

Surgery Committee

Off-Cycle Webinar

September 18, 2017

Agenda

- Welcome and Introductions
- Presentation: Measure Madness and Electronic Clinical Quality Measures
- Presentation: Current Practice and Measurement Gaps-Perioperative Care
- Presentation: Performance Measure Proposals- AAOS Surgical Management of the Knee PM Committee
- Committee Discussion
- Next Steps
- Public Comment

Welcome and Introductions

Surgery Committee Members

- Karl Bilimoria, MD, MS
- Robert Cima, MD, MA
- Richard Dutton, MD, MBA
- Elisabeth Erekson, MD, MPH
- Lee Fleisher, MD (Co-Chair)
- Frederick Grover, MD
- William Gunnar, MD, JD (Co-Chair)
- John Handy, MD
- Mark Jarrett, MD, MBA
- Clifford Ko, MD, MS, MSHS, FACS
- Barbara Levy, MD, FACOG, FACS
- Barry Markman, MD
- Kelsey McCarty, MS, MBA

- Lawrence Moss, MD
- Amy Moyer, MS, PMP
- Keith Olsen, PharmD, FCCP, FCCM
- Collette Pitzen, RN, BSN, CPHQ
- Lynn Reede, DNP, MBA, CRNA
- Christopher Saigal, MD, MPH
- Salvatore T. Scali, MD
- Allan Siperstein, MD
- Larissa Temple, MD
- Melissa Thomason, MS, PMP
- Barbee Whitaker, PhD
- A.J. Yates, MD

NQF Staff

Kathryn Goodwin, Senior Project Manager

Off-Cycle Activities

What is considered "off-cycle"?

- During the periods in which no measures are being reviewed, or the "off cycle", these are Standing Committee activities that may occur outside a funded project's scope.
- In order to enable ongoing engagement of committee members throughout their two (or three) year terms, NQF will host quarterly, two-hour web meetings or conference calls for each Standing Committee during the off cycle timeframe.

Measures Madness September 18, 2017

Mark P. Jarrett, MD, MBA, MS Chief Quality Officer



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Why Do We Measure?

Improvement of care requires metrics: need to know where you were, where you are, and where you are going

- "Non-Performance Improvement" Audiences
- CMS
- Insurers
- Regulatory agencies, e.g. NYSDOH Cardiac database
- Patients and Families



Proliferation of Measures

- In 2014 CMS had 33 different programs with 850 unique measures
- NQF has endorsed 635 healthcare quality measures
- Commercial P4P has others
- HVHC Project: paring down 98 CMS measures (some composites)



IOM Vital Signs Report

- Need to integrate measurements with EHR capabilities
- JAMA (August 2017): The Cost of Quality
- Health Affairs (March 2016): US Physician Practices Spend More Than \$15.4 Billion Annually To Report Quality Measures



John Hopkins Study 2016

"These measures have the ability to misinform patients, misclassify hospitals, misapply financial data and cause unwarranted reputational harm to hospitals. If the measures don't hold up to the latest science, then we need to re-evaluate whether we should be using them to compare hospitals."

Dr. Peter Pronovost author and Director of the Armstrong Institute



Report Card Madness: Leapfrog

- Only 1750 Hospitals participate
 - Can't normalize
 - Self selection
- Combines Risk and Non-Risk Adjusted Data
- Different times for different measures not valid
- Self-reported non-validated results



CMS Stars for Quality

CMS rates hospitals with Stars (1-5) based on 7 categories of measures:

- Mortality
- Safety of care
- Readmissions
- Patient experience
- Effectiveness of care
- Timeliness of care
- Efficient use of medical imaging



CMS Stars for Quality: AAMC Response

- Misrepresent hospital quality
- Certain quality measures flawed and that disproportionately impacts teaching hospitals
- Methodology has no socio-demographic adjustment
- Lack of transparency around data used to calculate results



Measures That Matter: HANYS Report*

- Measures should reflect "clinical reality"
- Parsimony of measures that have standardized definitions
- Collection is part of the normal workflow
- Providers will focus on the most serious safety concerns

October, 2013



Recommendations

- Streamline
- Align
- Focus
- Collaborate
- Actionable and Meaningful



Metrics That Matter for Population Health NAS Workshop Report 2016

- Access to health services
- Environmental quality
- Injury and violence
- Mental health
- Nutrition, physical activity, and obesity
- Oral health
- Social Determinants
- Substance abuse



eCQM's: Harnessing the EHR

- Minimizes human coder variability and cost
- Can theoretically used for concurrent care: Improve the care of the patient – not the report or scorecard



eCQM Landmines

- EHR's not well designed for this: multiple places for documentation clinical workflow mismatch
- Doesn't correlate with claims, which are may produce a potential compliance issue
- Meaningful Use and eCQM's: Hospitals didn't see a ROI and it delayed other IT projects





Questions?



