

Reviewing Your FY 2024 Hospital Value-Based Purchasing Program Mortality and Complication Measures Hospital Specific Review

Inpatient Value, Incentives, and Quality Reporting (VIQR)
Outreach and Education Support Contract

April 25, 2023

Speakers

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Purpose

This event will provide an overview of the Hospital-Specific Reports (HSRs) for the mortality and complication measures used in the Fiscal Year (FY) 2024 Hospital VBP Program. This includes measure methodology, measure calculations, HSR access, and instructions for submitting a review and correction request.

Objectives

Participants will be able to:

- Understand the FY 2024 Hospital VBP Program HSR for the mortality and complication measures.
- Access and review the HSR.
- Submit a review and correction request for the Hospital VBP Program measures.

Acronyms

AMI	Acute Myocardial Infarction	HSR	Hospital-Specific Report
CABG	Coronary Artery Bypass Graft	HVBP	Hospital Value-Based Purchasing
СВМ	claims-based measure	IQR	Inpatient Quality Reporting
CCN	CMS Certification Number	MFT	Managed File Transfer
CCSQ	Center for Clinical Standards & Quality	MSPB	Medicare Spending per Beneficiary
CMS	Centers for Medicare & Medicaid Services	PHI	protected health information
COPD	Chronic Obstructive Pulmonary Disease	PII	personally identifiable information
ECE	extraordinary circumstance exception	PN	pneumonia
FFS	fee for service	Q	quarter
FY	fiscal year	RSCR	Risk-Standardized Complication Rate
HARP	HCQIS Access Role and Profile	RSMR	Risk-Standardized Mortality Rate
HCQIS	Health Care Quality Information System	THA	Total Hip Arthroplasty
HF	heart failure	TKA	Total Knee Arthroplasty
HIPPA	Health Insurance Portability and Accountability Act	VBP	value-based purchasing
HQR	Hospital Quality Reporting	VIQR	Value, Incentives, and Quality Reporting

Maria Gugliuzza, MBA, Hospital VBP Program Lead Inpatient VIQR Outreach and Education Support Contractor

Included Measures and Important Notes

HSR Overview

• **Purpose of Report**: HSRs are provided for claims-based measures (CBMs) so that hospitals may review and request correction to the calculations of the performance period measure results prior to the results being used to calculate a hospital's Total Performance Score.

Included Measures:

- Hospital 30-Day, All-Cause, Risk-Standardized Mortality Rate (RSMR)
 Following:
 - Acute Myocardial Infarction (AMI) Hospitalization
 - Chronic Obstructive Pulmonary Disease (COPD) Hospitalization
 - Coronary Artery Bypass Graft (CABG) Surgery
 - Heart Failure (HF) Hospitalization
 - Pneumonia (PN) Hospitalization
- Hospital 90-Day, Risk-Standardized Complication Rate (RSCR)
 Following Primary Elective Total Hip Arthroplasty (THA) and/or
 Total Knee Arthroplasty (TKA)

Hospital VBP Program FY 2024 Measurement Periods

Measure	Performance Period	Updated Discharge Period*
 Hospital 30-Day, All-Cause, RSMR Following: AMI Hospitalization COPD Hospitalization CABG Surgery HF Hospitalization 	July 1, 2019–June 30, 2022	July 1, 2019–December 1, 2019, July 1, 2020-June 30, 2022*
Hospital 90-Day, RSCR Following: • Primary Elective THA and/or TKA	Apr. 1, 2019– March 31, 2022	Apr. 1, 2019–October 2, 2019, July 1, 2020–March 31, 2022*

^{*}In response to the COVID-19 public health emergency, CMS is not using claims data reflecting services provided January 1, 2020—June 30, 2020 (Q1 and Q2 2020) in its calculations for the Medicare quality reporting programs. The discharge period in this report has been updated to reflect this policy.

Performance Period Due to COVID-19 Exception

- In response to the COVID-19 public health emergency, CMS is not using claims data reflecting services provided January 1, 2020–June 30, 2020 (Q1 and Q2 2020) in its calculations for the Medicare quality reporting programs. The reporting periods for readmission, mortality, complication, payment, and EDAC measures have been updated to reflect this policy. This change was finalized in FY 2022 Hospital Inpatient Prospective Payment System/Long-Term Care Hospitals Prospective Payment System (IPPS/LTCH PPS) final rule.
- The AMI, COPD, HF, and CABG measures identify deaths within 30 days of each index stay, and the THA/TKA payment measure identifies complications within 90 days of each index stay; therefore, the discharge periods for the mortality measures and the complication measure end 30 days and 90 days, respectively, before January 1, 2020, so that no claims from Q1 and Q2 2020 are used in the measure calculations.
- Hospitals do **not** need to request an Extraordinary Circumstance Exception (ECE) for measures and submissions covered under the COVID-19 exception for Q1 and Q2 2020.

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Important Dates

- Hospital VBP Program HSRs were delivered April 13, 2023.
- The review and correction period for FY 2023 Hospital VBP Program HSRs is April 14-May 15, 2023.

