ADDRESSING CLINICAL VARIATION TO IMPROVE PRACTICE EFFICIENCY: REDUCING OVERUSE TO IMPROVE QUALITY

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Why consider overuse??

- Growing body of research demonstrating extensive variation in medical practice
- Geography is destiny
- Variation reflects differences in numbers and types of health care providers, and differences in community practice styles.
- The variation is not benign there is an inverse relationship between health care spending and health care quality
- Experts estimate that somewhere between 25 and 50% of all U.S. health care spending produces no benefit to the patient and some of it produces clear harm

Why consider overuse??

- Health care providers and reimbursement policies should encourage approaches demonstrated by rigorous evidence to benefit patients
- "Evidence-based Medicine" is a set of principles and methods intended to ensure that medical decisions are effective and benefit patients
- The concept that health care professionals should maximize delivery of evidence-based care is now almost universally accepted
- Evidence-based coverage is a concept that follows from evidence-based care
- The rationale for this project is based on a health plan and its panel using evidence based medicine to encourage and promote services known to benefit patients with acute and chronic back conditions.

Getting to Action: Developing a successful approach

Background of Mr. Partridge

- Senior Medical Research Analyst for a 3200 physician IPA in upstate New York
- Experience based on 10 years of individual practitioner performance measurement
 - Various Cost-effectiveness measures
 - Quality measures
 - Member of the RIPA/Excellus P4P team 1999 2006

Conundrum: Why Not Just Use Efficiency Indexes to Control Cost?

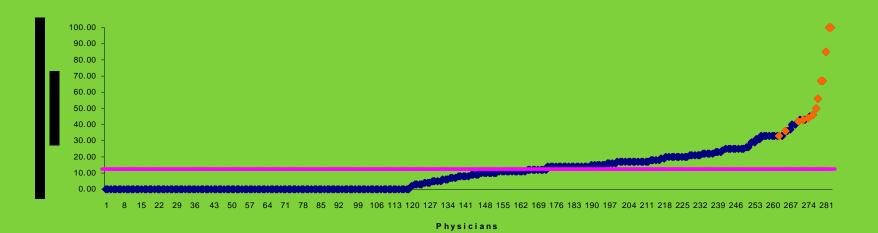
- An efficiency index does not differentiate appropriate use, from underuse, overuse, or misuse
- El does not suggest specific action items
 - "What do others do?"
 - "What do you want me to do?"
- Physicians may do the wrong thing in response to an adverse score
- Analyses to find action items for individual physicians are time consuming (= costly) to produce
- Often find little that is actionable, or just find noise (e.g. one ER visit in one ETG raising practitioners total costs)
- Too reductionistic: misplaced desire to identify best and worst doctors. Better to focus on specific actionable items that can be realistically improved

What We Needed

 Find specific services with the most unexplained variation by specialty and condition

Joint degeneration, localized, w/o surgery, knee & lower leg etg 722.02
visco supplementation rate per 100 episodes

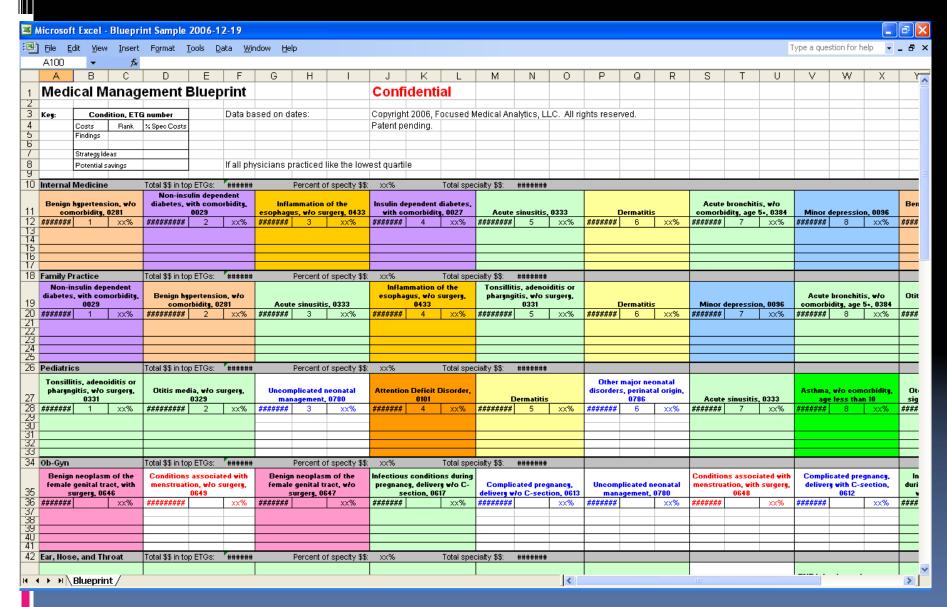
Jan 1, 2007 - Dec 31, 2007
high tendency to use visco supplementation in an episode (orange)