Current Practice and Measurement Gaps in Perioperative Care

Richard P. Dutton, MD MBA Chief Quality Officer US Anesthesia Partners

Disclaimer

- I've worked in this space for a while
- I am well-informed regarding anesthesia measures
- I am less well-informed about surgical specialty measures
- NQF currently lists 1100 measures and 107 portfolios ...
 - 317 Outcome measures
 - 31 patient reported outcomes
- I don't know what I don't know!

Broadly ...

Measures that cover multiple kinds of surgical cases

- Perioperative infection rate, reoperation rate, mortality, sentinel events
- Measures that capture important long-term outcomes
 - Back to work/normal activities
 - Reduction in pain
 - Cancer recurrence
 - Cognitive function
- Reduction in opioid prescription / use / abuse
- Surgical patient satisfaction: "Would you do it again?"

More Specifically ...

 Measures which include both surgical and anesthesia components

- Survival after cardiac surgery
- Uncomplicated screening colonoscopy
- Transfusion rates
- "Enhanced recovery"
- Measure for procedures done "out of OR"
 - GI lab
 - Surgery centers
 - Cardiac electrophysiology

And Even More Specifically ...

- Neurosurgery
- Otolaryngology
- Urology
- Trauma
- Plastic surgery
- Gastroenterology
- Transplant

Performance Measure Proposals: AAOS Surgical Management of the Knee PM Committee

A.J. Yates, Jr., MD Chief of Orthopaedic Surgery UPMC Shadyside Associate Professor Vice Chairman for Quality Management UPMC Department of Orthopaedic Surgery





Medicare Access and CHIP Reauthorization Act (MACRA)

- New measures are in development for the Merit-based Incentive Payment System (MIPS) and will be asked to be consistent with those used in Advanced Alternative Payment Models (APMs) and CJR
- These can be delivered through Qualified Clinical Data Registry (QCDR) approved registries (e.g., American Joint Replacement Registry (AJRR))
- Surgeons within MIPS will choose those Performance Measures (PMs) that are best risk adjusted
- Such measures are likely to be harmonized with CJR and its variants





Table 5: Conceptual Framework With Counts of Existing Measures by CMS Quality Domain, Topic, and Specialty Key: Neasure subtopics highlighted in gray - measures identified that were proposed for the Quality Payment Program; cells shaded in blue indicate a given topic is not applicate the mean statement.

CMS Quality	Topis	Specialty							
Domain/ MACRA Domain		General Medioine/ Crossoutting	Nental Health/ Substance Use Conditions - Medication	Oneology	Orthopedio Surgery	Paliative Care	Pathology	Radiology	
Elevine Trazenti Cleina Cue	Cutiones	- Care poil activement (i) - Intermediate outcomes (e.g., Hald(a, EP) (17.6 of 17 in CPP NPRA) - Medication adherence and persistence (4) - Mattige chanic/ complex conditions (i)	-Netastion -Netastion astreence and periotence (S: 1 of S in GPP NeTaul -Notastiny (1) -Nutrate (vonic) complex conditions (1) -Recovery-oriented outcomes (1) -Suidate (2)	Otere poil Achievement (3) Obseace-free survised for X years (0) Outcomes for medical, surplical, medical,	- Advents events summunfling support cellulitis, presumonile, etc.) (0) - Complications from procedures (0) - ED visits poct- surgery (0) - Length of stay (0) - Return to surgery (0)	Conflot at end of iffe (1) - Maintaining dignity and Independence (0) - Symptom management (0)	No sublopics identified	No sublogics Identified	
	PRO-PNI:	- Care god achievement (2) - Runctonel status (3) - Heatth related DOL (0) - Patient activation/ ergagement (1)	Care goal achievement (D) Flunctionel tablus (4) 2 of 4 in OPP NPRM Health-related OOL (0) Patient achieston' engagement (D)	Care goal achievement (0) Functional status	Care god disvenent (0) Functional status prejoct orthopedic testment(on) specific (2; 7 of 0 in GPP NPRM) ··Health-related COL (0) ··Patient activation/ engagement (0)	- Care godi actievement (0) - Functional status (0) - Health-related OOU (0)	No subtypics identified	No subtopics identified	
CMS Quality Domain/ MACRA Domain	Topic		Nental Healthi Substance Use Conditions	Onsology	Specialty Orthopedio Surgery	Paliative Care	Pathology	Radiology	
Fabert Salthy Salthy	Diagnostio Acouracy			- Diagnostic accuracy (0)		identified	- Diagnostic accuracy (0) - Timely diagnosis (0)	Cancer detection (0) Diagnostic accurrecy (1)	
	Nediation Subty	(enticoegulents) (1) • Adverse drug events (dabetic agents) (0)		-Medication side effects (1)			No subspics identified	- Contrast-related adverse events (0)	

