



New All-Payer Model for Maryland Performance Measurement Workgroup Meeting 2/28/2014

Draft MHAC Methodology and Policy Changes

Presentation Contents

- ▶ Background Overview and Guiding Principles
- ▶ Proposed Measurement Methodology Modifications
- ▶ Translating Performance into Payment
- ▶ Next Steps

Overview and Guiding Principles



Current MHAC Policy Overview

- ▶ Implemented in 2009 with performance-based payment adjustments effective in FY 2011
- ▶ Use of 3M Proprietary Software: Potentially Preventable Complications (PPC)
- ▶ PPCs selected for the program based on significance of the cost when they occur (~50 out of 65 meet this criteria from year to year)
- ▶ For attainment, hospitals' results are determined based on the sum of the revenue expended or saved for the actual over the expected PPC cases in each PPC group selected for the program; expected values are determined based on policy-established best practice standard
- ▶ For improvement, hospitals' scores are determined based on improvement over their own performance from the previous year on five PPCs
- ▶ Hospital performance scores are translated into payment at the end of a performance year by placing hospitals in relative positions on a revenue neutral scale (2% at risk allocated for worst performers on attainment scale and 1% for improvement scale)

Guiding Principles for Meeting All-Payer Model Goals for MHAC Program

- ▶ Need to achieve the new All-payer model goal: 30% reduction in all 65 PPCs
 - ▶ CY 2013 base period
 - ▶ Measurement period began January 2014
 - ▶ 30% Cumulative reduction by 2018
- ▶ Breadth and impact of the program must meet or exceed Medicare national program
 - ▶ Measures
 - ▶ Revenue at risk
- ▶ Program must improve care for all patients, regardless of payer
- ▶ Program should prioritize high volume, high cost, opportunity for improvement and areas of national focus

Additional Guiding Principles- HSCRC in Agreement with MHA Proposal

- ▶ Predetermined performance targets and financial impact
- ▶ Encourage cooperation and sharing of best practices
- ▶ Hold harmless for lack of improvement if attainment is highly favorable
- ▶ Ability to track progress

Proposed Measurement Methodology Modifications



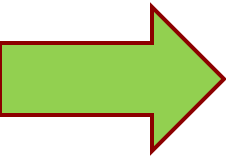
Components of Redesign- HSCRC in Agreement with MHA Proposal

- ▶ **Measurement Methodology**
 - ▶ All 65 PPCs
 - ▶ Weighting select PPCs for focus
 - ▶ Design and calculation of “MHAC Score”
 - ▶ Establish thresholds and benchmarks
 - ▶ Better of attainment or improvement score

MHAC Score Design Options- HSCRC in Agreement with MHA Proposal

Measure definition new Model Goal metric

	Definition	Risk Adj	Vol Adj
Total # MHACs	# Actual MHACs	N	N
Unadjusted MHAC Rate	# Actual ÷ At Risk Cases	N	Y
O/E Ratio	# Actual ÷ # Expected	Y	Y



Observed to Expected Ratio
Lower numbers are more favorable

Prioritize a Targeted PPC List- HSCRC in Agreement with MHA Proposal

- 20 PPCs
- High volume, high cost, and opportunity for improvement and national focus
- Heavier weight than non-target PPCs

Since target PPCs are those with high cost and high volume statewide, reducing these will contribute more to the overall model goal.

MHAC/PPC Tiers- HSCRC in Agreement with MHA Proposal for Most Part

- Three 'tiers' of MHACs/PPCs
 - Tier A – Target list of 20 PPCs – highest weight
 - Tier B – PPCs not on target list, but have high percentage attributed to Medicare patients (60%) and affect majority of hospitals (> 43)
 - Tier C – All other PPCs, including those with very low volume, affecting low number of hospitals, Obstetric-related PPCs
- Each tier can be weighted differently to put more emphasis on the target PPCs

