

MHAC Report Static User Guide for Rate Year 2025

By CRISP, last updated 2/7/2023



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RY 2025 MHAC Report User Guide

Overview

The Maryland Hospital Acquired Conditions (MHAC) program is based on a system developed by 3M Health Information Systems to identify potentially preventable complications (PPCs) using present-on-admission codes available in claims data. 3M originally developed specifications for 65 PPCs, which are defined as harmful events that develop after the patient is admitted to the hospital and may result from processes of care and treatment rather than from the natural progression of the underlying illness. For example, the program holds hospitals accountable for respiratory failure and pulmonary embolisms that occur during inpatient stays. These complications can lead to 1) poor patient outcomes, including longer hospital stays, permanent harm, and death; and 2) increased costs. Thus, the MHAC program is designed to provide incentives to improve patient care by adjusting hospital budgets based on PPC performance. The maximum penalty remains at 2 percent, and the maximum reward is increased to 2 percent.

For more information on the MHAC policy, please visit the following HSCRC website page: https://hscrc.maryland.gov/Pages/init_qi_MHAC.aspx

Methodology

The MHAC methodology assesses attainment only. The attainment score is calculated by comparing hospital performance to a statewide threshold benchmark. For RY2025, hospitals are now evaluated on 15 clinically significant PPCs, weighted by 3M cost weights as proxy for patient harm. The MHAC program uses a point-based system for converting PPC results to standardized scores, and the weighted PPC scores are converted to revenue adjustment. For RY 2025, 24 months of data (July 2020- June 2022) is used to establish the normative values that are used to calculate a hospital's expected PPC rate, and to determine the threshold and benchmark for scoring hospital performance. The RY 2025 scale uses a full distribution of potential scores (scale of 0-100%), with a hold harmless zone between 60 and 70 percent. The performance period data for RY2025 is CY 2023 and CY2022-2023 for small hospitals; data will be reported via the CRS portal as it becomes available.

For RY 2025, data will be used during the COVID Public Health Emergency to assess performance standards. With the performance standards determined post-COVID, that reduces any concerns that may arise about using a pre-COVID period. The v40 grouper has clinic logic that determines if a COVID-related discharge can be assigned a PPC.



Grouper Version

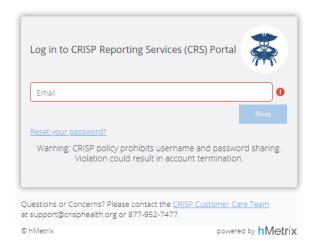
The APR-DRG and PPC Grouper Version 40 will be used for RY 2025.

Static Report User Guide

MHAC Report Access/Card

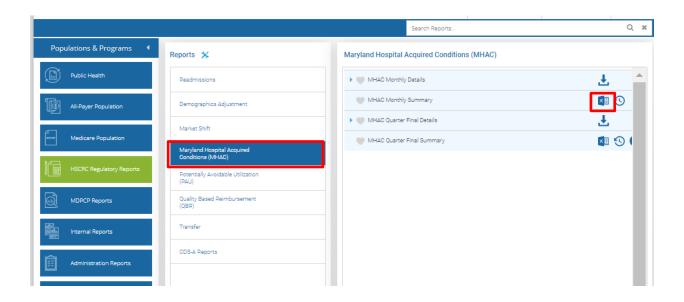
The MHAC Static Report can be accessed by visiting reports.crisphealth.org and logging-in with a CRS username and password.

Step 1. To access the HSCRC Regulatory Report tile, login to the CRISP Reporting Services Portal by visiting https://reports.crisphealth.org. Once in the CRS Portal, a dashboard of different blue report "cards" will appear. Availability of reports is based on the access of the user. Clicking the card named "HSCRC Regulatory Report" will bring up the available reports for this category. The following screenshots represent the user's workflow.





Step 2. By clicking the Static Report icon as shown below, you will either access the MHAC Summary or MHAC Details Report. Users with PHI-level access to this report will have the MHAC Details report option. Users who can only see the MHAC Summary report (and not the MHAC Details report) are configured for summary level access (cannot see PHI reports).





Report Tabs

- 1. Cover Sheet
- 2. 3M Cost Weights
- 3. Benchmarks
- 4. Percent At-Risk Scaling
- 5. Excluded PPCs
- 6. Hospital Results by PPC
- 7. Hospital Scores
- 8. Statewide PPC Norms
- 9. Calculation Sheet
- 10a. By Hospital by PPC
- 10b. Statewide by PPC
- 10c. By Hospital By PPC By Quarter



1. Cover Sheet

The cover sheet provides an overview of each sheet available in the MHAC report. It also lists the base year, performance year methodology version, and CGS.

