

Maryland Hospital Quality-Based Reimbursement Initiative

Evaluation Work Group Meeting

Friday, July 11, 2008

New Measures Draft Discussion Document

The Initiation Work Group of the QBR Initiative generally agreed to using the principles listed below to guide the selection of measures to be used in quality-based reimbursement for hospitals in Maryland. While it was expected that not all measures will meet all the principles absolutely, collectively they should reflect aspects of quality and safety.

- Measures should reflect aspects of performance that hospitals can control and influence
- Measures should reflect common processes in the delivery of care across Maryland hospitals
- Measures should be evidence-based whenever possible
- Measures should describe aspects of safer practices
- Measures chosen should foster and encourage quality improvement
- Data needed to construct the measures should be readily available either to the HSCRC or to the individual hospitals
- Areas of performance to be measured should be prioritized, with some measures phased in at a later date
- Qualitative measures should not be excluded a priori
- The construct of the measures or the measures themselves may change after pilot test data are evaluated and as knowledge evolves

The criteria in Figure 1 below were also considered in initial measure selection of the 19 process measures for the QBR Initiative and should be considered when recommending new candidate measures for the Maryland QBR Initiative.

Figure 1. Measure Selection Criteria

Importance or relevance, including:*	Scientific acceptability/soundness, including:*	Usability, including:*	Feasibility, including:*
<ul style="list-style-type: none"> • Leverage point for improving quality • Performance in the area is suboptimal • Aspect of quality is under provider control • Considerable variation in quality of care exists 	<ul style="list-style-type: none"> • Well-defined and precisely specified • Reliable • Valid (“accurately representing the concept”) • Precise, adequate discrimination • Adequate, specified risk-adjustment • Evidence linking process measures to outcomes 	<ul style="list-style-type: none"> • Can be used by at least one stakeholder audience for decision-making • Performance differences are statistically meaningful • Performance differences are clinically meaningful • Any methods for aggregating measure are defined 	<ul style="list-style-type: none"> • Point of data collection tied to care delivery, when feasible • Timing and frequency of measure collection are specified • Benefit of measurement is evaluated against financial and administrative burden • Auditing strategy is designed and can be implemented • Confidentiality concerns can be addressed

*These criteria are those used by the National Quality Forum in evaluating measures considered for endorsement through the NQF Consensus Development Process.

Categories of measures the Evaluation Work Group should consider are defined in Figure 2 below and include structure, process, outcome and patient experience measures. Figure 3 that follows contains a table of candidate measures.

Figure 2. Measure Categories and Definitions

<p>Structural Measures entail the conditions under which care is provided, such as:</p> <ul style="list-style-type: none"> • Material resources (facilities, equipment) • Human resources (ratios, qualifications, experience) • Organizational characteristics (size, volume, systems) 	<p>Process Measures measure performance on the activities that constitute health care (adherence to guidelines), including such areas as:</p> <ul style="list-style-type: none"> • Screening and diagnosis • Treatment and rehabilitation • Education and prevention 	<p>Outcome Measures are changes attributable to health care, Intermediate and final, such as:</p> <ul style="list-style-type: none"> • Laboratory or vital sign value • Mortality, morbidity (complications, readmissions), functional status • Efficiency • Knowledge, attitudes, and behaviors 	<p>Patient experience Measures are those that are reported by the patient and may include the patient's perspectives on:</p> <ul style="list-style-type: none"> • Outcomes of care (e.g., how well their pain is managed, their overall rating of the quality of the hospital care) • Processes of care (e.g., whether they received all recommended preventive treatment)
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Figure 3 below contains a non-exhaustive table of candidate measures presented in structural, process, outcome (intermediate and final) and patient experience categories. In addition, the table indicates:

- the source/owner of the measure,
- whether the measure is currently reported or there is a plan for reporting it on HHS Hospital Compare¹ and/or the Maryland Hospital Performance Guide maintained by the Maryland Healthcare Commission (MHCC)²,
- whether the measure has been nationally vetted and is currently endorsed by the National Quality Forum,
- whether the measure is/has been used in pay for performance programs, and
- additional notes important to consider or relevant about the measure.

To support Evaluation Work Group Member review and prioritization of new QBR Initiative measures, following the table of candidate measures in Figure 3:

- **Appendix A** contains a table comparing the measures initially selected for the Maryland hospital QBR Initiative and those recommended by CMS to Congress for use in the Medicare hospital Value Based Purchasing Program.
- **Appendix B** contains a table of future proposed measures (Table 2) and implementation timeline (Table 1) for the MHCC Hospital Performance Guide.
- **Appendix C** contains the CMS proposed set of measures for the Medicare pay for reporting initiative for FFY 2009 and 2010.
- **Appendix D** contains potential measure sets for Medicare pay for reporting for FFY 2011 and beyond.

Evaluation Work Group members are asked to review the measures in the table in Figure 3 below and do the following:

- **Add in the blank rows candidate measures that are missing from the chart that should be considered for future use.**

¹ Available at: <http://www.hospitalcompare.hhs.gov/>. Last accessed June 20, 2008.

² Available at: <http://mhcc.maryland.gov/consumerinfo/hospitalguide/index.htm>. Last accessed June 20, 2008.

- In the far right column, code or rank the measures using the following:
 - “1”- measures that should be considered now for the QBR Initiative in the shorter term (12- 18 months)
 - “2”- measures that should be considered now for the QBR Initiative in the medium term (2-4 yrs)
 - “3”- measures that should possibly be considered for the QBR Initiative in the shorter term (12- 18 months)
 - “4”- measures that should possibly be considered for the QBR Initiative in the medium term (2-4 yrs)
 - “5”- measures that should not be considered for the QBR Initiative

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Please note that the table excludes the AMI, HF, and pneumonia measures already selected as part of the initial set for the QBR Initiative and are also currently reported on Hospital Compare and on the Maryland Healthcare Commission Hospital Performance Guide. However, although they are part of the initial QBR set, the surgical infection measures for antibiotic selection, start time, and discontinuance are included on the table as they are not yet fully implemented and reported for all applicable procedures on the MHCC Hospital Performance Guide.

Figure 3. Hospital Measures by Category

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
STRUCTURE³							
Create and sustain a healthcare culture of safety. Practice Element 1: Leadership structures and systems must be established to ensure that there is organization-wide awareness of patient safety performance gaps, that there is direct accountability of leaders for those gaps, that an adequate investment is made in performance improvement abilities, and that actions are taken to assure the safe care of every patient served. Practice Element 2: Healthcare organizations must measure their culture, provide feedback	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	

³ Maryland Health Care Commission plans to add Safety Practices to the online Hospital Performance Evaluation Guide in 2008 and 2009.