	Weighting	PPCs	Total Points	FY12 Actual PPCs	FY13 Actual PPCs
Tier A	50%	20	200	23,102	17,451
Tier B	30%	9	54	5,166	4,074
Tier C	20%	36	144	12,259	10,452
	100%	65	398	40,527	31,977

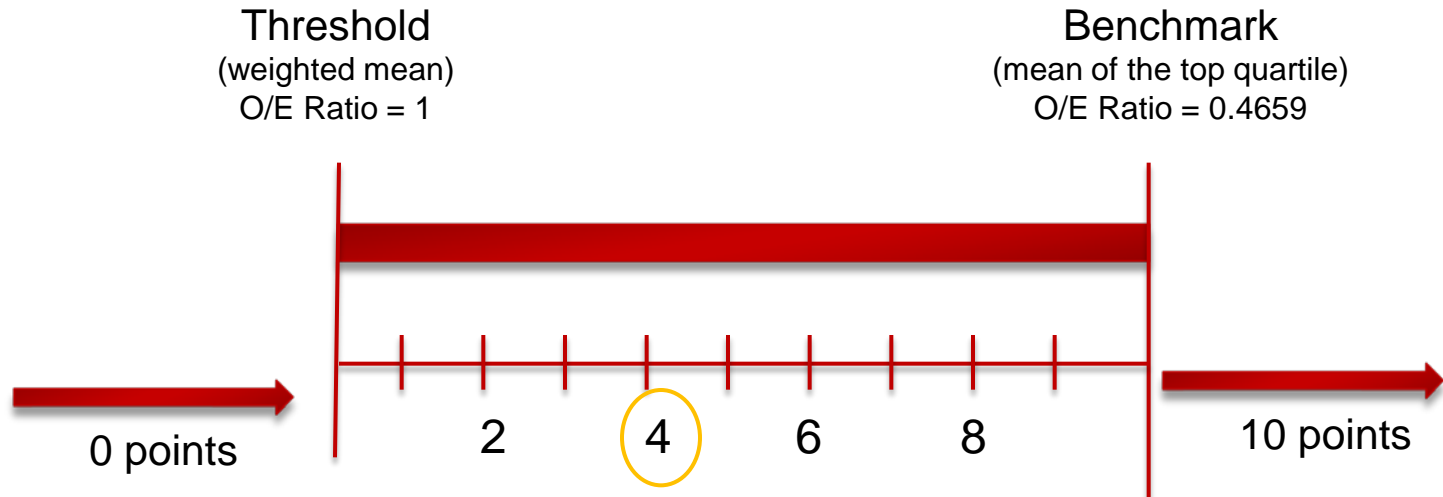
Defining Thresholds and Benchmarks- HSCRC in Agreement with MHA Proposal Options

- Define *Threshold* and *Benchmark* for each measure (PPC)
 - Threshold is minimum performance required to score points
 - median of all hospitals (50th percentile)
 - Mean performance is measured at the hospital level—including small hospitals with expected values less than 1
 - Assumes that case-mix adjusts adequately for all factors affecting a hospital's performance.
 - weighted mean of all O/E ratios (will equal O/E of 1)
 - Mean performance is measured at the case level
 - Inherently includes other factors that affect performance
 - Higher volume hospitals have more influence on PPCs means
 - Benchmark is performance required to score maximum points
 - weighted mean of top quartile O/E ratio
 - HSCRC proposal: For never events the benchmark is zero



Attainment Example- MHA Example

PPC 24 – Renal Failure



Hospital O/E = 0.7012
*Calculates to an attainment
score of 4*

Exclusion Criteria

- ▶ **Existing Exclusions- Case level**
 - ▶ APR-DRG SOI cells with less than 2 total cases
 - ▶ Palliative Care cases
 - ▶ Cases with more than 6 PPCs
- ▶ **Proposed New Exclusions – Hospital Level**
 - ▶ PPCs with total expected cases less than 1
 - ▶ PPCs with less than 10 at risk cases

Other Measurement Issues

Methodology

- Small hospitals must have at least 1 expected and 10 at risk cases for the PPC to be included
- Ongoing discussion with 3M to refine PPC logic
- Defining never events
- Over time, need to define top performance—how high should the benchmark be set? How low can each PPC rate go?

