

Identifying and Eliminating Unnecessary Variation in Care: The Missing Piece of ACO Success

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Our Task

- Ensure patients receive the right care at the right time at the right place by reducing overuse and underuse of services
- Achieve ACO financial viability
- Engage the professional community in a **respectful accountable** data driven process to promote optimal care
- Create clear, value driven, transparent goals that encourages the ACO and its partners to collaborate around a data driven process

Improving Value – Three Key Drivers

- Promoting prevention and reducing downstream costs **Long Term**
- Improving the Efficiency and Effectiveness of chronic disease care **Intermed Term**
- **Reducing overuse of unwarranted services** **Short Term**

WHY Focus on Overuse?

- Overuse reduces bottom line dollars for reinvestment
- Overuse use reduction can be used to capitalize the interventions needed to improve chronic care outcomes
- Results are comparatively rapid
- If selected well – provides actionable, justifiable recommendations
- Engages practitioners in the discussion of what is appropriate care
- IT WORKS!!

How to Reduce Overuse of Unwarranted Services

- **Identify Variation** – What high cost conditions have the most variation?
- **Understand Variation** – What causes the variation and **is it clinically appropriate?**
- **Address Variation** – How to successfully reduce unnecessary variation?

Why Variation?

- Separating cost and quality has failed – $V=Q+S/C$
- Quality can be defined in terms of reducing overuse, misuse and underuse (IOM)
- Physicians respond to conversations around appropriateness
- One important marker of appropriateness is explaining variation in care that exists
- **Peer comparison data about measures anchored in evidence of benefit is the most powerful motivator of behavior change**

Beckman H. Ann Intern Med. 2011;154:430

What is Variation Analysis?

Variation analysis provides the ACO with clear, succinct and clinically based answers to five very important questions:

1. What Disease Conditions account for the Highest Cost?
2. What are the Key Cost Drivers within each Disease Condition?
3. What variation exists within each Key Cost Driver?
4. How does one select the right opportunities to Reduce Costs?
5. How does one achieve measureable savings while Maintaining or Improving Quality?

Why So Much Variation?

| Basis of Decisions | Number of Decisions* | % of Total |
|----------------------------------|----------------------|------------|
| Experience/Anecdote | 441 | 37.1 |
| Arbitrary/Instinct | 175 | 14.7 |
| Trained to do it | 173 | 14.6 |
| General Study | 146 | 12.3 |
| First Principles | 146 | 12.3 |
| Limited Study | 61 | 5.1 |
| Specific Study | 34 | 2.9 |
| Parental Preference | 6 | 0.5 |
| For Research | 4 | 0.3 |
| Avoid a Lawsuit | 2 | 0.2 |
| * Rounded to the nearest integer | 1188 | 100.0 |

Darst JR, et al. Deciding without Data. Congenital Heart disease. 2010;5:339

What is Required for Meaningful Variation Analysis?

- A significant sized data base (Sufficient volume - > 50,000 lives)
- Access to a Diagnostic Grouper (Risk stratify)
- Early practitioner involvement
- Asking the right questions (Getting to action)
 - What do you want me to do differently?
 - Is it the right thing to do?
- Treating interventions as Quality Improvement

Cost Analysis Blueprint for Completed Episodes

Episode End Date Data Period: 12 Months

Dates of Service: 19 Months

Confidential

Illustrative Data

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MPPT V12 MPPT technology is patented and otherwise proprietary.

Key:

| Condition, ETG number | | |
|-----------------------|------------|-----------------|
| Analyzed \$ | Multiplier | Extrap \$\$ |
| Inlier F | | Comp F |
| Avg cost per episode | | |
| inlier epi cnt | | outlier epi cnt |

Total Dollars Completed Inlier Episodes from Data Base: \$3,247,699,010

Sum of top ETG dollars: \$132,600,369

Percentage accounted for: 4%

Highest Cost ETG ← Lower Cost ETG

Internal Medicine Total dollars in top ETGs: \$132,600,369 % Specialty dollars in top ETGs: 35.3% Total inlier dollars attributed to specialty: \$375,980,726

| 1 Hypertension (388100) | | | 2 Diabetes (163000) | | | 3 Hyperlipidemia, other (164700) | | | 4 Asthma (438800) | | |
|--------------------------------|-------|---------------|------------------------|-------|---------------|----------------------------------|-------|--------------|------------------------|-------|--------------|
| \$52,925,879 | 2,575 | \$136,263,843 | \$40,367,350 | 2,892 | \$116,761,451 | \$24,603,498 | 2,705 | \$66,553,514 | \$14,703,642 | 2,533 | \$37,247,724 |
| 0.92 | | 0.42 | 0.91 | | 0.38 | 0.90 | | 0.41 | 0.91 | | 0.43 |
| 46% Rx; 28% management; 1% Lab | | | 69% Rx; 17% management | | | 70% Rx; 15% management | | | 69% Rx; 16% management | | |
| \$759 | | | \$2,269 | | | \$490 | | | \$1,015 | | |
| 69,768 | | 6,225 | 17,794 | | 1,738 | 50,260 | | 5,348 | 14,488 | | 1,396 |

Family Practice Total dollars in top ETGs: \$36,370,145 % Specialty dollars in top ETGs: 30.4% Total inlier dollars attributed to specialty: \$119,594,523

| 1 Hypertension (388100) | | | 2 Diabetes (163000) | | | 3 Hyperlipidemia, other (164700) | | | 4 Asthma (438800) | | |
|-------------------------|-------|--------------|------------------------|-------|--------------|----------------------------------|-------|--------------|------------------------|-------|--------------|
| \$14,124,240 | 2,549 | \$36,005,459 | \$10,514,147 | 2,892 | \$30,408,646 | \$6,746,546 | 2,688 | \$18,132,910 | \$4,985,211 | 2,487 | \$12,396,045 |
| 0.93 | | 0.42 | 0.91 | | 0.38 | 0.91 | | 0.41 | 0.93 | | 0.43 |
| 43% Rx | | | 66% Rx; 19% management | | | 67% Rx; 17% management | | | 69% Rx; 17% management | | |
| \$646 | | | \$1,903 | | | \$446 | | | \$840 | | |
| 21,881 | | 1,717 | 5,525 | | 539 | 15,142 | | 1,504 | 5,935 | | 452 |

Cardiovascular Disease Total dollars in top ETGs: \$31,727,779 % Specialty dollars in top ETGs: 62.6% Total inlier dollars attributed to specialty: \$50,722,225

| 1 Ischemic Heart Disease (386500) | | | 2 Hypertension (388100) | | | 3 Hyperlipidemia, other (164700) | | | 4 Diabetes (163000) | | |
|-----------------------------------|-------|--------------|-------------------------|-------|--------------|----------------------------------|-------|--------------|---------------------|-------|-------------|
| \$14,734,997 | 3,156 | \$46,500,872 | \$8,731,280 | 2,623 | \$22,903,208 | \$6,992,502 | 2,586 | \$18,080,109 | \$1,269,001 | 2,939 | \$3,729,158 |
| 0.83 | | 0.38 | 0.90 | | 0.42 | 0.95 | | 0.41 | 0.90 | | 0.38 |
| 38% Rx; 18% diagnostic | | | 46% Rx | | | 88% Rx | | | 72% Rx | | |
| \$2,733 | | | \$994 | | | \$1,035 | | | \$2,030 | | |
| 5,392 | | 1,120 | 8,784 | | 964 | 6,757 | | 389 | 625 | | 72 |

Orthopedic Surgery Total dollars in top ETGs: \$53,751,123 % Specialty dollars in top ETGs: 45.5% Total inlier dollars attributed to specialty: \$118,100,785

| 1 | 2 | 3 | 4 |
|--|---|---|---|
| Joint degeneration, localized - thigh, hip & pelvis (712203) | Joint derangement - knee & lower leg (714302) | Joint degeneration, localized - knee & lower leg (712202) | Joint degeneration, localized - shoulder (712206) |

Potential Savings Blueprint

Ranked by Potential Savings...finding Actionable Projects

Cost Savings Blueprint - Pharmacy Confidential

Key:

| Condition, ETG number | | |
|-------------------------|------|----------|
| Condition # | Rank | % Spec # |
| Findings | | |
| Potential Savings: | | |
| % of specialty savings: | | |

HIGHEST COST (Vertical arrow pointing down)

Specialties (Vertical arrow pointing down)

HIGHEST COST (Horizontal arrow pointing left)

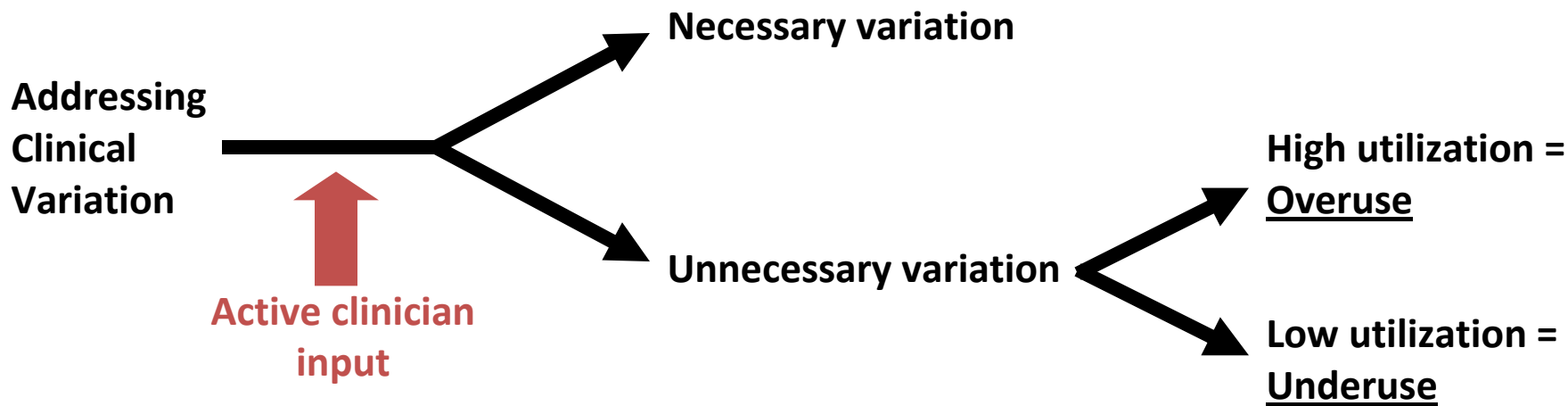
LOWEST COST (Horizontal arrow pointing right)