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to the leadership and staff, and undertake interventions that will reduce patient safety risk Practice Element 3: Healthcare organizations must establish a proactive, systematic, and organization-wide approach to developing team-based care through teamwork training, skill building, and team led performance improvement interventions that reduce preventable harm to patients. Practice Element 4: Healthcare organizations must systematically identify and mitigate patient safety risks and hazards with an integrated approach in order to continuously drive down preventable patient harm.							
Ask each patient or legal surrogate to “teach back” in his or her own words key information about the proposed treatments or procedures for which he or she is being asked to provide informed consent.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Ensure that written documentation of the patient’s preferences for life-sustaining treatments is prominently displayed in his or her chart.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Following serious unanticipated outcomes, including those that are clearly caused by systems failures, the patient and, as appropriate, the family should receive timely, transparent, and clear communication concerning what is known about the event.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Implement critical components of a well-designed nursing workforce that mutually reinforce patient safeguards, including the following: <ul style="list-style-type: none"> a nurse staffing plan with evidence that it is adequately resourced and actively managed and that its effectiveness is regularly evaluated with respect to patient safety; 	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	

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<ul style="list-style-type: none"> senior administrative nursing leaders, such as a chief nursing officer, as part of the hospital senior management team; governance boards and senior administrative leaders that take accountability for reducing patient safety risks related to nurse staffing decisions and the provision of financial resources for nursing services; and the provision of budget resources to support nursing staff in the ongoing acquisition and maintenance of professional knowledge and skills. 							
Ensure that non-nursing, direct care staffing levels are adequate, that the staff is competent, and that they have had adequate orientation, training, and education to perform their assigned direct care duties.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
All patients in general intensive care units (ICUs) (both adult and pediatric) should be managed by physicians who have specific training and certification in critical care medicine ("critical care certified").	National Quality Forum	X			X	This is the second leap of the Leapfrog Hospital Survey in which 8 Maryland hospitals currently participate. WellPoint/Anthem uses this measure in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Ensure that care information is transmitted and appropriately documented in a timely manner and in a clearly understandable form to patients and to all of the patient's healthcare providers/ professionals, within and between care settings, who need that information in order to provide continued care.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
For verbal or telephone orders or for telephonic reporting of critical test results, verify the complete order or test result by having the person who is receiving the information record and read back the complete order or test result.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Implement standardized policies, processes, and systems to ensure the accurate labeling of radiographs, laboratory specimens, or other	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of	

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diagnostic studies so that the right study is labeled for the right patient at the right time.						the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
A "discharge plan" must be prepared for each patient at the time of hospital discharge, and a concise discharge summary must be prepared for and relayed to the clinical caregiver accepting responsibility for postdischarge care in a timely manner.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Implement a computerized prescriber order entry (CPOE) system built upon the requisite foundation of re-engineered evidence-based care, an assurance of healthcare organization staff and independent practitioner readiness, and an integrated information technology.	National Quality Forum	X			X	This is the first leap of the Leapfrog Hospital Survey in which 8 Maryland hospitals currently participate. WellPoint/Anthem uses this measure in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Standardize a list of "do not use" abbreviations, acronyms, symbols, and dose designations that cannot be used throughout the organization.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
The healthcare organization must develop, reconcile, and communicate an accurate medication list throughout the continuum of care.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Pharmacists should actively participate in medication management systems by, at a minimum, working with other health professionals to select and maintain a formulary of medications chosen for safety and effectiveness, being available for consultation with prescribers on medication ordering, interpretation and review of medication orders, preparation of medications, assurance of the safe storage and availability of medications, dispensing of medications, and administration and	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	

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monitoring of medications.							
Standardize methods for the labeling and packaging of medications.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Identify all high alert drugs, and establish policies and processes to minimize the risks associated with the use of these drugs. At a minimum, such drugs should include intravenous adrenergic agonists and antagonists, chemotherapy agents, anticoagulants and anti-thrombotics, concentrated parenteral electrolytes, general anesthetics, neuromuscular blockers, insulin and oral hypoglycemics, and opiates.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Healthcare organizations should dispense medications, including parenterals, in unit-dose, or, when appropriate, in unit-of-use form, whenever possible.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Action should be taken to prevent ventilator-associated pneumonia by implementing ventilator bundle intervention practices.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Adhere to effective methods of preventing central venous catheter-associated bloodstream infections, and specify the requirements in explicit policies and procedures.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Prevent surgical site infections (SSIs) by implementing four components of care: <ul style="list-style-type: none"> • appropriate use of antibiotics; • appropriate hair removal; • maintenance of postoperative glucose control for patients undergoing major 	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily	

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cardiac surgery; and • establishment of postoperative normothermia for patients undergoing colorectal surgery.						participate in at least a portion of the survey.	
Comply with current Centers for Disease Control and Prevention (CDC) Hand Hygiene guidelines.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Annually, immunize healthcare workers and patients who should be immunized against influenza.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
For high-risk elective cardiac procedures or other specified care, patients should be clearly informed of the likely reduced risk of an adverse outcome at treatment facilities that participate in clinical outcomes registries and that minimize the number of surgeons performing those procedures with the strongest volume-outcomes relationship.	National Quality Forum	X			X	This is part of the third leap of the Leapfrog Hospital Survey in which 8 Maryland hospitals currently participate.	
Implement the Universal Protocol for Preventing Wrong Site, Wrong Procedure, Wrong Person Surgery for all invasive procedures.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Evaluate each patient undergoing elective surgery for his or her risk of an acute ischemic perioperative cardiac event, and consider prophylactic treatment with beta blockers for patients who either: 1. have required beta blockers to control symptoms of angina or have symptomatic arrhythmias or hypertension, or 2. are at high cardiac risk owing to the finding of ischemia on preoperative testing and are undergoing vascular surgery.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Evaluate each patient upon admission, and regularly thereafter, for the risk of developing	National Quality	X			X	This practice is one on which hospitals may	

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pressure ulcers. This evaluation should be repeated at regular intervals during care. Clinically appropriate preventive methods should be implemented consequent to this evaluation.	Forum					voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Evaluate each patient upon admission, and regularly thereafter, for the risk of developing venous thrombo-embolism/deep vein thrombosis (VTE/DVT). Utilize clinically appropriate, evidence-based methods of thrombo-prophylaxis.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Every patient on long-term oral anticoagulants should be monitored by a qualified health professional using a careful strategy to ensure the appropriate intensity of supervision.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Utilize validated protocols to evaluate patients who are at risk for contrast media-induced renal failure, and utilize a clinically appropriate method for reducing the risk of renal injury based on the patient's kidney function evaluation.	National Quality Forum	X			X	This practice is one on which hospitals may voluntarily report as part of the Leapfrog Hospital Survey; currently 8 Maryland hospitals voluntarily participate in at least a portion of the survey.	
Skill mix (RN, LPN, unlicensed assistive personnel (UAP), and contract)	American Nurses Assoc (ANA)	X				This measure is used for ANA Magnet Hospital designation	
Nursing care hours per patient day (RN, LPN, and UAP)	VHA, Inc	X				This measure is used for ANA Magnet Hospital designation	
Practice Environment Scale - Nursing Work Index (composite and five subscales)	Public Domain.	X				This measure is used for ANA Magnet Hospital designation	
Number of voluntary uncontrolled separations during the month for RNs, advanced practice nurses, LPNs, and nurse assistants/aides	CMS	X					
Participation in a Systematic Database for Cardiac Surgery	Society of Thoracic Surgeons	X		Potentiall y planned for future	X	WellPoint/Anthem uses this measure in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Surgical Volume - a. Isolated Coronary Artery Bypass Graft (CABG) Surgery, b. Valve	CMS	X					