RY2025		
BASE PERIOD	July 2020- June 2022	
PERFORMANCE YEAR	CY2023 (small hospitals will have CY2022+ CY2023)	
METHODOLOGY VERSION	PPC and APR version 40	
CGS		
INCLUDED IN THIS EXCEL		
WORKBOOK:	Sheet Name	Description
	2. 3M Cost weights	V40 3M cost weights as proxy for patient harm used for weighing PPCs.
	3. Attainment Standards	Benchmarks and Thresholds for each PPC based on Base Period (July 2020- June 2022) data.
	4. Percent At-Risk Scaling	This scale allows hospitals to *estimate* revenue adjustments.
		List of PPCs excluded from calculations for each Hospital. Hospitals not listed on the sheet have all
	5. Excluded PPCs	payment PPCs included.
	6. Hospital Results by PPC	Hospital PPC results: At-risk, Observed, Expected, O/E ratio, and weighted attainment points.
	7. Hospital Scores 8. Statewide Norms	Hospital scores for attainment only. PPC Norms based on Base Period (July 2020- June 2022) data
	9. Calculation Sheet	Calculation Sheet for hospitals
10. PPC Monitoring Tabs	10A. By Hosp by PPC by Year	This tab provides annual by hospital and by PPC results for all payment and non-payment PPCs. HSCRC will monitor the non-payment program PPCs and use this data to track overall PPC performance. Hospitals should monitor this data to fully assess patient complications. There is a flag that indicates payment program PPCs, as well as the previously defined serious reportable events.
		This tab provides statewide PPC results for all payment and non-payment PPCs. HSCRC will monitor the non
10. PPC Monitoring Tabs	10B. Statewide by PPC	payment program PPCs and use this data to track overall PPC performance.
10. PPC Monitoring Tabs	10C. By Hosp by PPC by Quarter	This tab is updated quarterly and provides quarterly by-hospital and by PPC results for all payment and non-payment PPCs. HSCRC will monitor the non-payment program PPCs and use this data to track overall PPC performance. Hospitals should monitor this data to fully assess patient complications. There is a flag that indicates payment program PPCs as well as the previously defined serious reportable events.
		Updates:
		Option Co.

12/10/21: Per HSCRC regulatory guidance, these reports have removed cases from specifically designated Alternative Care Sites and PODs; these are generally defined as cases at applicable hospital campuses where R_FLAG = 'A'. For more information, please contact hscrc.quality@maryland.gov



2. 3M Cost Weights

This sheet displays each 3M cost weights as proxy for patient harm used for weighing PPCs (using cost weights assigned under v40 of the APR Grouper).

2. 3M PPC Cost Weights

As of 1/09/2023		
PPC NUMBER -	PPC Description	3M v40 PPC Marginal Costs
3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	0.5005
4	Acute Pulmonary Edema and RespiratoryFailure with Ventilation	1.5519
7	Pulmonary Embolism	1.1248
9	Shock	1.0478
16	Venous Thrombosis	1.5503
28	In-Hospital Trauma and Fractures	0.3379
35	Septicemia & Severe Infections	1.4394
37	Post-Operative Infection & Deep Wound Disruption without Procedure	1.5936
41	Post-Operative Hemorrhage & Hematoma with Hemorrhage Control Procedure or I&D	0.9745
42	Accidental Puncture/Laceration During Invasive Procedure	0.4264
47	Encephalopathy	0.7724
49	latrogenic Pneumothorax	0.4717
60	Major Puerperal Infection and Other Major Obstetric Complications	0.8978
61	Other Complications of Obstetrical Surgical & Perineal	0.2099
67	Pneumonia Combo (with and without Aspiration)	1.1330

Metric	Description
3M v40 PPC Marginal Costs	Weighting the 15 PPCs differentially using 3M cost weights as a proxy for degree of patient harm.



3. Benchmarks

This sheet displays the benchmarks and thresholds for each PPC, based on base period July 2020 – June 2022 data. These metrics are used to assign attainment points, comparing the base period with CY 2023 performance; small hospitals will be assessed on CY 2022- 2023 for performance.