What We Needed

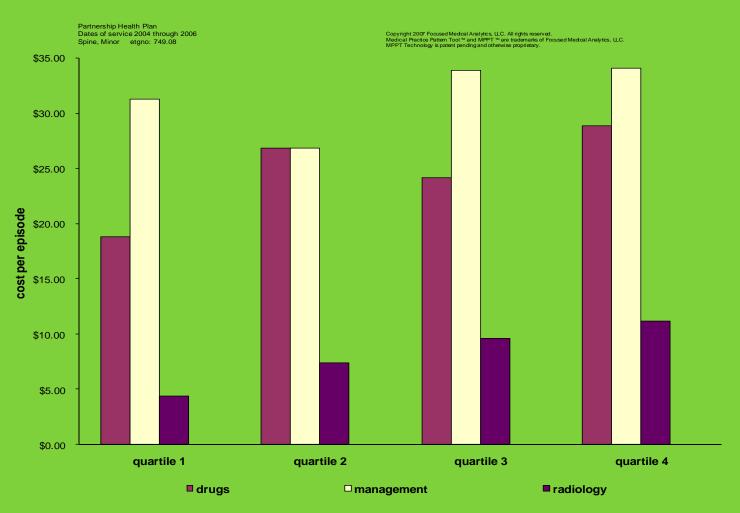
- Understand if the variation represents overuse or underuse – therefore, have the quality conversation early on with key practitioners
- Create a portfolio of measures based on organizational needs – address overuse, underuse or a mixture of the two
- Develop action items/intervention based on current medical literature and the local medical panel for targeted specialty/condition
- Reduce costs only while improving or maintaining quality

Creating a Blueprint for Discovery

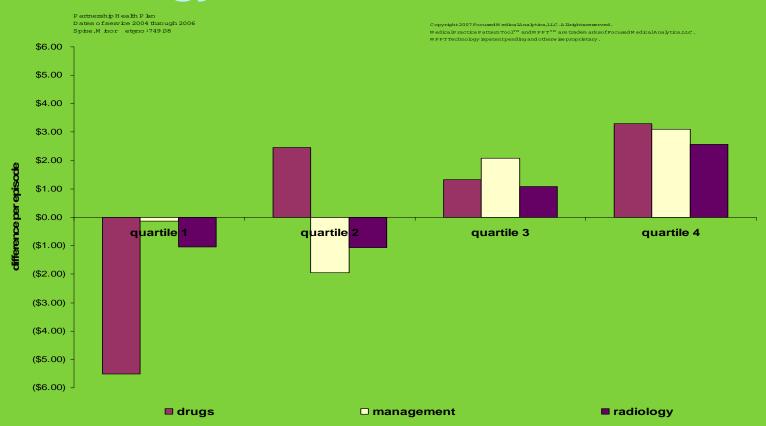


Analysis of Low Back pain without radiculopathy

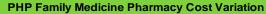
(ETG 0749.08, Neck & Back , minor orthopedic disorders)