Appendix: MHA Proposed Target PPCs and Tiers



Target PPC List: Top 10 by Volume * Cost

ALL PAYER				
PPC	PPC Description	PPCs Expected	PPCs Actual	PPC Weighted Impact
PPC 4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	1,069.72	1,209	\$ 39,634,647
PPC 65	Urinary Tract Infection without Catheter	2,388.77	2,048	\$ 29,313,024
PPC 14	Ventricular Fibrillation/Cardiac Arrest	1,250.11	1,375	\$ 27,780,500
PPC 24	Renal Failure without Dialysis	3,660.69	3,355	\$ 27,672,040
PPC 5	Pneumonia & Other Lung Infections	1,288.80	1,169	\$ 24,418,072
PPC 3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	2,326.32	2,209	\$ 21,665,872
PPC 9	Shock	1,141.40	1,063	\$ 20,538,223
PPC 35	Septicemia & Severe Infections	1,052.88	1,060	\$ 19,984,180
PPC 21	Clostridium Difficile Colitis	1,028.00	1,030	\$ 17,934,360
PPC 40	Post-Operative Hemorrhage & Hematoma without Hemorrhage Control Proc	1,515.83	1,512	\$ 14,846,328
MEDICARE				
PPC	PPC Description	PPCs Expected	PPCs Actual	PPC Weighted Impact
PPC 4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	605.40	788	\$ 25,833,004
PPC 14	Ventricular Fibrillation/Cardiac Arrest	788.81	989	\$ 19,981,756
PPC 65	Urinary Tract Infection without Catheter	1,314.70	1,356	\$ 19,408,428
PPC 24	Renal Failure without Dialysis	1,994.09	2,153	\$ 17,757,944
PPC 5	Pneumonia & Other Lung Infections	699.79	757	\$ 15,812,216
PPC 9	Shock	657.09	728	\$ 14,065,688
PPC 3	Acute Pulmonary Edema and Respiratory Failure without Ventila	1,238.41	1,408	\$ 13,809,664
PPC 21	Clostridium Difficile Colitis	634.11	725	\$ 12,623,700
PPC 35	Septicemia & Severe Infections	600.34	657	\$ 12,386,421
PPC 6	Aspiration Pneumonia	496.70	607	\$ 10,093,196

HSCRC

Health Services Cost
Review Commission

Target PPC List: Proposed List

		CMS HAC (PSI 90)	Top Volume * Cost	Other (Pair, Opportunity, etc)
3	Respiratory Failure without Ventilation		X	
4	Respiratory Failure with Ventilation		X	
5	Pneumonia & Other Lung Infections		X	
6	Aspiration Pneumonia		X	
7	Pulmonary Embolism	PSI #12		
9	Shock	PSI #13	X	
14	Cardiac Arrest		X	
16	Venous Thrombosis	PSI #12		
24	Renal Failure without Dialysis		X	
28	In-Hospital Trauma and Fractures	PSI #8		
31	Decubitus Ulcer	PSI #3		
35	Septicemia & Severe Infections	PSI #13	X	
37	Post-Operative Infection & Deep Wound Disruption Without Procedure			X
38	Post-Operative Wound Infection & Deep Wound Disruption with Procedure	PSI #14		
40	Post-operative Hemorrhage and Hematoma		X	
42	Accidental Puncture/Laceration During Invasive Procedure	PSI #15		
49	Iatrogenic Pneumothrax	PSI #6		
54	Infections due to Central Venous Catheters	PSI# 7		
65	Urinary Tract Infection		X	
66	Catheter-Related Urinary Tract Infection			X

