Evolving Malnutrition Care through Quality Improvement and Measurement

CNM DPG Symposium 2017
Monday, March 20, 2017  10:15 am – 11:15 am
St. Petersburg, Florida

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Academy of Nutrition and Dietetics

Developing nutrition-related quality measures is a member-driven strategy for the profession to lead healthcare quality

Quality Management Committee Recommendation for Academy Quality Strategies
Goals, Strategies/Tactics and Initiatives for Quality Strategies

<table>
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<th>Goal</th>
<th>STRATEGIES/TACTICS</th>
<th>INITIATIVES</th>
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| 1.   | Modify the Academy's current structure to support the Quality Improvement aligned with National Quality Strategy (NQS) | Communicate to the Academy CEO and submit addition of a Strategic Theme to the RCO: “Provide safe and effective care of the highest quality and value” to add to the 2018-2019 Academy Strategic Plan:
- Focus on a National, HED endorsed measure related to food, nutrition and dietetics services and delivery
- Form a Nutrition Quality Alliance to collaborate with, external stakeholders to develop a measure on malnutrition and dehydration |
| 2.   | Allocate sufficient resources to support a comprehensive approach to quality measures initiatives | |
| 3.   | Explore opportunities for lack of national quality measures for food, nutrition and dietetics profession | |
| 4.   | Develop, test, implement and communicate nutrition and dietetics quality measures to demonstrate outcomes | |

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Today's Discussion on Malnutrition Quality Improvement Initiative (MQii)

- Overview
- MQii Toolkit and Learning Collaborative
- Malnutrition Composite Measure
- Advocacy, Engagement, Communication
Malnutrition Reduces Overall Health and Contributes to Increased Readmission Rates

MALNUTRITION HAS AN IMPACT ON PATIENT RECOVERY AND METRICS SUCH AS READMISSIONS AND MORTALITY

Malnutrition-associated outcomes include

- depression of the immune system
- impaired wound healing
- muscle wasting

Leads to higher readmissions rate relative to well-nourished patients and increased mortality

Malnutrition is a Quality Issue

- Lack of consistent screening with a validated tool
- Lack of diagnosis compared to published estimates of prevalence
- Lack of treatment of those identified as malnourished
- Lack of monitoring of status

= poor quality care
What Does it Take to Develop a Quality Measure?

Figure 1: Overview of CMS Quality Measures Development Process

Malnutrition Quality Improvement Initiative

MQii
Overview
What is the Malnutrition Quality Improvement Initiative (MQii)?

MQii Objectives

- Advance adoption of **malnutrition electronic clinical quality measures (eCQMs)** “that matter”
- Improve **effectiveness and timeliness of malnutrition care** through an interdisciplinary toolkit
- Support availability of tools that can be integrated into **EHR systems** to improve care quality

The MQii is focused on older adults (ages 65 and older) given the significant impact malnutrition has on this patient population and the opportunity to improve care among these patients

The MQii Offers a Solution to Enhance the Quality of Malnutrition Care

**Malnutrition Care Workflow**

- **Screening**
  - Nutrition screening using a validated tool for all patients with a hospital admission
- **Assessment**
  - Nutrition assessment using a standardized tool for all patients identified as at-risk for malnutrition
- **Diagnosis**
  - Documentation of nutrition diagnosis for all patients identified as malnourished or at-risk for malnutrition
- **Care Plan Development**
  - Establishment of a nutrition care plan for all patients identified as malnourished or at-risk for malnutrition
- **Intervention Implementation**
  - Implementation of a nutrition care plan including treatment for all patients identified as malnourished or at-risk for malnutrition
- **Monitoring/ Evaluation & Discharge Planning**
  - Implementation of processes, including discharge planning, that provide ongoing monitoring and support the care of patients identified as malnourished or at-risk for malnutrition

The MQii is based on patient-driven nutrition practices that include patient preferences and risk factors

*These steps in the care workflow have an eCQM associated with them.*
The MQii Provides Tools to Achieve Care Goals

The MQii Toolkit provides practical resources to enable hospitals to achieve optimal nutrition standards of care.

GOAL: Achieve Malnutrition Standards of Care

Data reported from eCQMs will help hospitals demonstrate if and by how much they are successful in meeting the standards of care.

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Malnutrition Electronic Clinical Quality Measures (eCQMs)

- **NQF #3087 / MUC16-294**: Completion of a Malnutrition Screening within 24 Hours of Admission
- **NQF #3088 / MUC16-296**: Completion of a Nutrition Assessment for Patients Identified as At-Risk for Malnutrition within 24 Hours of a Malnutrition Screening
- **NQF #3089 / MUC16-372**: Nutrition Care Plan for Patients Identified as Malnourished After a Completed Nutrition Assessment
- **NQF #3090 / MUC16-344**: Appropriate Documentation of a Malnutrition Diagnosis

*Measures were submitted to the National Quality Forum (NQF) for potential endorsement and to CMS for adoption into the HIQR – Hospital Inpatient Quality Reporting *
For more information: [www.eatrightpro.org/eMeasures](http://www.eatrightpro.org/eMeasures) and [www.eatrightpro.org/malnutrition](http://www.eatrightpro.org/malnutrition)
### eCQM Tests to Assess Feasibility and Validity