FY 2024 Baseline Measures Reports

Only performance period data will be included in the HSR for the Hospital VBP Program.

- Baseline period data are displayed on your hospital's Baseline Measures Report.
- The FY 2024 Baseline Measures Report was first made available in June of 2022.
- You can access your hospital's FY 2024 Baseline through the *Hospital Quality Reporting (HQR) Secure Portal*: https://hqr.cms.gov/hqrng/login

Coming Soon: Public Reporting CBM HSRs

- CMS anticipates the Public Reporting CBM HSRs will be delivered to hospitals in late April or early May 2023.
- CMS will provide notification of HSR delivery through these Notification Listserve groups:
 - HIQR Notify: Hospital Inpatient Quality Reporting (IQR)
 Program Notifications
 - HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications
- Sign up for those Listserve groups on QualityNet: <u>https://qualitynet.cms.gov/listserv-signup</u>

Coming Soon: Medicare Spending per Beneficiary (MSPB) HSRs

- CMS anticipates the MSPB HSRs will be available to hospitals in May/June 2023.
- CMS will provide notification of HSR delivery through these Notification Listserve groups:
 - HIQR Notify: Hospital Inpatient Quality Reporting (IQR)
 Program Notifications
 - HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications
- Sign up for those Listserve groups on QualityNet: <u>https://qualitynet.cms.gov/listserv-signup</u>

Contacts for Questions

You can submit questions regarding measures, HSRs, and the Hospital VBP Program through the Questions and Answers Tool on QualityNet. Include your hospital's six-digit CMS Certification Number (CCN). Use these programs and topics when submitting questions through the tool.

Question Topic	Program Selection	Topic Selection
Mortality Measure Methodology	Inpatient Claims-Based Measures	Morality > Understanding Measure Methodology
Complication Measure Methodology	Inpatient Claims-Based Measures	Complication > Understanding Measure Methodology
Data or Calculations in HSR	Inpatient Claims-Based Measures	HVBP Mortality & Complication > Question About Results
Review and Correction Request	Inpatient Claims-Based Measures	HVBP Mortality & Complication > Review & Correction Request
Request to Resend an HSR	Inpatient Claims-Based Measures	HVBP Mortality & Complication > Request for HVBP HSRs
Hospital VBP Program, COVID-19 Exception, and Individual ECE Requests	HVBP – Hospital Value Based Purchasing	General information (HVBP)

If your profile had a Health Care Quality Information System (HCQIS) Access Role and Profile (HARP) account with access to Managed File Transfer (MFT) permissions prior to April 8, 2023, and you cannot download your report, please contact the CCSQ Service Center.

Email: QNetSupport@cms.hhs.gov

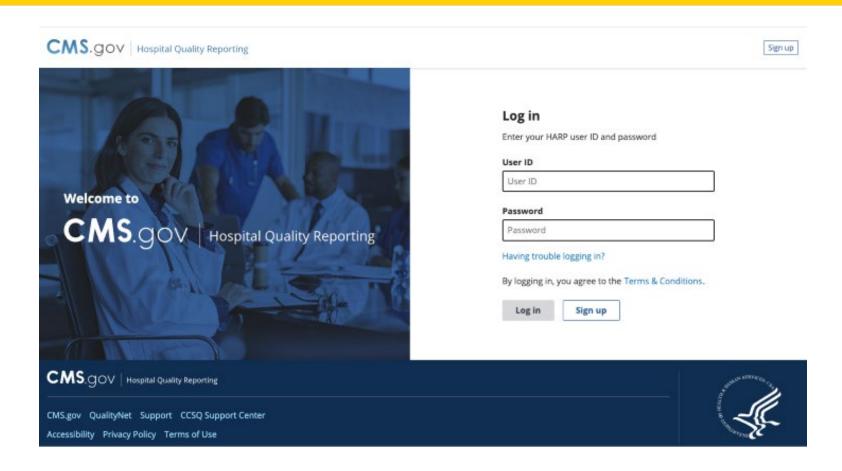
Phone: (866) 288-8912 (TTY: 877.715.6222) Weekdays 8 a.m. to 8 p.m. Eastern Time

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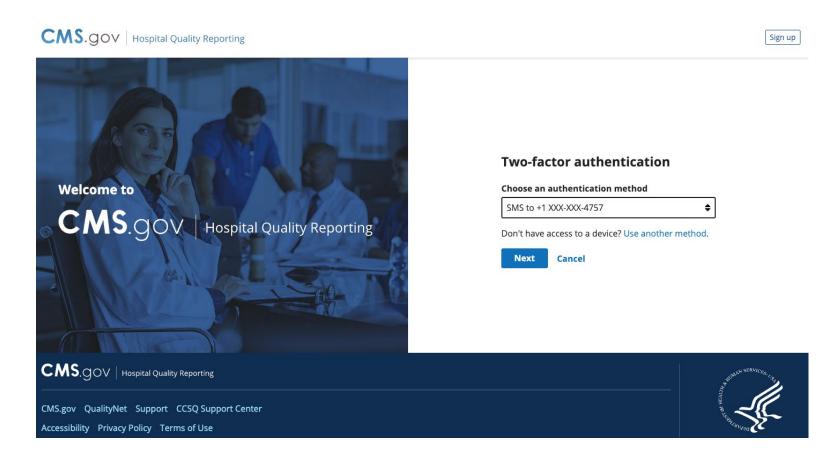
Accessing the HSRs and User Guide