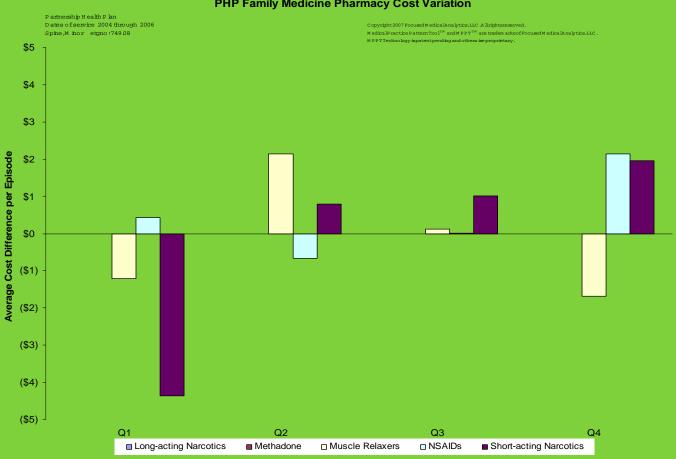


Cost Variation - drugs, radiology

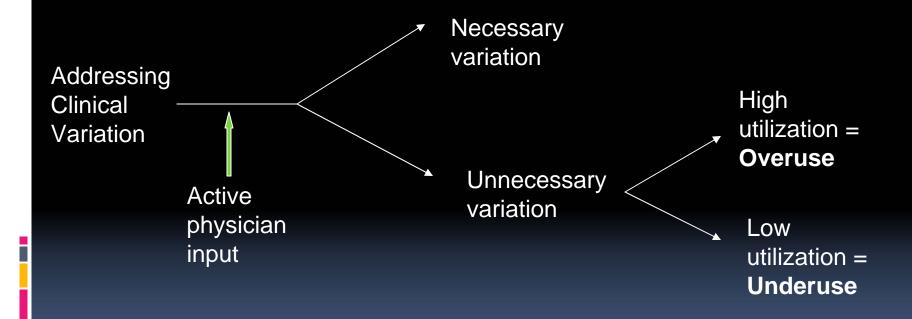


Cost Variation - drugs





<u>Choosing Areas on which to</u> <u>Focus</u>



Practical Applications

- Focus on reducing overuse instead of relying on efficiency indexes
- Find specific action items, then direct attention to meaningful action items to engage practitioners as partners
- Engage physicians by focusing on reducing overuse and underuse (NOT cost); help practitioners improve, don't try and identify and punish "bad" doctors

A Partnership between Physicians and a Health Plan to:

- Improve care for patients with acute and chronic back pain
- Decrease underuse, overuse, and misuse of related services
- Focus on significant opportunities to improve efficiency and quality of care

Partnership Health Plan of Ca.

- County Organized Health System
- ~88,000 Medi-Cal members in Solano, Napa,
 & Yolo counties
- Full range of available aid codes
- 30% disabled most of the rest TANF
- 2006 Healthy Kids
- Began Medicare Advantage plan in 2007

Background on the Project

- PHC asked by the California Health Care Foundation's Chronic Disease Coordinator, Sophia Chang, MD, to work with health plans interested in improving efficiency and quality of care.
- Ingenix grouped two years of C/E data into ETGs
- Focus Medical Analytics used variations in care to identify improvement opportunities.
- Collectively, we identified back pain as our number one issue.
- Focused on two high cost, high volume ETGs acute back problems(749.08) and chronic back problems (722.08).
- FMA identified muscle relaxants, opioids, imaging, and spinal injections as areas of greatest variation

Prework

- Extensive literature review by CMO
- Coincidental publication of CPG by ACP
- Consultant (FMA)
 - Practice site reports
 - Technical assistance to measure results
 - Coaching non-judgmental approach
- Expert physician input at collaborative meeting
- Ongoing suggestions and inputs from practices very much a work in progress.

How

- Targeted academic detailing visits with PCP sites
- Messages:
 - Risks of long-term muscle relaxant therapy outweigh benefits
 - Benefit of long term opioid therapy limited
 - Low Back Pain >90-120 days should be evaluated by specialist
 - MRI generally should not be done until ~4-6 weeks after onset of LBP episode in the absence of "red flags"
 - MRI generally overused
 - Limited evidence for long-term effectiveness of epidural spinal and facet injections
- Practice site packet includes
 - Messages and site performance
 - ACP clinical guideline
 - Patient handout

The Visit

- Background and practice site specific data
- Each presenter will have their own style
- Deliver the messages clearly and factually
- Maintain focus on improving patient care
- Try to listen with understanding
- Offer options of how other practitioners and sites manage common issues
- Audience forms their own conclusions and action plan
- Solicit feedback



