

### Reviewing Your Fiscal Year 2025 Hospital Value-Based Purchasing Program Mortality and Complication Measures Hospital-Specific Report

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

May 22, 2024

### **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) 2025 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 2025 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	ICD	International Classification of Diseases
СВМ	claims-based measure	MFT	Managed File Transfer
CCN	CMS Certification Number	MSPB	Medicare Spending per Beneficiary
CCSQ	Center for Clinical Standards & Quality	PN	pneumonia
CMS	Centers for Medicare & Medicaid Services	POA	Point of Admission
COPD	Chronic Obstructive Pulmonary Disease	Q	quarter
ECE	extraordinary circumstance exception	RSCR	Risk-Standardized Complication Rate
FFS	fee for service	RSMR	Risk-Standardized Mortality Rate
FY	fiscal year	THA	Total Hip Arthroplasty
HARP	Health Care Quality Information System Access Role and Profile	ТКА	Total Knee Arthroplasty
HF	heart failure	VBP	value-based purchasing
HIPPA	Health Insurance Portability and Accountability Act	VIQR	Value, Incentives, and Quality Reporting
HQR	Hospital 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 2025 Measurement Periods

Measure	Performance Period	Updated Discharge Period*
<ul> <li>Hospital 30-Day, All-Cause,</li> <li>RSMR Following:</li> <li>AMI Hospitalization</li> <li>COPD Hospitalization</li> <li>CABG Surgery</li> <li>HF Hospitalization</li> </ul>	July 1, 2020–June 30, 2023	N/A
<ul> <li>Hospital 90-Day, RSCR</li> <li>Following:</li> <li>Primary Elective THA and/or TKA</li> </ul>	Apr. 1, 2020– March 31, 2023	July 1, 2020–March 31, 2023*

\*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 complication measure 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 final rule.
- The THA/TKA payment measure identifies complications within 90 days of each index stay; therefore, the discharge periods for the complication measure ends 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.

### **Important Dates**

- Hospital VBP Program HSRs were delivered May 9, 2024.
- The review and correction period for FY 2025 Hospital VBP Program HSRs is May 9– June 10, 2024.

## FY 2025 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 2025 Baseline Measures Report was first made available in March of 2024.
- You can access your hospital's FY 2025 Baseline through the Hospital Quality Reporting (HQR) Secure Portal: <u>https://hqr.cms.gov/hqrng/login</u>

## Coming Soon: Public Reporting CBM HSRs

- CMS anticipates the Public Reporting CBM HSRs will be delivered to hospitals in late April or early May 2024.
- 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 2024.
- 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 <u>Questions and Answers Tool on QualityNet</u>. 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)

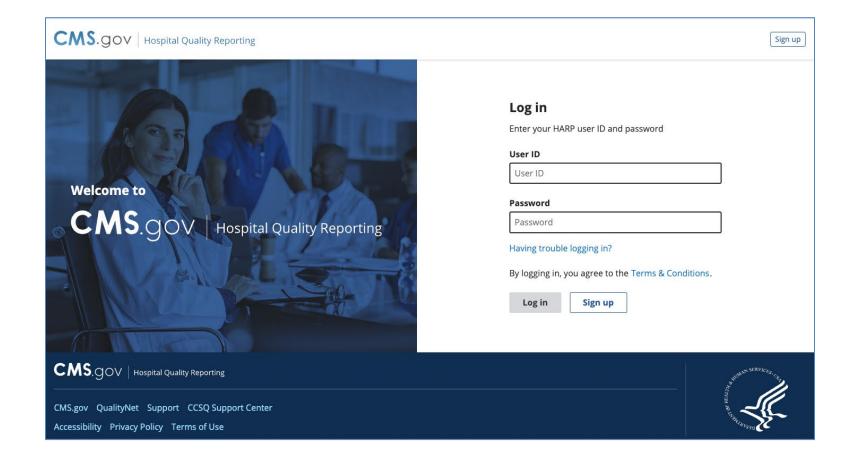
If your profile had a Health Care Quality Information System Access Role and Profile (HARP) account with access to Managed File Transfer (MFT) permissions prior to April 10, 2024, and you cannot download your report, please contact the Center for Clinical Standards & Quality (CCSQ) Service Center at <u>QNetSupport@cms.hhs.gov</u> or (866) 288-8912 (TTY: 877.715.6222) Weekdays 8 a.m. to 8 p.m. Eastern Time.