Conditions (Horizontal arrow pointing right)

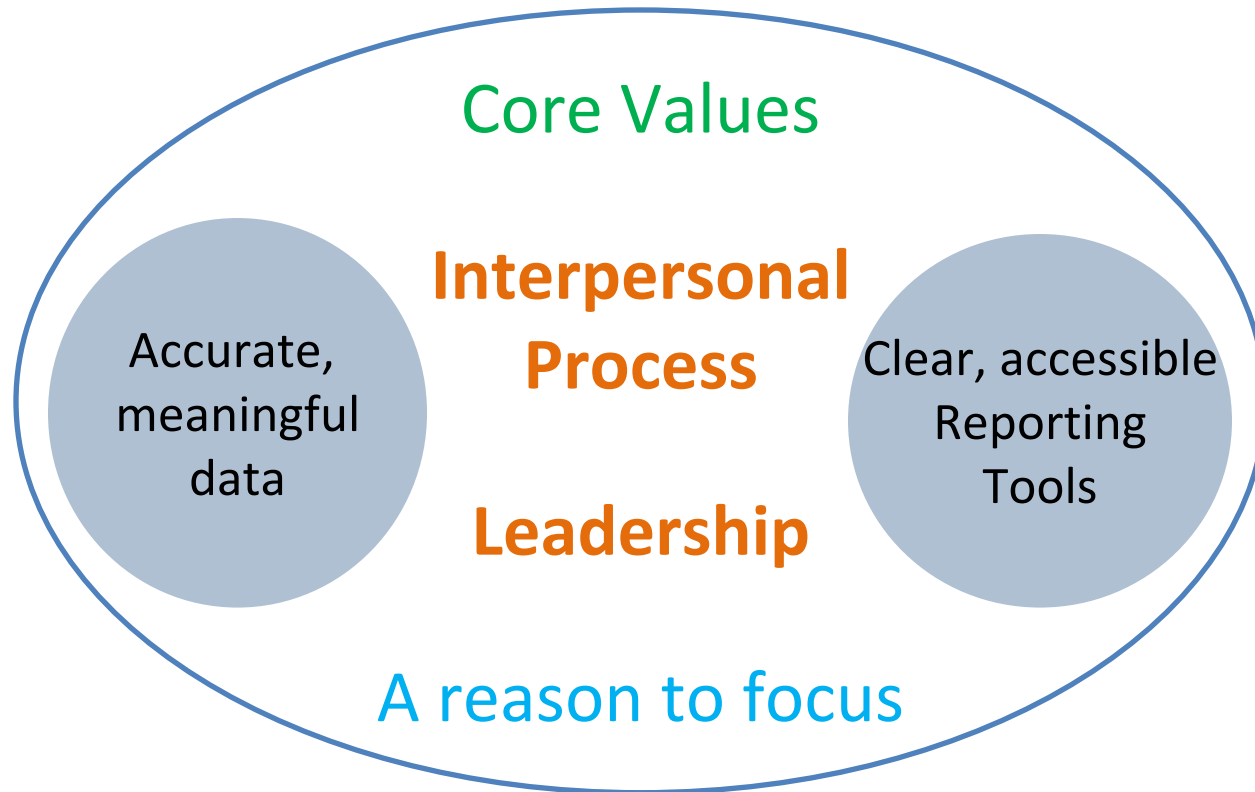
LOWEST COST (Horizontal arrow pointing right)

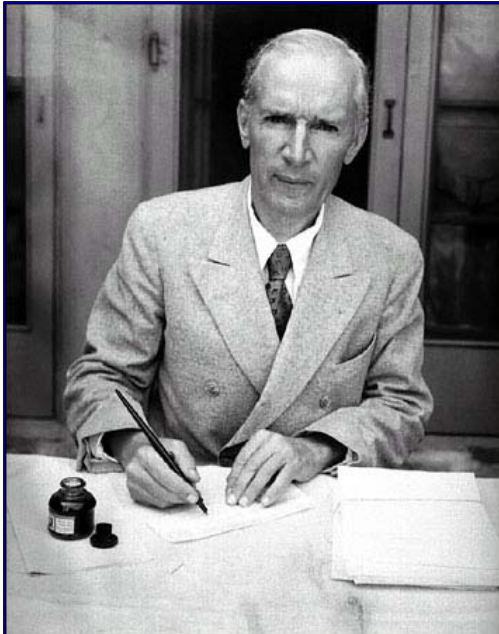
| Specialty | Condition | Rank | % Spec # | Potential Savings | % of Specialty Savings |
|-------------------|--|------|----------|-------------------|------------------------|
| Internal Medicine | Benign hypertension, w/o comorbidity, 0281 | 1 | 9.2% | \$33,925,620 | 8% |
| | Acute sinusitis, 0333 | 2 | 8.4% | \$28,922,605 | 7% |
| | Migraine headache, common, 0168 | 3 | 6.5% | \$12,705,445 | 5% |
| | Inflammation of the esophagus, w/o surgery, 0433 | 4 | 5.1% | \$8,000,000 | 4% |
| | Benign hypertension, with comorbidity, 0280 | 5 | 4.8% | \$2,955,412 | 3% |
| Family Practice | Acute sinusitis, 0333 | 1 | 10.4% | \$29,937,280 | 7% |
| | Inflammation of the esophagus, w/o surgery, 0433 | 2 | 8.8% | \$24,378,115 | 3% |
| | Benign hypertension, w/o comorbidity, 0281 | 3 | 8.2% | \$18,054,214 | 3% |
| | Migraine headache, common, 0168 | 4 | 7.5% | \$10,648,044 | 5% |
| | Acute bronchitis, w/o comorbidity, age 5+, 0384 | 5 | 4.7% | \$7,507,007 | 7% |
| Mediatrics | Otitis media, w/o surgery, 0329 | 1 | 5.2% | \$12,850,000 | 7% |
| | Tonsillitis, adenoiditis or pharyngitis, w/o surgery, 0331 | 2 | 5.4% | \$10,500,000 | 7% |
| | Attention Deficit Disorder, 0101 | 3 | 4.5% | \$7,062,720 | 5% |
| | Acute sinusitis, 0333 | 4 | 2.5% | \$4,050,800 | 7% |
| Gastroenterology | Inflammation of the esophagus, w/o surgery, 0433 | 1 | 9.4% | \$2,500,000 | 9.4% |
| | Gastroenterology disease signs & symptoms, 0486 | 2 | 6.8% | \$125,000 | 6.8% |
| | Gastritis and/or duodenitis, simple, 0435 | 3 | 5.1% | \$95,000 | 5.1% |
| | Ulcer, simple, 0438 | 4 | 4.5% | \$92,500 | 4.5% |

Choosing Clinically Appropriate Areas on which to Focus



Engaging Physicians in Change: All Are Required





“It is difficult to get a man to understand something when his salary depends on his not understanding it”

Upton Sinclair

“I, Candidate for Governor; and How I Got Licked”

Berkeley, CA University of California Press 1994. P. 109

Reprinted from the Original published in 1934

What do think motivates physician behavior change?

- Internal motivation
- External motivation

Self Determination Theory

- Developed by Ed Deci, Ph.D. and Richard Ryan, Ph.D.
- Proposes that internal motivation trumps external motivation
- Defines three areas responsible for internal motivation
 - Competence
 - Autonomy
 - Relatedness
 - In the context of synchronous core values

Promoting Internal Motivation: Competence

- Asking someone to accomplish something they believe is possible
- The need to feel that one can reliably produce desired outcomes and/or avoid negative outcomes

Autonomy

- Being given the chance to discover how to solve a problem; encouraged to own the solution
- Autonomy relates to the feeling that one is acting in accord with one's sense of self
- A sense of choosing rather than feeling compelled or controlled

Autonomy

- Without the possibility of choice, and the exercise of choice, a man is not a man but a member, an instrument, a thing.
- Autonomy requires that engagement in an activity is freely chosen in accordance with one's other goals and values

Relatedness

- The need to feel close to others and emotionally secure in one's relationships
- The sense that significant others care about one's well-being

Relatedness

- Believing one is being asked to be part of a larger task, goal, community (Doing meaningful work)
- Context values – Believing in the team asking for the effort. Feeling that the community involved in the project shares reasons for participating and conducts its work responsibly