Partnership HealthPlan of California

Back Pain Services

Provider: Riviera, Nick

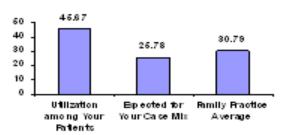
PHC ID: 9999AB

Dates of services Aug. 1, 2004 - July 31, 2006

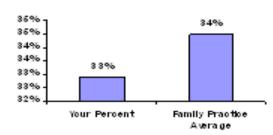
Episodes: 95

Unique Patients:76

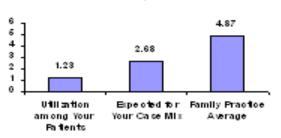
Opioids Days Supplyper Episode



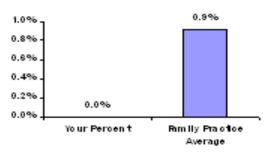
Muscle Relaxants Days Supply > 14 days



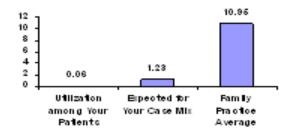
MRI Per 100 Episodes



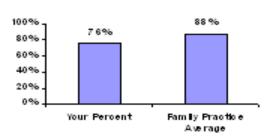
MR lin First 42 Days of Episode



Spinal Injections Per 100 Episodes



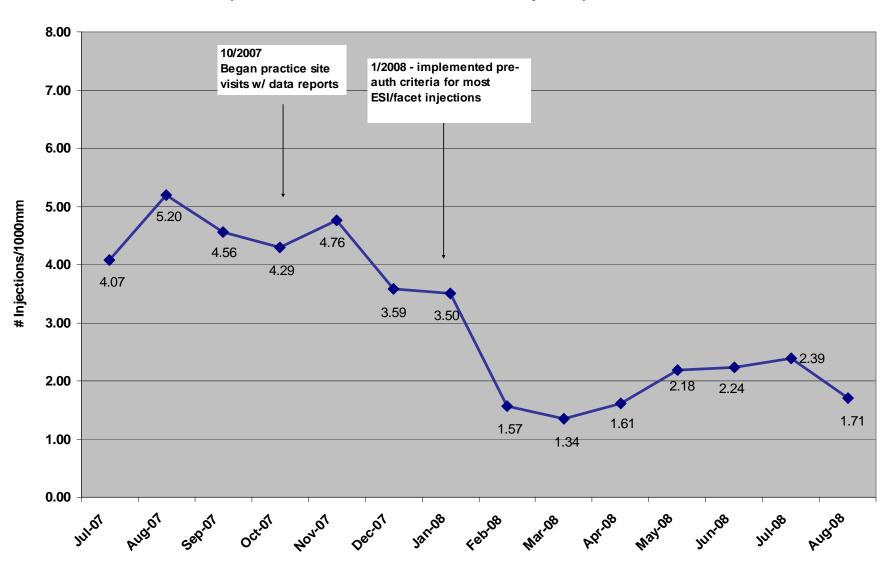
Episodes over 90 Days Without Specialist Visit



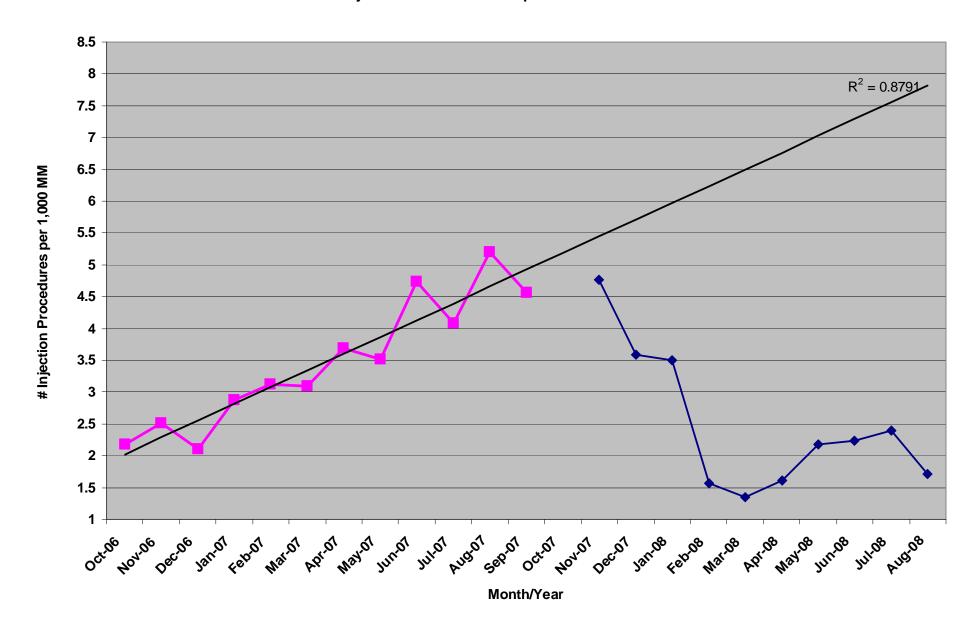
Measures

- Reduce CT/MRI <=42 days of onset of episode to .3% of episodes (10th%ile of 66 sites)
- Reduce spinal injections procedures by 50%
- Reduce opioid days supply per episode to 8.3 (10%ile of 66 sites).
- Reduce # Rx for muscle relaxants >14 days to 8.5% of episodes (10%ile of 66 sites).
- Increase episodes with referral to specialist within 120 days to 30% (10th%ile of 66 sites) – interim goal
- Balancing measure Patient QOL survey

