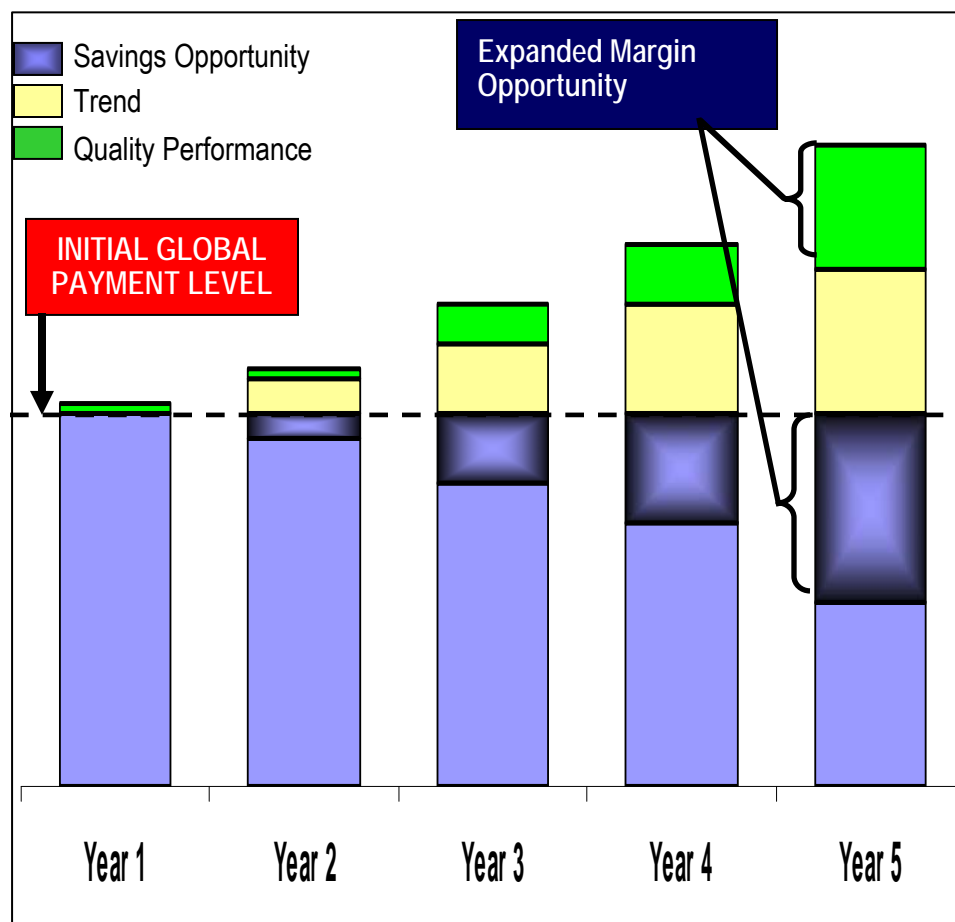
- Physicians & hospital contracted together as a “system” – accountable for cost & quality across full care continuum
- Long-term (5-years)

Controls cost growth:

- Global payment for care across the continuum
- Annual inflation tied to CPI
- Incentive to eliminate clinically wasteful care (“overuse”)

Improved quality, safety and outcomes:

- Robust performance measure set creates accountability for quality, safety and outcomes across continuum
- Substantial financial incentives for high performance (up to 10% upside)



Ambulatory Measures

Hospital Measures

	Measure	Score	Weight
Process	Depression		
	1 Acute Phase Rx	2.5	1.0
	2 Continuation Phase Rx	1.5	1.0
	Diabetes		
	3 HbA1c Testing (2X)	3.0	1.0
	4 Eye Exams	1.0	1.0
	5 Nephropathy Screening	1.2	1.0
	Cholesterol Management		
	6 Diabetes LDL-C Screening	2.8	1.0
	7 Cardiovascular LDL-C Screening	2.1	1.0
	8 Breast Cancer Screening	1.2	1.0
	9 Cervical Cancer Screening	1.3	1.0
	10 Colorectal Cancer Screening	2.4	1.0
	Preventive Screening/Treatment		
	Chlamydia Screening		
	11 Ages 16-20	3.1	0.5
	12 Ages 21-25	1.8	0.5
Pedi: Testing/Treatment			
13 Upper Respiratory Infection (URI)	1.6	1.0	
14 Pharyngitis	1.4	1.0	
Pedi: Well-visits			
15 < 15 months	2.6	1.0	
16 3-6 Years	2.0	1.0	
17 Adolescent Well Care Visits	1.5	1.0	
Outcomes	Diabetes		
	18 HbA1c in Poor Control	3.2	3.0
	19 LDL-C Control (<100mg)	2.4	3.0
	Hypertension		
	20 Controlling High Blood Pressure	1.3	3.0
Cardiovascular Disease			
21 LDL-C Control (<100mg)	2.4	3.0	
Patient Exper.	Patient Experiences (C/G CAHPS/ACES) - Adult 3		
	22 Communication Quality	1.9	1.0
	23 Knowledge of Patients	1.9	1.0
	24 Integration of Care	2.1	1.0
	25 Access to Care	2.4	1.0
	Patient Experiences (C/G CAHPS/ACES) - Pediatric 3		
	26 Communication Quality	1.0	1.0
	27 Knowledge of Patients	1.5	1.0
	28 Integration of Care	2.5	1.0
29 Access to Care	2.8	1.0	
Experimental	30 Experimental Measure A	5.0	1.0
	31 Experimental Measure B	5.0	1.0

	Measure	Score	Weight
Hospital	AMI		
	1 ACE/ARB for LVSD	2.0	1.0
	2 Aspirin at arrival	2.5	1.0
	3 Aspirin at discharge	1.5	1.0
	4 Beta Blocker at arrival	1.5	1.0
	5 Beta Blocker at discharge	1.3	1.0
	6 Smoking Cessation	1.0	1.0
	Heart Failure		
	7 ACE LVSD	1.3	1.0
	8 LVS function Evaluation	1.0	1.0
	9 Discharge instructions	1.8	1.0
	10 Smoking Cessation	3.0	1.0
	Pneumonia		
	11 Flu Vaccine	2.5	1.0
	12 Pneumococcal Vaccination	2.9	1.0
	13 Antibiotics w/in 4 hrs	1.4	1.0
	14 Oxygen assessment	1.0	1.0
	15 Smoking Cessation	3.1	1.0
	16 Antibiotic selection	3.0	1.0
	17 Blood culture	3.5	1.0
	Surgical Infection		
	18 Antibiotic received	1.3	1.0
	19 Received Appropriate Preventive Antibiotic	1.4	1.0
	20 Antibiotic discontinued	3.0	1.0
	21 In-Hospital Mortality - Overall	3.0	1.0
	22 Wound Infection	2.1	1.0
	23 Select Infections due to Medical Care	2.8	1.0
	24 AMI after Major Surgery	2.4	1.0
25 Pneumonia after Major Surgery	3.4	1.0	
26 Post-Operative PE/DVT	2.0	1.0	
27 Birth Trauma - injury to neonate	1.0	1.0	
28 Obstetrics Trauma-vaginal w/o instrument	1.5	1.0	
Hospital Patient Experience (H-CAHPS) Measures	Hospital Patient Experience (H-CAHPS) Measures		
	29 Communication with Nurses	4.0	1.0
	30 Communication with Doctors	3.0	1.0
	31 Responsiveness of staff	2.5	1.0
	32 Discharge Information	2.8	1.0
Experimental	33 Experimental Measure C	5.0	1.0