MHAC/PPC Tiers

Tier A	Tier C
Selected as high cost, high volume statewide plus those that match CMS HAC policy of AHRQ Patient Safety Indicators	Remaining PPCs
3 Acute Pulmonary Edema and Respiratory Failure without Ventilation	1 Stroke & Intracranial Hemorrhage
4 Acute Pulmonary Edema and Respiratory Failure with Ventilation	2 Extreme CNS Complications
5 Pneumonia & Other Lung Infections	12 Cardiac Arrhythmias & Conduction Disturbances
6 Aspiration Pneumonia	13 Other Cardiac Complications
7 Pulmonary Embolism	15 Peripheral Vascular Complications Except Venous Thrombosis
9 Shock	20 Other Gastrointestinal Complications without Transfusion or Significant Bleeding
14 Ventricular Fibrillation/Cardiac Arrest	21 Clostridium Difficile Colitis
16 Venous Thrombosis	23 GU Complications Except UTI
24 Renal Failure without Dialysis	25 Renal Failure with Dialysis
28 In-Hospital Trauma and Fractures	26 Diabetic Ketoacidosis & Coma
31 Decubitus Ulcer	29 Poisonings Except from Anesthesia
35 Septicemia & Severe Infections	30 Poisonings due to Anesthesia
37 Post-Operative Infection & Deep Wound Disruption Without Procedure	32 Transfusion Incompatibility Reaction
38 Post-Operative Wound Infection & Deep Wound Disruption with Procedure	33 Cellulitis
40 Post-Operative Hemorrhage & Hematoma without Hemorrhage Control Procedure or I&D Proc	34 Moderate Infectious
42 Accidental Puncture/Laceration During Invasive Procedure	36 Acute Mental Health Changes
49 Iatrogenic Pneumothrax	39 Reopening Surgical Site
54 Infections due to Central Venous Catheters	43 Accidental Cut or Hemorrhage During Other Medical Care
65 Urinary Tract Infection without Catheter	44 Other Surgical Complication - Mod
66 Catheter-Related Urinary Tract Infection	45 Post-procedure Foreign Bodies
	46 Post-Operative Substance Reaction & Non-O.R. Procedure for Foreign Body
	47 Encephalopathy
	50 Mechanical Complication of Device, Implant & Graft
	51 Gastrointestinal Ostomy Complications
	52 Inflammation & Other Complications of Devices, Implants or Grafts Except Vascular Infection
	53 Infection, Inflammation & Clotting Complications of Peripheral Vascular Catheters & Infusions
	55 Obstetrical Hemorrhage without Transfusion
	56 Obstetrical Hemorrhage with Transfusion
	57 Obstetric Lacerations & Other Trauma Without Instrumentation
	58 Obstetric Lacerations & Other Trauma With Instrumentation
	59 Medical & Anesthesia Obstetric Complications
	60 Major Puerperal Infection and Other Major Obstetric Complications
	61 Other Complications of Obstetrical Surgical & Perineal Wounds
	62 Delivery with Placental Complications
	63 Post-Operative Respiratory Failure with Tracheostomy
	64 Other In-Hospital Adverse Events
Tier B	
Selected as remaining PPCs with high Medicare percentage (>60%) and high number of Maryland hospitals (>43)	
8 Other Pulmonary Complications	
10 Congestive Heart Failure	
11 Acute Myocardial Infarction	
17 Major Gastrointestinal Complications without Transfusion or Significant Bleeding	
18 Major Gastrointestinal Complications with Transfusion or Significant Bleeding	
19 Major Liver Complications	
27 Post-Hemorrhagic & Other Acute Anemia with Transfusion	
41 Post-Operative Hemorrhage & Hematoma with Hemorrhage Control Procedure or I&D Proc	
48 Other Complications of Medical Care	

Proposed Never Events

- ▶ 28 In-Hospital Trauma and Fractures
- ▶ 29 Poisonings Except from Anesthesia
- ▶ 30 Poisonings due to Anesthesia
- ▶ 32 Transfusion Incompatibility Reaction
- ▶ 43 Accidental Cut or Hemorrhage During Other Medical Care
- ▶ 45 Post-procedure Foreign Bodies
- ▶ 46 Post-Operative Substance Reaction & Non-O.R. Procedure for Foreign Body