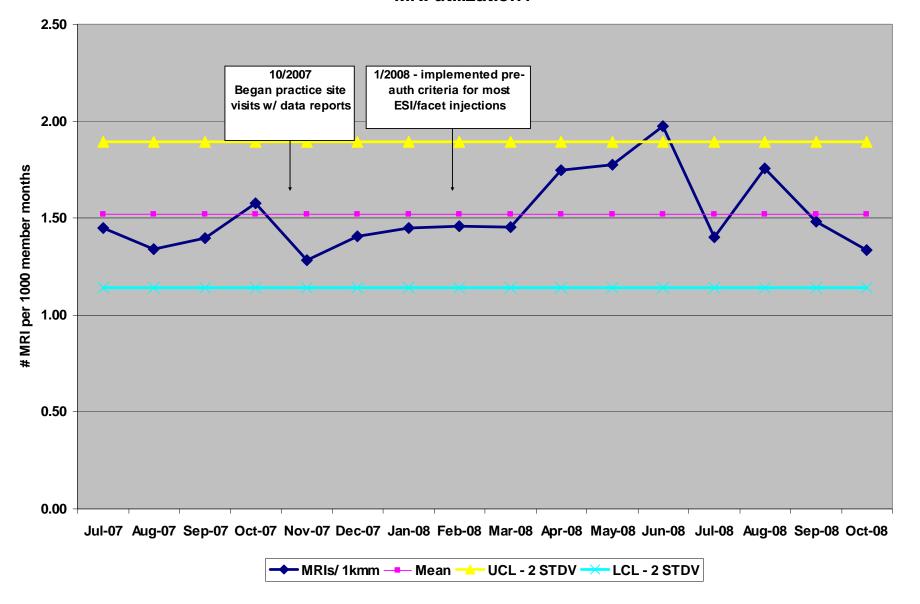
What impact have interventions had on back/neck injection procedure utilization?



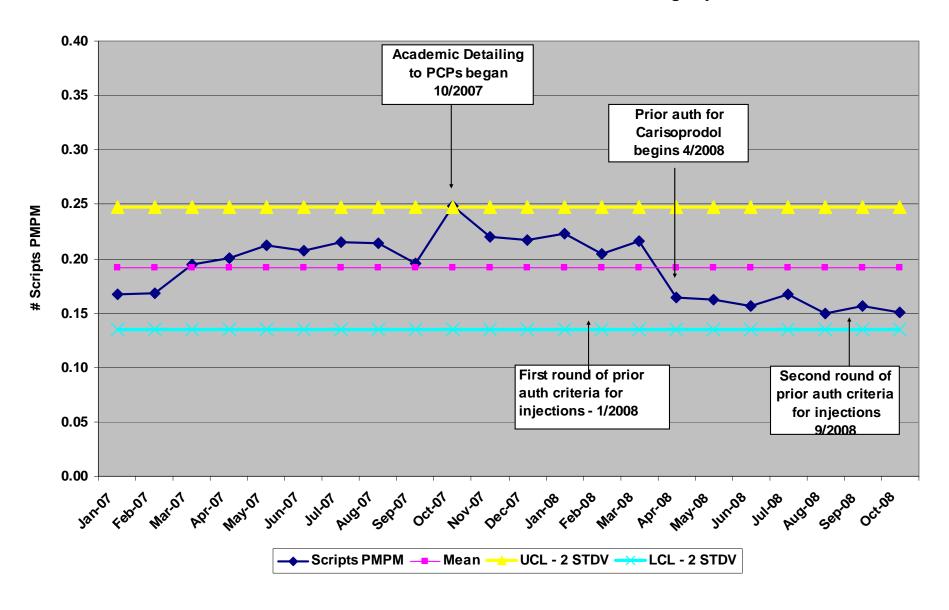
Trends in Injection Utilizations Compared to Actual Utilization