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Surgery, c. CABG+Valve Surgery							
Implementation of rapid response teams	Institute for Healthcare Improvement				X	WellPoint/Anthem uses this measure in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
PROCESS							
Surgical infection prevention antibiotic given 1 hour prior to surgery	CMS/Joint Commission	X	X (hip, knee colon)	X	X	MHCC Hospital Guide expanding to all procedures 2008/2009. Measure in the initial QBR Initiative set, and CMS recommended hospital VBP set.	
Surgical infection prevention antibiotic selection	CMS/Joint Commission	X	X (hip, knee colon)	X	X	MHCC Hospital Guide expanding to all procedures 2008/2009. Measure in the initial QBR Initiative set. Measure NOT recommended by CMS for hospital VBP. CMS/Premier Demonstration uses this measure for hip, knee and CABG procedures.	
Surgical infection prevention antibiotic discontinuance	CMS/Joint Commission	X	X (hip, knee colon)	X	X	MHCC Hospital Guide expanding to all procedures 2008/2009. Measure in the initial QBR Initiative set, and CMS recommended hospital VBP set. CMS/Premier Demonstration uses this measure for hip, knee and CABG patients.	
CABG-Anti-Platelet Medication at Discharge	Society of Thoracic Surgeons	X	Potentially planned for future		X	CMS/Premier Demonstration uses this measure.	
CABG-Beta Blockade at Discharge	Society of Thoracic Surgeons	X	Potentially planned for future				
CABG- Anti-Lipid Treatment Discharge	Society of Thoracic	X	Potentially planned for				

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	Surgeons		future				
Percentage of patients undergoing CABG with documented pre-operative beta blockade who had a coronary artery bypass graft	Society of Thoracic Surgeons	X	Potentially planned for future				
Coronary artery bypass graft (CABG) using internal mammary artery	CMS	X	Potentially planned for future		X	CMS/Premier Demonstration uses this measure.	
Use of relievers for inpatient asthma	Joint Commission	X	Planned for future	X		To be added to Hospital Compare July 2008 but not selected for payment.	
Use of systemic corticosteroids for inpatient asthma	Joint Commission	X	Planned for future	X		To be added to Hospital Compare July 2008 but not selected for payment.	
Home management plan of care given to pediatric asthma inpatient or caregiver	Joint Commission	X		X		To be added to Hospital Compare with date to be designated; not selected for payment.	
Acute myocardial infarction (AMI) patients receiving percutaneous coronary intervention (PCI) during the hospital stay with a time from hospital arrival to PCI of: <ul style="list-style-type: none"> • 90 minutes • 120 minutes 	CMS	X		X	X	90 minute measure is used in Medicare pay for reporting starting in 2007. 120 minute measure is recommend by CMS to Congress in hospital VBP Program.	
Acute myocardial infarction (AMI) patients receiving percutaneous coronary intervention (PCI) during the hospital stay with a time from hospital arrival to PCI of 120 minutes or less.	Maryland STEMI Registry		Planned for future				
Acute myocardial infarction (AMI) patients receiving fibrinolytic therapy during the hospital stay and having a time from hospital arrival to fibrinolysis of 30 minutes or less.	CMS	X		X	X	Used in Medicare pay for reporting starting in 2007.	
Post- breast conserving surgery irradiation	National Cancer Institute	X					
Adjuvant chemotherapy is considered or administered following breast cancer surgery	National Cancer Institute	X					
Adjuvant hormonal therapy following breast cancer surgery	National Cancer Institute	X					
Use of College of American Pathologists Breast Cancer Protocol	National Cancer Institute	X					
Adjuvant chemotherapy after colon cancer surgery	National Cancer Institute	X					
Completeness of pathology reporting for colon cancer	National Cancer Institute	X					

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Use of College of American Pathologists Colon Cancer Protocol	National Cancer Institute	X					
Percentage of surgery patients on beta blocker therapy prior to admission who received a beta blocker during the perioperative period	Joint Commission	X		X proposed	X	Proposed for use in Medicare pay for reporting starting FFY 2009.	
Percentage of intensive care patients with central lines for whom all elements of the central line bundle are documented and in place. The central line bundle elements include: •Hand hygiene , •Maximal barrier precautions upon insertion •Chlorhexidin	Institute for Healthcare Improvement	X					
Surgery patients with controlled 6a.m. serum glucose (</=200 mg/dl) on postoperative day (POD) 1 and POD 2	Joint Commission	X					
Percentage of surgery patients with surgical hair site removal with clippers or depilatory or no surgical site hair removal	Joint Commission	X		X	X	Proposed for use in Medicare pay for reporting starting FFY 2009.	
Percentage of intensive care unit patients on mechanical ventilation at time of survey for whom all elements of the ventilator bundle are documented and in place.	Joint Commission, Institute for Healthcare Improvement	X	Potentially planned for future				
Cardiac patients with controlled 6AM postoperative serum glucose	Joint Commission	X		X	X	Proposed for use in Medicare pay for reporting starting FFY 2009.	
Colorectal patients with immediate postoperative normothermia	CMS			X	X	Proposed for use in Medicare pay for reporting starting FFY 2009	
Periodic clinical review of unplanned readmissions to the PICU that occurred within 24 hours of discharge or transfer from the PICU.	National Association of Children's Hospitals and Related Institutions	X					
Percent of surgical and medical discharges under 18 years with ICD-9-CM code for decubitus ulcer in secondary diagnosis field.	Agency for Healthcare Research and Quality	X					
Documentation exists that the Home Management Plan of Care (HMPC) as a separate document, specific to the patient,	Joint Commission	X					

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was given to the patient/caregiver, prior to or upon discharge.	Resources, Inc.						
Percentage of PICU patients receiving: a. Pain assessment on admission, b. Periodic pain assessment.	National Association of Children's Hospitals and Related Institutions	X					
Percent of discharges with heart catheterizations in any procedure field with simultaneous right and left heart (bilateral) heart catheterizations.	Agency for Healthcare Research and Quality (AHRQ)	X					
Surgery Patients with Recommended Venous Thromboembolism (VTE) Prophylaxis Ordered	CMS	X	Planned 2009	X	X	Used in Medicare pay for reporting starting in 2007.	
Surgery Patients Who Received Appropriate Venous Thromboembolism (VTE) Prophylaxis Within 24 Hours Prior to Surgery to 24 Hours After Surgery End Time	CMS	X	Planned 2009	X	X	Used in Medicare pay for reporting starting in 2007.	
The number of patients that receive VTE prophylaxis or have documentation why no VTE prophylaxis was given within 24 hours of hospital admission or surgery end time.	Joint Commission	X					
The number of patients that receive VTE prophylaxis or have documentation why no VTE prophylaxis was given within 24 hours after the initial admission (or transfer) to the Intensive Care Unit (ICU) or surgery end time.	Joint Commission	X					
VTE Patients with Overlap of Anticoagulation Therapy	Joint Commission	X					
The number of patients receiving intravenous (IV) UFH therapy with documentation that the dosages and platelet counts are monitored by protocol (or nomogram).	Joint Commission	X					
The number of VTE patients that are discharged home, home care, or home hospice on warfarin with written discharge instructions that addresses all four criteria; Follow-up Monitoring, Compliance Issues, Dietary Restrictions, Potentia	Joint Commission	X					
The number of patients that were diagnosed with VTE during hospitalization (not present at admission) that did not receive VTE prophylaxis.	Joint Commission	X					
Healthcare worker flu vaccination	CDC	See	Fall 08 for			MHCC requires that all	