How to Access Your HSR

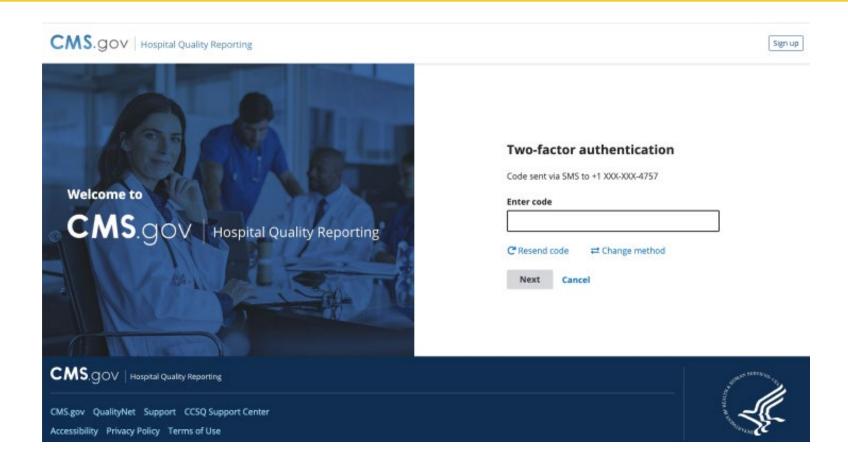
- A Listserve communication was sent via email to those who are registered for the HIQR Notify: Hospital Inpatient Quality Reporting (IQR) Program Notifications and the HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications Listserve groups on QualityNet announcing the reports would be available no later than April 4th.
- The FY2024 Hospital VBP Program Mortality and Complication HSRs can now be downloaded directly from the Hospital Quality Reporting (HQR) system: https://hqr.cms.gov/hqrng/login
- The HQR system requires users to have a Health Care Quality Improvement System (HCQIS) Access Roles and a Profile (HARP) account with access to MFT to log on.



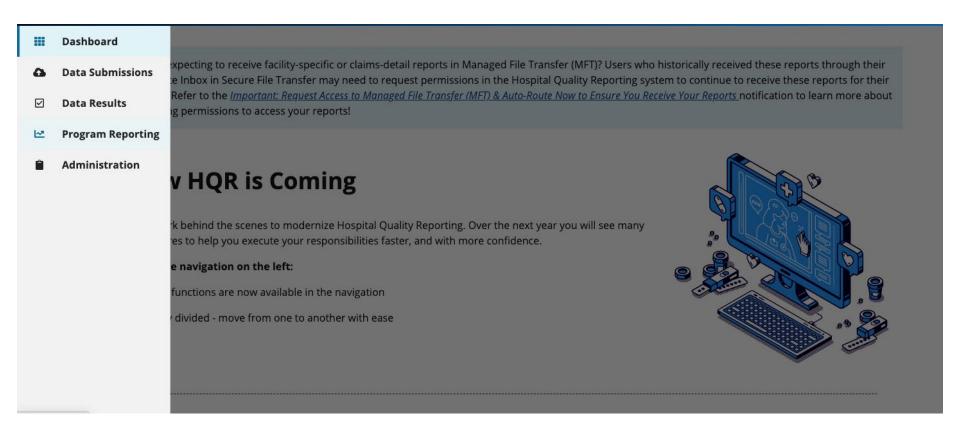
Step 1a: Log into the HQR System using your HARP account



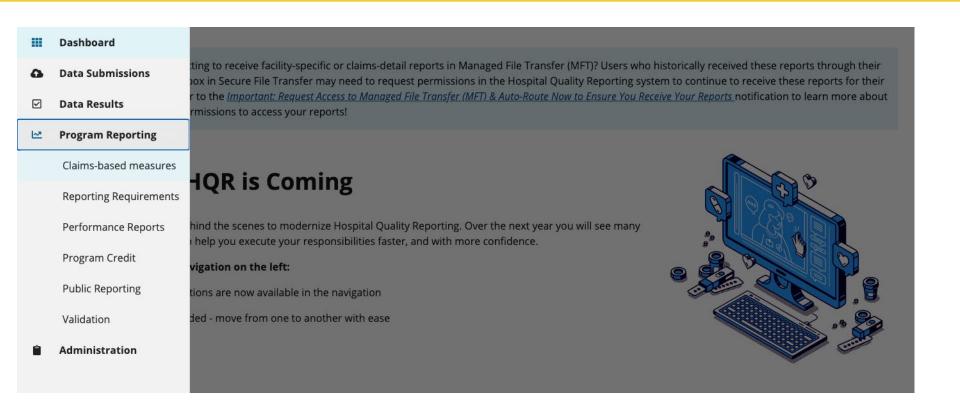
Step 1b: Choose the authentication method