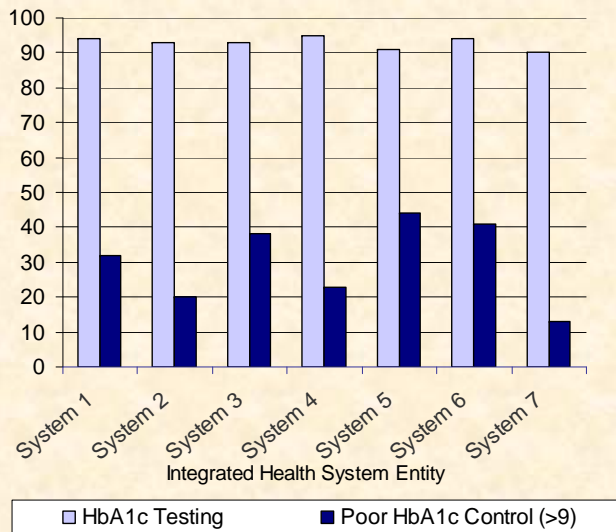
Weighted Ambulatory Score 2.2	Weighted Hospital Score 2.3
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Diabetes Care: Process is nearing perfection, outcomes are far from it

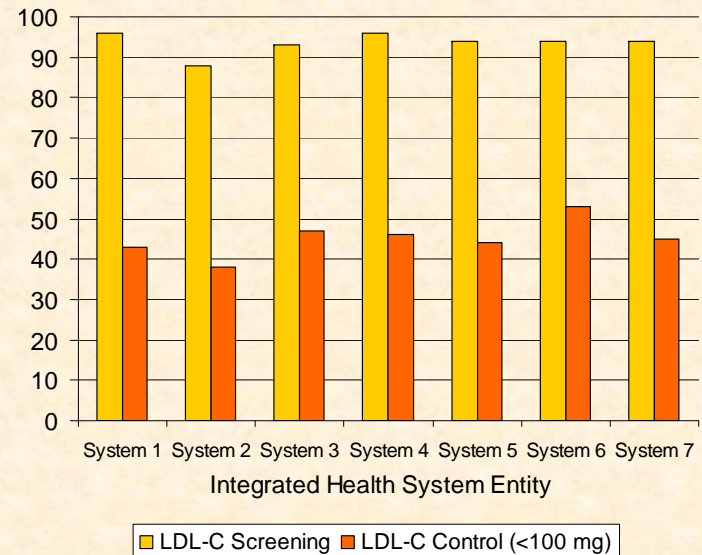


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Percent of Patients Who Have Received Recommended Screening vs. Percent with Poor Blood Glucose Levels



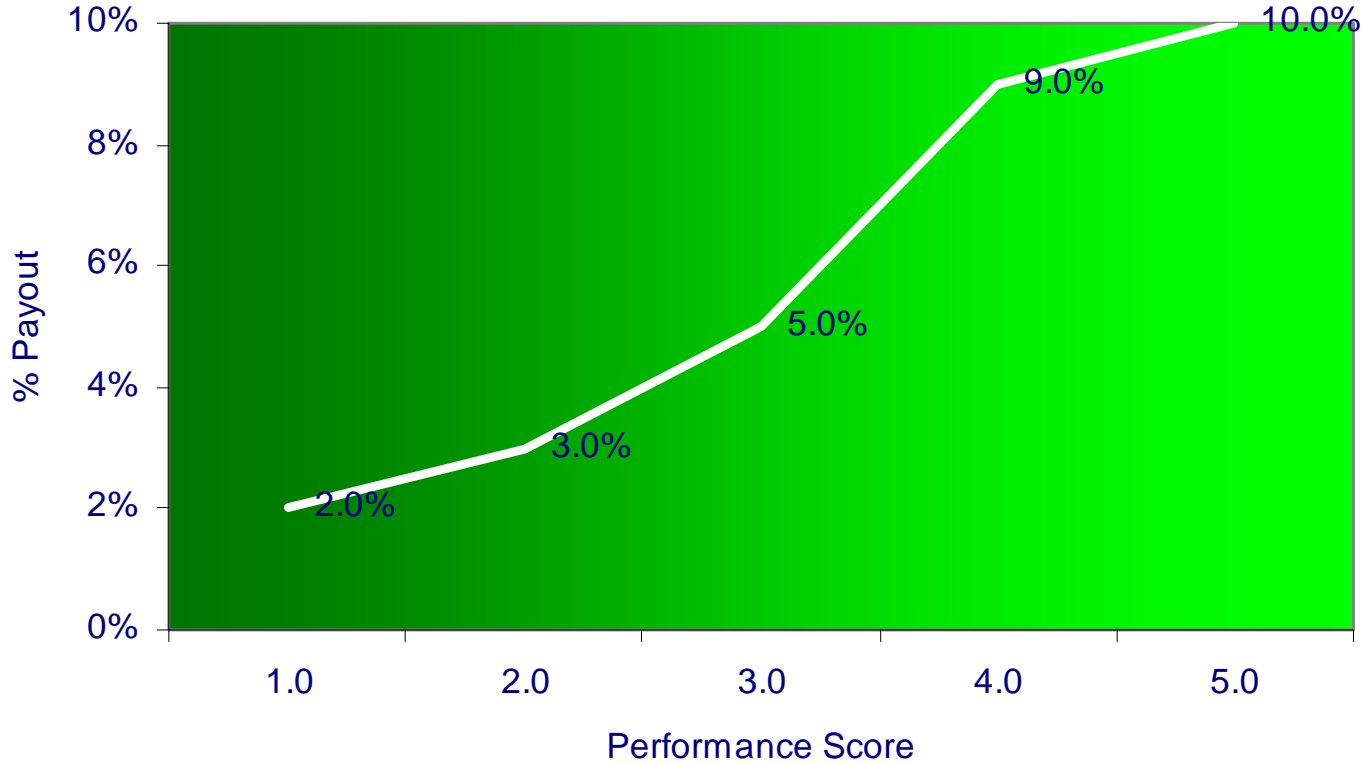
Percent of Patients Who Have Received Recommended Screening vs. Percent with Healthy Cholesterol Levels