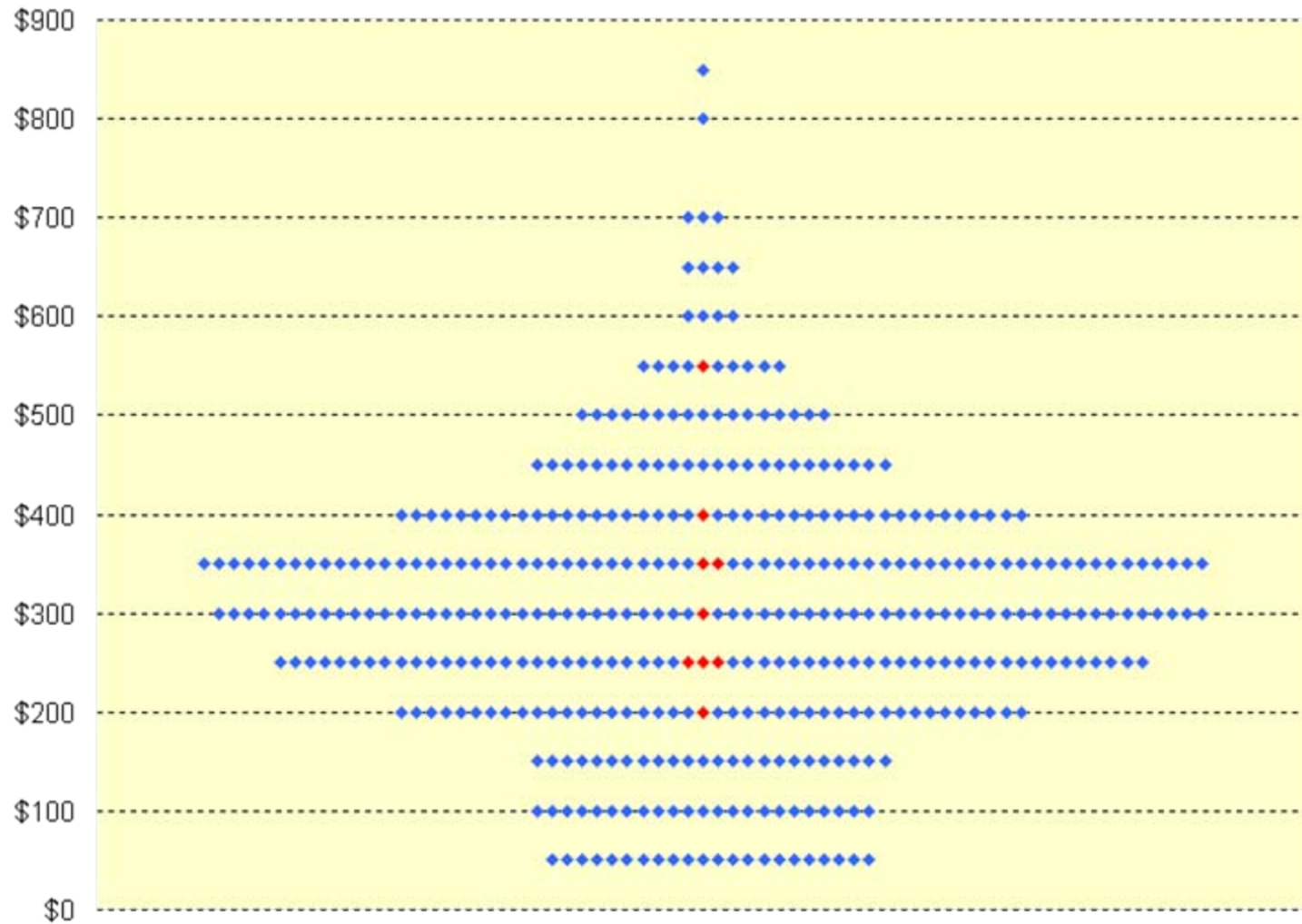
“Getting to Action”

Focus on the Unnecessary Variation

- Avoids focus on non-essential behaviors
- Moves physicians to a clinical discussion
 - “Here is the variation we observe.”
 - “What are your thoughts on why there is so much variation?”
 - “What does our local expert panel recommend?”

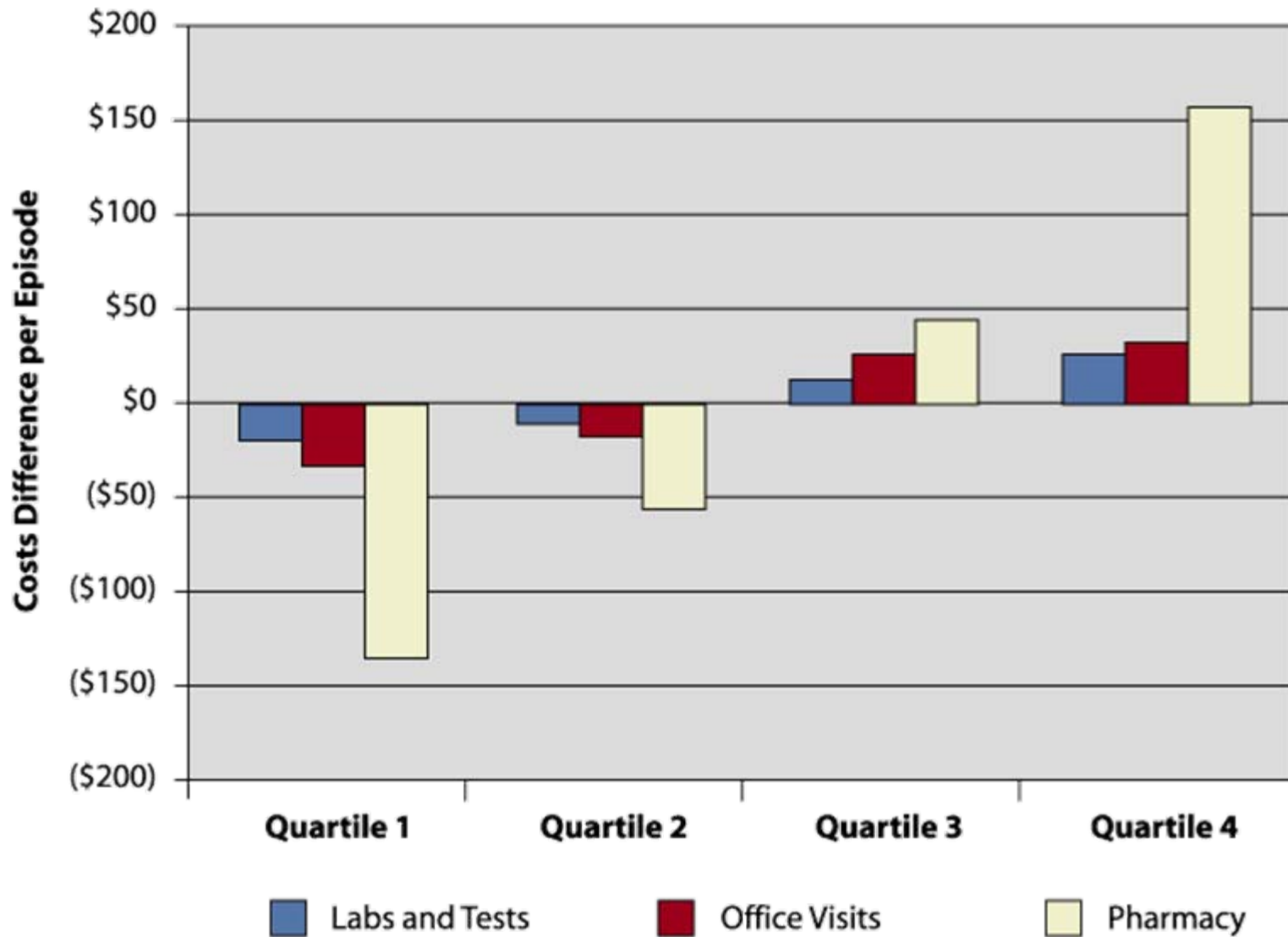
Internists HTN Rx Costs per Episode

1/1/2002-12/31/2003 data load

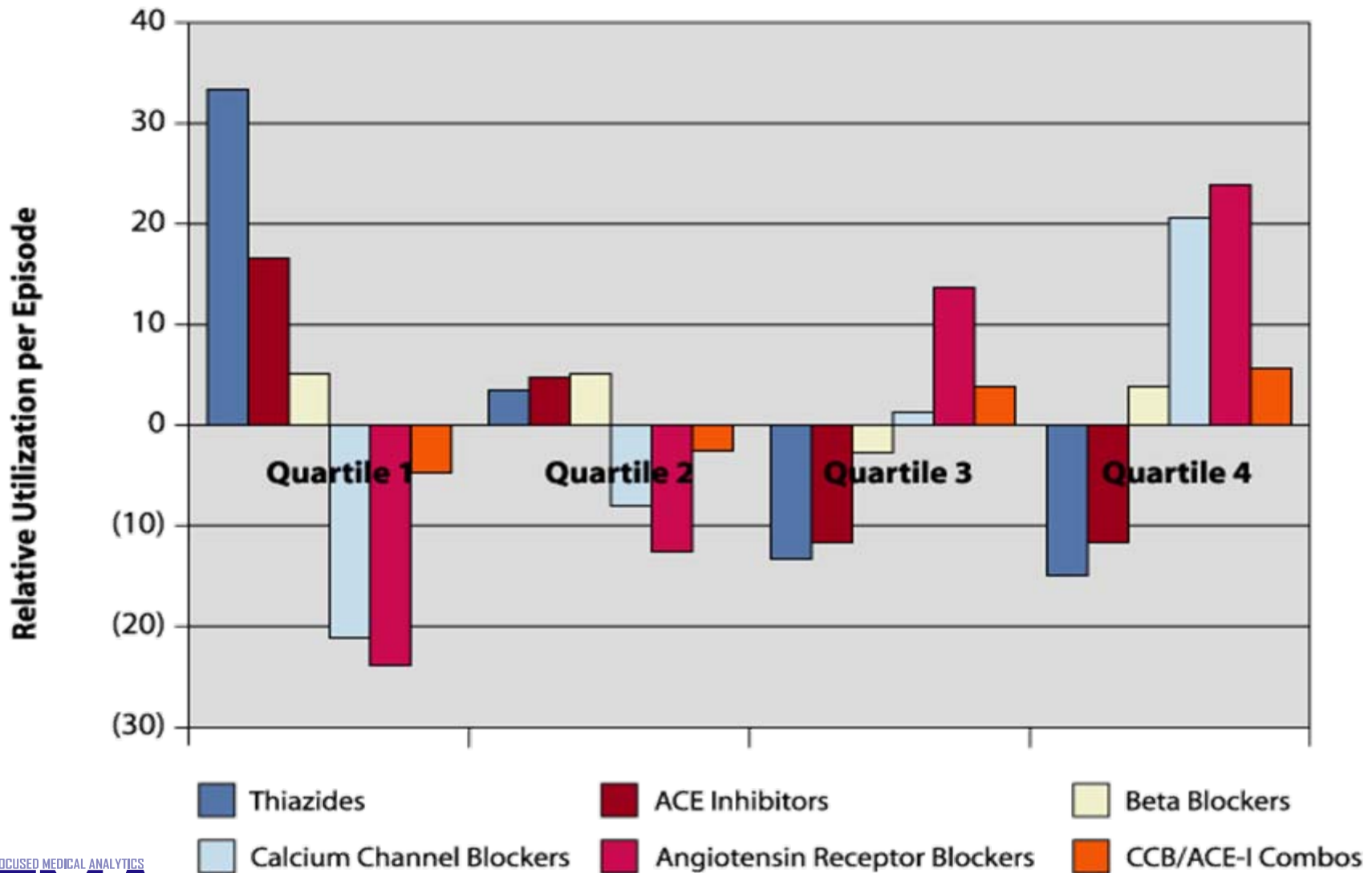


Advisory Committee members show in red.

