Reducing Hospital Readmissions: A CMS/HHS Priority

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#### Hospital Readmissions

- Oft-quoted 2009 NEJM article <u>once again</u> documented the problem
  - 1/5 Medicare patients are readmitted within 30 days following discharge from hospital
  - Medicare beneficiaries are readmitted in 34% of hospital discharges within 90 days of discharge
  - Cost to CMS: \$17.4 billion (2004)
- This finding has been known for years
- Two theses for the Summit to consider:
  - Actions and interventions to reduce readmissions should predominate over continued description of the problem
  - Continued research is needed, but focused on evidencebased effective solutions

#### **Hospital Readmissions**

The Good News: Discussions less frequently focus on excuses and barriers/challenges to reducing readmissions

Many stakeholders, especially hospital leadership, are working together on reducing readmissions

# Affordable Care Act (ACA) of 2010

- Title I: Quality, Affordable Health Care for all Americans
- Title II: Role of Public Programs
- Title III: Improving the Quality & Efficiency of Health Care
- Title IV: Prevention of Chronic Disease & Improving Public Health
- Title V: Health Care Work Force

# Affordable Care Act (ACA) of 2010

- Title VI: Transparency and Public Reporting
- Title VII: Improving Access to Innovative Medical Therapies
- Title VIII: Community Living Assistance Services & Support (CLASS) Act
- Title IX: Revenue Provisions
- Title X: Strengthening Quality, Affordable Health Care for All Americans (Amendments)

# ACA: Section 3026 - Community-Based Transitions Care Program

Program established by the Secretary to provide funding to Eligible Entities that furnish improved care transitions services to High-risk Medicare beneficiaries

#### Eligible Entity

- Community-based organization
- Arrangements made for care transitions services with hospitals
- Governing body must include sufficient representation of multiple health care stakeholders (including consumers)

ACA: Section 3026 - Community-**Based Transitions Care Program** High-Risk Medicare Beneficiary Attained "minimal hierarchical condition category score as determined by the Secretary Multiple chronic conditions, or other risk factors, which may include: ■ Cognitive impairment Depression ■ A history of multiple readmissions ■ Any other chronic disease or risk factor as determined by the Secretary ■ 5-year Program beginning January 1, 2011 7

#### Ensuring Quality & Value: CMS Strategies

- "Contemporary Quality Improvement"
- Transparency: Public Reporting & Data Sharing
- Incentives:
  - Financial: Value-Based Purchasing, P4P, P4R, gain-sharing, etc.
  - Non-financial
- Regulatory vehicles
  - COPs & CfCs
  - Survey & Certification, Accreditation
  - Myriad policy decisions: Benefit categories, Fraud & Abuse, etc.
- National & Local Coverage Decisions
- Demonstrations, pilots, research

# **Contemporary Quality Improvement**

#### Evidence-Based

- Identification of the problem
- Metrics
- Interventions
- Metrics
  - Scientifically sound in development, subject expert input
  - Preferably nationally endorsed by consensus process
  - Tested
  - Accurate, valid, actionable

#### **Contemporary Quality Improvement**

- Entities involved in quality improvement
  - Accountable for
    - Evidence-based nature of the initiative and technical assistance
    - Data collection, validity, accuracy, feedback
  - Are measured more frequently than pre- and post-
    - Allows rapid cycle QI, modifications to interventions if not working
    - Tied to performance measurement, funding
  - Must be able to attribute specific interventions to observed outcomes

**Contemporary Quality Improvement** CMS QIO Program: 9<sup>th</sup> SOW ■ August 1, 2008-July 31, 2011 ■ Themes Beneficiary Protection ■ Prevention Patient Safety ■ Care Transitions Cross-cutting issues ■ Value in healthcare Health Information Technology adoption and "meaningful use"

Health Disparities reduction

### **Contemporary Quality Improvement**

#### Why Care Transitions?

- Long-standing problem with high rate of readmissions, particularly in the Medicare population
- Multiple quality of care deficiencies observed with transitions of care from one setting or provider to another in numerous academic & healthcare policy papers
- Personal and public experiences with poor care transitions
- Increased focus among healthcare stakeholders on care coordination, payment silos, etc.