Step 1c: Enter your code

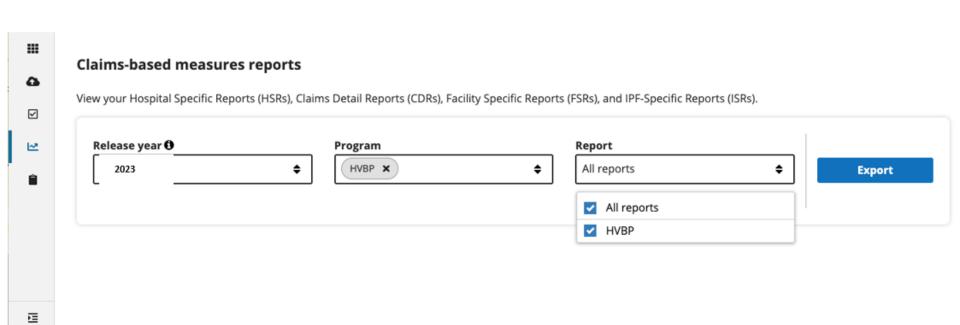


Step 2a: Go to the navigation menu on the left side of your screen



Step 2b: Select Program Reporting and then select Claims-based measures

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Step 2c: Select the Release year, Program as HVBP and the report

HSR User Guide

The FY2024-HVBP-Mortality-Complication-HUG.pdf is the User Guide accompanying the HSRs with additional information about the measure data.

The User Guide is also available on *QualityNet*: https://qualitynet.cms.gov/inpatient/measures/hvbp-mortality-complication/resources.

Kristina Burkholder, MS, CAS

Measure Implementation and Stakeholder Communication Lead Hospital Outcome Measure Development, Reevaluation, and Implementation Contractor

COVID-19 Impacts on the Mortality and Complication Measures

Cohort

- The mortality and complication measures being reported in Spring 2023 continue to exclude index admissions with either:
 - Principal diagnosis of COVID-19 (ICD-10-CM code U07.1)

OR

 Secondary diagnosis code of COVID-19 coded as Present on Admission (POA) on the index admission claim.

Risk Adjustment

- The mortality and complication measures continue to risk adjust for a "History of COVID-19" variable defined as any of the following codes:
 - ICD-10-CM code U07.1 as principal or secondary diagnosis on a historical claim
 - ICD-10-CM code Z86.16, personal history of COVID-19, as a secondary diagnosis on the index or historical claim
 - ICD-10-CM code J12.82 Pneumonia due to coronavirus disease (newly added)
 - ICD-10-CM code U09.9 Post COVID-19 condition, unspecified (newly added)

Mortality Outcomes

 Patients who died from COVID-19 within 30 days continue to <u>not</u> be excluded from the outcome since data on the cause of death is not available.

THA/TKA Complication Outcome

- Remove admissions with a principal or with a secondary diagnosis of COVID-19 coded as Present on Admission (POA) for only the following complications:
 - >AMI
 - ➤ Pneumonia or other acute respiratory complication
 - > Sepsis/septicemia/shock
 - ➤ Pulmonary Embolism
- Patients with a principal or secondary diagnosis of COVID-19 and the following complications will remain in the outcome: mortality, mechanical and wound complication, or surgical site bleeding.

Angie Drake Hospital Quality Reporting Analytics Team

Hospital VBP Program Mortality HSRs

Table 1 Hospital Results

Table 1. 30-Day Mortality Measure Results for the Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: July 1, 2019 through December 1, 2019, and July 1, 2020 through June 30, 2022 for AMI, COPD, HF, Pneumonia and CABG measures

Measure	Number of Eligible Discharges [a]	Performance Period Survival Rate [b]	Achievement Threshold [c]	Benchmark [d]
AMI 30-Day Mortality	7	0.872530	0.869247	0.887868
COPD 30-Day Mortality	1	0.906502	0.916491	0.934002
HF 30-Day Mortality	11	0.886902	0.882308	0.907733
Pneumonia 30-Day Mortality	41	0.823489	0.840281	0.872976
CABG 30-Day Mortality	2	0.970721	0.969499	0.980319

[a] Final number of discharges from your hospital used for measure calculation.

Results for hospitals with fewer than 25 eligible discharges will not be used to calculate the score for that measure for the FY 2024 Hospital VBP Performance period: your results are presented here for your information.

- [b] FY 2024 Performance Period Survival Rate = 1 Risk Standardized Mortality Rate (RSMR). See Table 2 for RSMR.
- [c] Achievement Threshold = the median survival rate among all hospitals with measure results that meet the minimum case size (n=25) during the FY 2024 baseline period (July 1, 2014 June 30, 2017 for AMI, COPD, HF, Pneumonia and CABG measures).
- [d] Benchmark = the mean of the top decile of survival rates among all hospitals with measure results that meet the minimum case size (n=25) during the FY 2024 baseline period (July 1, 2014 June 30, 2017 for AMI, COPD, HF, Pneumonia and CABG measures).