What is Driving Costs?

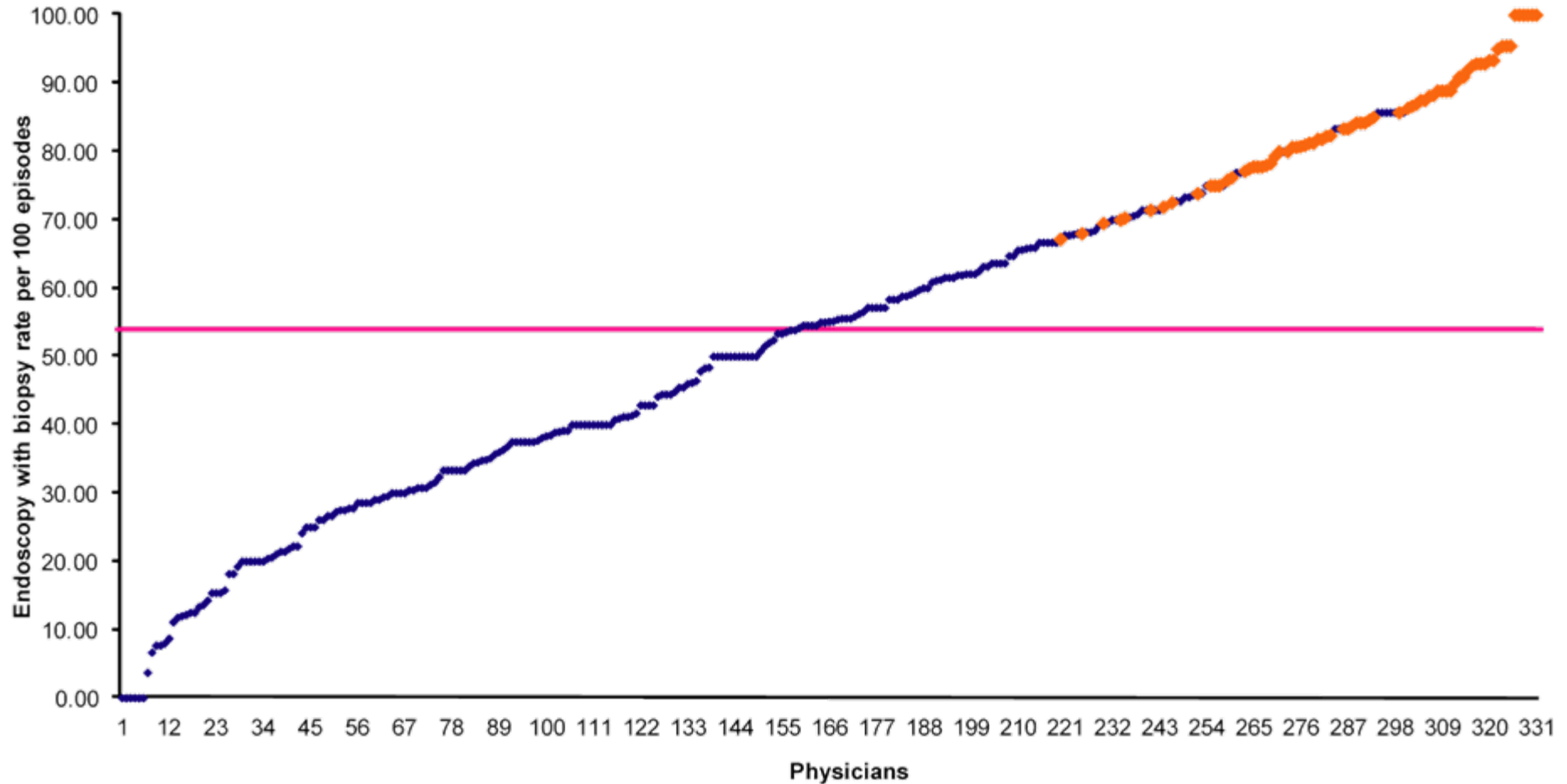


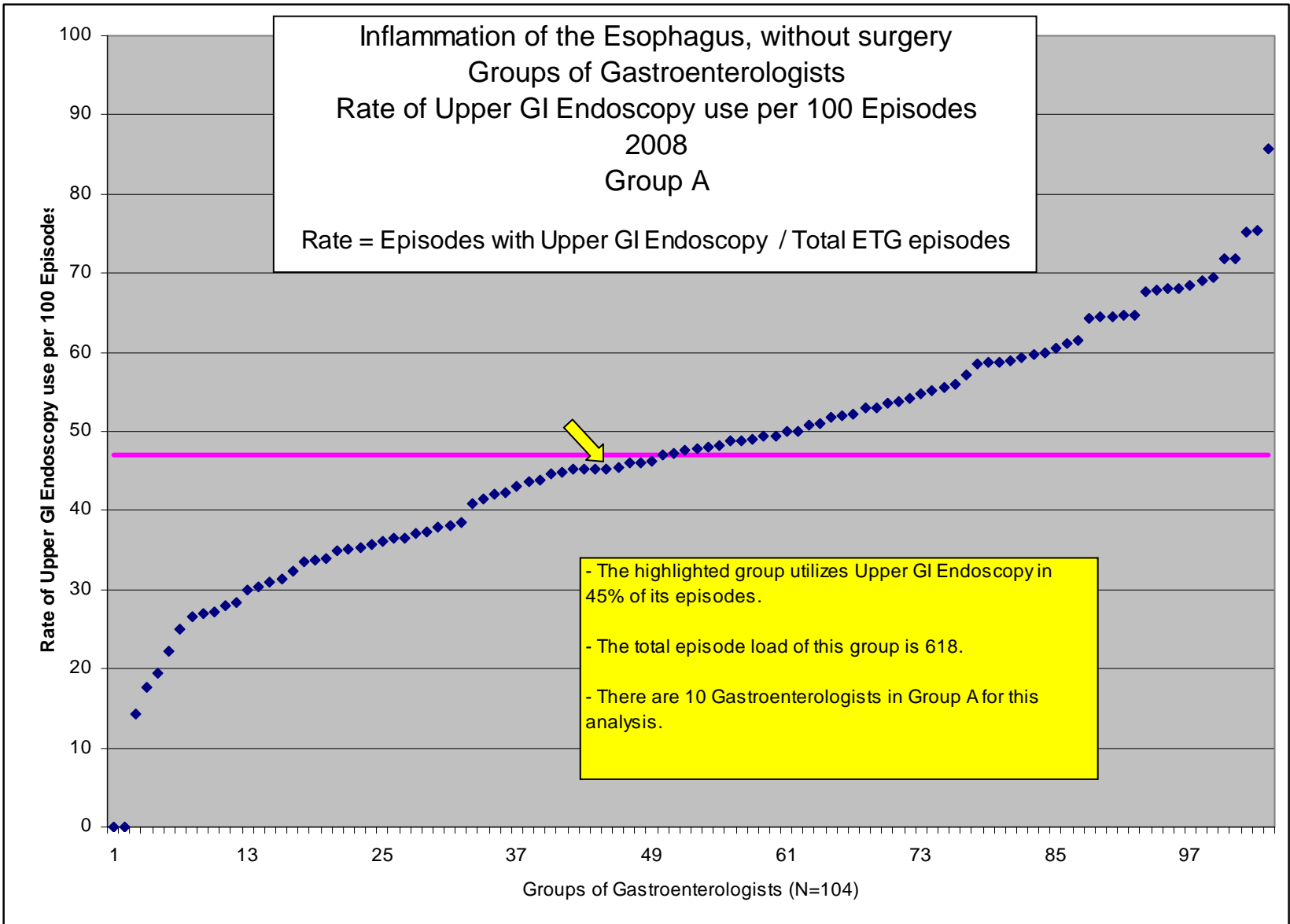
Analysis of Pharmacy Reveals Best Practice is Quartile 1