3. Benchmarks and thresholds for Payment Program PPCs

As of 1/25/2023			
PPC Number	PPC Description	Threshold ~	Benchmark ×
3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	1.8412	0.3688
4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	1.6823	0.3746
7	Pulmonary Embolism	1.9105	0.3419
9	Shock	1.9497	0.3746
16	Venous Thrombosis	1.7583	0.0928
28	In-Hospital Trauma and Fractures	1.8455	0.4319
35	Septicemia & Severe Infections	1.6128	0.5586
37	Post-Operative Infection & Deep Wound Disruption Without Procedure	2.1254	0.1655
41	Post-Operative Hemorrhage & Hematoma with Hemorrhage Control Procedure or I&D Proc	1.8211	0.3251
42	Accidental Puncture/Laceration During Invasive Procedure	1.4303	0.3886
47	Encephalopathy	1.8960	0.2459
49	latrogenic Pneumothrax	1.8156	0.3213
60	Major Puerperal Infection and Other Major Obstetric Complications	2.0890	0.0000
61	Other Complications of Obstetrical Surgical & Perineal Wounds	2.1321	0.3002
67	Combined Pneumonia (PPC 5 and 6)	1.6123	0.3541

Metric	Description
Threshold	The value of the observed to expected ratio at the 10th percentile of hospital performance.
Benchmark	The value of the observed to expected ratio at the 90th percentile of hospital performance.



4. Percent At-Risk Scaling

This scale allows hospitals to estimate revenue adjustments. The RY 2025 scale uses a full distribution of potential scores (scale of 0-100%), with a hold harmless zone between 60 and 70 percent.

Metric	Description
Final MHAC Score	PPCs are calculated by summing the total weighted points earned by a hospital, divided by the total possible weighted points.
Revenue Adjustment	Revenue adjustment scale with a maximum penalty at 2 percent and maximum reward at 2 percent and continuous linear scaling with a hold harmless zone between 60 and 70 percent.

. RY 2025 Pre-Set Revenue Adjus	tment Scale*			
etween 60 and 70 percent				
Subject to change due to pote	ntial retrospective adjustmen	ts.		
Full Scale		Abbreviated	d Version	
Final MHAC Score	% Revenue Adjustment	Final MHAC Score	% Revenue Adjustment	
0%	-2.00%	0%	-2.00%	
1%	-1.97%	5%	-1.83%	
2%	-1.93%	10%	-1.67%	
3%	-1.90%	15%	-1.50%	
4%	-1.87%	20%	-1.33%	
5%	-1.83%	25%	-1.17%	
6%	-1.80%	30%	-1.00%	
7%	-1.77%	35%	-0.83%	
8%	-1.73%	40%	-0.67%	
9%	-1.70%	45%	-0.50%	
10%	-1.67%	50%	-0.33%	
11%	-1.63%	55%	-0.17%	
12%	-1.60%	60%	0.00%	
13%	-1.57%	65%	0.00%	
14%	-1.53%	70%	0.00%	
15%	-1.50%	75%	0.33%	
16%	-1.47%	80%	0.67%	
17%	-1.43%	85%	1.00%	
18%	-1.40%	90%	1.33%	
19%	-1.37%	95%	1.67%	
20%	-1.33%	100%	2.00%	
21%	-1.30%			
22%	-1.27%	Penalty Cut-point	60%	
23%	-1.23%	Reward Cut-point	70%	



5. Excluded PPCs

Under MHAC, the attainment score is measured on 15 PPCs. The sheet provides a list of PPCs excluded from calculations for each hospital based on the MHAC inclusion/exclusion criteria, which can be found in the MHAC memo on the HSCRC website. Hospitals not listed on the sheet have all 15 PPCs included.

5. List of Excluded PPCs by Hospital, based on Base Period Data

Hospitals not listed have no excluded PPCs.

As of 1/25/2023

Hospital ID 🔻	i i i i i i i i i i i i i i i i i i i	-	Excluded PPC Number
210010	UM-Cambridge		7
210010	UM-Cambridge		9
210010	UM-Cambridge		16
210010	UM-Cambridge		28
210010	UM-Cambridge		35
210010	UM-Cambridge		37
210010	UM-Cambridge		41
210010	UM-Cambridge		42
210010	UM-Cambridge		47
210010	UM-Cambridge		49
210010	UM-Cambridge		60
210010	UM-Cambridge		61
210010	UM-Cambridge		67
210011	Ascension Saint Agnes Hospital		60
210011	Ascension Saint Agnes Hospital		61
210012	Sinai		60
210015	MedStar Fr Square		60
	Adventist White Oak		60
210016	Adventist White Oak		61
210017	Garrett		4
210017	Garrett		7
210017	Garrett		16
210017	Garrett		28
210017	Garrett		35
210017	Garrett		37



6. Hospital Results by PPC

Hospital PPC results based on Policy Modeling: At-risk, Observed, Expected, O/E ratio, and weighted attainment points. The policy modeled using June 2020-July 2022 data to establish norms and performance standards and CY2023 performance period data. These results are provided for reference only.

