





Home Health Within-Stay Potentially Preventable Hospitalization Measure

Measure Applications Partnership December 03, 2019



# Rationale for PPH Measure



- As part of CMS's Meaningful Measures framework, our goals are to ensure that potential measures are:
  - relevant
  - meaningful to patients
  - outcome-focused
  - actionable
  - not burdensome for providers
  - aligned with other programs
- Stakeholders did not support adding an Emergency Room Measure to the Home Health Quality of Patient Care Star Rating since HHAs have limited ability to affect a patient's emergency room use.
- Measure developers received stakeholder feedback on the importance of capturing potentially preventable outcomes

# **Rationale for PPH Measure**



#### **Comparison of Numerator Specifications across Home Health Claims-Based Measures**

	Numerator Details		
Measure	<b>Observation Window</b>	<b>Condition Type</b>	Setting
Acute Care Hospitalization	During first 60 days of HH	All Cause Unplanned	IP Admissions
ED-Use without Hospitalization	During first 60 days of HH	-	Emergency Department
Post-Discharge Potentially	30 days post-discharge from		
Preventable Readmissions	HH	Potentially Preventable	IP Readmissions
Within-Stay Potentially			IP Admissions &
Preventable Hospitalizations	Within stay	<b>Potentially Preventable</b>	<b>Observation stays</b>

### **Overview of Potentially Preventable Conditions, Grouped based on Clinical Rationale**



Potentially Preventable Condition	AHRQ Ambulatory Care Sensitive Conditions/Performance Quality Indicators	Within Stay Definition	Thirty day Post Discharge Definition
Inadequate management of chronic condition	15		
Congestive heart failure (CHF)*	X	Х	X
Chronic obstructive pulmonary disease (COPD)*	Х	Х	Х
Diabetes short-term complication*	Х	Х	X
Hypertension*/Hypotension	Х	Х	X
Adult asthma*	Х	Х	X
Inadequate management of infections			
Septicemia (except in labor)		Х	X
Urinary tract infection*/Kidney infection	Х	Х	X
Bacterial pneumonia*	X	X	X
Skin and subcutaneous tissue infections		X	X
C. difficile infection		X	X
Influenza		X	X
Inadequate management of other unplanned	events		
Acute kidney failure*	X	Х	X
Dehydration*/ Electrolyte imbalance	X	Х	Х
Arrhythmia		Х	X
Anticoagulant complications		Х	X
Deep vein thrombosis/Pulmonary embolism		Х	Х
Aspiration pneumonitis; food/vomitus		Х	Х
Deficiency and other anemia		Х	X
Pressure ulcers		X	Х
Intestinal impaction		X	X
Acute delirium		X	X
Inadequate injury prevention			
Head injury		X	X
Fractures		X	X

\*Ambulatory Care Sensitive Conditions (ACSCs)/Performance Quality Indicators (PQIs)

## Within-Stay Potentially Preventable Hospitalization (PPH) Measure Review

Within-Stay Potentially Preventable Hospitalization



- Measure Details
  - measure reports a home health agency-level rate of risk-adjusted potentially preventable hospitalization (PPH) or observation stays
  - measure calculates a standardized risk ratio the predicted number of unplanned, potentially preventable hospital admissions or observation stays at the HHA divided by the expected number of admissions or observation stays for the same patients if treated at the average HHA
  - Excludes "planned" hospitalizations, patients less than 18, patients without Medicare Part A FFS Medicare, LUPA claims, patients with visits from multiple HHAs in a stay, and stays with information required for risk adjustment

# **Measure Testing**



- Risk Adjustment: Age and sex, Enrollment status, Activities of daily living scores (ADL), Care received during a prior proximal hospitalization, Other care received within one year of the HH stay – consistent reliable results; predictive ability at low and high deciles [C-statistic (c=0.727)]
- Socio-Demographic Status (SDS) Testing: Race, Urban/Rural, Medicaid Dual Enrollment Status, Area Deprivation Index (ADI) – did not dramatically improve model results
- Reliability: Split-sample testing- moderate internal consistency; overall ICC is .60 (95% CI .59-.62), indicating a good level of reliability.
- Validity: Tested the HH Within-Stay PPH measure with Acute Care Hospitalization During the First 60 Days of HH (NQF #0171), Discharge to Community (DTC)-Post Acute Care (PAC) HH QRP, Emergency Department (ED) Use without Hospitalization During the First 60 Days of HH (NQF #0173), and the Re-hospitalization During the First 30 Days of HH (NQF #2380) Measures