Notes:

- N/A = Your hospital had no qualifying cases for the measure.
- 2. AMI = acute myocardial infarction; COPD = chronic obstructive pulmonary disease; HF = heart failure; CABG = coronary artery bypass graft

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Table 2 Additional Information

Table 2. Additional Information for Replicating Your Hospital's Risk-Standardized Mortality Results for the Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: July 1, 2019 through December 1, 2019, and July 1, 2020 through June 30, 2022 for AMI, COPD, HF, Pneumonia and CABG measures

Measure	Number of Eligible Discharges [a]	Predicted Deaths [b]	Expected Deaths [c]	National Observed Mortality Rate [d]	Risk-Standardized Mortality Rate [e]	Performance Period Survival Rate [f]
AMI 30-Day Mortality	7	2.33	2.29	0.125528	0.127470	0.872530
COPD 30-Day Mortality	1	0.16	0.16	0.094448	0.093498	0.906502
HF 30-Day Mortality	11	1.31	1.39	0.119600	0.113098	0.886902
Pneumonia 30-Day Mortality	41	9.16	9.59	0.184785	0.176511	0.823489
CABG 30-Day Mortality	2	0.03	0.03	0.029453	0.029279	0.970721

- [a] Final number of discharges from your hospital used for measure calculation.
- [b] The number of predicted deaths within 30 days from admission, on the basis of your hospital's performance with its observed case mix and your hospital's estimated effect on mortality (provided in your hospital discharge-level data). The numbers of predicted deaths are not whole numbers because they are generated from a statistical model.
- [c] The number of expected deaths within 30 days of admission, on the basis of average hospital performance with your hospital's case mix and the average hospital effect (provided in your hospital discharge-level data). The numbers of expected deaths are not whole numbers because they are generated from a statistical model.
- [d] National Observed Mortality Rate = (Number of observed 30-day deaths nationally / Number of eligible discharges nationally).
- [e] Risk-Standardized Mortality Rate (RSMR) = (Predicted Deaths / Expected Deaths) * National Observed Mortality Rate.
- [f] Performance Period Survival Rate = (1 RSMR).

Notes:

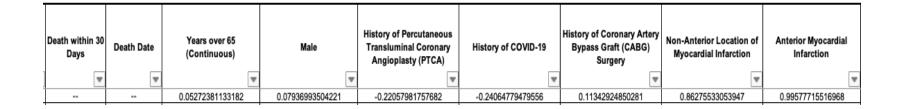
- 1. The information in this table is provided only to help in replicating your hospital's survival rate in Table 1; other than the number of eligible discharges and the survival rate, information in this table will not be publicly reported.
- 2. See the Replication Instructions provided as part of the Hospital VBP Program HSR User Guide for more information for replicating your hospital's risk-standardized mortality measure results.
- 3. N/A = Your hospital had no qualifying cases for the measure.
- 4. AMI = acute myocardial infarction; COPD = chronic obstructive pulmonary disease; HF = heart failure; CABG = coronary artery bypass graft

Tables 3, 4, 5 and 6 Discharge Tables

ID Number	HICNO [a]	MBI [a]	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Principal Diagnosis	Discharge Destination	Index Stay (Yes/No)
₩	▼	▼	▼	₩	₩	▼	₩	▼	₩
			-						
1	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1213	20	Yes
2	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	2	Yes
3	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	20	Yes
4	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	1	Yes
5	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	62	Yes
6	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	1	Yes
7	999999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	12109	63	Yes
8	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	1214	1	No

- The discharge tables contain discharge-level data for all Part A
 Medicare FFS patients with a principal qualifying diagnosis of AMI,
 COPD, HF or CABG accordingly; patients with a discharge date in
 the reporting period; and patients age 65 and above at the time of
 admission.
- The **ID Number** is provided for use if needed to reference records in this table in an email or otherwise, so that sharing of personally identifiable information (PII) or PHI is avoided.

Tables 3, 4, 5 and 6 Discharge Tables



Row 8 in the HSR contains the model coefficients for each risk factor, which are estimates over data for all hospitals.

Understanding the Mortality Calculations Through Replication

The replication process for the Mortality measures includes the following steps:

- Calculate predicted deaths
- Calculate expected deaths
- Calculate the risk-standardized mortality rate
- Calculate the performance period survival rate

Understanding Your Mortality Calculation – Calculate Predicted Deaths

ID Number	HICNO	MBI [a] ▼	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Principal Diagnosis	Discharge Destination	Index Stay (Yes/No)
1	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	J9621	1	Yes
2	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	J9601	6	Yes
3	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	J9692	6	Yes
4	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	J9601	6	Yes
5	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	J440	6	Yes

Limit your replication calculations to rows where "INDEX STAY" (column J) equals "YES." In this example, "INDEX STAY" of "YES" is represented by discharges for ID 1 and 2.