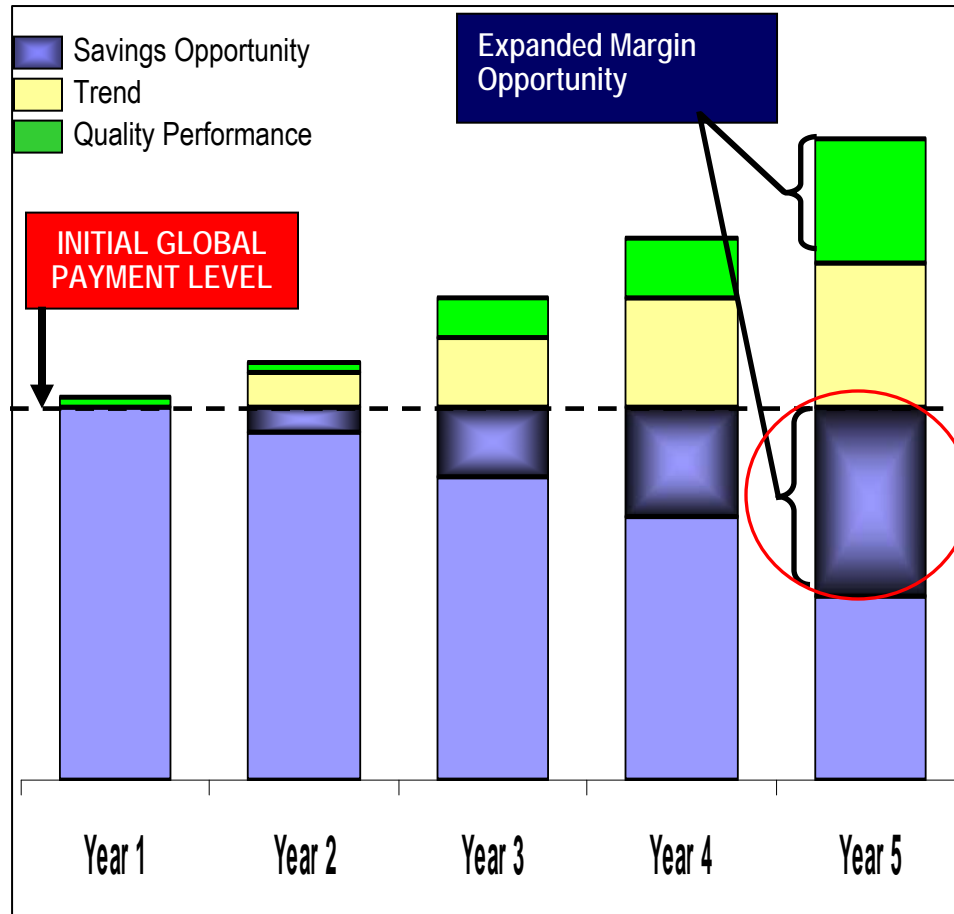
Source: MHQP, 2005 HEDIS process and outcomes measures



Performance Payment Model



Performance Improvement: Cost and Efficiency

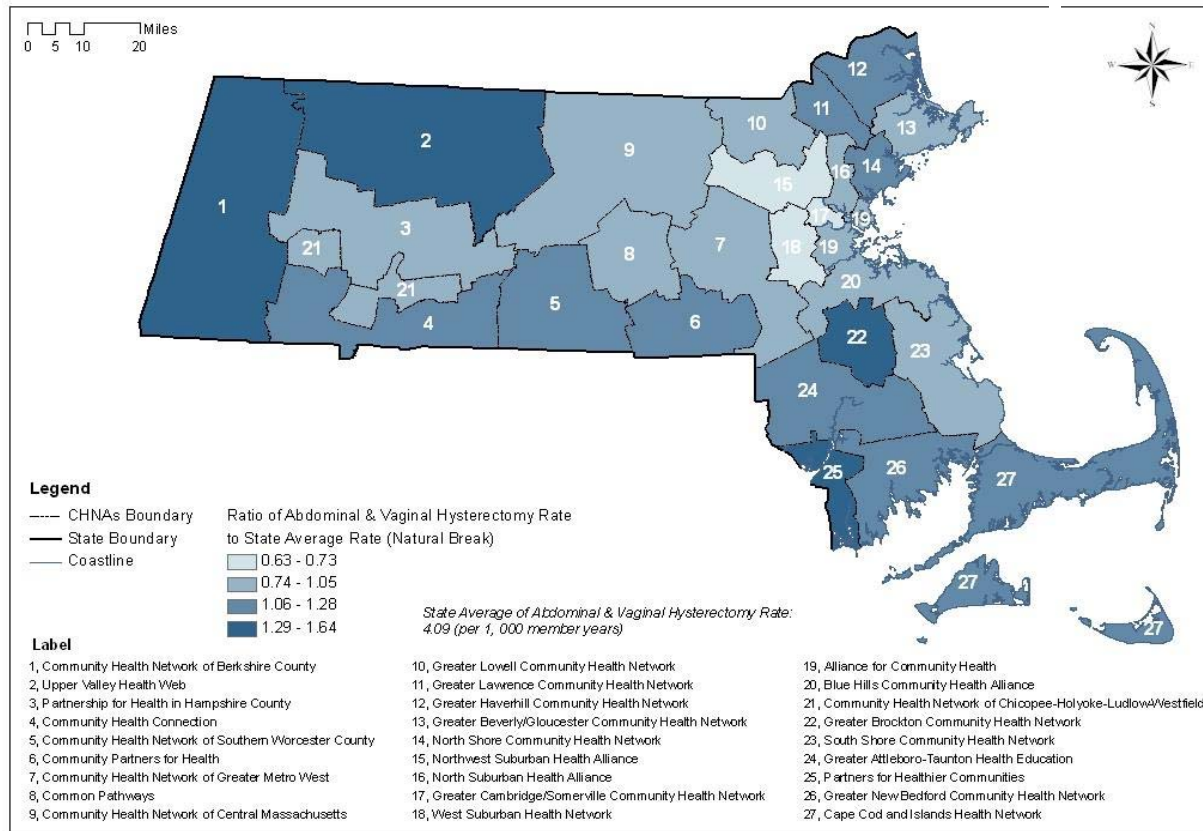


Geography is Destiny: Practice Pattern Variation



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FSP: Abdominal & Vaginal Hysterectomy (BCBSMA, 2005-2007)



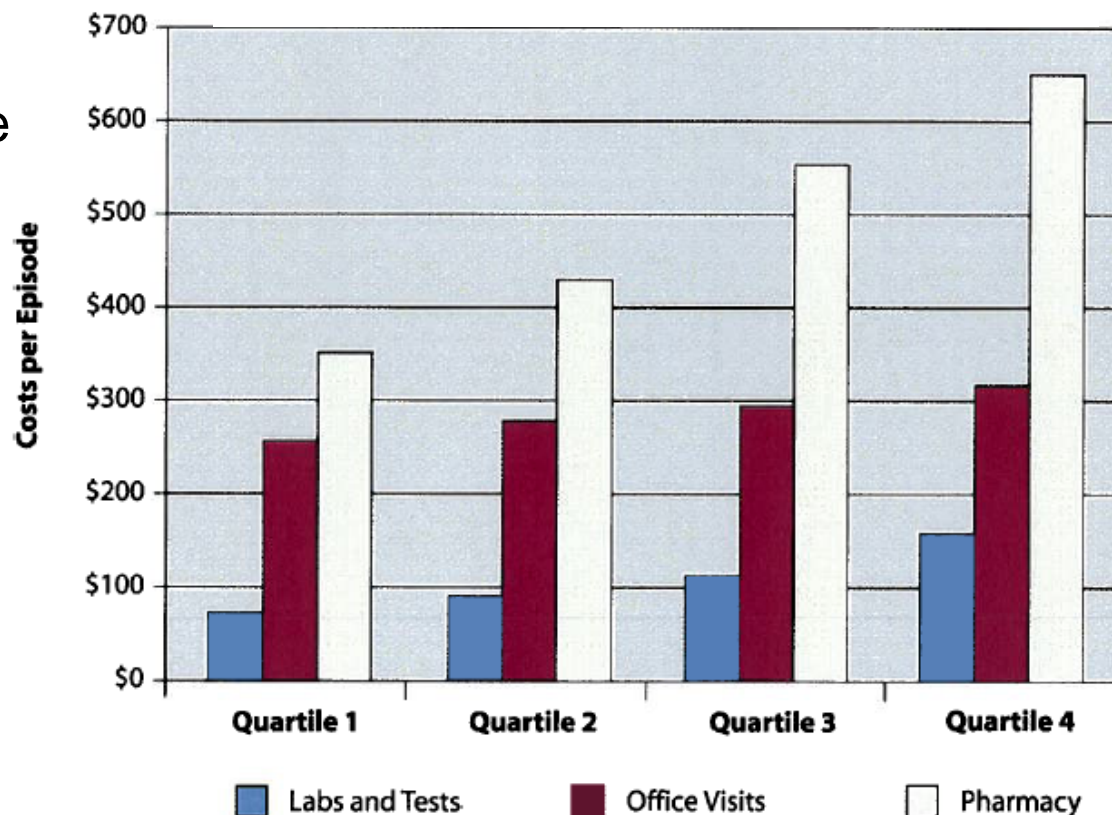
Practice Pattern Variation Analysis (PPVA)



