Quality Indicators in IBD: What You Need to Know

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Learning Objectives

• Define Quality

• Discuss variability of care in IBD

• Review PQRS program for IBD

• To discuss other ways quality of care can be addressed (and get “credit” for it)
Definitions of Quality

1990 – Institute of Medicine (IOM)
• The degree to which health services for individuals and populations increase the likelihood of desired health outcomes and are consistent with professional knowledge

2001 – IOM’s Crossing the Quality Chasm
• STEEEP: Safe, Timely, Effective, Efficient, Equitable, Patient Centered Care

A “Practical” Definition of Quality Improvement

“Quality improvement” is a mechanism to ensure that the best new research and ideas do not get left behind in journals, but get applied equally to all patients
Clinical Guidelines and EBM aren’t enough

- 55% of US pts with recommended care
- 63% of cardiologists compliant with ACE/ARB in CHF

IBD
- Suboptimal med dosing
  - 64% 5-ASAs
  - 82% IMs
- Up-to-date vaccinations for pts on immunomodulators
  - 54% flu vaccine rate
  - 31% pneumo within 5 yrs
- C. difficile
  - 50% of those presenting with diarrhea get tested


“Identifying variation in care is an initial step in quality improvement”
Variation in Care as measured by spending

- Dartmouth Atlas
- Variations in resource utilization
- Based on medicare data
- Adjusted for age, gender, comorbidities and price

Variation in Crohn's management as measured by biologic use

Proportion of patients with Crohn's disease using biologics per Zip Code
Oppositional Notions of Quality Improvement

[Image of a tower] + [Image of a government building] + [Image of a stethoscope] = [Image of a dollar sign]

[Image of a medical condition] → [Image of a doctor hugging a patient]
The train has left the station!

“Would you rather your doctor won the quality contest by doing good list management and robust box checking or spent that time listening to you?”

Dr. Victoria McEvoy, Wall Street Journal, February 13, 2014

From a practical standpoint, will need to do both if you want to....

a) Avoid reimbursement penalties, and
b) Improve the quality of care delivered to our patients
### Multi-stakeholder panel

**Co-Chairs**
- John I. Allen, MD, MBA, AGAF
- Themistocles Dassopoulos, MD

**Work Group Members**

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<tr>
<th>American Gastroenterological Association</th>
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<td>Joel V. Jell, MD, AGAF</td>
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<td>Peter D.R. Higgins, MD, PhD, MSc</td>
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<td>John M. Inadomi, MD, AGAF</td>
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<td>Michael D. Kappelman, MD, MPH</td>
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<td>James D. Lewis, MD, MSCE, AGAF</td>
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<td>Geoffrey C. Nguyen, MD, PhD</td>
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<th>American Society of Colon and Rectal Surgeons</th>
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<td>Amy L. Halverson, MD</td>
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<td>Corey A. Siegel, MD</td>
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<td>Thomas Ulmman, MD</td>
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<td>Gil Y. Meinerl, MD</td>
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<td>Kay Schwebke, MD, MPH</td>
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<td>David J. Satin, MD</td>
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<td>Lisa Herrington, PhD</td>
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<td>Christopher D. Carlacci, MBA</td>
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### AGA Adult IBD Physician Performance Measure Set

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<tr>
<th>Measure</th>
<th>Measure Type</th>
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<tbody>
<tr>
<td>1</td>
<td>IBD Type, Anatomic Location and Activity</td>
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<tr>
<td>2</td>
<td>Steroid sparing therapy</td>
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<tr>
<td>3</td>
<td>Steroid related iatrogenic injury</td>
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<td>4</td>
<td>Influenza immunization</td>
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<td>5</td>
<td>Pneumococcal immunization</td>
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<td>6</td>
<td>Testing for latent TB prior to anti-TNF therapy</td>
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<td>7</td>
<td>Assessment of hepatitis B virus prior to anti-TNF</td>
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<td>8</td>
<td>Testing for C. difficile</td>
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<tr>
<td>9</td>
<td>Prophylaxis for DVT</td>
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<td>10</td>
<td>Tobacco screening and cessation intervention</td>
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**Preventive**

**Phenotype**

**Prep for TNF**

**Inpatient**

Adult Inflammatory Bowel Disease Physician Performance Measures Set. August 2011; found at https://m.gastro.org/practice/quality-initiatives/IBD_Measures.pdf
PQRS reporting

• 20 or more unique patients, majority of whom must be Medicare Part B FFS patients
• Report one measures group (IBD or HCV)
• Qualified approved clinical registry

Other ways to “do quality” and get “credit”

• Qualified Clinical Data Registry Reporting (QCDR)
• NOT limited to PQRS measures, can be from:
  – Measures used by specialty societies
  – Measures used in regional quality collaborations
• Currently no IBD QCRDs, but CCFA working on this now
CCFA “Top Ten” Process Measures

- Test for TB before anti-TNFα therapy
- Recommend steroid-sparing agents if >4m steroids
- Recommend smoking cessation if smoker with CD
- Educate patients regarding vaccinations
- Test for *C. difficile* in flares
- Flex sig. for CMV in steroid-refractory hospitalized UC
- Check TPMT before starting thiopurines
- Recommend colectomy or close surveillance for low-grade dysplasia in colitis

Melmed, et al. Inflamm Bowel Dis 2013

CCFA “Top Ten” Outcome Measures

- Steroid-free clinical remission
- Days lost from work/school
- Days hospitalized
- ED visits
- Malnutrition
- Anemia
- Narcotic use
- Incontinence
- Normal health related QOL
- Nighttime BMs or leakage

Melmed, et al. Inflamm Bowel Dis 2013
CCFA Quality of Care Program

Models for Improvement in Other Fields

- Cystic Fibrosis
- 115 Centers accredited by the CF foundation
- Steps in their quality improvement process

Define clinical microsystem
  - Patients
  - Providers
  - Parents
  - Dieticians
  - Social workers

Establish Quality Indicators
  - Body mass index
  - Force vital capacity
  - Mortality

Data Transparency
  - All results online
  - Good and bad

Annually gaining 1.1 years of predicted survival!

Continual Improvement Process
CCFA Quality of Care Pilot study

Almost 900 patients in 9 months (community and academic practices)
QI need not be complex and expensive!

Improving Vaccination Rates in IBD pts

- Plan-Do-Study-Act model
- 1-vaccine questionnaire
- 10 wk period 184 pts
- Pneumococcal vaccination
  - 31% to 54% (P<0.001)
- Flu vaccination
  - 54% to 81% (P<0.001)


How to apply quality improvement efforts in your practice NOW?

- Measure yourself - IBD quality measures
  - AGA PQRS measures (process measures)
  - CCFA quality indicators (process + outcome)
- For reimbursement programs
  - Are you part of a program already?
  - If not, review CMS\(^1\) or AGA\(^2\) websites for how to get started (if not already)
- QCDR - CCFA Quality of Care program

Thank you.