Understanding Your Mortality Calculation – Calculate Predicted Deaths

	Α	J	K	L	N	0	P	Q	
6									
	ID Number	Index Stay (Yes/No)	Inclusion/ Exclusion Indicator	Death within 30 Days	Years over 65 (continuous)	History of mechanical ventilation	Metastatic cancer and acute leukemia	Lung and other severe cancers	
7	Ψ.	Ψ.	*	*	¥	*	₹	Ψ.	
8					0.03405420316912	0.19357141934084	0.94550633345284	0.45705131037565	
9	1	Yes	0	No	3	1	0	0	
10	2	Yes	0	No	4	0	0	0	
11	3	Yes	0	No	12	0	0	0	
12	4	Yes	0	No	9	0	0	0	
13	5	Yes	0	No	21	0	0	0	
14 15		Patient ID Multiply each risk factor flag where Index Stay = "YES" rows by the revelant coefficient found in Row 8							
16				1		=O\$8O9	=P\$8*P9	0	
17		2		=N\$8*N10	=O\$8O10 0		0		
18		3		=N\$8*N11	0	0	0		
19		4		0.306487829	0	0	0		
20				5	0.715138267	0	0	0	

Understanding Your Mortality Calculation – Calculate Predicted Deaths

\square	BA	ВВ	ВС	BD	BE	BF
6					•	
	Vertebral fractures without spinal cord injury	Major complications of medical care and trauma	HOSP_EFFECT	AVG_EFFECT		
7	•	_	•	~		
8	0.20603423767796	-0.08732758666131	-3.06119895737601	-3.03377739121104		
9	0	0	-	-		
10	0	0	-	-		
11	0	0	-	-		
12	0	1	-	-		
13	0	1	-	-		
14						ADD
15	_				SUM	HOSP_EFFECT
16	0	0			=SUM(N16:BB16)	=BE16+BC\$8
17	0	0			-0.17718542905313	
18	0	0			-0.47079752497354	
19	0	-0.087327587			1.81212958895791	
20	0	-0.087327587			1.27145398299867	-1.78974497437734

Understanding Your Mortality Calculation – Calculate Predicted Deaths

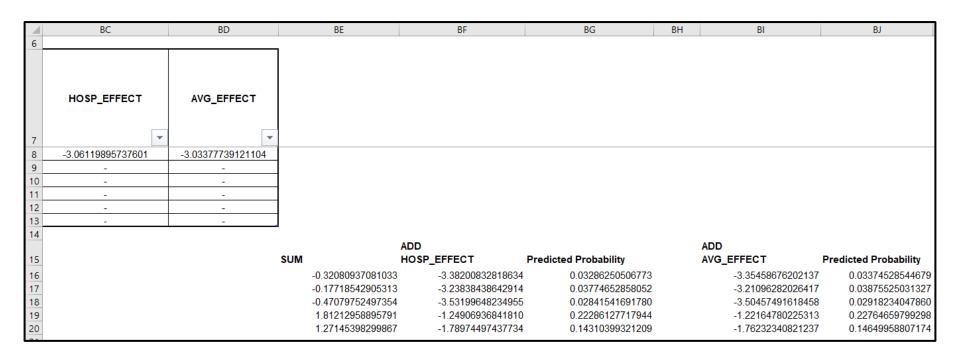
\square	BA	ВВ	BC	BD		BE	BF	BG
6					1			
	Vertebral fractures without spinal cord injury	Major complications of medical care and trauma	HOSP_EFFECT	AVG_EFFECT				
7	-	▼	▼	~				
8	0.20603423767796	-0.08732758666131	-3.06119895737601	-3.03377739121104				
9	0	0	-	-]			
10	0	0	-	-]			
11	0	0	-	-]			
12	0	1	-	-]			
13	0	1	-	-	Į .			
14								
							ADD	
15					SUM		HOSP_EFFECT	Predicted Probability
16 17	0	0				-0.32080937081033		=(1/(1+EXP(-1*BF16)))
17	0	0				-0.17718542905313		
18	0	0				-0.47079752497354		
19	0	-0.087327587				1.81212958895791	-1.24906936841810	0.22286127717944
20	0	-0.087327587				1.27145398299867	-1.78974497437734	0.14310399321209

Predicted probability for each discharge = (1/(1+EXP(-1 * Add HOSP EFFECT results)))

Understanding Your Mortality Calculation – Calculate Predicted Deaths

	ADD					
SUM	HOSP_EFFECT	Predicted Probability				
-0.32080937081033	-3.38200832818634	0.03286250506773				
-0.17718542905313	-3.23838438642914	0.03774652858052				
-0.47079752497354	-3.53199648234955	0.02841541691780				
1.81212958895791	-1.24906936841810	0.22286127717944				
1.27145398299867	-1.78974497437734	0.14310399321209				
		Predicted Deaths				
	=SUM(BG16:BG20)	0.46498972095758				
	Rounded	0.46				

Understanding Your Mortality Calculation – Calculate Expected Deaths

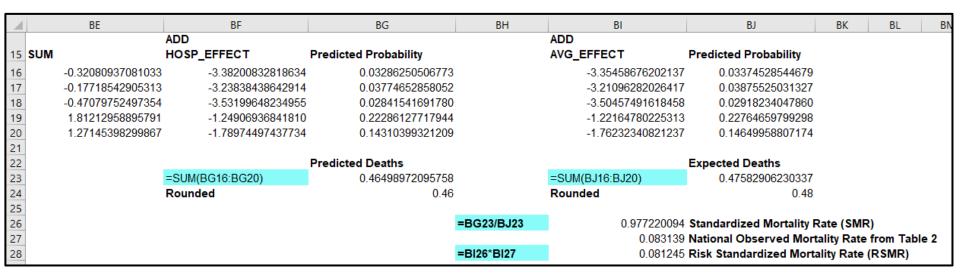


Expected probability for each discharge = (1/(1+exp(-1 * Add AVG EFFECT results)))