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Unpacking differences in the treatment components of specific episodes across clinicians in a single, defined medical specialty

The results are highly actionable because they get to the root of variations in treatment costs for a defined and highly-specific clinical circumstance among physicians of the same specialty



Source: Greene RA, et al. *Health Affairs* 2008; w250-259

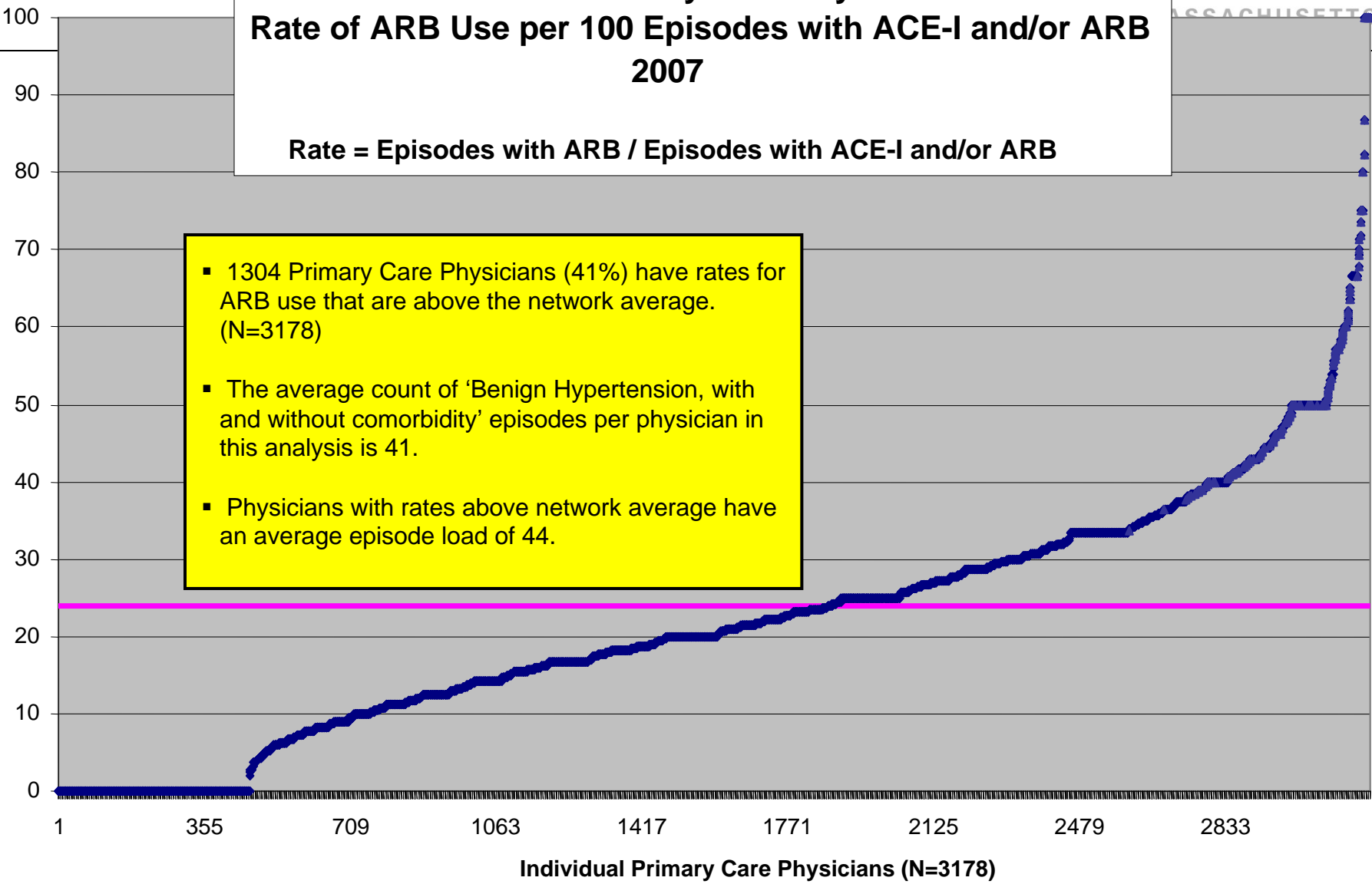


Benign Hypertension, With and Without Comorbidity Individual Primary Care Physicians Rate of ARB Use per 100 Episodes with ACE-I and/or ARB 2007