			HOSPITAL PERFORMANCE RESULTS BY PPC: CY2022 through 30Nov2022 (Prelim) Excluded ACS/POD cases and Palliative Care cases)			
HOSPITAL ID	HOSPITAL NAME	Years of Performa	PPC NUMBER	PPC DESCRIPTIO •	THRESHOLD	BENCHMARK	AT RISK	OBSERVED PPCs	EXPECTED PPCs	OVE RATIO
210004	Holy Cross	1		Post-Operative Hemorrhage & Hematoma with Hemorrhage Control	1.4481	0.4137	5174	1	2.4174	0.4137
210004	Holy Cross	1		Accidental Puncture/Laceration During Invasive 2 Procedure	15251	0.4434	16142	6	6.3365	0.9469
210004	Holy Cross	1		9 latrogenic Pneumothrax	1.7954	0.216	15700	2	1.574	12707
210004	Holy Cross	1	6	Major Puerperal Infection and Other Major Obstetric 0 Complications	2.2771	0	6703	1	2.3617	0.4234
210004	Holy Cross	1	,	Other Complications of Obstetrical Surgical & If Perineal Younds	2,6313	0	7100	2	4.1965	0.4766
210004	Holy Cross	1	E	Combined Pneumonia 7 (PPC 5 and 6)	1,4308	0.2436	12805	14	10.8417	1.2913
210005	Frederick	1		Acute Pulmonary Edema and Respiratory Failure 3 without Ventilation	2.0233	0.3067	7306	9	8.9474	1,0059
210005	Frederick	1		Acute Pulmonary Edema and Respiratory Failure 4 with Ventilation	1,6886	0.2771	7250	4	3.331	12009
210005	Frederick	1		7 Pulmonary Embolism	1,9689	0.2811		4	2.837	1,4099
210005	Frederick	1		9 Shock	1.9697	0.3681		7	9.2686	0.7552
210005	Frederick	1		6 Venous Thrombosis	2.3028	0	5455	4	1,748	2.2883
210005	Frederick			In-Hospital Trauma and 8 Fractures	1.9132	0	10553	1	2.6755	0.3738

Metric	Description
Threshold	The value of the observed to expected ratio at the 10th
	percentile of hospital performance.
Benchmark	The value of the observed to expected ratio at the 90th
	percentile of hospital performance.
At Risk	Number of discharges at risk for PPCs.
Observed PPCs	Observed number of PPCs.
Expected PPCs	Expected number of PPCs are calculated using historical
	data on statewide PPC rates APR-DRG SOI.
O/E Ratio	Observed PPCs/Expected PPCs.
Unweighted Attainment Points	Points before adjusting with 3M cost weight.
Total Possible Points	Total possible weighted points (100 per PPC * 3M cost
	weight).
3M Cost Weight	Weight for each of the 15 PPCs using 3M cost weights as
	a proxy for degree of patient harm.
Weighted Points	Points for each PPC multiplied by the associated 3M Cost
	weight for the PPC.
Weighted Denominator	Total number of weighted points associated for each PPC.



7. Hospital Scores

Hospital scores for attainment only based on policy modeling. The policy modeled using June 2020 – July 2022 data to establish norms and performance standards and CY2023 as performance period data. These results are provided for reference only.