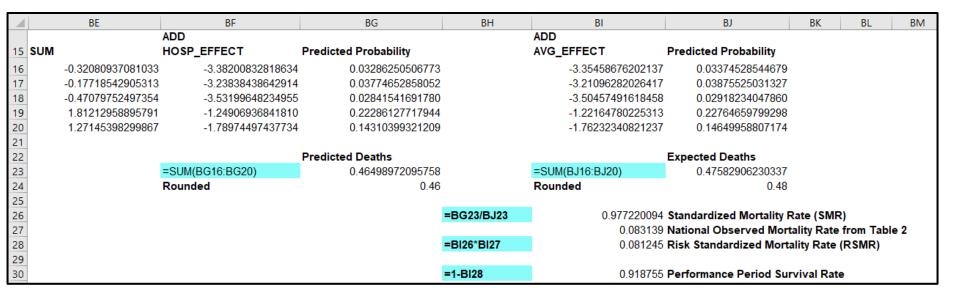
Understanding Your Mortality Calculation – Calculate Expected Deaths

ADD	
AVG_EFFECT	Predicted Probability
-3.35458676202137	0.03374528544679
-3.21096282026417	0.03875525031327
-3.50457491618458	0.02918234047860
-1.22164780225313	0.22764659799298
-1.76232340821237	0.14649958807174
	Evenated Deaths
	Expected Deaths
=SUM(BJ16:BJ20)	0.47582906230337
Rounded	0.48

Calculate the Risk-Standardized Mortality Rate



Calculate the Performance Period Survival Rate



Angie Drake Hospital Quality Reporting Analytics Team

Hospital VBP Program Complication HSRs

Table 1 Hospital Results

Table 1. 90-Day Risk-Standardized THA/TKA Complication Measure Results for the Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: April 1, 2019 through October 2, 2019, and July 1, 2020 through March 31, 2022

Measure	Measure Number of Eligible Discharges [a]		Achievement Threshold [c]	Benchmark [d]
THA/TKA Complication	3	0.034662	0.025396	0.018159

[a] Final number of discharges from your hospital used for measure calculation.

Results for hospitals with fewer than 25 eligible discharges will not be used to calculate the score for that measure for the FY 2024 Hospital VBP Performance period; your results are presented here for your information.

- [b] FY 2024 Risk-Standardized Complication Rate = (Predicted Admissions with a Complication / Expected Admissions with a Complication)
- * National Observed Complication Rate. See Table 2 for additional information.
- [c] Achievement Threshold = the median complication rate among all hospitals with measure results and minimum case size (n=25) during the FY 2024 baseline period (April 1, 2014 - March 31, 2017).
- [d] Benchmark = the mean of the top decile of complication rates among all hospitals with measure results and minimum case size (n=25) during the FY 2024 baseline period (April 1, 2014 March 31, 2017).

Notes:

- N/A = Your hospital had no qualifying discharges or results for the procedure.
- 2. THA/TKA = total hip arthroplasty/total knee arthroplasty

Table 2 Additional Information

Table 2. Additional Information for Replicating Your Hospital's Risk-Standardized THA/TKA Complication Results for the Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: April 1, 2019 through October 2, 2019, and July 1, 2020 through March 31, 2022

Measure	Measure Number of Eligible Discharges [a] w		Expected Admissions with a Complication [c]	National Observed Complication Rate [d]	Risk-Standardized Complication Rate [e]	
THA/TKA Complication	3	0.14	0.13	0.031737	0.034662	

[a] Final number of discharges from your hospital used for measure calculation.

[b] The number of predicted complications within 90 days from the start of the index admission, on the basis of your hospital's performance with its observed case mix and your hospital's estimated effect on complications (provided in your hospital discharge-level data). The numbers of predicted complications are not whole numbers because they are generated from a statistical model. A patient may have more than one complication associated with an index admission, but only one complication is counted in the raw complication rate.

[c] The number of expected complications within 90 days of the index admission, on the basis of average hospital performance with your hospital's case mix and the average hospital effect (provided in your hospital discharge-level data). The numbers of expected complications are not whole numbers because they are generated from a statistical model. A patient may have more than one complication associated with an index admission, but only one complication is counted in the raw complication rate.

[d] National Observed Complication Rate = (Number of observed 90-day complications nationally / Number of eligible discharges nationally).

[e] Risk-Standardized Complication Rate = (Predicted Admissions with a Complication / Expected Admissions with a Complication) * National Observed Complication Rate.