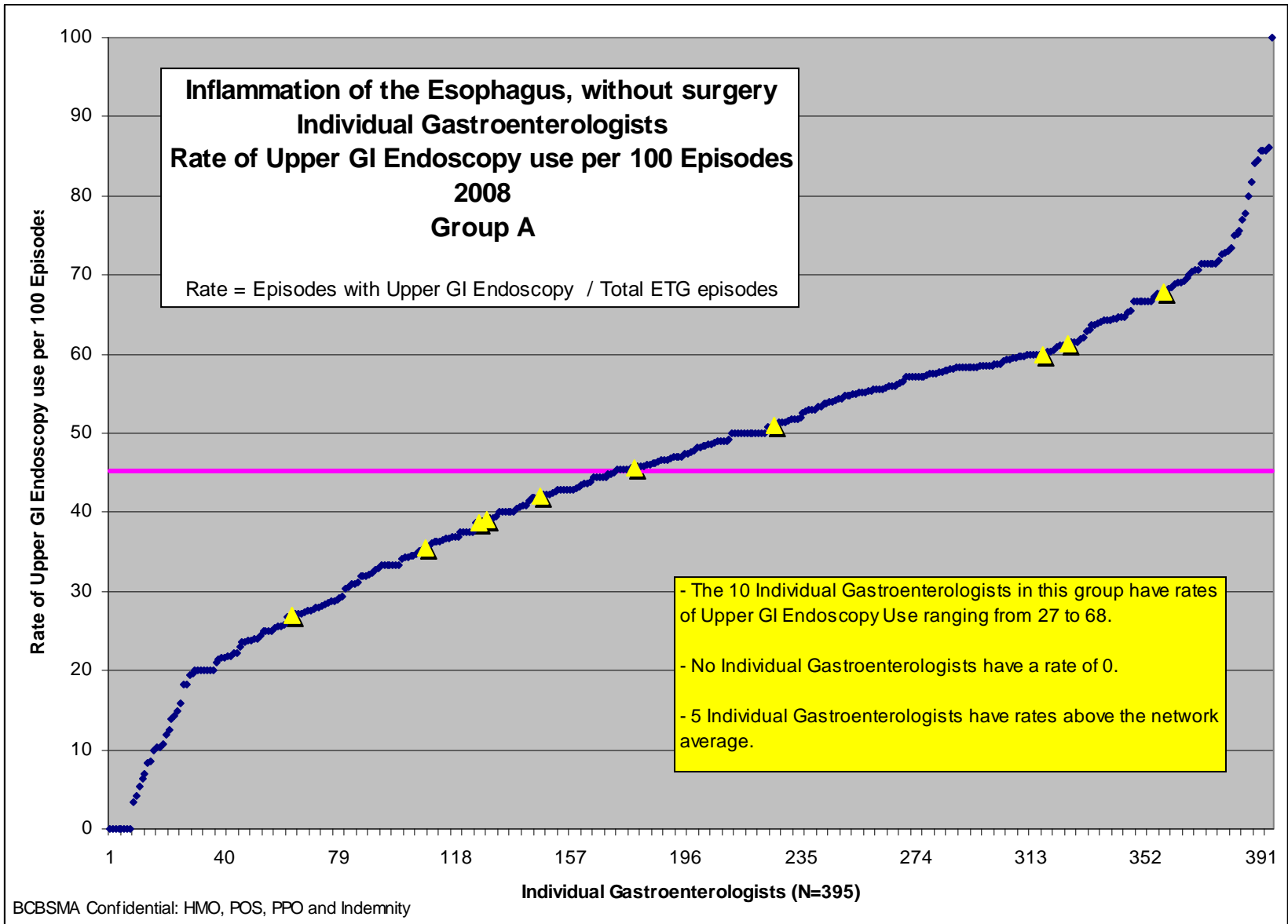


Gastroenterology
Inflammation of esophagus, w/o surgery etg 433
Endoscopy with Biopsy Rate per 100 episodes
Dates of Service: 12 Months
High tendency to use endoscopy with biopsy in an episode (orange)

ILLUSTRATIVE DATA







ETG 473300 Gastroenterology
 Inflammation of esophagus

ILLUSTRATIVE DATA

High percentage services: Surgery

BY CPT CODE

| quartile | service | brief service description | services per 100 episodes | services/episode occurred | Occurred in/# of episodes | total services | quartile episodes | total costs | total cost per quartile episode | difference per quartile episode | episodes this service occurred | Avg Cost (unit price) | % of total services (all codes) |
|----------|---------|---|---------------------------|---------------------------|---------------------------|----------------|-------------------|-------------|---------------------------------|---------------------------------|--------------------------------|-----------------------|---------------------------------|
| Q1 | 43235 | Upper gi endoscopy, diagnostic w collection of specimen | 10.32 | 1.02 | 0.10 | 87 | 843 | \$59,610 | \$80.85 | -\$0.07 | 85 | \$685.17 | 3.2% |
| Q2 | 43235 | Upper gi endoscopy, diagnostic w collection of specimen | 10.85 | 1.01 | 0.11 | 112 | 1,032 | \$90,466 | \$100.23 | \$19.31 | 111 | \$807.73 | 4.2% |
| Q3 | 43235 | Upper gi endoscopy, diagnostic w collection of specimen | 8.67 | 1.02 | 0.08 | 89 | 1,027 | \$82,292 | \$91.62 | \$10.70 | 87 | \$924.63 | 3.3% |
| Q4 | 43235 | Upper gi endoscopy, diagnostic w collection of specimen | 3.77 | 1.00 | 0.04 | 38 | 1,009 | \$44,414 | \$50.33 | -\$30.59 | 38 | \$1,168.79 | 1.4% |
| Q1 | 43239 | Upper gi endoscopy, with biopsy (single/multiple) | 44.48 | 1.01 | 0.44 | 375 | 843 | \$308,578 | \$418.53 | -\$185.11 | 371 | \$822.88 | 14.0% |
| Q2 | 43239 | Upper gi endoscopy, with biopsy (single/multiple) | 55.04 | 1.03 | 0.54 | 568 | 1,032 | \$531,148 | \$588.47 | -\$15.17 | 553 | \$935.12 | 21.1% |
| Q3 | 43239 | Upper gi endoscopy, with biopsy (single/multiple) | 57.74 | 1.05 | 0.55 | 593 | 1,027 | \$592,249 | \$659.36 | \$55.72 | 566 | \$998.73 | 22.1% |
| Q4 | 43239 | Upper gi endoscopy, with biopsy (single/multiple) | 56.69 | 1.05 | 0.54 | 572 | 1,009 | \$632,811 | \$717.09 | \$113.45 | 547 | \$1,106.31 | 21.3% |
| Q1 | 45378 | Colonoscopy, diagnostic w/w/o collection of specimen | 3.68 | 1.00 | 0.04 | 31 | 843 | \$25,193 | \$34.17 | \$1.35 | 31 | \$812.68 | 1.2% |
| Q2 | 45378 | Colonoscopy, diagnostic w/w/o collection of specimen | 4.07 | 1.00 | 0.04 | 42 | 1,032 | \$36,519 | \$40.46 | \$7.64 | 42 | \$869.49 | 1.6% |
| Q3 | 45378 | Colonoscopy, diagnostic w/w/o collection of specimen | 2.82 | 1.00 | 0.03 | 29 | 1,027 | \$24,400 | \$27.17 | -\$5.65 | 29 | \$841.38 | 1.1% |
| Q4 | 45378 | Colonoscopy, diagnostic w/w/o collection of specimen | 2.68 | 1.04 | 0.03 | 27 | 1,009 | \$26,149 | \$29.63 | -\$3.19 | 26 | \$968.48 | 1.0% |
| Q1 | 45380 | Colonoscopy, with biopsy (single/multiple) | 1.78 | 1.00 | 0.02 | 15 | 843 | \$10,569 | \$14.34 | -\$23.21 | 15 | \$704.62 | 0.6% |
| Q2 | 45380 | Colonoscopy, with biopsy (single/multiple) | 3.10 | 1.00 | 0.03 | 32 | 1,032 | \$33,794 | \$37.44 | -\$0.11 | 32 | \$1,056.06 | 1.2% |
| Q3 | 45380 | Colonoscopy, with biopsy (single/multiple) | 3.41 | 1.00 | 0.03 | 35 | 1,027 | \$32,602 | \$36.30 | -\$1.25 | 35 | \$931.49 | 1.3% |
| Q4 | 45380 | Colonoscopy, with biopsy (single/multiple) | 4.16 | 1.00 | 0.04 | 42 | 1,009 | \$51,468 | \$58.32 | \$20.78 | 42 | \$1,225.44 | 1.6% |
| | | | | | | 2,687 | | \$2,582,264 | | | 2,610 | | 100.0% |

| Doctor Code | % of physician episodes surgical | % orthopedic specialty episodes surgical | % episodes with arthrodesis | % episodes with decompression | % episodes laminectomy | % episodes laminotomy | average episode dollars with surgery | average episode dollars without surgery | average all neck and bac episode dollars |
|-------------|----------------------------------|--|-----------------------------|-------------------------------|------------------------|-----------------------|--------------------------------------|---|--|
| 285 | 18 | 15 | 7.2% | 2.4% | 6.7% | 4.3% | \$14,576 | \$3,021 | \$5,132 |
| 287 | 19 | 15 | 7.4% | 2.8% | 7.4% | 1.9% | \$20,339 | \$4,252 | \$7,231 |
| 288 | 19 | 15 | 11.6% | 3.5% | 3.5% | 5.5% | \$16,531 | \$3,297 | \$5,752 |
| 289 | 19 | 15 | 6.3% | 0.0% | 0.0% | 0.0% | \$16,783 | \$3,154 | \$5,709 |
| 290 | 19 | 15 | 5.6% | 4.4% | 4.4% | 3.3% | \$9,948 | \$3,212 | \$4,484 |
| 312 | 23 | 15 | 14.8% | 8.5% | 7.7% | 4.9% | \$19,168 | \$2,810 | \$6,553 |
| 313 | 23 | 15 | 0.0% | 0.0% | 0.0% | 0.0% | \$12,695 | \$3,205 | \$5,395 |
| 314 | 23 | 15 | 0.0% | 0.0% | 0.0% | 0.0% | \$32,818 | \$2,626 | \$9,593 |
| 315 | 23 | 15 | 18.2% | 11.6% | 7.6% | 2.5% | \$24,512 | \$3,952 | \$8,728 |
| 316 | 23 | 15 | 0.0% | 0.0% | 0.0% | 0.0% | \$16,610 | \$2,772 | \$6,001 |
| 317 | 24 | 15 | 0.0% | 0.0% | 6.9% | 13.8% | \$9,250 | \$2,607 | \$4,211 |
| 335 | 29 | 15 | 19.7% | 4.6% | 11.6% | 13.3% | \$19,676 | \$3,145 | \$8,018 |
| 336 | 30 | 15 | 25.7% | 4.8% | 6.4% | 4.4% | \$15,852 | \$2,965 | \$6,795 |
| 337 | 32 | 15 | 0.0% | 0.0% | 0.0% | 0.0% | \$20,544 | \$3,524 | \$8,899 |
| 338 | 33 | 15 | 0.0% | 0.0% | 0.0% | 0.0% | \$14,194 | \$2,718 | \$6,543 |
| 339 | 45 | 15 | 30.8% | 14.6% | 13.1% | 20.8% | \$21,772 | \$3,438 | \$11,618 |
| 340 | 45 | 15 | 42.7% | 29.3% | 25.3% | 15.3% | \$25,192 | \$3,839 | \$13,377 |