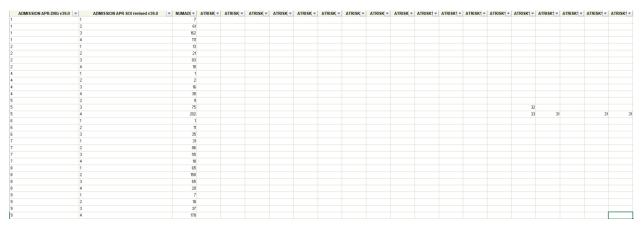
		Hospital scores CY2022 YTD Excluded ACS/POD cases and Palliative Care case					
HOSPITAL I	HOSPITAL NAME	Number of Years of Performance Data	TOTAL NUMBER OF PPCs (max 14)	WEIGHTED FINAL HOSPITAL POINT	WEIGHTED DENOMINATOR	WEIGHTED SCORE -	
210001	Meritus	1	13	931.18	1367.09	68%	
210002	UMMC	1	14	646.48	1460.22	44%	
210003	UM-Capital Region Medical Center	1	9	608.7	1021.28	60%	
210004	Holy Cross	1	14	910.47	1460.22	62%	
210005	Frederick	1	13	472.76	1367.09	35%	
210006	UM-Harford	2	5	287.28	502.18	57%	
210008	Mercy	1	13	475.62	1411.29	34%	
210009	Johns Hopkins	1	14	314.02	1460.22	22%	
210011	Ascension Saint Agnes Hospital	1	12	775.46	1345.78	58%	
210012	Sinai	1	13	635.37	1367.09	46%	
210015	MedStar Fr Square	1	13	740.38	1367.09	54%	
210016	Adventist White Oak	1	12	740.42	1345.78	55%	
210017	Garrett	2	3	315.88	330.82	95%	
210018	MedStar Montgomery	1	6	603.8	625.76	96%	
210019	Peninsula	1	13	1084.34	1367.09	79%	
210022	Suburban	1	12	584.92	1345.78	43%	
210023	Anne Arundel	1	14	1064.38	1460.22	73%	
210024	MedStar Union Mem	1	12	751.66	1345.78	56%	
210027	Western Maryland	1	11	1050.39	1241.72	85%	
210028	MedStar St. Mary's	1	8	791.78	846.88	93%	
210029	JH Bayview	1	12	629.22	1345.78	47%	
210032	ChristianaCare, Union	2	5	173.9	502.18	35%	

Metric	Description
Total Number of PPCs (max 15)	Number of PPCs included for each hospital based on MHAC inclusion methodologies.
Weighted Final Hospital Points	Total points hospitals received after the 3M Cost Weight adjustments.
Weighted Denominator	Total number of weighted points associated for each hospital based on the PPCs included.
Weighted Score	Weighted final hospital points/weighted denominator.



8. Statewide PPC Norms

This sheet shows each PPC Norm value based on June 2020 – July 2022 data.



Metric	Description
NUMADM	Number admitted with the APR-DRG and APR SOI.
ATRISK1-ATRISK67	Risk status indicates whether a discharge is at-risk or eligible to be assigned a specific PPC (i.e., only obstetrical cases could be at-risk for an obstetrical PPC) The sum indicates a
PPC1-PPC67	total number of at-risk discharges. Number of PPCs that occurred for each APR-DRG and APR SOI.
NORMPPC1-NORMPPC67	The normative values are the statewide rate for each PPC during the base period.



9. Calculation Sheet

This sheet gives the opportunity for hospitals to estimate their attainment score. All the information to calculate attainment score is provided in the sheet. If a hospital is not measured on a PPC, then it should be removed from the calculation.

9. Calculation As of 1/19/2	Sheet for Estimating Hospital Scores 023											
If your hospital is not measured on a specific PPC (i.e., it is excluded because the hospital does not have >20 at-risk discharges or >2 expected PPC), then you can delete that PPC row and the score should calculate correctly												
PPC Number	PPC Description	Performan	ce Standards		PERFOR	MANCE PERIOD RE	SULTS	ATTAINMENT POINTS	POSSIBLE DENOMINATOR	3M Cost Weight	WEIGHTED TOTAL POINTS BY TIER	TOTAL WEIGHTED DENOMINATOR
		Threshold	Benchmark	AT RISK	AT RISK OBSERVED EXPECTED		RATIO					
3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	1.8412	0.3688				#DIV/0!	#DIV/0!	100	0.5005	#DIV/0!	50.05
4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	1.6823	0.3746				#DIV/0!	#DIV/0!	100	1.5519	#DIV/0!	155.19
7	Pulmonary Embolism	1.9105	0.3419				#DIV/0!	#DIV/0!	100	1,1248	#DIV/0!	112.48
9	Shock	1.9497	0.3746				#DIV/0!	#DIV/0!	100	1.0478	#DIV/0!	104.78
16	Venous Thrombosis	1.7583	0.0928				#DIV/0!	#DIV/0!	100	1.5503	#DIV/0!	155.03
28	In-Hospital Trauma and Fractures	1.8455	0.4319				#DIV/0!	#DIV/0!	100	0.3379	#DIV/0!	33.79
35	Septicemia & Severe Infections	1.6128	0.5586				#DIV/0!	#DIV/0!	100	1.4394	#DIV/0!	143.94
37	Post-Operative infection & Deep vvound Disruption Without Procedure	2.1254	0.1655				#DIV/0!	#DIV/0!	100	1.5936	#DIV/0!	159.36
41	Post-Operative Hemorrnage & Hematoma with Hemorrhage Control Procedure or I&D Accidental Puncture/Laceration During	1.8211	0.3251				#DIV/0!	#DIV/0!	100	0.9745	#DIV/0!	97.45
42	Invasive Procedure	1.4303	0.3886				#DIV/0!	#DIV/0!	100	0.4264	#DIV/0!	42.64
47	Encephalopathy	1.896	0.2459				#DIV/0!	#DIV/0!	100	0.7724	#DIV/0!	77.24
49	latrogenic Pneumothrax	1.8156	0.3213				#DIV/0!	#DIV/0!	100	0.4717	#DIV/0!	47.17
60	Major Puerperal Infection and Other Major Obstetric Complications	2.089	0				#DIV/0!	#DIV/0!	100	0.8978	#DIV/0!	89.78
61	Other Complications of Obstetrical Surgical & Perineal Wounds	2.1321	0.3002				#DIV/0!	#DIV/0!	100	0.2099	#DIV/0!	20.99
67	Combined Pneumonia	1.6123	0.3541				#DIV/0!	#DIV/0!	100	1.1330	#DIV/0!	113.3
	Total			, and the second							#DIV/0!	1403.19
									TOTAL WEIGHTED SCOR	RE	#DIV/0!	