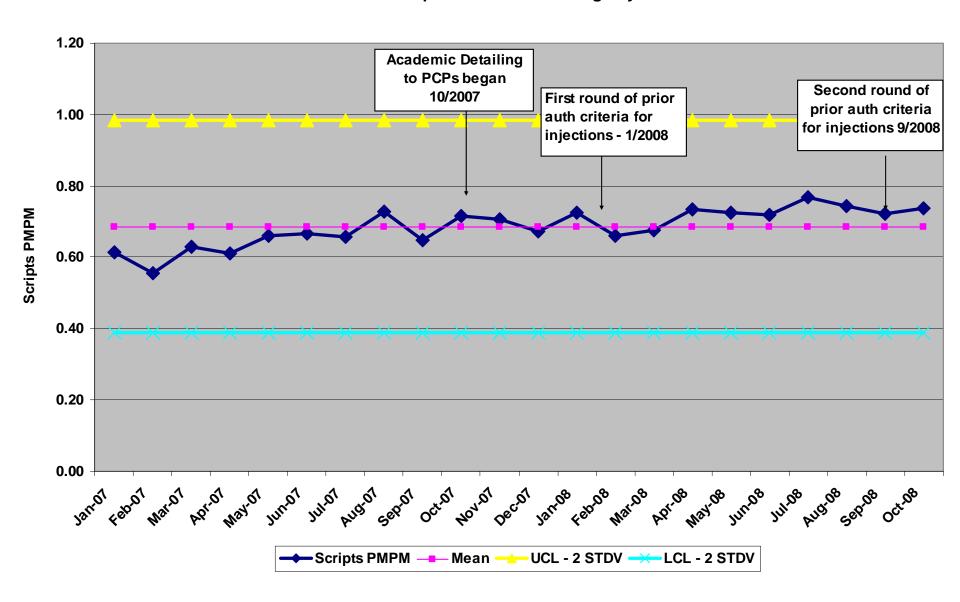
Balancing measure: Have interventions resulted in increases or decreases in MRI utilization?



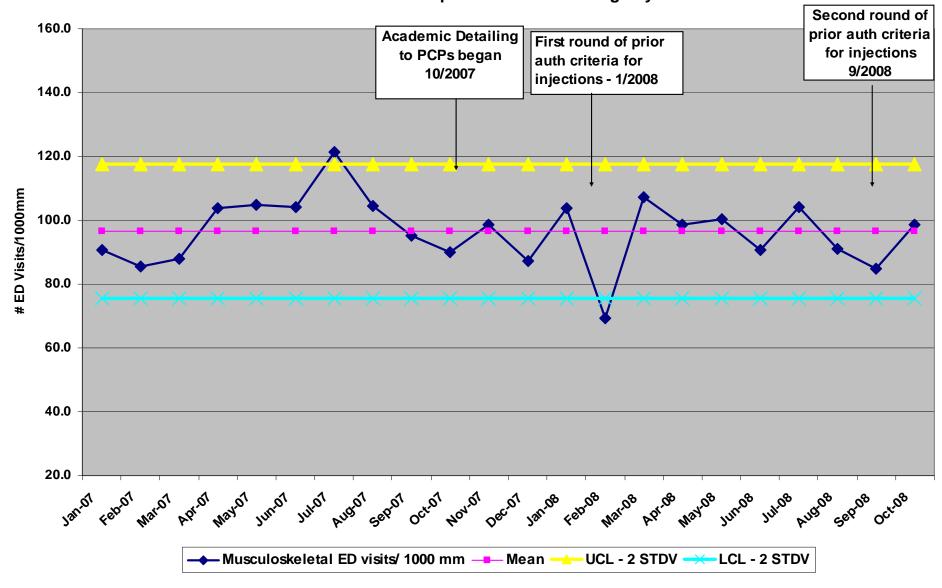
Skeletal Muscle Relaxant Utilization for Patients in LBP Registry



Balancing measure: Have interventions resulted in increases or decreases in pain medication utilization for patients in the LBP registry?



Balancing measure: Have interventions resulted in increases or decreases in musculoskeletal related ED visits for patients in the LBP registry?



Project Return on Investment

Results

- Estimated annualized savings IPM = \$339k
- Estimated annualized savings skeletal muscle relaxants = \$55k
- Cost of QEI ~\$50,000
- Net return on investment ~\$344k

Next steps:

- Develop "balancing" QOL measure
- Analyze case cost for registry patients

Challenges

- Finding consensus in the literature
- Getting local buy in
- Figuring out the measurement piece
- Defining a goal that is realistic
- Showing an ROI
- Surprisingly, support from our network has not been much of an issue

Lessons Learned

- Do your homework up front literature review
- Use local expertise
- Script the messages in a clear nonjudgmental way
- Be prepared to share ideas and listen to suggestions
- Get IT support to create clear actionable reports

Questions

Thank You!

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