Choosing the **Right** Project(s)

- Linked to community/organizational goals/objectives
- Meaningful anticipated \$\$ savings
- Directed towards specialties or types of services (meds vs. procedures vs. E&M) viewed as likely to succeed

“Actionable” Procedure Level Potential Savings

Scale: 0 Low, 4 High

| Procedure Oriented Projects | Specialties | ETG description | Potential Savings | Experience | Success of Changing Behavior | Level Of Difficulty |
|-----------------------------|---------------------|---------------------------|-------------------|------------|------------------------------|---------------------|
| Upper GI endoscopy | GI, FP, IM | Inflammation of Esophagus | \$2.20 pmpm | 2+ | 3+ | 2+ |
| Chiropractic services | Chiropracter | Neck & Back | \$2.19 pmpm | 0 | - | - |
| Spinal Injections | FP, IM, Ne, NeSURG, | Neck & Back | \$1.20 pmpm | 3+ | 3+ | 2+ |
| Back Surgery | Ortho | Neck & Back | \$.93 pmpm | 1+ | - | 3+ |
| MRI | Ortho, FP, IM | Neck & Back | \$1.20 pmpm | 4+ | 4+ | 2+ |
| Arthroplasty | Ortho | Knee | \$2.40 pmpm | 3+ | 1+ | 4+ |
| non-invasive cardiology | Card, FP, IM | Ischemic heart disease | \$1.00 pmpm | 4+ | 2+ | 2+ |
| nasal endoscopies | Otolaryngology | Chronic sinusitis | \$1.60 pmpm | 4+ | 3+ | 2+ |
| lithotripsy | Urology | Kideney stones | \$.94 pmpm | 0 | - | 2+ |

“Actionable” Drug Level Potential Savings

Scale: 0 Low, 4 High

| Drug Level Projects | Specialties | ETG description | Estimated Savings | Experience | Success of Changing Behavior | Level Of Difficulty |
|--|--------------------|--|--------------------------|-------------------|-------------------------------------|----------------------------|
| Generic ACE & ARBs | FP, IM | Hypertension | \$6.00 pmpm | 3+ | 2+ | 1+ |
| Move brand/high cost statin to simvastatin | FP, IM, Card | Hyperlipidemia and hypo-function thyroid gland | \$8.47 pmpm | 3+ | 3+ | 1+ |
| PPIs brand to generic | FP, IM | Inflammation of esophagus | \$4.67 pmpm | 3+ | 2+ | 1+ |
| Brand hypoglycemic agents vs. generic alternatives | FP, GP, IM, Endo | Diabetes | \$4.68 pmpm | 0 | - | - |
| Narcotics Impact | FP,IM, Ne, NeSUrg | Neck & Back | \$.65 pmpm | 3+ | 3+ | 2+ |
| Triptans | Ne, FP | Migraine headache | \$.41 pmpm | 0 | - | - |
| High cost antibiotics | FP, IM | Acute and Chronic Sinusitis | \$.60 pmpm | 4+ | 4+ | 1+ |

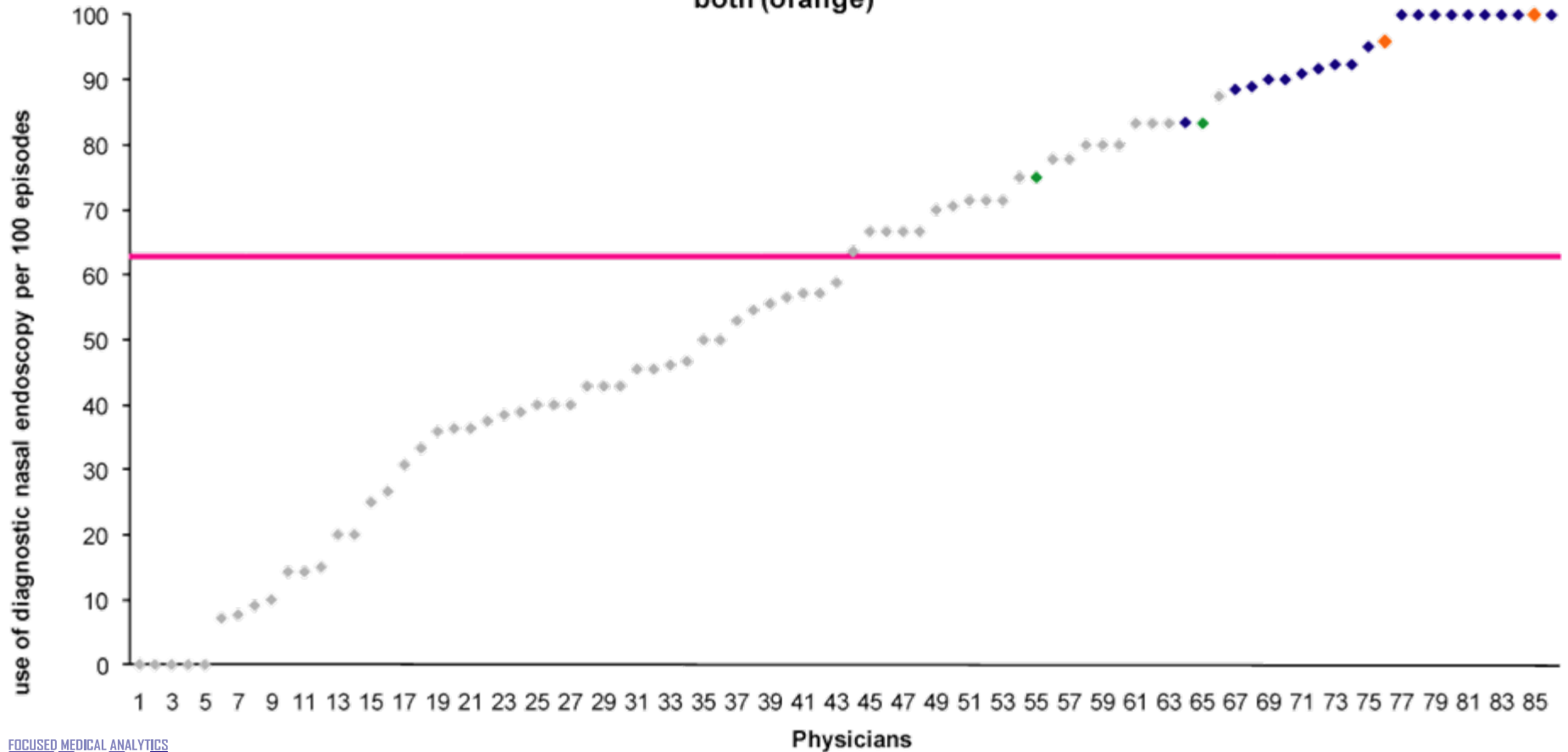
Choosing the **Right** Project(s)

- Focus where there is overlap with multiple products (Medicaid, Commercial, Medicare)
- Evidence based recommendations encourage eliminating overuse
- Clinical champion(s) available
- Choose projects with **actionable interventions**

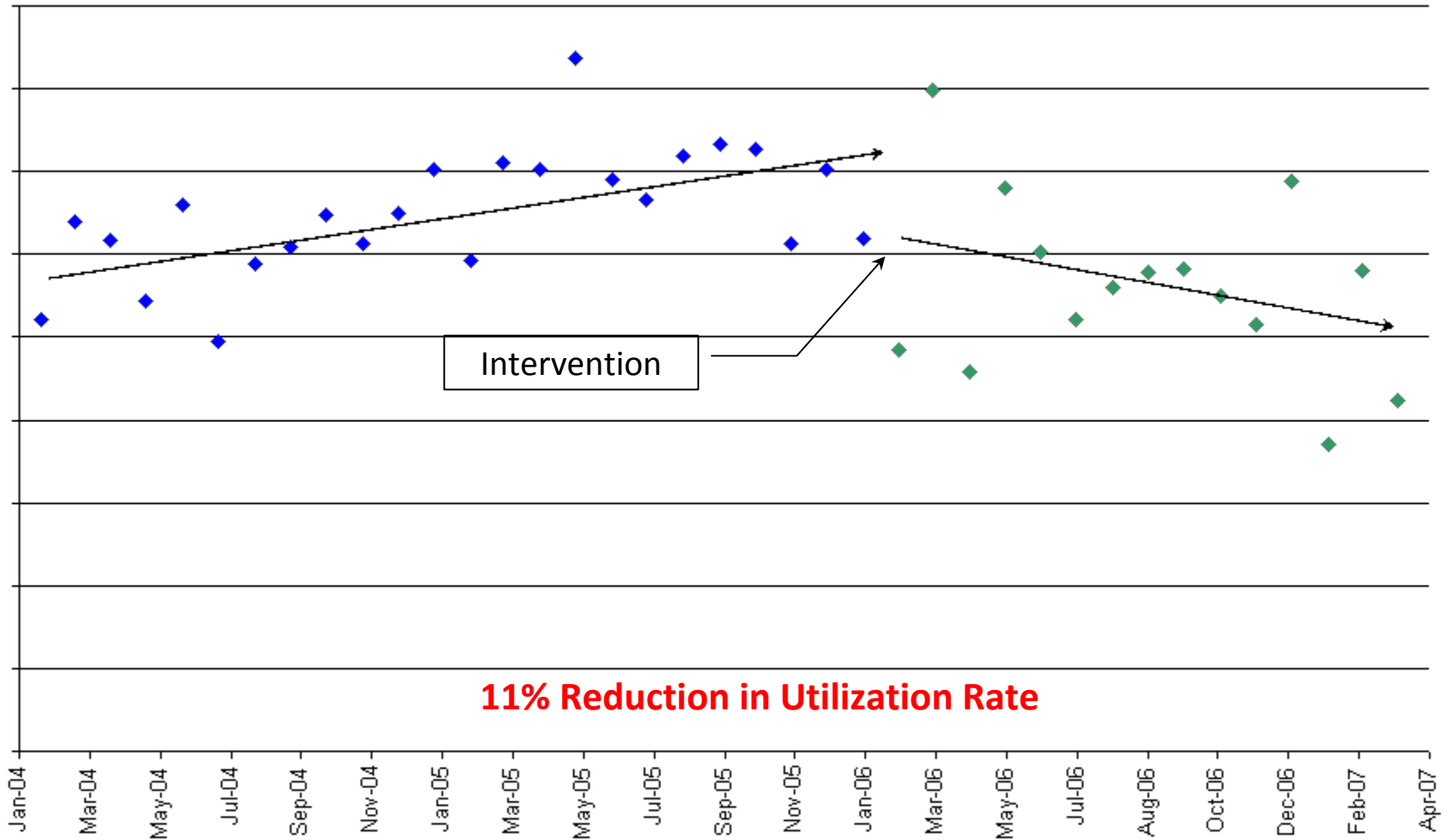
So What: Does it Work?