CMS Quality Improvement Organization (QIO) Program

#### VALUE Project during 8<sup>th</sup> SOW

- 4 sites
- Most successful in Colorado by QIO and University of Colorado
- Set stage for wider initiative in 9<sup>th</sup> SOW
- Care Transitions Theme in QIO 9<sup>th</sup> SOW
  - 3 years of planning
  - Implemented August 1, 2008
  - 14 states involved, hopefully nationwide in 10<sup>th</sup> SOW
  - Not a pilot or demo, contractual with deliverables

#### **Care Transitions Theme Goals**

- To measurably improve the quality of care for Medicare beneficiaries who transition across care settings through a comprehensive <u>community</u> effort
- To reduce readmissions following hospitalization and to yield sustainable and replicable strategies to achieve highvalue health care for Medicare beneficiaries
- To achieve the goals, Care Transitions QIOs:
  - Conduct a "root cause analysis" to identify the major contributing factors associated with the local rates of rehospitalization.
  - Implement evidence-based intervention strategies to address driving factors

# Care Transitions Theme: 14 QIOs in 14 Communities

- Tuscaloosa HRR (AL)
- NW Denver (CO)
- Miami (FL)
- North-Central Georgia (GA)
- Evansville (IN)
- Baton Rouge (LA)
- Greater Lansing Area Community (MI)
- Omaha (NE)

- SW New Jersey (NJ)
- Upper Capital Region (NY)
- Western Pennsylvania (PA)
- Providence (RI)
- Harlingen HRR (TX)
- □ Whatcom (WA)

#### 14 QIOs with 14 Target Communities



# Care Transitions Community Characteristics

Competitive contracting process

Best 14 proposals chosen

Focus on the community setting, NOT individual hospitals

#### Providers:

- Hospitals 66
- Skilled Nursing Facilities 277
- Home Health 316
- Other 89

#### □ Zip Codes – 677

Variation in community size

- Miami, FL: 146,000 beneficiaries
- Whatcom, WA: 28,000 beneficiaries

## Care Transitions Community Characteristics

- Variation in numbers of transitions: 43,000 to 7,000/year
- Medicare Beneficiaries 1,125,649
  - 100,000 30-day readmissions in 2008 and 2009
- Variable baseline readmission rates: 14-22%
- Goal of 2% reduction in overall readmissions rates
  - Most comprehensive measurement and monitoring of hospital admissions to date
  - 6 Interim Process Measures, 8 Outcomes measures
  - Beneficiary experience of care measured using HCAHPS
- Total Number of 30-day Readmission Avoided if 2% reduction is met: 2,585

#### Root Cause Analysis: An Example

#### Root Cause Identified:

- High HF readmission rates at all 4 target hospitals. Causes identified through claims data and interdisciplinary staff interviews
  - Medication reconciliation issues
  - Opportunity for more post acute f/u by HH based on claims data disposition codes
  - Inconsistent disease specific teaching across settings
  - Inconsistent transfer of appropriate information
     Timely PCP f/u
  - Hospitalist contact with PCP

# Evidence-Based Interventions: An Example

- Transforming Care at the Bedside for patients with Heart Failure:
  - Creating an Ideal Transition Home
  - Medication reconciliation Identifying and involving family caregivers
  - Teach Back
  - CARE Tool/Transfer checklist
  - HH referral/coaching
  - Cardiology f/u
  - NP f/u