The following is a list of sites where the measures were tested:

**Feasibility of eCQM Concepts**
- **Feasibility Testing Sites**
  - Advocate Hospital
  - University of Iowa Hospitals and Clinics
  - Cleveland Clinic

**Validity of eCQM Concepts**
- **Field Testing Sites**
  - Advocate Hospital
  - University of Iowa Hospitals and Clinics

**Feasibility Testing EHR Vendors**
- EPIC
- Cerner
- AllScripts

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**Malnutrition Quality Improvement Initiative**

**MQii Toolkit**

**Learning Collaborative**

1.0 ➔ 2.0
Toolkit Tested at a Variety of Sites as Part of a Demonstration and Learning Collaborative

Participating Sites Included:

- Vanderbilt University Medical Center (Demonstration Site)
- Spring Valley Hospital
- Tampa General Hospital
- UC San Diego Health System
- University of Iowa Hospitals and Clinics
- West Virginia University Hospital

Toolkit was Tested in Hospitals Nationwide that Varied in Size and Type
Open Access MQii Toolkit Is Available at www.MQii.Today

Tools and Resources
- Patient Engagement
- Staff Education Tools
- Quality Improvement
- Data Management

MQii Toolkit and eCQMs Are Supported by Multi-Stakeholder Input

Advisory Committee
Toolkit design and implementation informed by representatives from:

MQii Toolkit Development

Technical Expert Panel
Measure development informed by representatives from:

MQii eCQM Development

CMS
Approach informed by regular communication with CMS to ensure alignment with CMS quality goals and adoption of best practices for a quality improvement demonstration

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Engagement with CMS to Discuss Integrating Malnutrition Quality in National Quality Programs

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Deputy Director  
CMS Center for Clinical Standards and Quality

Kate Goodrich, MD, MHS  
Director of the Center for Clinical Standards and Quality

Shari Ling, MD  
Deputy Chief Medical Officer  
CMS Center for Clinical Standards and Quality

Paul McGann, MD  
Co-Director Partnership for Patients  
CMS Center for Clinical Standards and Quality

Ensuring Hospital Adoption of eCQMs

THE ACADEMY AND AVALERE WILL ESTABLISH A MQii LEARNING COLLABORATIVE 2.0 IN 2017 TO SUPPORT eCQM ADOPTION

2015  
eMeasure (s)  
3 Hospitals  
4 eHR vendors

2016  
Learning Collaborative  
6 Hospitals

2017  
MQii Learning Collaborative 2.0  
30-50 Hospitals

The goals of the MQii Learning Collaborative 2.0 are twofold:
1. Bring together learning health delivery organizations to further test and generate evidence on malnutrition care best practices
2. Implement MQii tools under real-world circumstances to support acceleration and dissemination of optimal malnutrition care practices across the U.S

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Resources on Malnutrition

Practice Resources

Malnutrition

eMeasures Resources

Malnutrition

Electronic Clinical Quality Measures

The Academy is pleased to provide four electronic clinical quality measures. These measures can be used to continuously assess and improve care for malnourished adults.
Measures Specifications Manual

Electronic Clinical Quality Measures (eCQMs)

Practice
- Nutrition Care Process
- Quality Management
- Practice Resources
- Getting Paid
- Position and Practice Papers

Malnutrition Quality Improvement Initiative

The Academy is working with the National Quality Forum for endorsement of the four malnutrition electronic measures. The NSF endorsement process is designed to produce consensus for clinical practice guidelines of groups that reach a different part of the healthcare system.

The new measures are part of the Quality Payment Program (QPP) Merit-based Incentive Payment System (MIPS) for review and punitive payment.

Measures Specification Manual

The Measures Specification Manual serves as a guide for practitioners to readily implement the recommendations within clinical quality measures for their hospital processes. This manual provides an overview of the measures. Specification of each measure including its rationale, indicator, and data elements.

eCQMs Details

Overview and Downloadable Specification Files for the Malnutrition eCQMs
- NQF 40186/40187: Completion of a Malnutrition Screening within 24 hours of Admission
- NQF 40188/40189: Completion of a Nutrition Assessment for Patients identified at risk for Malnutrition within 4 hours of Malnutrition Screening
- NQF 40190/40191: Nutrition Care Plan for Patients identified as Malnourished after a Completed Nutrition Assessment
- NQF 40192/40193: Appropriateness Documentation of a Malnutrition Diagnosis

The table below lists the Academy’s four eCQMs for instruction with assigned NQF numbers and downloadable specification files. Each file contains an Extensible Markup Language (XML), which contains the measure specification, two extensible markup language (XML) files for hospital adoption into an electronic health record (EHR) system, and an email document resource file with corresponding information value sets.