Laryngoscopy Case Mix Curve

Otolaryngology
Chronic Sinusitis, with surgery - etg 334
Use of Diagnostic Nasal Endoscopy per 100 episodes
high tendency to use dx nasal endoscopy in an episode (dark blue)
high number of dx nasal endoscopy in an episode (green)
both (orange)



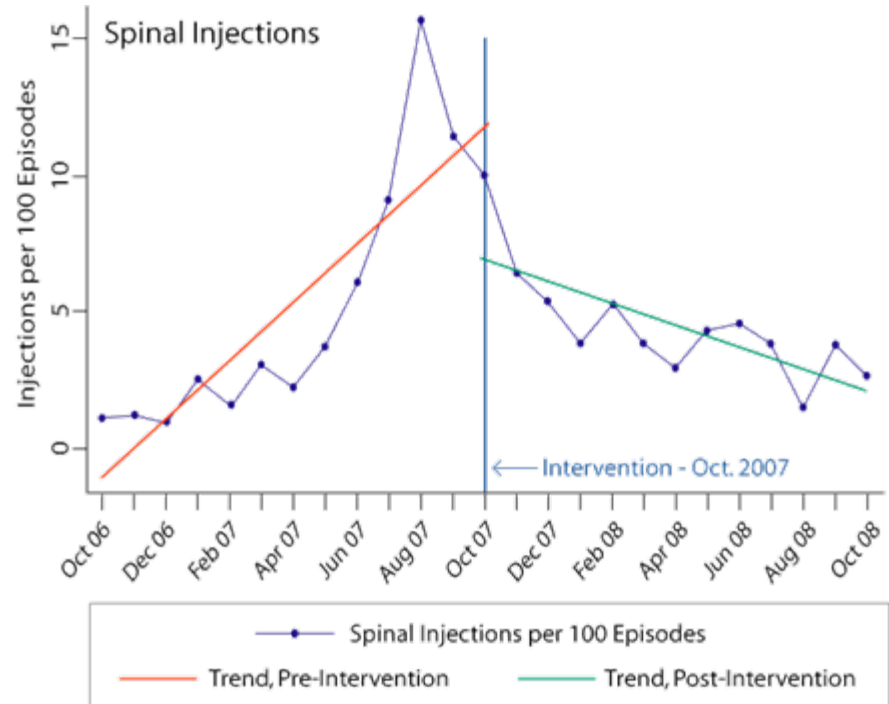
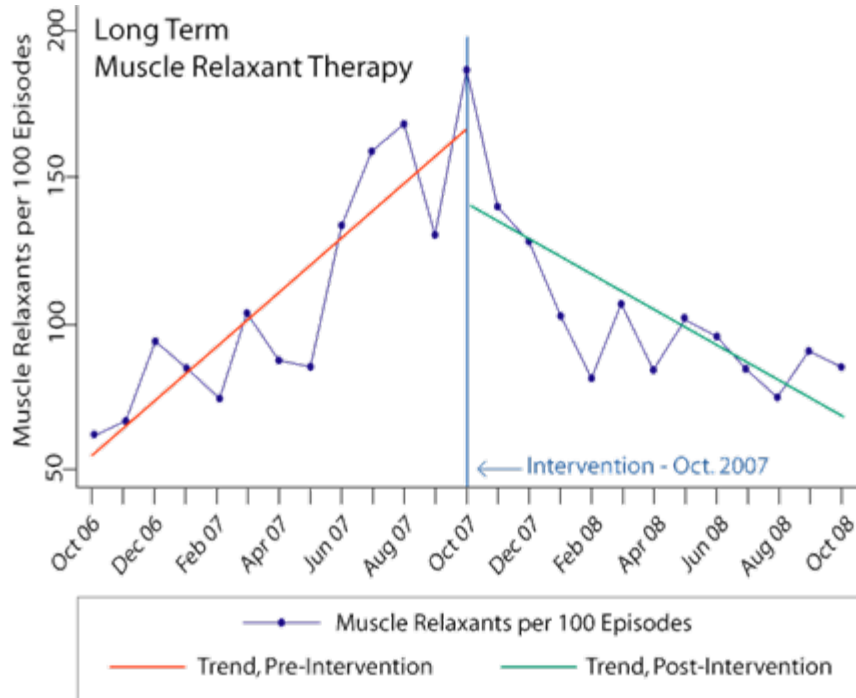
Outcome on ENT Fiberoptic Laryngoscopy



Greene RA, Beckman HB, Mahoney T. Beyond the Efficiency Index: Finding a better way to reduce overuse and increase efficiency in physician care. Health Affairs. 2008;27:w250-w259. (Published online May 20, 2008:10.1377/hlthaff.27.4.w250.

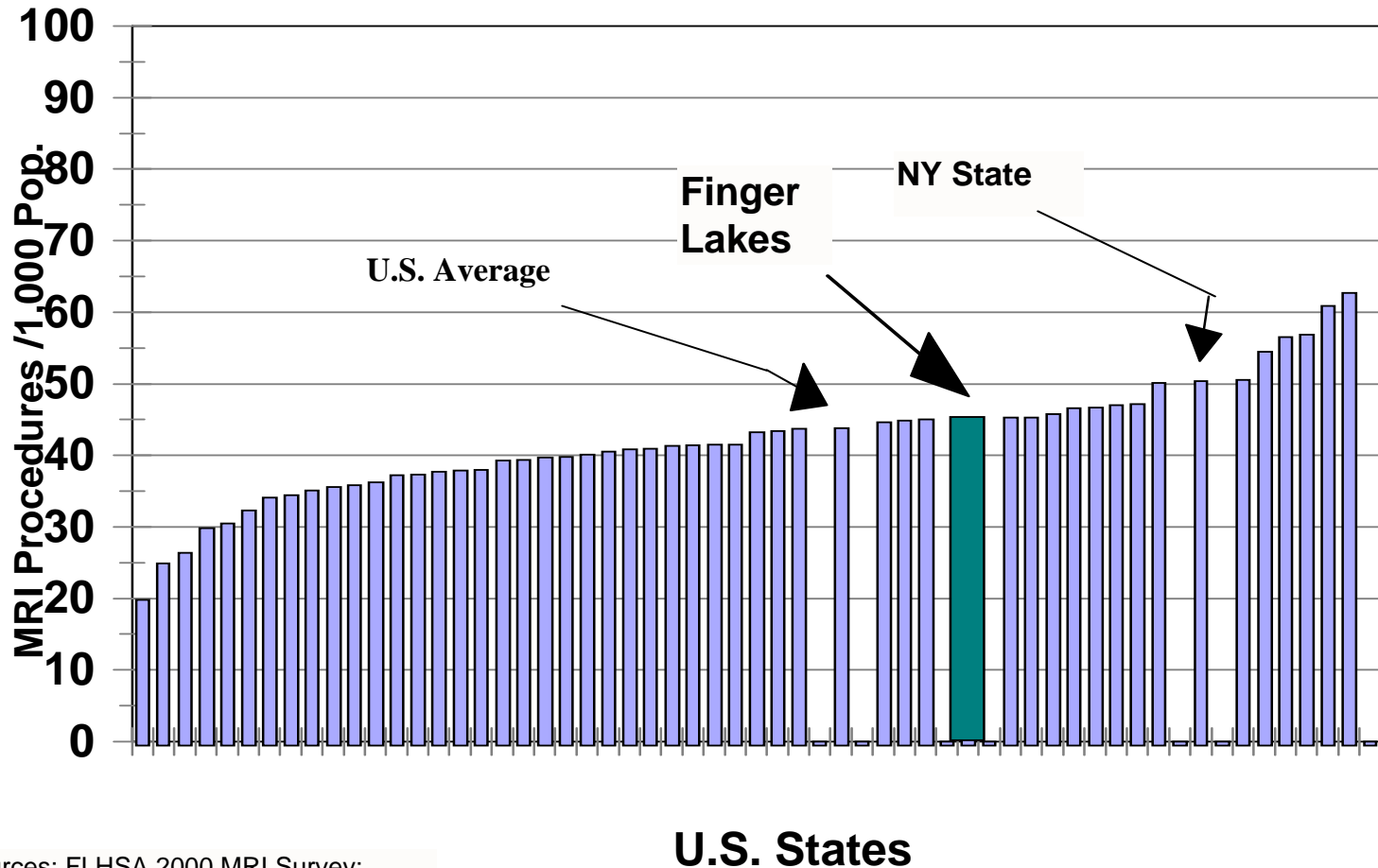
Another Example

\$.32 pmpm Reduction



Chris Cammisa, **Gregory Partridge**, Cynthia Ardans, Katrina Buehrer, Ben Chapman, and **Howard Beckman**. Engaging Physicians in Change: Results of a Safety Net Quality Improvement Program to Reduce Overuse *American Journal of Medical Quality* 1062860610373380, first published on September 27, 2010 doi:10.1177/1062860610373380