Metric	Description
At Risk	Number of patients at risk for a PPC
Observed	Observed number of PPCs that occurred
Expected	Calculated using historical data on statewide PPC
	rates by APR-DRG SOI
Ratio	Observed/Expected PPC values
Attainment Points	Attainment Points that can be earned for each PPC
Possible Denominator	Total number of points possible in the
	denominator for each PPC
3M Cost Weight	Weight for each of the 15 PPCs using 3M cost
	weights as a proxy for degree of patient harm.
Weighted Total Points	Total number of points that can be earned after
	the 3M Cost Weight is applied
Total Denominator	Total possible denominator after the 3M Cost
	Weight Adjustment is applied



PPC Monitoring Tabs (10a, 10b & 10c)

The following metrics are used for the PPC Monitoring Tabs (10a, 10b & 10c)

Metric	Description
At Risk	Number of patients at risk for a PPC
Observed PPC	Observed number of PPCs that occurred
Expected PPC	Calculated using historical data on statewide PPC
	rates by APR-DRG SOI
O/E Ratio	Observed/Expected PPC values
Case-Mix Adjusted Rate	Used to calculate expected PPC values
Flag for one of 15 Payment PPCs	Indicates PPCs defined by MHAC
Flag for Serious Reportable Events	Indicates serious events that should be reported
State Average Rate	State average for PPC observed

10a. By Hosp by PPC

This sheet provides by hospital and PPC results for all payment and non-payment PPCs. HSCRC will monitor the non-payment program PPCs and use this data to track overall PPC performance. Hospitals should monitor this data to fully assess patient complications. There is a flag that indicates payment program PPCs as well as the previously defined serious reportable events.

					Excluded AC	All PPCs by Ho S/POD cases and	ospital I Palliative Care o	ases				
HOSPITAL ID	HOSPITAL NAME	PPC NUMBE	PPC DESCRIPTION	Year 🕌	AT RISK 🖵	OBSERVED P	EXPECTED P	O/E RATIO 🖵	Case-Mix Adjusted Rat	Flag for one of 14 Payment PPC	Reportable -	State Averag^
210001	Meritus		Failure without Ventilation	2016	10191	2	10.7198	2.1456	3.1612	1	0	0.00147338
210001	Meritus		Acute Pulmonary Edema and Respiratory Failure with Ventilation	2016	1015	, ;	3.6261	1,9304	1225	1	0	0.00063456
	Meritus		Pneumonia & Other Lung Infections	2016	4725		4.8768	3,6909	4,6519		0	0.00126036
	Meritus		Aspiration Pneumonia	2016	9925		4.5567	15362	1.1407		0	0.00074255
	Meritus		Pulmonary Embolism	2016	1271		4.3744	0.4572	0.2274		0	0.0004974
210001	Meritus		Other Pulmonary Complications	2016	8407		1 4.2969	2.56	1.5477		0	0.00060458
	Meritus		Shock	2016	12300		9,7663	10239	12378		0	0.00120886
	Meritus		Congestive Heart Failure	2016	11107		2.13	1.878	0.3727		0	0.00019844
	Meritus		Acute Myocardial Infarction	2016	12634			1.1134	1.0216		0	0.00091748
210001	Meritus	13	Other Cardiac Complications	2016	12165		3,7085	0.5393	0.1952	0	0	0.00036204
210001	Meritus	14	Ventrioular Fibrillation/Cardiao Arrest	2016	10823	, ,	1 24.3042	0.4526	13232	0	0	0.00292365
210001	Meritus	15	Peripheral Vascular Complications Except Venous Thrombosis	20%	13077	,	1 3,4508	0.2898	0.1203	0	0	0.00041512
210001	Meritus	16	Venous Thrombosis	2016	6896		2,6019	0.7687	0.348	1	0	0.0004527
210001	Meritus	17	Major Gastrointestinal Complications without Transfusion or Significant Bleeding	20%	1241		5,3429	1,3101	0.73	0	0	0.00055716
210001	Meritus	16	Major Gastrointestinal Complications with Transfusion or Significant Bleeding	20%	12386	:	3 4.2428	0.7071	0.3179	0	0	0.00044959
210001	Meritus	15	Major Liver Complications	2016	1277:		3.0402	1.3157	0.5485	0	0	0.00041689
210001	Meritus	20	Other Gastrointestinal Complications without Transfusion or Significant Bleeding	20%	12097	,	5 9.6211	0.5197	0,5868	0	0	0.00112919
210001	Meritus	2	Clostridium Difficile Colitis	2016	1761	10	7.3424	1,7705	7.702	0	0	0.00435006
210001	Meritus	23	GU Complications Except UTI	2016	12875	5	1 3.1433	0.3181	0.1171	0	0	0.00036794