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		NQF Safe Practice under Structure	data collection			Maryland hospitals use the CDC's NHSN for data collection and reporting. NQF has endorsed safe practice supporting patient and healthcare worker influenza vaccination (see above in the table under "Structure".	
Compliance with MRSA screening for ICU patients	CDC		Fall 08 for data collection			MHCC requires that all Maryland hospitals use the CDC's NHSN for data collection and reporting	
OUTPATIENT AND EMERGENCY DEPARTMENT PROCESS MEASURES							
Emergency Department ⁴ -acute myocardial infarction (AMI) patients or chest pain patients (with Probable Cardiac Chest Pain) without aspirin contraindications who received aspirin within 24 hours before ED arrival or prior to transfer.	CMS	X	Potentially planned for future	Potentiall y planned for future			
Median time from emergency department arrival to administration of fibrinolytic therapy in ED patients with ST-segment elevation or left bundle branch block (LBBB) on the electrocardiogram (ECG) performed closest to ED arrival and prior to transfer.	CMS	X	Potentially planned for future	Potentiall y planned for future			
Emergency Department acute myocardial infarction (AMI) patients receiving fibrinolytic therapy during the ED stay and having a time from ED arrival to fibrinolysis of 30 minutes or less.	CMS	X	Potentially planned for future	Potentiall y planned for future			
Median time from emergency department arrival to ECG (performed in the ED prior to transfer) for acute myocardial infarction (AMI) or Chest Pain patients (with probable cardiac chest pain).	CMS	X	Potentially planned for future	Potentiall y planned for future			
Median time from emergency department arrival to time of transfer to another facility for acute coronary intervention	CMS	X	Potentially planned for future	Potentiall y planned for future			
Outpatient Surgery- Timing of antibiotic prophylaxis	CMS		Potentially planned for	Potentiall y planned			

⁴ In early 2008, the Maryland Health Care Commission prepared a report, *Use of Maryland Hospital Emergency Departments: An Update and Recommended Strategies to Address Crowding*, at the request of the Maryland General Assembly. Two of recommendations included in this report address the need to strengthen the data available to assist in understanding the underlying reasons for ED crowding. To study and recommend standardized measures of ED utilization and patient flow, the Commission has established an Emergency Department Performance Measures Technical Advisory Committee.

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
			future	for future			
Outpatient Surgery- Selection of prophylactic antibiotic	CMS		Potentially planned for future	Potentiall y planned for future			
ED- Percentage of patients transferred to another acute hospitals whose medical record documentation indicated that administrative information was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute hospitals whose medical record documentation indicated that the entire vital signs record was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute hospitals whose medical record documentation indicated that medication information was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute hospitals whose medical record documentation indicated that patient information was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute hospitals whose medical record documentation indicated that physician information was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute care hospital whose medical record documentation indicated that nursing information was communicated to the receiving hospital within 60 minutes of departure	University of Minnesota Rural Health Research Center	X					
ED- Percentage of patients transferred to another acute care hospital whose medical record documentation indicated that	University of Minnesota	X					

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
procedure and test information was communicated to the receiving hospital within 60 minutes of departure	Rural Health Research Center						
ECG Performed for Syncope	OK Foundation for Medical Quality		Potentially planned for future				
ECG Performed for Non-Traumatic Chest Pain	OK Foundation for Medical Quality		Potentially planned for future				
Patient Left Before Seen	OK Foundation for Medical Quality		Potentially planned for future				
Median Time to Pain Management for Long Bone Fracture	OK Foundation for Medical Quality		Potentially planned for future				
Admit Decision Time to ED Departure Time for Admitted Patients	OK Foundation for Medical Quality		Potentially planned for future				
Time from ED Arrival to ED Departure for Discharged ED Patients	OK Foundation for Medical Quality		Potentially planned for future				
Median time from initial chest x-ray order to time chest x-ray exam is completed.	OK Foundation for Medical Quality		Potentially planned for future				
Median Time from Head CT Scan Order to Head CT Scan Interpretation	OK Foundation for Medical Quality		Potentially planned for future				
Median time from initial complete blood count (CBC) order to time CBC results are reported to emergency department staff.	OK Foundation for Medical Quality		Potentially planned for future				
Median time from initial electrolyte or basic metabolic profile (BMP) order to time electrolyte results or BMP are reported to emergency department staff.	OK Foundation for Medical Quality		Potentially planned for future				
Median time from initial troponin order to time troponin results are reported to emergency department staff.	OK Foundation for Medical Quality		Potentially planned for future				

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
						HIPSM).	
Risk-Adjusted Operative Mortality for Mitral Valve Replacement/Repair (MVR)	Society of Thoracic Surgeons	X	Potentially planned for future			WellPoint/Anthem uses subset of 5 STS CABG outcome measures in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Risk-Adjusted Operative Mortality MVR+CABG Surgery	Society of Thoracic Surgeons	X	Potentially planned for future			WellPoint/Anthem uses subset of 5 STS CABG outcome measures in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Risk-Adjusted Operative Mortality for AVR+CABG	Society of Thoracic Surgeons	X	Potentially planned for future				
Percent of patients undergoing isolated CABG who developed deep sternal wound infection within 30 days post-operatively.	Society of Thoracic Surgeons	X	Potentially planned for future		X	WellPoint/Anthem uses subset of 5 STS CABG outcome measures in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Percent of patients undergoing isolated CABG (without pre-existing neurologic deficit) who develop a post-operative neurologic deficit persisting greater than 72 hours.	Society of Thoracic Surgeons	X	Potentially planned for future			WellPoint/Anthem uses subset of 5 STS CABG outcome measures in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
Prolonged Intubation (ventilation)-Percent of patients undergoing isolated CABG (without pre-existing intubation/tracheostomy) who require intubation for more than 24 hours.	Society of Thoracic Surgeons	X	Potentially planned for future		X	WellPoint/Anthem uses subset of 5 STS CABG outcome measures in their Quality-in-Sights Hospital Incentive Program (Q-HIPSM).	
The number of days between PICU admission and PICU discharge for PICU patients.	National Association of Children's Hospitals and Related Institutions	X					
The total number of patients requiring unscheduled readmission to the ICU within 24 hours of discharge or transfer.	National Association of Children's Hospitals and Related						

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
	Institutions						
Surgical site infection rate	CDC, CMS	X	Planned for future			MHCC may begin reporting on Performance Guide 2009/ 2010	
Late sepsis or meningitis in very low birth weight neonates	Vermont Oxford Network ⁶	X					
Late sepsis in neonates	Vermont Oxford Network	X					
Urinary catheter-associated urinary tract infection for intensive care unit (ICU) patients	CDC	X			X	CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Central line catheter-associated blood stream infection rate for ICU and high-risk nursery(HRN) patients	CDC	X	X		X	Data collection to start 7/1/08 using CDC NHSN data collection tools. CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Surgical site infection rate	CDC, CMS	X	Planned for future		X	MHCC may begin reporting on Performance Guide 2009/ 2010. CMS to begin non-payment for patients with mediastinitis following CABG, a subset of this 'hospital acquired condition" measure, in October 2008.	
Foreign object retained after surgery	CMS					CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Air embolism	CMS					CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Blood incompatibility	CMS					CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Stage III and IV pressure ulcers	CMS					CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Falls and trauma, including: fractures, dislocations , intracranial injuries, crushing Injuries, burns	CMS					CMS to begin non-payment for this 'hospital acquired condition" in October 2008.	
Ventilator-associated pneumonia for ICU and HRN patients	CDC	X					
Falls prevalence	American	X		X	X	Proposed for use in CMS	

⁶ Nationally, approximately 70% of neonatologists participate in the Vermont Oxford database and are already collecting the Vermont Oxford Network measure data elements.