#### Area of Activity: A Hospital/community system-wide interventions that address system-level weaknesses

Intervention	Medication Management	Plan of Care	Post-discharge Follow-up	
Care Transitions Intervention (CTI <sup>™</sup> ) Coleman, et al. 2004, 2005, 2006	✓		✓	
Hospital-based DC Medication Protocol Lappe, et al., 2004	$\checkmark$			
APN-directed DC Planning and home follow-up protocol Naylor et al., 1999				
Delivery Of DC Summaries To FU Physicians Post Discharge Van Walraven et al., 2002			✓	
Correcting Medication Errors At Hospital Discharge Vira et al., 2006	✓			
Transforming Care at the Bedside (TCAB) IHI 2007		~		
Move Your Dot™ IHI 2003				
<b>Project RED</b> Jack et al, 2007			✓ 21	

#### Area of Activity: B Interventions that target re-hospitalizations for specific diseases or conditions

Intervention	Medication Management	Plan of Care	Post-d/c Follow-up	
Care Transitions Intervention (CTI <sup>™</sup> ) Coleman, et al. 2004, 2005, 2006	✓		~	
Multi-disciplinary Care in HF Outpatients Kasper et al. 2002			~	
SPAN-CHF Trial Kimmelstiel et al. 2004	✓		~	
Discharge Education Koelling et al. 2005			×	
Education & Support Intervention for HF Patients Krumholz et al. 2002	✓		~	
Hospital-based DC Medication Protocol Lappe, et al., 2004	Y III			
APN-directed DC Planning and home follow-up protocol Naylor et al., 1999			~	
Standardized Nurse CM telephone Intervention Riegel et al., 2005			~	
Transforming Care at the Bedside (TCAB) IHI 2007		*		
The PACT Project Behforouz, 2008			✓ 22	

Area of Activity: C Interventions that target specific reasons for readmission

Intervention	Medication Management	Plan of Care	Post-d/c Follow-up	
HF Patient Management Programme Cline, et al. 1998			✓	
Care Transitions Intervention (CTI <sup>™</sup> ) Coleman, et al. 2004, 2005, 2006	~		✓	
Multi-disciplinary Care in HF Outpatients Kasper et al. 2002			✓	
SPAN-CHF Trial Kimmelstiel et al. 2004	~		✓	
Discharge Education Koelling et al. 2005			✓	
Education & Support Intervention for HF Patients Krumholz et al. 2002			$\checkmark$	
APN-directed DC Planning and home follow-up protocol Naylor et al., 1999			✓	
Nurse-directed Multi-disciplinary Intervention Rich et al, 1995			$\checkmark$	
Correcting Medication Errors At Hospital Discharge Vira et al., 2006	~			
Transforming Care at the Bedside (TCAB) IHI 2007		~		
Move Your Dot™ IHI 2003			23	

#### **QIO** Performance Measurement

I-1	Percentage of patient care transitions (FFS Medicare) in the specified geographic area that are attributable to providers who agree to participate.
I-2	Percentage of patient care transitions (FFS Medicare) in the specified geographic area that are the potential subject of an implemented intervention that addresses hospital/community system wide processes.
I-3	Percentage of patient care transitions (FFS Medicare) in the specified geographic area that are the potential subject of an implemented intervention that addresses AMI, CHF or pneumonia.
1-4	Percentage of patient care transitions (FFS Medicare) in the specified geographic area that are the potential subject of an implemented intervention that addresses specific reasons for readmission.
I-5	Percentage of implemented interventions in the specific geographic area that are measured.
I-6	Percentage of patient care transitions (FFS Medicare) in the specified geographic area to which implemented and measured interventions appay.

O-1	Patient Assessment of Hospital Quality (HCAHPS)
O-1a.	Percentage of patients over 65 years who rate hospital performance as meeting HCAHPS performance standard for information about medicines.
O-1b.	Percentage of patients over 65 years who rate hospital performance as meeting HCAHPS performance standard for discharge information.
O-2	Percentage of patients discharged to community and readmitted within 30 days who are seen by a physician between discharge and readmission.
O-3	Percentage of patient care transitions (FFS Medicare), in the specified geographic area, for which implemented and measured interventions show improvement.
O-4	Percentage of patients from the specified geographic area re-hospitalized within 30 days of discharge from an acute care hospital.
O-5	Diagnosis related 30-Day Readmission Rates
O-5a.	AMI Discharge and All-Cause Readmission Rates
O-5b.	HF Discharge and All-Cause Readmission Rates
O-5c.	Pneumonia Discharge and All-Cause Readmission Rates
O-6	Percentage of patient transitions within the specified geographic area for which a CARE instrument was used.