Rate = Episodes with ARB / Episodes with ACE-I and/or ARB

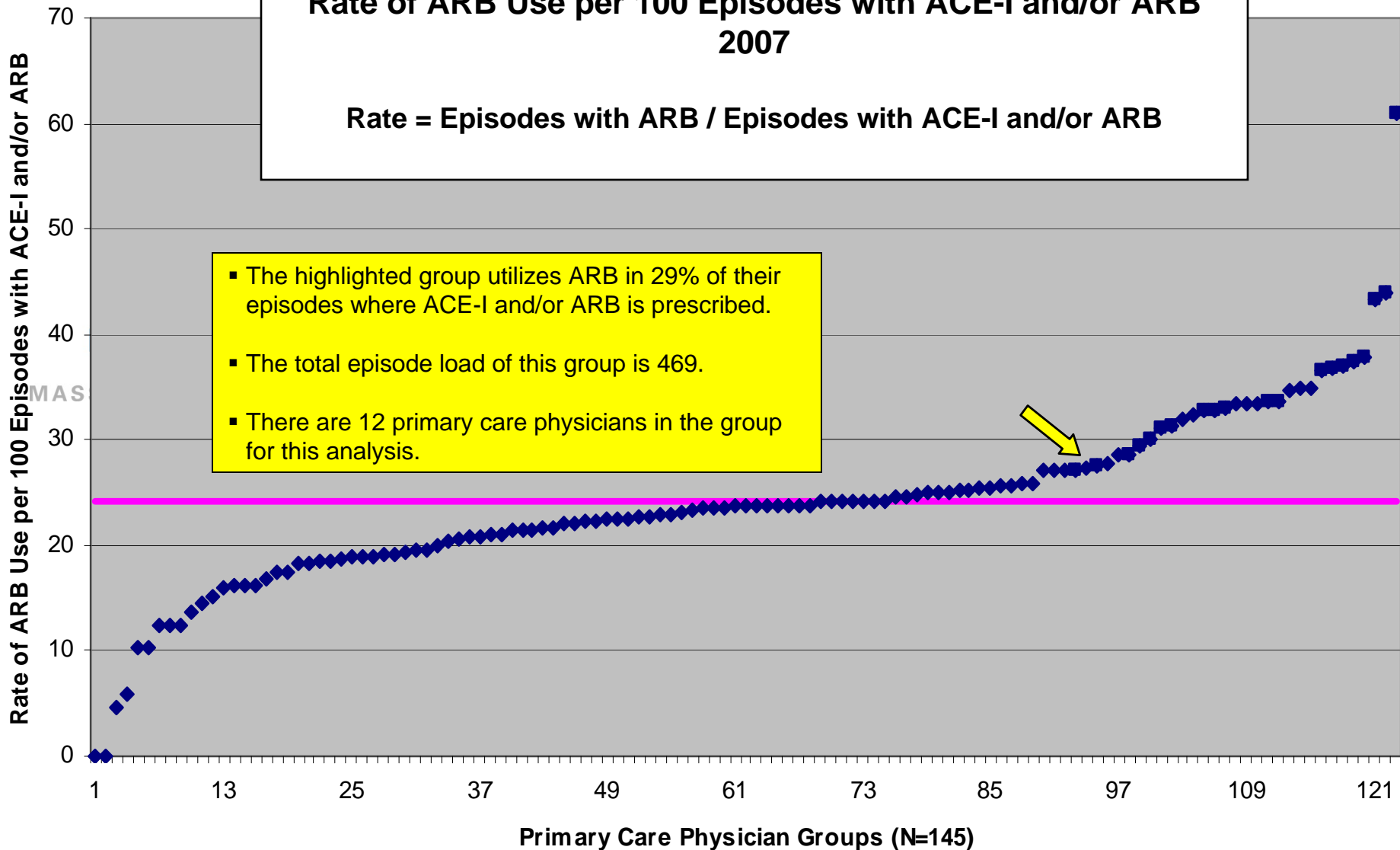
- 1304 Primary Care Physicians (41%) have rates for ARB use that are above the network average. (N=3178)
- The average count of 'Benign Hypertension, with and without comorbidity' episodes per physician in this analysis is 41.
- Physicians with rates above network average have an average episode load of 44.

Rate of Arb Use per 100 Episodes with ACE-I and/or ARB



**Benign Hypertension, With and Without Comorbidity
Primary Care Physicians by Group
Rate of ARB Use per 100 Episodes with ACE-I and/or ARB
2007**

Rate = Episodes with ARB / Episodes with ACE-I and/or ARB



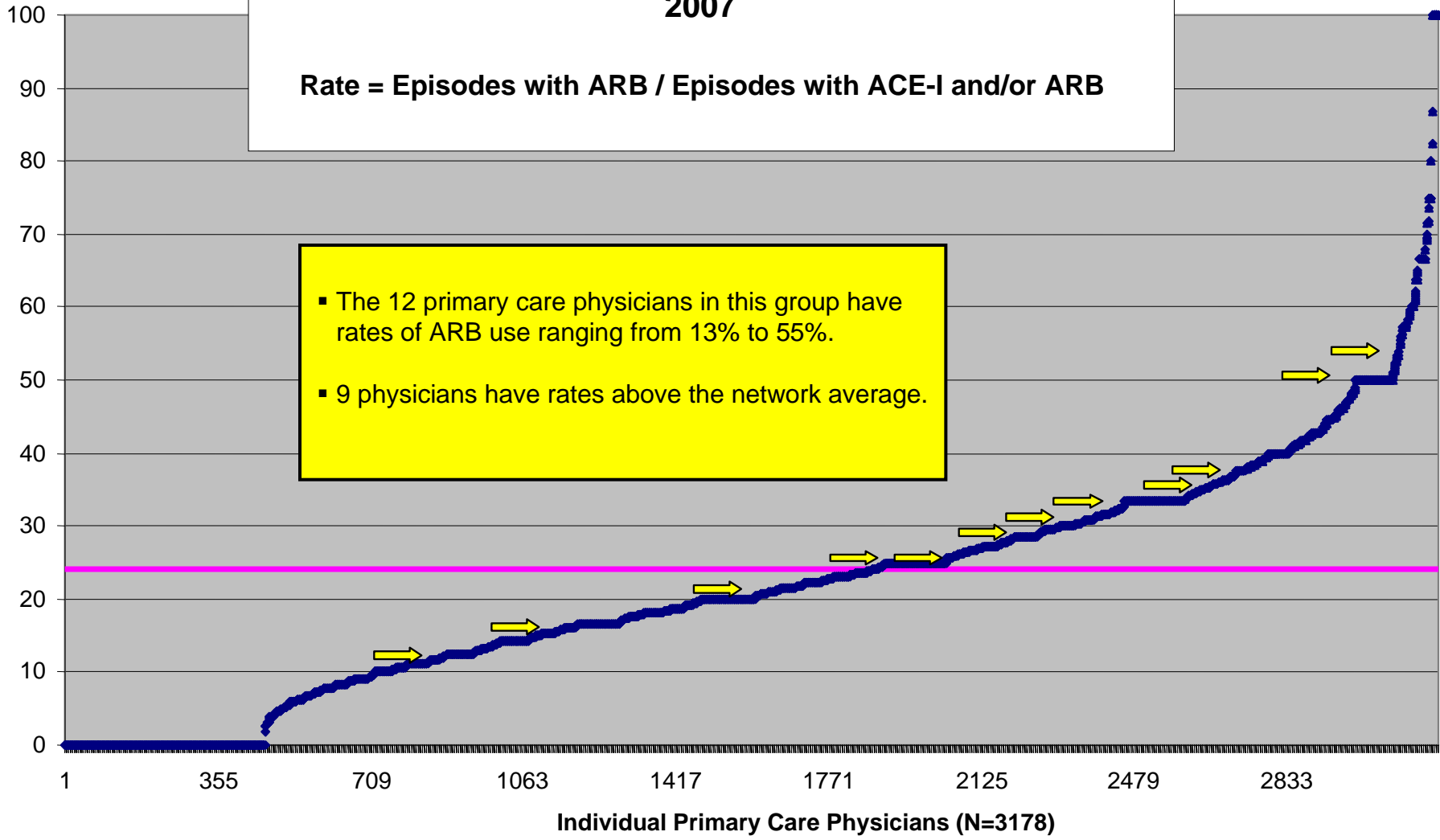


Benign Hypertension, With and Without Comorbidity Individual Primary Care Physicians Rate of ARB Use per 100 Episodes with ACE-I and/or ARB 2007

$$\text{Rate} = \text{Episodes with ARB} / \text{Episodes with ACE-I and/or ARB}$$

- The 12 primary care physicians in this group have rates of ARB use ranging from 13% to 55%.
- 9 physicians have rates above the network average.