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
	Nurses Assoc			proposed		pay for reporting beginning FFY 2010.	
Death among surgical inpatients with treatable serious complications (failure to rescue)	AHRQ	X		X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010.	
Inpatient Pneumonia Mortality	AHRQ	X					
Decubitus Ulcer- children (PDI 2)	AHRQ	X					
Death among surgical inpatients with treatable serious complications (failure to rescue)	AHRQ	X					
Inpatient Pneumonia Mortality	AHRQ	X					
Pediatric Heart Surgery Mortality (PDI 6)	AHRQ	X					
Pediatric Heart Surgery Volume (PDI 7) (paired with mortality)	AHRQ	X					
Accidental Puncture or Laceration- pediatric (PDI 1)	AHRQ	X					
Accidental Puncture or Laceration- adult (PSI 15)	AHRQ	X					
Iatrogenic Pneumothorax (PSI 6)	AHRQ	X					
Complications of anesthesia (PSI 1)					X	Low volume. Anthem BC uses in pay for reporting, not pay for performance (actual rate)	
Death in Low Mortality DRGs (PSI 2)	AHRQ	X			X	Low volume. Anthem BC uses in pay for reporting, not pay for performance (actual rate)	
Iatrogenic Pneumothorax in Non-Neonates (PDI 5)	AHRQ	X					
Transfusion Reaction (PSI 16)	AHRQ	X					
Abdominal Aortic Aneurysm Volume (AAA) (IQI 4)- paired with mortality measure	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Congestive Heart Failure Mortality (IQI 16)	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Abdominal Aortic Artery (AAA) Repair Mortality Rate (IQI 11)	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Esophageal Resection Mortality Rate (IQI 8)	AHRQ	X				Risk adjusted using AHRQ covariate methodology. Very low volume and small cell sizes.	
Esophageal Resection Volume (IQI 1) (paired with mortality)	AHRQ	X				Risk adjusted using AHRQ covariate methodology. Very low volume and small cell sizes.	
Foreign Body left after procedure- pediatric (PDI 3)	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Foreign Body Left in During Procedure- adult (PSI 5)	AHRQ	X				Rare event.	
Incidental Appendectomy in the Elderly Rate	AHRQ	X				Should be risk adjusted	

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
(IQI 24)						using APR-DRG, age and sex.	
Pancreatic Resection Mortality Rate (IQI 9)	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Pancreatic Resection Volume (IQI 2) (paired with mortality)	AHRQ	X				Risk adjusted using AHRQ covariate methodology.	
Post operative Wound Dehiscence- pediatric (PDI 11)	AHRQ	X					
Post operative Wound Dehiscence- adult (PSI 14)	AHRQ	X					
Post operative hemorrhage or hematoma	AHRQ				X	Risk adjustment is done using the AHRQ methodology. CMS/Premier Demonstration uses this measure for hip, knee and CABG patients.	
Post operative physiologic and metabolic derangement	AHRQ				X	Risk adjustment is done using the AHRQ methodology. CMS/Premier Demonstration uses this measure for hip, knee and CABG patients.	
Pressure ulcer prevalence and incidence by severity	Joint Commission			X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010.	
Pressure ulcer prevalence	California Nursing Outcome Coalition	X					
Falls with injury	American Nurses Association	X		X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010. This measure is used for ANA Magnet Hospital designation	
Restraint prevalence (vest and limb only)	California Nursing Outcome Coalition	X				This measure is used for ANA Magnet Hospital designation	
Proportion admitted to the ICU in the last 30 days of life	National Cancer Institute	X					
Proportion dying in an acute care setting	National Cancer Institute	X					
PICU Standardized Mortality Ratio	National Association of Children's	X					

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
	Hospitals and Related Institutions						
Failure to Rescue In-Hospital Mortality	Children's Hospital of Philadelphia	X					
Failure to Rescue 30-Day Mortality	Children's Hospital of Philadelphia	X					
PCI mortality (risk-adjusted)	ACC/AHA Task Force on Performance Measures	X	Potentially planned for future				
Overall inpatient hospital average length of stay (ALOS) and ALOS by medical service category.	PacifiCare	X					
Overall inpatient 30-day hospital readmission rate.	PacifiCare	X					
Potentially preventable readmission rate	3m					This measure uses the 3m APR-DRG which all Maryland hospitals also use, is risk adjusted, and uses administrative data to calculate.	
Potentially preventable complication rate	3m					This measure uses the 3m APR-DRG which all Maryland hospitals also use, is risk adjusted, and uses administrative data to calculate. Dependent on POA variable.	
Risk-adjusted standardized mortality ratio for dialysis facility patients.	CMS					Reported on Dialysis Facility Compare	
AMI 30 day mortality, Medicare only	CMS	X			X	Used in Medicare pay for reporting starting 2007. CMS recommended to Congress use of this measure in hospital VBP.	
CHF 30 day mortality, Medicare only	CMS	X			X	Used in Medicare pay for reporting starting 2007. CMS recommended to Congress use of this measure in hospital VBP.	
Pneumonia 30-day mortality, Medicare only	CMS	X			X	To be used in Medicare pay	

Categories, Conditions and Measures	Owner/Source	NQF-Endorsed	MD Hospital Performance Guide	Hospital Compare	Used In P-4-P/Reporting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
						for reporting starting 2008.	
AMI 30-day mortality, all payer	?		Planned for future				
CHF 30-day mortality, all payer	?		Planned for future				
Hip and knee 30 day readmission rate for Medicare patients	CMS/Premier				X	Risk adjustment using the 3m APR-DRG methodology. CMS/Premier Demonstration uses this measure.	
Pneumonia 30-day risk standardized readmission rate- Medicare only	CMS			X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010.	
Heart attack 30-day risk standardized readmission rate- Medicare only	CMS			X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010.	
Heart failure 30-day risk standardized readmission rate- Medicare only				X proposed	X	Proposed for use in CMS pay for reporting beginning FFY 2010.	
30-day readmission rates on top 33 major diagnostic categories	MHCC		X				
PATIENT EXPERIENCE							
Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS)- 27 questions, with 18 substantive on 10 domains of care	AHRQ	X	Planned for future.	X	X	Used in Medicare pay for reporting starting in 2007. CMS recommended to Congress use of this measure in hospital VBP.	
3-Item Care Transition Measure (CTM-3)-patients indicate on a scale whether they agree or disagree with the following: <ul style="list-style-type: none"> • The hospital staff took my preferences and those of my family or caregiver into account in deciding what my health care needs would be when I left the hospital. • When I left the hospital, I had a good understanding of the things I was 	Univ of Colorado at Denver & Health Sciences Center	X					

Categories, Conditions and Measures	Owner/ Source	NQF- Endors- ed	MD Hospital Perform- ance Guide	Hospital Compare	Used In P-4-P/ Repor- ting	Additional Notes	EWG Member Rank/ Code 1,2,3,4 or 5
responsible for in managing my health. • When I left the hospital, I clearly understood the purpose for taking each of my medications.							