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<th>National Quality Forum (NQF) Number</th>
<th>Measure Specification</th>
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<th>Informatics Value Set</th>
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<td>NPQ 40188</td>
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<td>M363/ M342</td>
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<td>for Patients identified as Malnourished after a Completed Nutrition Assessment</td>
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External Resources on Malnutrition

Defeat Malnutrition Coalition

...vital to healthy aging
Malnutrition Composite Measure

Malnutrition Composite Measure Model

Global Malnutrition Score
• Objective: measure how well hospitals comply with recommended steps of malnutrition care including:
  ✓ screening
  ✓ assessment
  ✓ diagnosis
  ✓ intervention/care plan

• Running simulation testing on this model using simulated data and original testing data from our first phase of measure testing

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Status of Learning Collaborative 2.0

- 20 enrolled individual facilities across 10 health systems
- Undergoing feasibility assessments
  - ensure collect measure data as specified in the measure
- Goal – each site collect initial run of data
  - April 2017
- Sites implement a 3-month Quality Improvement (QI) project
  - use the accompanying MQii Toolkit
  - track and monitor performance on the eCQMs

Learning Collaborative 2.0 will Elevate Malnutrition Quality Improvement at a National Level

Ultimately, the MQii Learning Collaborative 2.0 will accomplish the following:

- Highlight the scalability and usability of the four eCQMs and the Toolkit in hospitals across the United States
- Guide and inform the development of a Global Malnutrition composite measure

The evidence generated will support scalability of malnutrition risk identification and risk reduction efforts

*Some health systems are enrolling multiple individual hospitals across their system for participation
Advocacy
Engagement
Communication

Advocating for Malnutrition Quality Measures through NQF and CMS Pathways

Estimated Timing

**November 2016 - January 2017**
- CMS 2016 Measures Under Consideration (MUC) published and open for comment
- Malnutrition measures included in MUC list

**April – June 2017**
- CMS releases draft Hospital Inpatient Quality Reporting (IQR) Program Rule for FY2018
- Open for comment (Potential for malnutrition eCQMs to be included)

**October 2017**
- FNCE Chicago MQii Sessions
- Pending CMS inclusion of malnutrition eCQMs in final Hospital IQR Rule for FY2018
- Acute care integration of malnutrition quality measures (official data collection begins CY 2019)

**March 2017**
- CNM DPG Session
- NQF submits report to HHS with recommendations for CMS MUC
  (Potential for NQF comments on malnutrition eCQMs)

**August 2017**
- CMS releases final Hospital IQR Rule for FY2018
  (Potential for malnutrition eCQMs to be included)
Advisory Committee

Technical Expert Panel for eMeasures

Malnutrition Quality Improvement Initiative Advisory Committee

- Alison Steiber, PhD, RDN; Chief Science Officer, Research, International, and Scientific Affairs, Academy of Nutrition and Dietetics
- Ann Watt, MBA, RHIA; Associate Director, Department of Quality Measurement, Division of Healthcare Quality Evaluation, The Joint Commission
- Evelyn Granieri, MD, MPH, MSEd; Professor of Medicine, Chief, Division of Geriatrics Medicine and Aging, and American Geriatrics Society
- Howard Bregman, MD, MS; Director of Clinical Informatics, EPIC
- Karim Godamunne, MD, MBA, SFHM; Chief Medical Officer, North Fulton Hospital/Tenet Health System
- Leslie Kelly-Hall; Senior Vice President, Policy, Healthwise (Patient Advocate)
- Maureen Dailey, PhD, RN, CWOCN; Senior Policy Advisor, Health Policy, American Nurses Association
- Peggi Guenter, PhD, RN, FAAN; Senior Director of Clinical Practice, Quality, and Advocacy, American Society for Parenteral and Enteral Nutrition
- Refaat A. Hegazi, MD, PhD, MPH, MS, Global Medical Director, Research & Development, Abbott Nutrition
Malnutrition Quality Improvement Initiative eCQM Technical Expert Panel

- Albert Barrocas, MD; Chief Medical Officer, Atlanta Medical Center
- Karim Godamunne, MD, MBA, SFHM; Chief Medical Officer, North Fulton Hospital/ Tenet Health System
- Trisha Fuhrman, MS, RDN, CNSD, LD, FADA, FAND; Malnutrition / Nutrition Support Specialist, Ballwin, Missouri
- Sue Kent, MS, RDN, LD; Clinical Informatics Systems Analyst, Cleveland Clinic, Ohio
- Ginny Meadows, RN, FHIMSS; Vice President, Regulatory Strategy, McKesson
- Louise Merriman, MS, RDN; Director, Clinical Nutrition, New York - Presbyterian
- Melissa Parkhurst, MD; Associate Professor, University of Kansas Medical Center
- Eleanor Perfetto, PhD; Senior Vice President, Strategic Initiatives, National Health Council (Patient Advocate)
- Donna Quirk, MBA, RDN, LD; Clinical Nutrition Management, Lexington Medical Center, South Carolina
- Marty Yadrik, MS, MBI, RDN, FAND; Director, Nutrition Informatics, Computrition
- Angel Valladares, MPH; Manager, Avalere Health
- Sharon McCauley, MS, MBA, RDN, LDN, FADA, FAND; Senior Director, Quality Management, Academy of Nutrition and Dietetics

Questions?