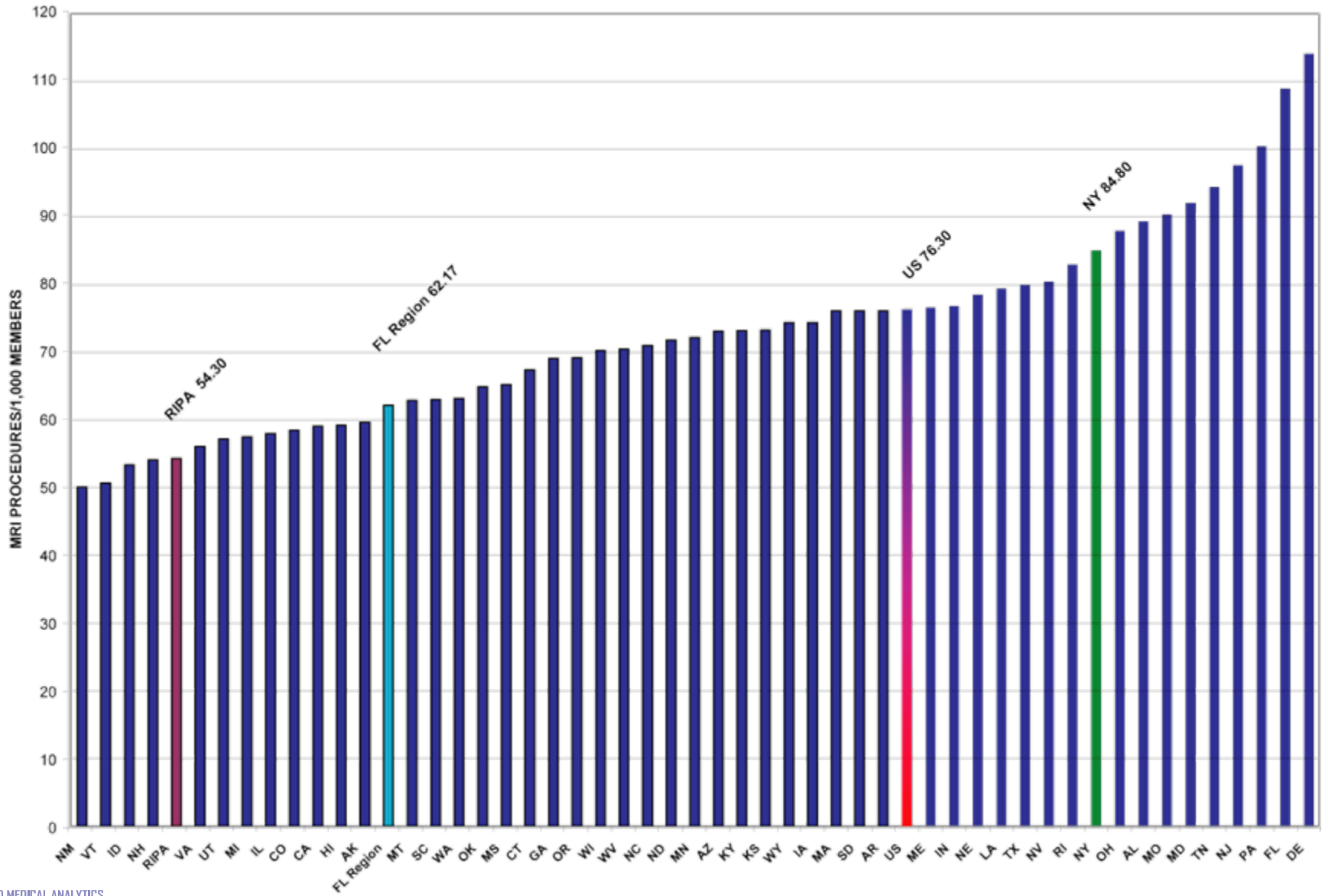
1998-99 MRI Utilization Finger Lakes and U.S. States



Data Sources: FLHSA 2000 MRI Survey;
1998-99 TMG National MRI Survey

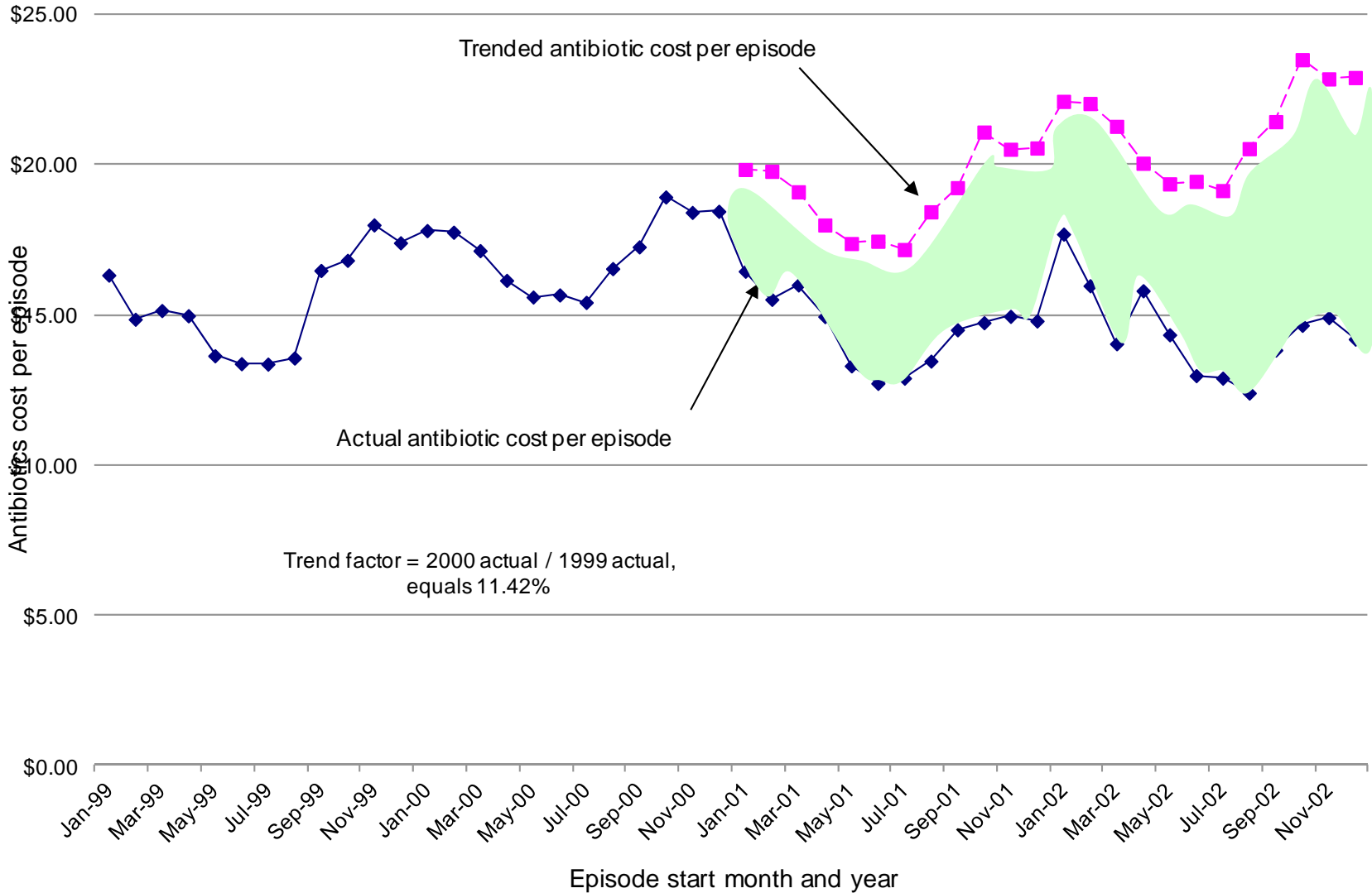
U.S. States

MRI UTILIZATION 2003

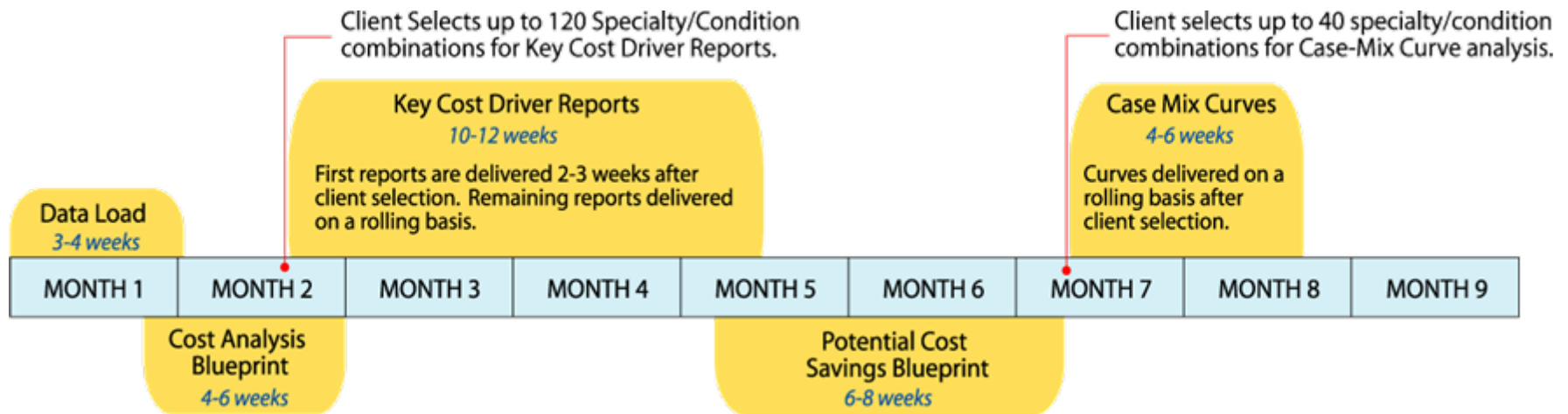


Antibiotic Savings

(all minor upper respiratory infections)



Estimated Timeline for Data Deliverables



Summary

- Reducing overuse is the short term method to reliably reduce overuse while improving value
- Reducing unnecessary practice variation is achievable, predictably successful and cost effective
- Early meaningful involvement of the physician community is essential
- Conducting the work as QI, not a tournament is foundational

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