**Appendix A: Comparison of Maryland QBR Initiative Measures
and Measures Recommended for CMS Hospital Value-Based Purchasing**

Measure Name	Maryland Hospital QBR Initiative	Recommended for CMS Hospital VBP
AMI-1- Aspirin at arrival	X	X
AMI-2- Aspirin prescribed at discharge	X	X
AMI-3- ACE inhibitor (ACE-I) or Angiotensin receptor blocker (ARB) for left ventricular systolic dysfunction	X	X
AMI-4- Adult smoking cessation advice/counseling	X	X
AMI-5- Beta blocker prescribed at discharge	X	X
AMI-6- Beta blocker at arrival	X	
AMI-7a- Fibrinolytic agent received within 30 minutes of hospital arrival		X
AMI-8a- Primary percutaneous coronary intervention (PCI) received within 120 minutes of hospital arrival		X
Pneumonia-2- Pneumococcal vaccination	X	X
Pneumonia- 3a- Blood cultures performed within 24 hrs prior or 24 hrs after hospital arrival for patients admitted to ICU	X	
Pneumonia-3b- Blood cultures performed before first antibiotic	X	X
Pneumonia-4- Adult smoking cessation/advice	X	X
Pneumonia -5b- Patients receive their first dose of antibiotics within 4 hours after arrival to the hospital	X	
Pneumonia 6- Appropriate antibiotic selection		X
Pneumonia-7- Influenza vaccination	X	X
HF-1- Discharge instructions	X	X
HF-2- Left ventricular systolic function assessment	X	
HF-3- ACE inhibitor (ACE-I) or Angiotensin receptor blocker (ARB) for left ventricular systolic dysfunction	X	X
HF-4- Adult smoking cessation advice /counseling	X	X
SIP-1- Prophylactic antibiotic received within 1 hour prior to incision	X	X
SCIP-2- Prophylactic antibiotic selection for surgical patients	X	
SCIP-3- Prophylactic antibiotic discontinued within 24 hrs post surgery (48 hours for CABG procedures)	X	X
AMI- 30-day mortality measures (Medicare only)		X
HF- 30-day mortality measures (Medicare only)		X
Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS)		X

Appendix B: Future Implementation Timeline and Future Proposed Measures for the Maryland Hospital Performance Evaluation Guide

Table 1
Maryland Hospital Performance Evaluation Guide
 Phasing of Updates and New Data, Fiscal Years 2009-2010

Category	Fiscal Year 2009				Fiscal Year 2010			
	Jul-Sep 2008	Oct-Dec 2008	Jan-Mar 2009	Apr-Jun 2009	Jul-Sep 2009	Oct-Dec 2009	Jan-Mar 2010	Apr-Jun 2010
Hospital Profile:								
Update licensed bed data								
Update accreditation/teaching status								
<i>Expand hospital profile to include:</i>								
•Review and Update Maternity and Newborn Facilities and Services Profile								
•ED Services								
•Specialized services (OHS, PCI, Organ Transplant, Trauma)								
•Adoption and Use of Health Information Technology								
Medical Conditions, Risk-Adjusted LOS and Readmission Rates:								
Review methodology, ranking system, and preview reports								
Update medical conditions data								
Hospital Price Guide:								
HSCRC/MHA review of methodology (consider adding outpatient services)								
Update Price Guide								
Hospital Consumer Assessment of Healthcare Providers and Systems Survey:								
Add HCAHPS measures								
Hospital Quality Measures:								
• Maternity and Newborn								
Add perinatal quality measures								
• Cardiology								
Update AMI Measures (AMI 1-AMI-6)								
Update Heart Failure Measure (HF 1-HF4)								
Add AMI and Heart Failure Mortality Measures								
Add primary and elective PCI process and outcome measures								
• Pneumonia								
Update PN-1, PN-2, PN-3b, PN-4, PN5b								
Add PN-6 and PN-7								
Add Pneumonia Mortality Measures								
• Health-Care Associated Infections								
Update SCIP-Inf-1 and 3; Expand to include SCIP-Inf-2 (Hip, Knee and Colon Surgery)								
Expand SCIP-INF-1, 2, and 3 to include all surgical cases								
Add Central Line-associated Blood Stream Infections								
Add Healthcare Worker Influenza Vaccination								
Add Compliance with Active Surveillance Testing for MRSA								
Add Surgical Site Infections								
• Surgery								
Add SCIP -VTE-1 and 2								
Add cardiac surgery process and outcome measures								
• Outpatient Services								
Develop "starter" set of emergency department performance measures								
Add Outpatient Measures								
• Pediatric Asthma								
Add Pediatric Asthma Measures								
Annual Report on Quality Measures								
•Quality Measure Review								

New Data
 Update
 Development Period
 Report

Draft 06/23/08
 For Review and Discussion by the HPEG Advisory Committee

Table 2: Maryland Hospital Performance Evaluation System: Quality Measures Currently Reported and Planned for Implementation

Quality Measure Domain	Description	Measures Currently Reported	2009	2010
Acute Myocardial Infarction (AMI)	Aspirin at arrival (AMI-1)	✓	✓	✓
	Aspirin prescribed at discharge (AMI-2)	✓	✓	✓
	ACE inhibitor (ACE-I) or Angiotensin Receptor Blocker (ARBs) for left ventricular systolic dysfunction (AMI-3)	✓	✓	✓
	Adult smoking cessation advice/counseling (AMI-4)	✓	✓	✓
	Beta blocker prescribed at discharge AMI-5)	✓	✓	✓
	Beta blocker at arrival (AMI-6)	✓	✓	✓
	30-day AMI mortality		✓	✓
Heart Failure (HF)	Discharge instructions (HF-1)	✓	✓	✓
	Left ventricular function assessment (HF-2)	✓	✓	✓
	ACE inhibitor (ACE-I) or Angiotensin Receptor Blocker (ARBs) for left ventricular systolic dysfunction (HF-3)	✓	✓	✓
	Adult smoking cessation advice/counseling (HF-4)	✓	✓	✓
	30-day HF mortality		✓	✓
Pneumonia (PN)	Oxygenation assessment (PN-1)	✓	✓	✓
	Pneumococcal vaccination status (PN-2)	✓	✓	✓
	Blood culture performed in emergency department before first antibiotic received in hospital (PN-3b)	✓	✓	✓
	Adult smoking cessation advice/counseling (PN-4)	✓	✓	✓
	Initial antibiotic received within 4 hours of hospital arrival (PN-5b)	✓	✓	✓
	Appropriate initial antibiotic selection (PN-6)		✓	✓
	Influenza vaccination status (PN-7)		✓	✓
	30-day Pneumonia mortality		✓	✓
Surgical Care Improvement Project (SCIP)	Prophylactic antibiotic received within 1 hour prior to surgical incision (knee, hip, colon surgeries only) (SCIP-Inf-1)	✓	<i>Expand to all surgery</i>	✓
	Prophylactic antibiotic selection for surgical patients (SCIP-Inf-2)	✓	<i>Expand to all surgery</i>	✓
	Prophylactic antibiotics discontinued within 24 hours after surgery end time (knee, hip, colon surgeries only) (SCIP-Inf-3)	✓	<i>Expand to all surgery</i>	✓
	Cardiac Surgery w/controlled 6a.m. postoperative serum		✓	✓