Effective Treatment Outcomes **PRO-PMs** Patient Safety Diagnostic Medication Communication/Coordination **Team Based Care** New Technology Experience/Engagement SDM **PRO-PM Population Health** Affordable Care



CMS Quality Measure Development Plan

Environmental Scan and

Gap Analysis Report

(MACRA, Section 102)



HSAG/CMS Gap Analysis Report



Orthopaedic Surgery has no measures except two, one under SDM and the other under evaluation of experience

CMS Quality	Topic	Specialty							
Domain/ MACRA Domain		General Medioine/ Crossoutting	Nental Health/ Substance Use Conditions	Oneology	Orthopedio Surgery	Paliative Care	Pathology	Radiology	
Affordable Care	Overuse Measures	- Appropriate use (7; 6 of 7 in OPP NPRM)	- Appropriate use (0)	Appropriate use (3; 2 of 3 in QPP NPRM) ER Utilization (1) Inpatient hospital admission rete (1)	- Appropriete use (0)	- Appropriate uze (0)	- Appropriate use (D)	- Appropriate use (7; 6 of 7 in OPP NPRM)	





Overview

- Need: The MIPS process within MACRA requires numerous performance measures to adjudge quality. Orthopaedics is a high priority for CMS and devoid of such PM's across multiple critical domains. Outcome measures have higher value than process measures
- Total knee arthroplasty, when combined with total hip, represents the single greatest procedural cost set for CMS, is elective, and carries high expectations from patients and payers.
- The following is a broad overview of our work in progress to meet the above needs. The ongoing formatting, and development of exclusions, risk adjustments, and scientific evidence are much more detailed than time allows and are intended to be endorsable at the level of the NQF.





AAOS Surgical Management of the Knee PM Committee Measures in Development

- Four Process Measures
 - Based on Level One CPG Evidence
- Two Structural Measures
- Two Outcomes Measures
 - One a PRO-PM
 - The other one claims based





Process Measures in Development

- All based on level one evidence for best practice with strong recommendations in CPG
- All intended to be deliverable through EMR/registry
- All require provider to develop/initiate protocols for best practice
- All share accepted harmonized exclusion criteria (tumors, fracture, etc.)
- All can readily be crossed over to THA





Process Measures in Development

- <u>Reversible risk reduction for patients with a high body mass</u> index otherwise indicated for primary total knee arthroplasty
 - Requires evidence of process (in EMR) for referral of patient to care
 - Falls under safety, coordination, SDM, and population health domains
- Use pre-operative risk assessment tool as part of preoperative counseling/shared decision
 - Tool has to be embedded in EMR/documented
 - Falls under safety, coordination, SDM and population health domains





Process Measures in Development

- Utilization of Early Mobilization Protocols
 - Credit for ordering pre-op (with EMR evidence of order)
 - Protocols need to be in place
 - Falls under safety and coordination of care domains
- <u>Utilization of Multimodal Pain Management Protocols</u>
 - Credit for ordering pre-op (with EMR evidence of order)
 - Protocols need to be in place
 - Falls under safety and coordination of care domains
 - Addresses new emphasis on opioid exposure reduction





Structural Measures in Development

Participation in a joint registry for patients undergoing TKA

- Ideally evolves to specifically require the AJRR, but kept broad for participants in Kaiser, VA, and regional registries in place
- Critical need for registry data with known impact for care
- Falls under safety, outcomes and population health domains
- Use of a PRO tool in Patients Undergoing elective TKA
 - Wide spread collection not routine
 - Requires the creation of process to routinely collect and report
 - Falls under safety, outcomes, and patient experience domains





Outcomes Measures in Development

- Patient-acceptable system state (PASS) 9-12 months s/p TKA
- The measurement of those patients that expect to go home after TKA that do go home and stay home without readmission, transfer to SNF, or return to ER (Expectation of Home Measure)