10b. Statewide by PPC

This tab provides statewide PPC results for all payment and non-payment PPCs by PPC. HSCRC will monitor the non-payment program PPCs and use this data to track overall PPC performance.

			All PPCs by PPC Number Excluded ACS/POD cases and Palliative Care cases													
PPC NUMBE	PPC DESCRIPTION -	Year 🔻	AT RISK	OBSERVED P	EXPECTED P	OVE RATIO	Case-Mix Adjusted Rat	Flag for one of 14 Payment PP(Reportable -	State Average rate						
3	Acute Pulmonary Edema and Respiratory Failure without Ventilation	2016	338667	608	413.8273	1,4692	2.1647	1	0	0.00147338						
4	Acute Pulmonary Edema and Respiratory Failure with Ventilation	2016	322589	30	157.1875	1,9149	1.2151	1	0	0.00063456						
5	Pneumonia & Other Lung Infections	2016	178754	388	214.7642	1.8066	2.277	0	0	0.00126036						
6	Aspiration Pneumonia	2016	349889	277	204.3614	1.3554	1.0065	0	0	0.00074255						
7	Pulmonary Embolism	2016	406615	220	177.6619	1.2383	0.6159	1	0	0.0004974						
8	Other Pulmonary Complications	2016	277210	192	147.5413	1.3013	0.7868	0	0	0.00060458						
9	Shock	2016	402808	415	373.0245	1.1125	13449	1	0	0.00120886						
10	Congestive Heart Failure	2016	288042	137	50.2451	2.7266	0.5411	0	0	0.00019844						
11	Acute Myocardial Infarction	2016	408866	277	303.3555	0.9131	0.8378	0	0	0.00091748						
13	Other Cardiac Complications	2016	379904	70	118.9484	0.5885	0.2131	0	0	0.00036204						
14	Ventricular Fibrillation/Cardiac Arrest	2016	355781	518	738.279	0.6976	2.0394	0	0	0.00292365						
15	Peripheral Vascular Complications Except Venous Thrombosis	2016	394786	70	137,8608	0.5078	0.2108	0	0	0.00041512						
16	Venous Thrombosis	2016	186012	140	83.7193	1.6723	0.757	1	0	0.0004527						
17	Major Gastrointestinal Complications without Transfusion or Significant Bleeding	2016	409812	118	183.3806	0.6435	0.3585	0	0	0.00055716						
18	Major Gastrointestinal Complications with Transfusion or Significant Bleeding	2016	403968	82	133,348	0.6149	0.2765	0	0	0.00044959						
19	Major Liver Complications	2016	400450	62	115.4124	0.5372	0.224	0	0	0.00041689						
20	Other Gastrointestinal Complications without Transfusion or Significant Bleeding	2016	403323	208	333.4125	0.6239	0.7044	0	0	0.00112919						
21	Clostridium Difficile Colitis	2016	63931	395	264.552	1.4931	6.495	0	0	0.00435006						
23	GU Complications Except UTI	2016	412779	64	120.0808	0.533	0.1961	0	0	0.00036794						
24	Renal Failure without Dialysis	2016	354219	1598	2984.1954	0.5355	5.1961	0	0	0.0097035						
25	Renal Failure with Dialysis	2016	360528	49	37.3476	1.312	0.1875	0	0	0.0001429						
26	Diabetic Ketoacidosis & Coma	2016	348449	21	45.4667	0.4619	0.0783	0	0	0.00016948						



10c. By Hosp by PPC/by Quarter

This sheet provides by hospital and PPC results for all payment and non-payment PPCs by Quarter. HSCRC will monitor the non-payment program PPCs and use this data to track overall PPC performance. Hospitals should monitor this data to fully assess patient complications. There is a flag that indicates payment program PPCs as well as the previously defined serious reportable events.