Quality Measure Domain	Description	Measures Currently Reported	2009	2010
	glucose (SCIP-Inf-4)			
	Surgery patients w/appropriate hair removal (SCIP-Inf-6)		✓	✓
	Surgery patients with recommended venous thromboembolism prophylaxis ordered (SCIP-VTE-1)		✓	✓
	Surgery patients with recommended venous thromboembolism prophylaxis received within 24 hours prior to or after surgery (SCIP-VTE-2)		✓	✓
Healthcare-Associated Infections (HAI)	Central Line-Associated Blood Stream Infections		✓	✓
	Healthcare Worker Influenza Vaccination		✓	✓
	Compliance with Active Surveillance Testing for MRSA		✓	✓
	Selected Surgical Site Infections		✓	✓
	Ventilator-Associated Pneumonia Bundle Compliance			✓
Hospital Outpatient Services	ED Performance Measures			✓
	AMI (OP-1,2 and 3)			✓
	Chest Pain (OP-4,5)			✓
	Surgery (OP-6, 7)			✓
Maternity Care	VBAC (PR-1)			✓
	Inpatient Neonatal Mortality (PR-2)			✓
	Third or Fourth Degree Laceration (PR-3)			✓
Pediatric Asthma Care	Use of Relievers for Inpatient Asthma Care			✓
	Use of Systemic Corticosteroids for Inpatient Asthma Care			✓

APPENDIX C: Proposed Measures for the CMS Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) “Pay for Reporting” Initiative in Fiscal Year 2009 For 2010 UE⁷

BACKGROUND:

The Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) initiative was mandated by Section 501(b) of the Medicare Prescription Drug, Improvement and Modernization Act (MMA) of 2003. This section of the MMA strengthened Medicare’s voluntary hospital quality reporting program by requiring CMS to pay hospitals that participate successfully in reporting designated quality measures a higher annual update to their payment rates.. Initially, the MMA provided for a 0.4 percentage point reduction from the annual market basket (the measure of inflation in costs of goods and services used by hospitals in treating Medicare patients) update for those hospitals that did not report. The Deficit Reduction Act of 2005 increased that to market basket minus 2.0 percentage points.

In addition to giving hospitals a financial incentive to improve the quality of their services, the hospital reporting initiative provides CMS with data to help consumers make more informed decisions about their health care. The hospital quality of care information gathered through the initiative is available to consumers on the Hospital Compare website at: www.hospitalcompare.hhs.gov.

In FY 2007, nearly 95 percent of hospitals participated successfully in the reporting program and received the full market basket update for FY 2008.

PROPOSED NEW MEASURES FOR REPORTING FOR FY 2010 UPDATE

CMS is proposing to add 43 new measures for the FY 2009 reporting period, and to retire one existing measure. However, for some of the new measures, the hospitals will not have to affirmatively report data to CMS. Instead, CMS will calculate them from administrative data. If the proposals are adopted, the total number of measures for reporting for FY 2010 would be 72.

Measuring and reporting on these additional measures will encourage hospitals to take steps to make care safer for patients. The new stroke and cardiac surgery measures, in particular, should help to increase the chances that patients receive all necessary stroke and cardiac care. In addition, the agency is seeking comment on measuring re-admissions for three conditions. Re-admissions have a significant impact on beneficiaries and their families and according to MedPAC cost the program \$15 billion annually, with \$12 billion of those costs potentially preventable. Almost 18 percent of Medicare patients are re-admitted within 30 days of discharge, leading to the potential for other adverse consequences for the patient and significant worry for their families. CMS believes that reporting these measures will encourage better coordination both during the inpatient stay and at discharge to post acute settings.

The proposed new measures are:

A. Surgical Care Improvement Project (SCIP) Measure (1):

- SCIP Cardiovascular 2, surgery patients on a beta blocker prior to arrival who received a beta blocker during the perioperative period

⁷ Available at: <http://www.cms.hhs.gov/apps/media/press/factsheet.asp?Counter=3044>. Last accessed: June 27, 2008

B. Re-admission Measures (3):

- Pneumonia (PN) 30 - day risk standardized re-admission measure (Medicare patients)
- Heart attack (AMI) 30 - day risk standardized re-admission measure (Medicare patients)
- Heart failure (HF) 30 - day risk standardized re-admission measure (Medicare patients)

C. Nursing Sensitive Measure (4):

- Failure to rescue
- Pressure ulcer prevalence and incidence by severity
- Patient falls prevalence
- Patient falls with injury

D. AHRQ Patient Safety and Inpatient Quality Indicator Measures (9):

Patient Safety Indicators (PSIs)

- PSI 4-Death among surgical patients with treatable serious complications
- PSI 6-Iatrogenic pneumothorax, adult
- PSI 14-Postoperative wound dehiscence
- PSI 15-Accidental puncture or laceration

Inpatient Quality Indicators (IQIs)

- IQI 4 - Abdominal aortic aneurysm (AAA) mortality rate (with volume)
- IQI 11- AAA mortality rate (without volume)
- IQI 19-Hip fracture mortality rate
- IQI - Mortality for selected medical conditions (composite)
- IQI - Mortality for selected surgical procedures (composite)
- IQI - Complication/patient safety for selected indicators (composite)

E. Venous Thromboembolism Measures (VTEs):

- VTE-1: VTE prophylaxis
- VTE-2: VTE prophylaxis in the ICU
- VTE-4: Patients with overlap in anticoagulation therapy
- VTE-5/6: (as combined measure) patients with UFH dosages who have platelet count monitoring and adjustment of medication per protocol or nomogram
- VTE-7: Discharge instructions to address: follow-up monitoring, compliance, dietary restrictions, adverse drug reactions/interactions
- VTE-8: Incidence of preventable VTE

F. Stroke Measures (STK)

- STK-1 DVT prophylaxis
- STK-2 Discharged on antithrombotic therapy
- STK-3 Patients with atrial fibrillation receiving anticoagulation therapy
- STK-5 Antithrombotic medication by end of hospital day two
- STK-7 Dysphasia screening

G. Cardiac Surgery Measures

- Participation in a systematic database for cardiac surgery
- Pre-operative beta blockade
- Prolonged intubation
- Deep sternal wound infection rate
- Stroke/CVA

- Post-operative renal insufficiency
- Surgical re-exploration
- Anti-platelet medication at discharge
- Beta blockade therapy at discharge
- Anti-lipid treatment at discharge
- Risk-adjusted operative mortality for CABG
- Risk-Adjusted Operative Mortality for Aortic Valve Replacement
- Risk-adjusted operative mortality for mitral valve replacement/repair
- Risk-adjusted mortality for mitral valve replacement and CABG surgery
- Risk-adjusted mortality for aortic valve replacement and CABG surgery

MEASURES ADOPTED FOR REPORTING FOR PREVIOUS UPDATES

- **Heart Attack (Acute Myocardial Infarction)**
 - Aspirin at arrival ^{1/}
 - Aspirin prescribed at discharge ^{1/}
 - ACE inhibitor (ACE-I) or Angiotensin Receptor Blocker (ARBs) for left ventricular systolic dysfunction ^{1/}
 - Beta blocker at arrival ^{1/}
 - Beta blocker prescribed at discharge ^{1/}
 - Thrombolytic agent received within 30 minutes of hospital arrival ^{2/}
 - Percutaneous Coronary Intervention (PCI) received within 120 minutes of hospital arrival ^{2/, 5/}
 - Adult smoking cessation advice/counseling ^{2/}
- **Heart Failure (HF)**
 - Left ventricular function assessment ^{1/}
 - ACE inhibitor (ACE-I) or Angiotensin Receptor Blocker (ARBs) for left ventricular systolic dysfunction ^{1/}
 - Discharge instructions ^{2/}
 - Adult smoking cessation advice/counseling ^{2/}
- **Pneumonia (PNE)**
 - Initial antibiotic received within 4 hours of hospital arrival ^{1/, 6/}
 - Oxygenation assessment ^{1/, 7/}
 - Pneumococcal vaccination status ^{1/}
 - Blood culture performed before first antibiotic received in hospital ^{2/}
 - Adult smoking cessation advice/counseling ^{2/}
 - Appropriate initial antibiotic selection ^{2/}
 - Influenza vaccination status ^{2/}
- **Surgical Care Improvement Project (SCIP) – (Previously SIP)**
 - Prophylactic antibiotic received within 1 hour prior to surgical incision ^{2/}
 - Prophylactic antibiotics discontinued within 24 hours after surgery end time ^{2/}
 - SCIP-VTE 1: Venous thromboembolism (VTE) prophylaxis ordered for surgery patient ^{3/}
 - SCIP-VTE 2: VTE prophylaxis within 24 hours pre/post surgery ^{3/}
 - SCIP Infection 2: Prophylactic antibiotic selection for surgical patients ^{3/}
 - SCIP Infection 4: Cardiac Surgery Patients with Controlled 6AM Postoperative Serum Glucose ^{4/}
 - SCIP Infection 6: Surgery Patients with Appropriate Hair Removal ^{4/}
- **Mortality Measures**
 - Acute Myocardial Infarction 30-day mortality (Medicare patients) ^{3/}
 - Heart Failure 30-day mortality (Medicare patients) ^{3/}

