

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Donald A. Young, M.D.  
Chairman

Kevin J. Sexton  
Vice Chairman

Joseph R. Antos, Ph.D.

Trudy R. Hall, M.D.

Steven B. Larsen

C. James Lowthers

Herbert S. Wong, Ph.D.



Robert Murray  
Executive Director

Stephen Ports  
Principal Deputy Director  
Policy & Operations

Gerard J. Schmith  
Deputy Director  
Hospital Rate Setting

Charlotte Thompson  
Deputy Director  
Research and Methodology

**HEALTH SERVICES COST REVIEW COMMISSION**

4160 PATTERSON AVENUE · BALTIMORE, MARYLAND 21215

Phone: 410-764-2605

Fax: 410-358-6217

Toll Free: 1-888-287-3229

[www.hscrc.state.md.us](http://www.hscrc.state.md.us)

Date: August 20, 2009

To: Maryland Designated MHAC Quality Data Contacts  
From: Robert Murray, Executive Director  
Dianne Feeny, Associate Director, Quality Initiative  
Re: Hospital Updated Data on Proposed Maryland Hospital Acquired Conditions (MHACs)

---

For the third quarter of FY 2009, we are emailing encrypted excel files containing reports on cases at risk for and/or assigned one or more of 64 potentially preventable complications (PPCs)/MHACs at your facility based on data submitted to HSCRC. Figure 1 below contains the data field layout and definitions for the Excel file you will receive. In addition, an encrypted PDF file containing case reports for all PPC/MHAC cases assigned will be forward with the Excel report.

Table 1 below contains a list of the PPCs that will be used for the MHAC initiative the initial year of implementation. Although case reports include 64 PPCs, HSCRC is implementing payment policy changes for 50 of the 64; you will note from the Table 1 that the PPCs excluded from the current MHAC list include 26, 21, 30, 43, 46, 55, 57, 58, 59, 60, 61, 62, 63 and 64.

As the present on admission (POA) coding has steadily improved for the first three quarters of FY 2009 data, **we have also revised and are providing hospitals interim normative actual versus expected values for the MHAC/PPCs using the data for the first three quarters of 09.** The attached excel file contains:

- A revised Appendix A Table 1- updated list of PPCs for the MHAC initiative. As we anticipate that the regression values for each of the MHACs will not substantially change for 2009 compared with 2008, please note that the regression values for each of the MHACs contained in the Appendix A Table 1 worksheet are based on 2008 data.
- Revised Appendix C Table 3-actual vs. expected MHAC case rates by PPC by hospital for Qtrs 1, 2, and 3 of FY 09.
- Revised Appendix D Table 4- summary MHAC hospital performance and rankings for Qtrs 1, 2, and 3 of FY 09.
- Revised Appendix E Table 5- statewide average PPC rates by APR DRG by SOI for Qtrs 1,2, and 3 of FY 09.

**Please note that the normative statistics as well as the PPC regression values will also be revised when we have a full year of PPC data for FY 2009.**

Please contact Dianne Feeny, [dfeeny@hscrc.state.md.us](mailto:dfeeny@hscrc.state.md.us) or 410-764-2582, if you have questions about the information enclosed or referred to in this memorandum.

**Figure 1. MHAC Excel At Risk and Assigned Cases Data Fields and Layout**

MD PPC Output Data Layout			
PROVIDERID	Character	6	Provider ID
MD_PATID	Character	12	Ghost ID
ATRISK	Character	1	Discharge Globally Excluded 0 : discharge is globally excluded 1 : discharge is at risk for PPCs 2 : discharge is at risk for PPCs and assigned to one or more PPCs
APRDRG	Character	3	APR-DRG v26.1 Admission DRG Assignment
APRSOI	Character	1	APR-DRG v26.1 Admission SOI Assignment
APRMDC	Character	2	APR-DRG v26.1 Admission MDC Assignment
PPCLIST	Character	60	List of Assigned PPCs on record
COMP_IND	Character	64	PPC indicator:char position = PPC # w/ value of 0 : PPC not present, not at risk and therefore not assigned 1 : PPC present but not at risk and therefore not assigned 2 : PPC at risk but not present and therefore not assigned 3 : PPC at risk, present and assigned
PPCDIAG	Character	60	Candidate PPC for diagnoses = 2 characters per Diagnosis position 1-2 for diagnosis 1 position 3-4 for diagnosis 2 ... position 59-60 for diagnosis 30
PPCPROC	Character	60	Candidate PPC for procedures = 2 characters per Procedure position 1-2 for procedure 1 position 3-4 for procedure 2 ... position 59-60 for procedure 30
...			
PPC64	Character	1	PPC 64 Assignment Status blank: discharge is not assigned PPC 64 1:discharge is assigned PPC 64
MEDREC	Character		hospital medical record number
ADMDATE	Character		case admission date
DISDATE	Character		case discharge date