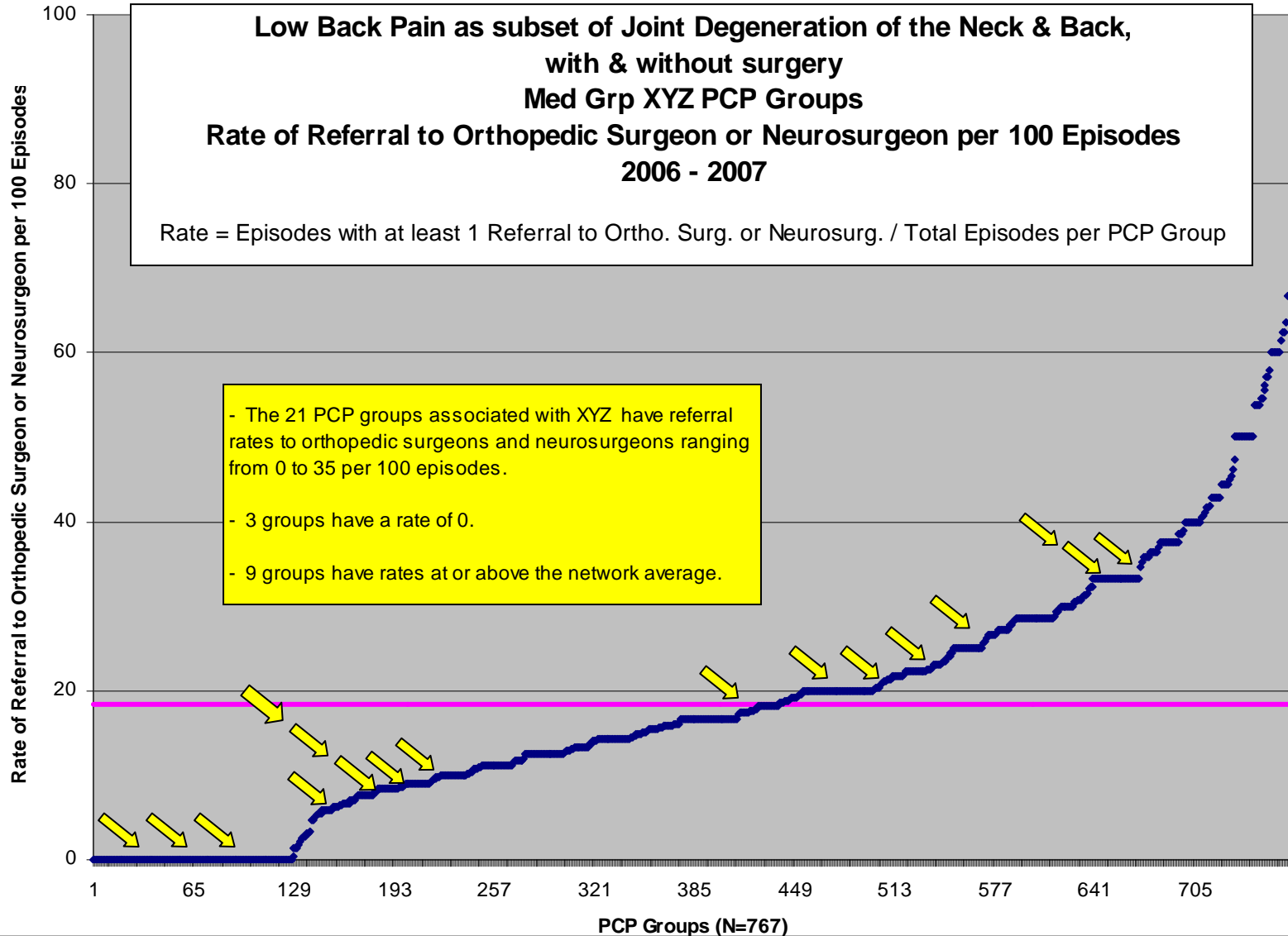
Rate of ARB Use per 100 Episodes with ACE-I and/or ARB



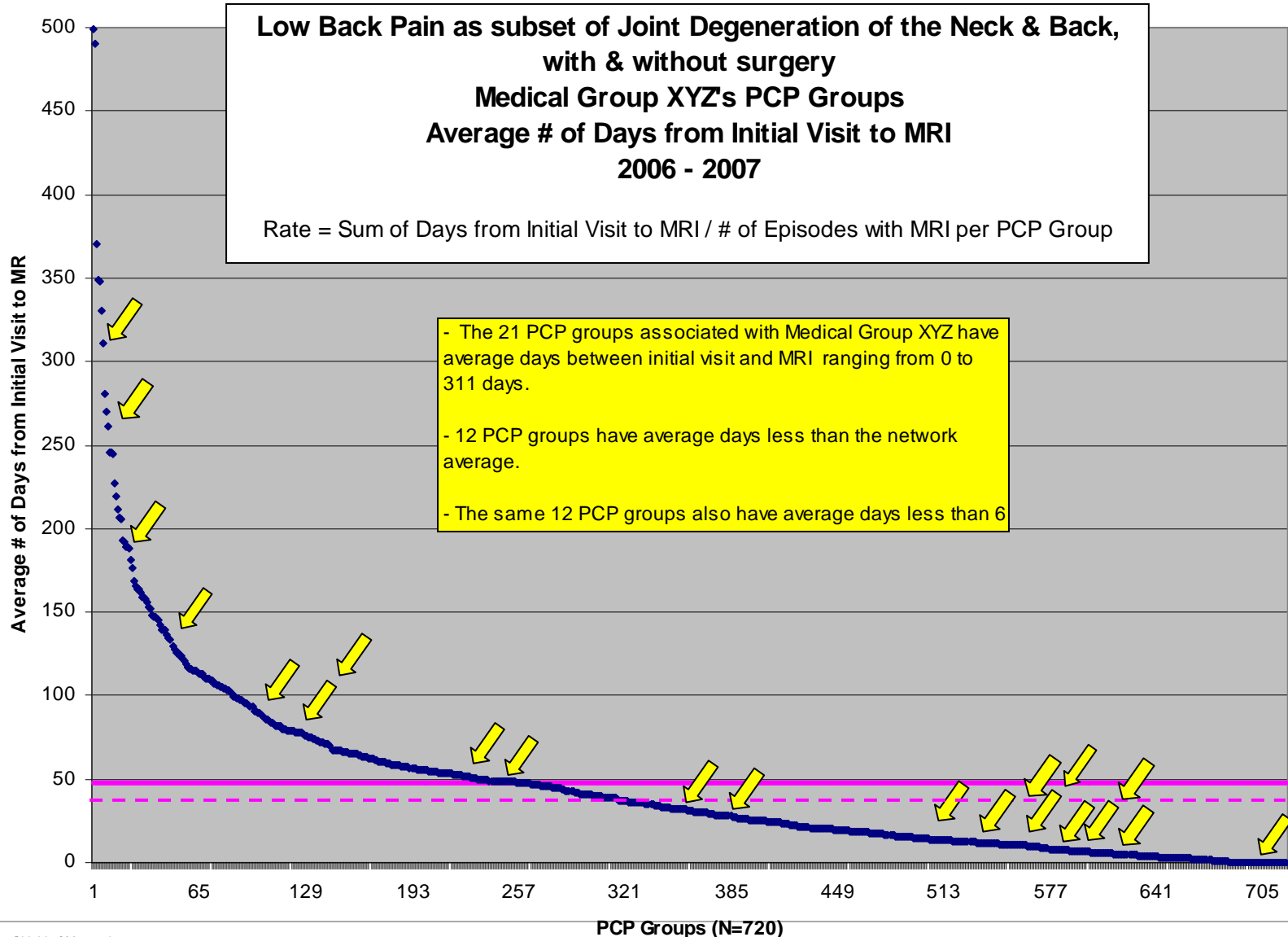
Variations in PCP Referral for Low Back Pain