- Pneumonia 30-day mortality (Medicare patients) ^{4/}

Patients' Experience of Care

- HCAHPS Patient Survey ^{3/}

^{1/} Measure included in 10 measure starter set

^{2/} Measure included in 21 measure expanded set for FY 2007

^{3/} Measure included in 27 measure expanded set for FY 2008

^{4/} Measure included in 30 measure expanded set for FY 2009

^{5/} Measure title proposed to be replaced for FY 2009 with Timing of Receipt of Primary Percutaneous Coronary Intervention (PCI)

^{6/} Measure title proposed to be replaced for FY 2009 with Timing of receipt of initial antibiotic following hospital arrival

^{7/} Measure proposed to be deleted for FY 2009 starting with January 1, 2009 discharges

CMS will respond to comments to the above in a final rule to be issued on or before August 1, 2008.

Appendix D: Proposed Measures for the CMS Reporting Hospital Quality Data for Annual Payment Update (RHQDAPU) “Pay for Reporting” Initiative 2011 and Subsequent Years

POSSIBLE MEASURES AND MEASURE SETS FOR THE RHQDAPU PROGRAM FOR FY 2011 AND SUBSEQUENT YEARS

Topic	Quality measure
Chronic Pulmonary Obstructive Disease Measures: Complications of Vascular Surgery	AAA stratified by open and endovascular methods. Carotid Endarterectomy. Lower extremity bypass.
Inpatient Diabetes Care Measures: Healthcare Associated Infection	Central Line-Associated Blood Stream Infections.
Timeliness of Emergency Care Measures, including Timeliness	Surgical Site Infections. Median Time from ED Arrival to ED Departure for Admitted ED Patients. Median Time from ED Arrival to ED Departure for Discharged ED Patients. Admit Decision Time to ED Departure Time for Admitted Patients.
Surgical Care Improvement Project (SCIP)—named SIP for discharges prior to July 2006 (3Q06).	SCIP Infection 8—Short Half-life Prophylactic Administered Pre-operatively Redosed Within 4 Hours After Preoperative Dose. SCIP Cardiovascular 3—Surgery Patients on a Beta Blocker Prior to Arrival Receiving a Beta Blocker on Postoperative Days 1 and 2.
Complication Measures (Medicare patients): Healthcare Acquired Conditions	Serious reportable events in healthcare (never events). Pressure ulcer prevalence and incidence by severity. Catheter-associated UTI.
Hospital Inpatient Cancer Care Measures	Patients with early stage breast cancer who have evaluation of the axilla. College of American Pathologists breast cancer protocol. Surgical resection includes at least 12 nodes. College of American Pathologists Colon and rectum protocol. Completeness of pathologic reporting.
Serious Reportable Events in Healthcare (“Never Events”)	Surgery performed on the wrong body part. Surgery performed on the wrong patient. Wrong surgical procedure on a patient. Retention of a foreign object in a patient after surgery or other procedure. Intraoperative or immediately post-operative death in a normal health patient (defined as a Class 1 patient for purposes of the American Society of Anesthesiologists patient safety initiative). Patient death or serious disability associated with the use of contaminated drugs, devices, or biologics provided by the healthcare facility. Patient death or serious disability associated with the use or function of a device in patient care in which the device is used or functions other than as intended. Patient death or serious disability associated with intravascular air embolism that occurs while being cared for in a healthcare facility. Patient death or serious disability associated with patient elopement (disappearance) for more than four hours. Patient suicide, or attempted suicide resulting in serious disability, while being cared for in a healthcare facility. Patient death or serious disability associated with a medication error (e.g., error involving the wrong drug, wrong dose, wrong patient, wrong time, wrong rate, wrong preparation, or wrong route of administration). Patient death or serious disability associated with a hemolytic reaction due to the administration of ABO-incompatible blood or blood products.

POSSIBLE MEASURES AND MEASURE SETS FOR THE RHQDAPU PROGRAM FOR FY 2011 AND SUBSEQUENT YEARS—
Continued

Topic	Quality measure
	<p>Patient death or serious disability associated with hypoglycemia, the onset of which occurs while the patient is being cared for in a health care facility.</p> <p>Stage 3 or 4 pressure ulcers acquired after admission to a health care facility.</p> <p>Patient death or serious disability due to spinal manipulative therapy.</p> <p>Patient death or serious disability associated with an electric shock while being cared for in a healthcare facility.</p> <p>Any incident in which a line designated for oxygen or other gas to be delivered to a patient contains the wrong gas or is contaminated by toxic substances.</p> <p>Patient death or serious disability associated with a burn incurred from any source while being cared for in a health care facility.</p> <p>Patient death associated with a fall while being cared for in a health care facility.</p> <p>Patient death or serious disability associated with the use of restraints or bedrails while being cared for in a health care facility.</p> <p>Any instance of care ordered by or provided by someone impersonating a physician, nurse, pharmacist, or other licensed health care provider.</p> <p>Abduction of a patient of any age.</p> <p>Sexual assault on a patient within or on the grounds of a health care facility.</p> <p>Death or significant injury of a patient or staff member resulting from a physical assault (i.e., battery) that occurs within or on the grounds of a health care facility.</p>
<p>Average Length of Stay Coupled with Global Readmission Measure: Preventable Hospital-Acquired Conditions (HACs)</p>	<p>Catheter-Associated Urinary Tract Infection (UTI).</p> <p>Vascular Catheter-Associated Infection.</p> <p>Surgical Site Infections—Mediastinitis after Coronary Artery Bypass Graft (CABG).</p> <p>Surgical Site Infections following Elective Procedures—Total Knee Replacement, Laparoscopic Gastric Bypass, Ligation and Stripping of Varicose Veins.</p> <p>Legionnaires' Disease.</p> <p>Glycemic Control—Diabetic Ketoacidosis, Nonketotic Hypersmolar Coma, Hypoglycemic Coma.</p> <p>Iatrogenic pneumothorax.</p> <p>Delirium.</p> <p>Ventilator-Associated Pneumonia (VAP).</p> <p>Deep Vein Thrombosis (DVT)/Pulmonary Embolism (PE).</p> <p>Staphylococcus aureus Septicemia.</p> <p>Clostridium-Difficile Associated Disease (CDAD).</p> <p>Methicillin-Resistant Staphylococcus aureus (MRSA).</p>