**Table 1: MHAC List**

PPC #	PPC Description	<i>Updated 8/5/09</i>
	<b>Shaded PPCs will not be used for the MHAC Initiative</b>	
1	Stroke & Intracranial Hemorrhage	
2	Extreme CNS Complications	
3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	
4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	
5	Pneumonia & Other Lung Infections	
6	Aspiration Pneumonia	
7	Pulmonary Embolism	
8	Other Pulmonary Complications	
9	Shock	
10	Congestive Heart Failure	
11	Acute Myocardial Infarction	
12	Cardiac Arrhythmias & Conduction Disturbances	
13	Other Cardiac Complications	
14	Ventricular Fibrillation/Cardiac Arrest	
15	Peripheral Vascular Complications Except Venous Thrombosis	
16	Venous Thrombosis	
17	Major Gastrointestinal Complications without Transfusion or Significant Bleeding	
18	Major Gastrointestinal Complications with Transfusion or Significant Bleeding	
19	Major Liver Complications	
20	Other Gastrointestinal Complications without Transfusion or Significant Bleeding	
21	<b>Clostridium Difficile Colitis</b>	
22	Urinary Tract Infection	
23	GU Complications Except UTI	
24	Renal Failure without Dialysis	
25	Renal Failure with Dialysis	
26	<b>Diabetic Ketoacidosis &amp; Coma</b>	
27	Post-Hemorrhagic & Other Acute Anemia with Transfusion	
28	In-Hospital Trauma and Fractures	
29	Poisonings Except from Anesthesia	
30	<b>Poisonings due to Anesthesia</b>	
31	Decubitus Ulcer	
32	Transfusion Incompatibility Reaction	
33	Cellulitis	
34	Moderate Infectious	
35	Septicemia & Severe Infections	
36	Acute Mental Health Changes	
37	Post-Operative Infection & Deep Wound Disruption Without Procedure	
38	Post-Operative Wound Infection & Deep Wound Disruption with Procedure	
39	Reopening Surgical Site	
40	Post-Operative Hemorrhage & Hematoma without Hemorrhage Control Procedure or I&D Pr	
41	Post-Operative Hemorrhage & Hematoma with Hemorrhage Control Procedure or I&D Proc	
42	Accidental Puncture/Laceration During Invasive Procedure	
43	<b>Accidental Cut or Hemorrhage During Other Medical Care</b>	
44	Other Surgical Complication - Mod	
45	Post-procedure Foreign Bodies	
46	<b>Post-Operative Substance Reaction &amp; Non-O.R. Procedure for Foreign Body</b>	
47	Encephalopathy	
48	Other Complications of Medical Care	
49	Iatrogenic Pneumothrax	
50	Mechanical Complication of Device, Implant & Graft	

PPC #	PPC Description	<i>Updated 8/5/09</i>
	Shaded PPCs will not be used for the MHAC Initiative	
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	
54	Infections due to Central Venous Catheters	
55	<b>Obstetrical Hemorrhage without Transfusion</b>	
56	<b>Obstetrical Hemorrhage with Transfusion</b>	
57	<b>Obstetric Lacerations &amp; Other Trauma Without Instrumentation</b>	
58	<b>Obstetric Lacerations &amp; Other Trauma With Instrumentation</b>	
59	<b>Medical &amp; Anesthesia Obstetric Complications</b>	
60	<b>Major Puerperal Infection and Other Major Obstetric Complications</b>	
61	<b>Other Complications of Obstetrical Surgical &amp; Perineal Wounds</b>	
62	<b>Delivery with Placental Complications</b>	
63	<b>Post-Operative Respiratory Failure with Tracheostomy</b>	
64	<b>Other In-Hospital Adverse Events</b>	

*Note: Shaded PPCs are excluded*