#### **Care Transitions 18 month Results**

- 14/14 QIOs met their interim performance metrics results
  - In spite of many evidence-based interventions, communities tended to focus on the two interventions that have received most publicity and public attention
  - There are many opportunities to broaden the scope of interventions
  - Section 3206 of ACA is an opportunity to broaden the use of evidence-based interventions, not tying funding to a narrow group of evidence-based interventions

#### **Care Transitions 18 month Results**

- Most communities are experiencing a drop in Medicare FFS beneficiaries
  - ? Migration to MA plans or exodus to other states
- Most communities are seeing a drop in readmission rates
  - Overall community 30-day readmission rates at baseline ranged from 8.5/1000 eligible beneficiaries to 37/1000 eligible beneficiaries
  - 11/14 communities have documented a drop in 30-day readmission rates, the magnitude ranging from 0.8% to 18.9%
  - There is a strong tendency to persist in relatively high/low readmission rates over time from 2007-2009
  - 3/14 communities have seen a slight rise in 30-day readmission rates, the magnitude ranging from 0.2% to 4.1%27

#### **Care Transitions 18 month Results**

- Of interest, we are also seeing a drop in primary admission rates, which is unexpected
- Overall community hospitalization rates range from 44/1000 eligible beneficiaries to 197/1000 eligible beneficiaries
- Communities with very low or very high hospitalization rates tend to persist over the years 2007-2009
- 8/14 communities have had a drop in admission rates ranging from 1.5% to 10%

#### **Readmission Metrics Development**

Risk-standardized 30-day readmission measures

- Congestive Heart Failure
- Acute Myocardial Infarction
- Pneumonia
- Represent about 46% of Medicare readmissions
- Developed by CMS under contract with Yale and Harvard Universities
- Methodology published in peer-reviewed literature
  - Also subjected to public comments in various venues, including public rulemaking

#### **Readmission Metrics Development**

- Comply with standards set by the American Heart Association and the American College of Cardiology
- Estimated with Medicare administrative data using models validated against medical record-based abstraction models
  - Results of the models with administrative claims and enrollment data were shown to be highly correlated with the results of models based on clinical data
- Endorsed by the National Quality Forum
- Adopted for reporting by the Hospital Quality Alliance
- Tested in advance of implementation
- Linked to Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) & Hospital Compare

#### **Performance Categories**



2009 National Results (7/05-6/08 discharges): Readmission

Average 30-day hospital readmission rates are high
AMI 19.9
HF 24.5
PN 18.2

■ There is high variation (about 10 points difference)

The goal is not zero; all hospitals have room to improve

#### **Distribution of Hospital Readmissions**







#### **Distribution of HF Readmission by HRR**



Figure 6b. Heart Failure 30-Day Risk-Standardized Readmission Rate (RSRR) Weighted Average by Hospital Referral Region (HRR)



# 30-Day Readmission Measures Status Update

 Publicly Reported 30-day Risk-Standardized Readmission Measures (AMI, CHF, PN)
 Publicly Reported: July, 2009
 Hospital Compare: June, 2010
 Under review by NQF
 Patients undergoing Percutaneous Coronary Intervention (PCI)

Expected NQF endorsement: Summer, 2010

# 30-Day Readmission Measures Status Update

In development by Yale

- Ischemic stroke
- Elective hip & knee replacement
- Expected NQF submission Fall, 2010/Winter 2011
- Planned 30-day Risk Standardized Readmission measures for 2010-2011 development to meet the requirements of the HRRP of ACA
  - CABG
  - COPD
  - Other vascular diseases