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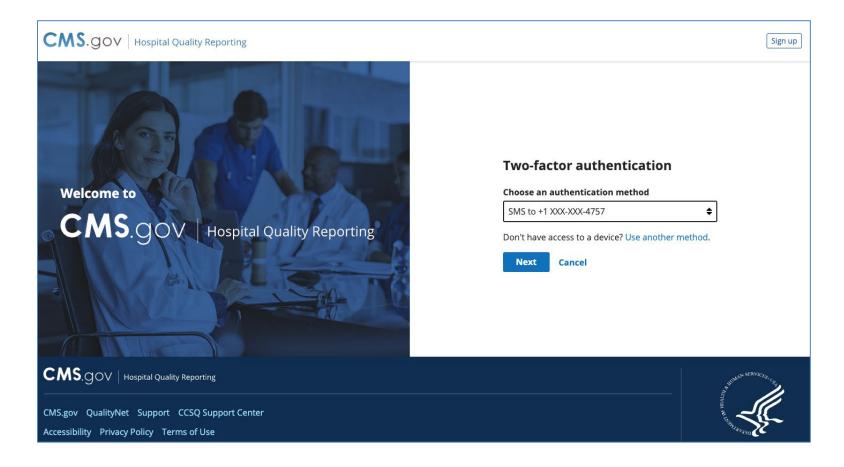
### Accessing the HSRs and User Guide

### How to Access Your HSR

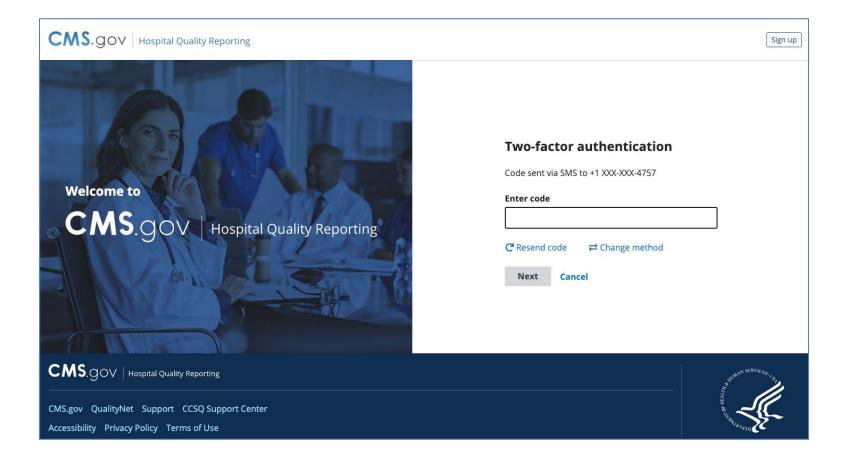
- A Listserve communication was sent via email to those who are registered for the HIQR Notify: Hospital Inpatient Quality Reporting (IQR) Program Notifications and the HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications Listserve groups on *QualityNet* announcing the reports would be available no later than April 4.
- The FY 2025 Hospital VBP Mortality and Complication HSRs can now be downloaded directly from the HQR system: <u>https://hqr.cms.gov/hqrng/login</u>
- The HQR system requires users to have a 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.

	Dashboard	
۵	Data Submissions	xpecting to receive facility-specific or claims-detail reports in Managed File Transfer (MFT)? Users who historically received these reports through their re Inbox in Secure File Transfer may need to request permissions in the Hospital Quality Reporting system to continue to receive these reports for their
	Data Results	Refer to the Important: Request Access to Managed File Transfer (MFT) & Auto-Route Now to Ensure You Receive Your Reports notification to learn more about ig permissions to access your reports!
M	Program Reporting	
	Administration	<pre>subset build build</pre>