						All PPCs by Hospital by Quarter Excluded ACSIPOD cases and Palliative Care cases									
HOSPITAL ID	HOSPITAL NAME	PPC NUMBE *	PPC DESCRIPTION	Year	-	Quarter	AT RISK	~ C	DBSERVED P	EXPECTED P	OVE RATIO	Case-Mix Adjusted Rat	Flag for one of 14 Payment PPC *	Reportable -	State Averagrate
210001	Meritus		1 Stroke & Intracranial Hemorrhage		2016	Jan-Mar	1 :	3176	1	2.5521	0.3918	0.4637	. 0	0	0.00118332
210001	Meritus		Estreme CNS Complications		2016	Jan-Mar	- 1	2863	0	0.5741	0		0	0	0.00030825
210001	Meritus		Acute Pulmonary Edema and Respiratory Failure vithout Ventilation		2016	Jan-Mar		2541	6	2.7298	2.198	3.2385	. 1	0	0.00147338
210001	Meritus		Acute Pulmonary Edema and Respiratory Failure with Ventilation		2016	Jan-Mar	2	2532	2	0.9433	2.1202	13454	. 1	0	0.00063456
210001	Meritus		Pneumonia & Other Lung Infections		2016	Jan-Mar		1969	6	1.1162	5.3756	6.7752	. 0	0	0.00126036
210001	Meritus		Aspiration Pneumonia		2016	Jan-Mar		2458	1	1.2187	0.8206	0.6093	. 0	0	0.00074255
210001	Meritus		Pulmonary Embolism		2016	Jan-Mar		3207	1	1.2026	0.8315	0.4136	1	0	0.0004974
210001	Meritus		Other Pulmonary Complications		2016	Jan-Mar	2	2082	2	10414	1.9205	1.961	0	0	0.00060458
210001	Meritus		Shock.		2016	Jan-Mar		3106	4	2.6565	1.5058	1.8202	. 1	0	0.00120886
210001	Meritus	1	Congestive Heart Failure		2016	Jan-Mar		2801	2	0.488	4.0982	0.8133	. 0	0	0.00019844
210001	Meritus	1	1 Acute Myocardial Infarction		2016	Jan-Mar		3173	2	2:3026	0.8686	0.7969	0	0	0.00091748
210001	Meritus	10	Other Cardiao Complications		2016	Jan-Mar	1	3089	0	0.9166	0	0	0	0	0.00036204
210001	Meritus	1	Ventrioular Fibrillation/Cardiao Arrest		2016	Jan-Mar	2	2762	2	6,2682	0.3191	0.8325	0	0	0.00292365
210001	Meritus	19	Peripheral Vascular Complications Except Venous Thrombosis			Jan-Mar		3300	0	0.8714	0			0	0.00044512
210001	Meritus	1	Venous Thrombosis		2016	Jan-Mar		1759	0	0.6969	0		1	0	0.0004527
210001	Meritus	1	Major Gastrointestinal Complications withor Transfusion or Significant Bleeding	ut	2016	Jan-Mar		3127	3	1.4084	2,1302	1.1968	. 0	0	0.00055716
210001	Meritus	1	Major Gastrointestinal Complications with Transfusion or Significant Bleeding		2016	Jan-Mar		3124	1	1,0558	0.9474	0.4258		0	0.00044959
210001	Meritus	10	Major Liver Complications		2016	Jan-Mar		3226	2	0.7261	2.7546	1.1484	. 0	0	0.00041689
210001	Meritus	21	Other Gastrointestinal Complications without Transfusion or Significant Bleeding	ut	2016	Jan-Mar		3055	2	2.5454	0.7857	0.8872		0	0.00112919
210001	Meritus	2	1 Clostridium Difficile Colitis		2016	Jan-Mar		444	1	1.8859	0.5303	2.3067	. 0	0	0.00435006
210001	Meritus	2:	GU Complications Except UTI		2016	Jan-Mar		3249	0	0.7924	0		0	0	0.00036794