#### Incentives

Pay-for-Reporting Initiatives ■ RHQDAPU ■ HOPQDRP ■ PQRI Value-Based Purchasing Programs ESRD Quality Incentive Program ■ VBP for hospitals, then physicians, SNFs, HHAs, ASCs Gainsharing arrangements Accountable Care Organizations Competitive bidding ■ Other mechanisms

Conditions of Participation for hospitals

- Requires hospitals to provide comprehensive discharge evaluation and planning services to its patients under certain circumstances
  - Must identify patients at risk early in hospitalization
  - Patient/family request
  - Physician request in absence of hospital-generated plan
  - Must include evaluation of services needed and availability
- Must be timely
- Must be supervised by nurse, social worker or other appropriately trained personnel

- Conditions of Participation for hospitals
  - Hospital must arrange for initial implementation
    - Arrangement for post-hospital services and care
    - Educating patient, family, caregivers and community providers about the plan
  - Hospitals must transfer patient to appropriate facilities, agencies, or outpatient services as needed (with caveats)
  - Hospital must reassess discharge plan if there are factors that may affect the continuing care needs or appropriateness of the discharge plan
  - Discharge planning part of required QAPI requirements

#### Survey & Certification Process

- Routine and complaint-driven
- Surveyor guidelines assess compliance with Conditions of Participation
- If deficiencies found can result in
  - Corrective actions: Far most common
  - Termination from Medicare Program
  - Referral to Office of the Inspector General
- We could target readmissions as a focus if a policy decision were made

Beneficiary Complaint Process Many venues to register a complaint ■ 1-800-MEDICARE ■ QIOs State Survey Agencies CMS Central Office and Regional Offices Office of Ombudsman Contractors: MA Health Plans, Prescription Drug Plans, MACs, etc. Hospital CAHPS (HCAHPS) Survey

#### **Coverage and Payment**

- Hospital Acquired Conditions policy extension a possibility
- National Coverage Decision process
  - "Never Events" extension possibility
- Others?

#### **CMS** Demonstrations

Readmissions in Medicare Premier Hospital Quality Incentive Demonstration

- Provides bonuses for high quality care in 5 clinical areas.
- Readmissions included as a quality measure for hip and knee replacement
- Test measure for AMI, CABG, pneumonia, and CHF
- Readmissions in the Acute Care Episode (ACE) Demonstration
  - Bundled payment currently covers only hospital and physician services provided during hospitalization
  - 30-day readmission rate is one of the quality measures for monitoring both cardiovascular and orthopedic procedures
  - Demonstration may include readmissions in future

#### **CMS** Demonstrations

- Readmissions in Post Acute Care (PAC) Demonstration
  - Demonstration is assessing use of a single post acute care tool to identify, monitor and address conditions across settings of care after discharge from an acute care hospital admission
  - May lead to consolidation of multiple payment systems to pay for episodes of care in hospitals, nursing homes, and other settings
  - Readmission to hospitals, as well as other settings, a key metric

#### Summary

Preventable readmissions reflect low quality (care that should be unacceptable for patients) and low value (waste of dollars) and must be addressed NOW There are interventions that can and should be implemented immediately, while simultaneously addressing larger barriers and policy issues Payment reform will be one of several key components to reduce preventable readmissions Payment reform, by itself, won't correct all the issues ■ Some form of integration of the healthcare delivery system addressing care transitions and coordination will also be needed

#### Summary

- CMS is utilizing six strategies to address hospital readmissions reduction, in concert with other efforts by HHS and other federal government agencies
- Recent legislation, prior legislation, and the President's annual budget requests clearly target reduction of hospital readmissions as a quality and value priority for the nation's healthcare
   Federal efforts must be coordinated and in
  - alignment with a community/local focus

#### **Contact Information**

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