Notes:

- The information in this table is provided only to help in replicating your hospital's complication rate in Table 1; other than the number of eligible discharges and the complication rate, information in this table will not be publicly reported.
- See the Replication Instructions provided as part of the Hospital VBP Program HSR User Guide for more information for replicating your hospital's risk-standardized THA/TKA Complication results.
- 3. N/A = Your hospital had no qualifying discharges or results for the procedure.
- 4. THA/TKA = total hip arthroplasty/total knee arthroplasty

Table 3 Discharges

ID Number	HICNO	MBI [a] ▼	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Index Stay (Yes/No)	Additional Complication Record (Yes/No) [b]	Complication Excluded Due to COVID-19 (Yes/No) [c]	Inclusion/ Exclusion Indicator	TKAs Performed	Number of THAs Performed (0, 1, or 2)	Patient Had a Complication (Yes/No)
1	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes
2	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	Yes	No	0	1	0	Yes
3	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	Yes	No	0	1	0	Yes
4	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	0	1	Yes
5	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	0	1	Yes
6	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes
7	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes

- The discharge table contains discharge-level data for Part A Medicare FFS patient stays.
- There are several columns unique to the THA/TKA Complication HSR.
- The same stay can appear multiple times on your Discharges tab if the patient has more than one complication. However, the stay is only included once in the calculation of the measure.

Table 3 Discharges Complication Fields

Patient Had a Complication (Yes/No)	Complication	Complication Occurred During Index Stay (Yes/No)	Admit Date for Complication (If Not During Index Stay)		Readmission to Same Hospital (Yes/No)	Provider ID of Readmitting Hospital [d]	
Yes	Mechanical complication	No	99/99/9999	N/A	No	888888	
Yes	Infection	No	99/99/9999	N/A	No	888888	
No	N/A	N/A	N/A	N/A	N/A	N/A	
No	N/A	N/A	N/A	N/A	N/A	N/A	
No	N/A	N/A	N/A	N/A	N/A	N/A	
No	N/A	N/A	N/A	N/A	N/A	N/A	

Understanding the Calculations Through Replication

ID Number	HICNO	MBI [a] ▼	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Index Stay (Yes/No)	Additional Complication Record (Yes/No) [b]	Complication Excluded Due to COVID-19 (Yes/No) [c]	Inclusion/ Exclusion Indicator	Number of TKAs Performed (0, 1, or 2)	THAs Performed	Patient Had a Complication (Yes/No)	Complication
1	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes	Sepsis
2	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	Yes	No	0	1	0	Yes	Pneumonia
3	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	Yes	No	0	1	0	Yes	Death
4	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	0	1	Yes	Pneumonia
5	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	0	1	Yes	Pulmonary embolism
6	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes	AMI
7	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	1	0	Yes	Pulmonary embolism
8	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	No	0	0	1	Yes	Pneumonia
9	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	N/A	0	0	1	No	N/A
10	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	N/A	0	1	0	No	N/A
11	99999999A	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No	N/A	0	1	0	No	N/A

The replication process for the THA/TKA Complication measure is the same as the Mortality measures with one difference:

In the first step, when you limit your replication calculations to rows where "Index Stay" (column H) equals "Yes," you must also limit them to rows where "Additional Complication Record [c]" (column I) equals "No."

The rest of the replication process would follow the same steps as those outlined for the Mortality measures.

Angie Drake

Hospital Quality Reporting Analytics Team

Hospital VBP Program HSR Review and Correction Requests

- The review and correction period for FY 2024 Hospital VBP Program HSRs is April 14—May 15, 2023.
- A Listserve notification was sent informing hospitals of when HSRs would be available, the review and correction request deadline, and instructions for submitting a review and correction request.
- Review and correction requests sent after the deadline will **not** result in a correction.
- The review and correction period and process are only applicable to the Hospital VBP Program HSRs and do not apply to the *Public Reporting* HSRs, which will be distributed in the upcoming weeks.

To submit a review and correction request:

- Send via email to <u>QNetSupport@cms.hhs.gov</u>, by phone at (866) 288-8912, or over TTY at (877) 715-6222.
- Use the QualityNet Inpatient Question & Answer tool at https://qualitynet.cms.gov/ > Help > Question and Answer Tools: "Hospitals - Inpatient" > Ask a Question
 - Program: Inpatient Claims-Based Measures
 - Topic: HVBP Mortality & Complication > Review & correction request

^{*} Please include your hospital's CCN when submitting your request.

Do not email HSR files or their contents. HSRs contain discharge-level data protected by HIPAA. Any disclosure of PHI should only be in accordance with, and to the extent permitted by, the HIPAA Privacy and Security Rules and other applicable law. Use the ID number found within the HSR when referring to the contents of that report.

What **can** I submit for a review and correction? What **can't** I submit for a review and correction?

- Suspected calculation errors on your report can be submitted for review with the possibility of a correction.
- Requests for submission of new or corrected claims to the underlying data are not allowed; they cannot be submitted.
- General questions about the HSRs, the Mortality measures, or the Complication measures can be submitted.

Reviewing Your FY 2024 Hospital VBP Program Mortality and Complication Measures Hospital-Specific Report

Questions

Disclaimer

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