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Variations in Days-to-MRI for Low Back Pain



Select PPVA Topics Provided to AQC Groups



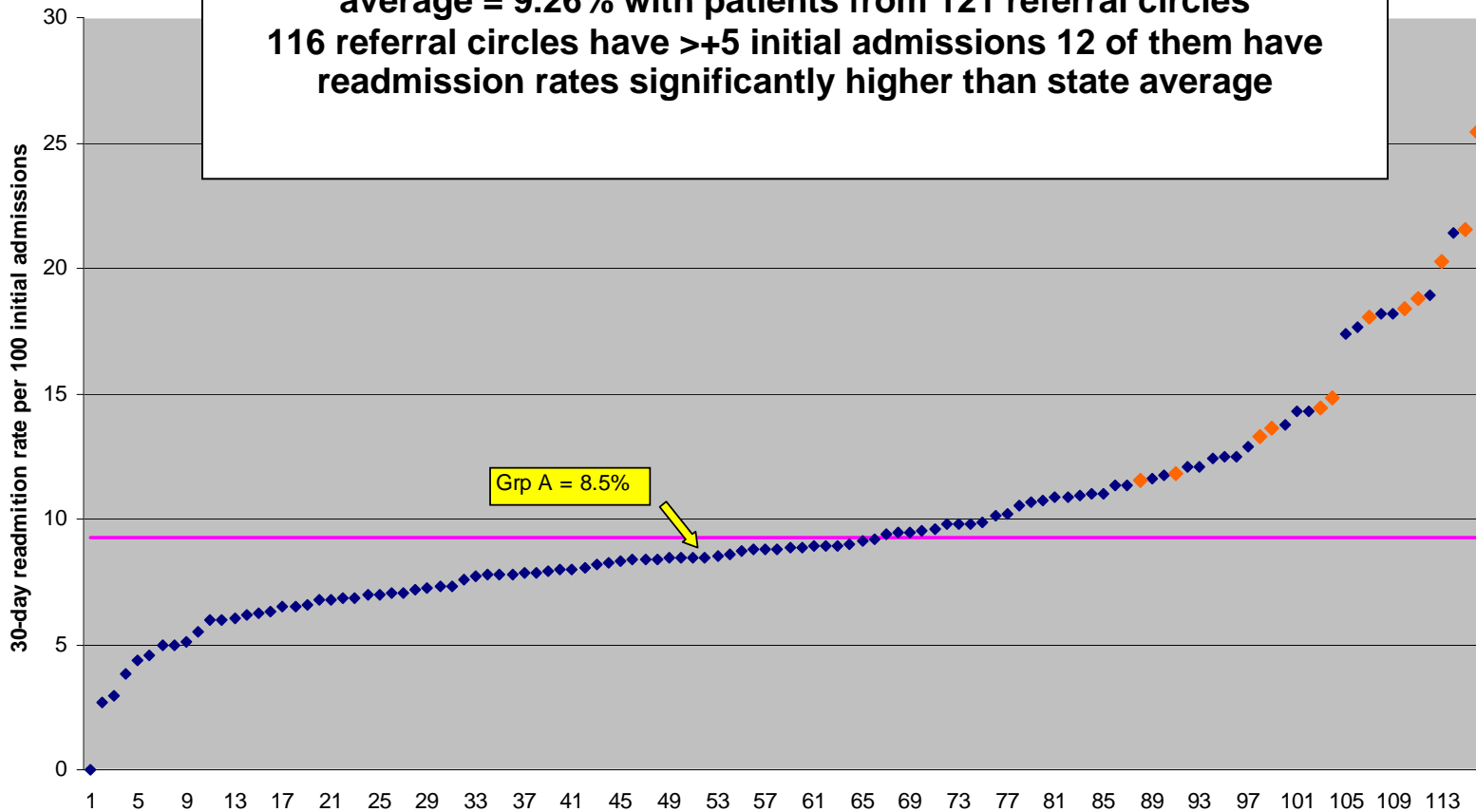
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Condition	Primary Drivers of Variation			
	Rx	Imaging	Specialty Referral	Procedure
Hyperlipidemia	X		X	
Benign Hypertension	X	X	X	
Inflammation of Esophagus			X	X
Joint Degeneration of Knee			X	X
Depression	X			
Migraine	X	X	X	
Inflammation of Skin	X		X	X
CAD, Ischemic Heart Disease (except CHF, w/o AMI)	X	X	X	X
Sinusitis (Acute & Chronic), Allergic Rhinitis	X		X	X
Arthritis	X		X	
Low Back Pain	X	X	X	X

Avoidable Use of Hospital Resources
Ambulatory Care Sensitive Admissions
Non-Urgent Emergency Department Utilization
30 Day All-cause Readmissions