PASS

- One question PRO at nine to twelve months post-op
- Current working language: "Taking into account all activities that you do during your daily life, your level of pain and also your functional impairment, do you consider the current state of your Left (Right) Knee to be satisfactory" with the response option of "yes" or "no"
- Close, but not equivalent to MCID: One can reach one and not the other





PASS

- Fundamental question; was the patient helped?
 - The literature reports a 91% satisfaction rate with TKA
- Involves SDM/expectations, patient reported outcome, and perioperative management
- Risk adjustment will need to be developed, but is in part under the control of the surgeon in terms of patient selection and managing expectations; rudimentary data for risk adjustment already collected in the CJR PRO collection





PASS

- Falls under patient experience/PRO-PM and outcome domains
- One question, reportable through EMR/Registry routes
 - Low administrative burden
 - Transparent to patients, surgeons, and payers
 - Could be cross-cutting to other procedures with modification of the question





- The literature shows that the best predictor of the patient being discharged to home after TKA is their expectation of the same; 95% who have that expectation do go home.
- At the time of agreeing to scheduling surgery, the patient and surgeon would agree upon that expectation as being realistic and the surgeon reports that expectation





- One important Requirement: Ability to designate by code, at the time of scheduling surgery, the shared expectation of the surgeon and patient of discharge to home.
- **Denominator:** those patients expected to be discharged to home
- **Numerator**: those patients in the denominator that **do not** generate costs for SNF, IRF, ER, or readmitted as captured by claims data





- Scoring: The ratio above minus the ratio of those patients that were not designated that did not generate the designated costs over all patients:
- DP=designated home patient
- NDP=not designated
- DPSH=Designated patient that went home and stayed home
- NDPSH=Non designated patient that went home and stayed home
- Score equation: (DPSH/DP)-(NDPSH/NDP+DP)





Exclusions:

- 1. Those patients for whom an ER visit or readmission is associated with a principal code that after 7 days would not be assigned as a complication within NQF 1550 (pneumonia, MI, sepsis.) and those not assigned after 30 days (PE, surgical bleeding)
- 2. Bilateral
- 3. Fractures
- 4. Tumors
- 5. Revisions
- 6. Transfers
- 7. Planned readmissions





- No formal risk adjustment other than exclusions and that provided by the surgeon patient selection of patients expected to succeed
 - It is known that the more ill patients are more likely to need a SNF
 - The same is true for readmissions
 - It requires assessment of patients for the risk of both





Expectation of Home Measure: Advantages

- Potentially cross-cutting for all elective hospital based procedures.
- Internally risk adjusted
- It crosses many domains/targets; these include shared decision making, coordination of care, risk assessment, quality of care, and patient satisfaction
- Low reporting burden: Once the designation is made, the outcomes are captured through claims data
- Again, a mechanism for a code is needed





Future of Proposals

- Being assessed via the American Academy of Orthopaedic Surgeons (AAOS) Surgical Management of Osteoarthritis of the Knee (SMOAK) Performance Measure Work-Group Accepted
- Current preliminary approval and harmonization with the American Association of Hip and Knee Surgeons (AAHKS)
- Preliminary offer for help with testing from UPMC





Testing

- UPMC is the largest academic medical center based hospital system in the US
- Heavily invested in data management
- Has had to develop data management tools for the CJR
- It has an associated insurance plan (UPMC Health Plan) with Medicare Advantage options and an interest in value/performance measures equal to that of CMS
- The response to the CJR was the same for all patients across all payers.





Testing

- UPMC has already been capturing the rates of PRO capture and enrollment in the AJRR
- Current pathway adherence is assessed through orders and can capture risk assessment/mitigation/referrals as well as ordering of multimodal pain and early mobilization protocols
- The PASS question has been in use for one year
- The Health Plan has an interest in creating a code for the "Home" measure and can capture outcomes with claims data





Testing

- It is hoped that we will be able to show performance gaps, reliability, validity, and usability this calendar year
- Other members of the AAOS SMOAK PM work-group have been asked to make inquiries with their AMC's and the AJRR has been contacted for their assistance.





Thanks

Questions?





Committee Discussion

NATIONAL QUALITY FORUM

Public Comment

Next Steps

- Staff will draft and share a summary of today's call
- More info to come on future CDP projects

Project Contact Info

- Email: <u>surgery@qualityforum.org</u>
- NQF Phone: 202-783-1300
- Public project page: <u>http://www.qualityforum.org/CDP_Standing_Committee_Off_-Cycle_Activities.aspx</u>
- Committee SharePoint site: <u>http://share.qualityforum.org/Projects/surgery/SitePages/Home.aspx</u>

Thank you!