Variation in 30-Day Readmission Rates by PCP Group

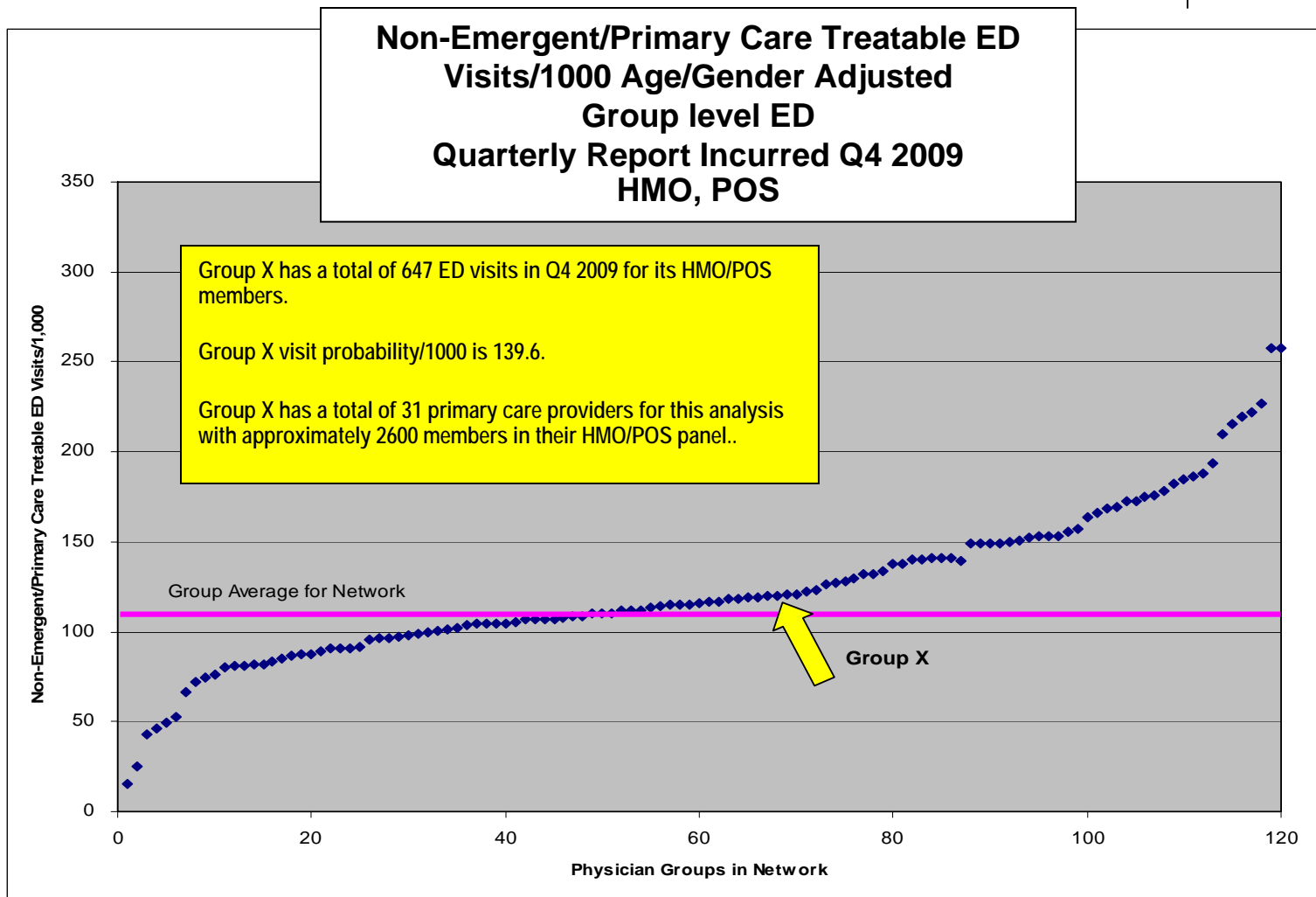
30-day all-cause readmissions rate
CY2008 admissions excluding maternity and newborn HMO/POS
and Medicare HMO members with in-state referral circle PCPs state
average = 9.26% with patients from 121 referral circles
116 referral circles have >+5 initial admissions 12 of them have
readmission rates significantly higher than state average



Variation in Non-Emergent ED Visit Rate by PCP Group



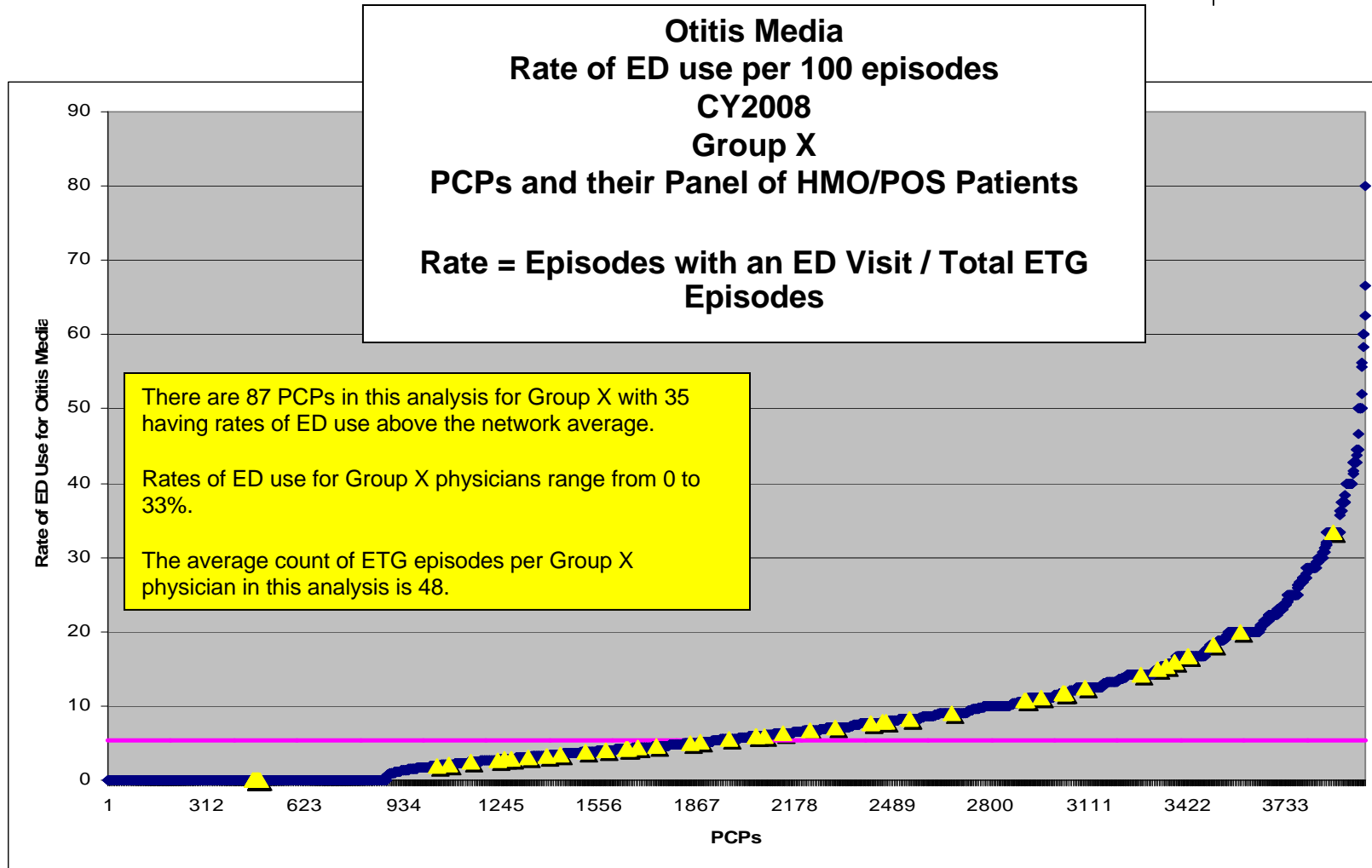
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Within-Group Variation in ED Visits for Otitis Media



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- Without measurement, we don't know where we are on the journey
- But imprecise measurement used in “high stakes” ways undermines our collective efforts
- Getting to “high stakes” implementation with reliable, valid measures does not have to take long
- Much is available and appropriate for high stakes uses already – but substantial and important gaps in our national measurement portfolio remain
- Early evidence of “improvability” is encouraging – even on measures that go beyond “process of care”
 - ...but requires broad organizational engagement, leadership and sustained effort
- Getting to safe, effective, affordable, patient-centered care will require ongoing use of valid, reliable performance measures, employed in ways that engage and align the interests of clinicians, patients, and health care institutions.

For More Information



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Doctor and the Doll by Norman Rockwell

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