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

	Dashboard	
۵	Data Submissions	ting to receive facility-specific or claims-detail reports in Managed File Transfer (MFT)? Users who historically received these reports through their to sox in Secure File Transfer may need to request permissions in the Hospital Quality Reporting system to continue to receive these reports for their
	Data Results	r to the Important: Request Access to Managed File Transfer (MFT) & Auto-Route Now to Ensure You Receive Your Reports notification to learn more about rmissions to access your reports!
M	Program Reporting	
	Claims-based measures	
	Reporting Requirements	HQR is Coming
	Performance Reports	hind the scenes to modernize Hospital Quality Reporting. Over the next year you will see many help you execute your responsibilities faster, and with more confidence.
	Program Credit	vigation on the left:
	Public Reporting	tions are now available in the navigation
	Validation	ded - move from one to another with ease
	Administration	

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

A				
6	Claims-based measures reports			
	View your Hospital Specific Reports (HSRs), Cla	ims Detail Reports (CDRs), Facility Specific Reports (FSRs), and I	F-Specific Reports (ISRs).	
2	Release year <b>ð</b>	Program	Report	
	2023	+ HVBP &	♦ All reports	¢ Export√
			All reports	A
			HVBP	v b

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

<b>Claims-based measures reports</b> View your Hospital Specific Reports (HSRs), C	aims Detail Reports (CDRs), Facility Specific Reports (FSRs), and IPF-S	pecific Reports (ISRs).	
Release year <b>0</b>	Program       ◆	All report	♦ Export ✓ CSV ♥ Excel ▶

### Step 2d: Select your preferred file type for download.

### **HSR User Guide**

The FY2025-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: <u>https://qualitynet.cms.gov/inpatient/measures/hvbp-</u> mortality-complication/resources. Manjiri Joshi, MPH Measure Implementation and Stakeholder Communication Lead Hospital Outcome Measure Development, Reevaluation, and Implementation Coordinator

**COVID-19 Impact on Mortality and Complication Measures** 

# Cohort

The mortality and complication measures reported in Spring 2024 continue to exclude index admissions with either of the following:

- 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
- Personal history of COVID-19 as a secondary diagnosis on the index or historical claim identified by one of the following codes:
  - o ICD-10-CM code Z86.16
  - ICD-10-CM code J12.82 Pneumonia due to coronavirus disease
  - ICD-10-CM code U09.9 Post COVID-19 condition, unspecified

## **Mortality Outcomes**

Patients who died from COVID-19 within 30 days are <u>not</u> excluded from the outcomes since 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 POA for only the following complications:
  - o 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 (cause of death is not available)
  - Mechanical and wound complication, or surgical site bleeding (not conceptually related to COVID-19)

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### **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, 2020 through June 30, 2023

Measure	Number of Eligible Discharges [a]	Performance Period Survival Rate [b]	Achievement Threshold [c]	Benchmark [d]
AMI 30-Day Mortality	7	0.873605	0.872624	0.889994
COPD 30-Day Mortality	16	0.900302	0.915127	0.932236
HF 30-Day Mortality	29	0.889045	0.883990	0.910344
Pneumonia 30-Day Mortality	26	0.781171	0.841475	0.874425
CABG 30-Day Mortality	2	0.971828	0.970100	0.979775

[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 2025 Hospital VBP Performance period; your results are presented here for your information.

[b] FY 2025 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 2025 baseline period (July 1, 2015 - June 30, 2018 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 2025 baseline period (July 1, 2015 - June 30, 2018 for AMI, COPD, HF, Pneumonia and CABG measures).

Notes:

1. 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

### **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, 2020 through June 30, 2023

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	1.00	1.00	0.126399	0.126395	0.873605
COPD 30-Day Mortality	16	1.62	1.58	0.097126	0.099698	0.900302
HF 30-Day Mortality	29	3.67	3.99	0.120667	0.110955	0.889045
Pneumonia 30-Day Mortality	26	5.83	4.83	0.181440	0.218829	0.781171
CABG 30-Day Mortality	2	0.05	0.05	0.028507	0.028172	0.971828

[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	MBI	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Principal Diagnosis	Discharge Destination	Index Stay (Yes/No)	Inclusion/ Exclusion Indicator
-	<b>v</b>	<b>*</b>	-	-	-	-	*	¥	¥
1	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	20	Yes	0

- The discharge tables contain discharge-level data for all Part A Medicare Fee for Service (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 or personal health information is avoided.

## Tables 3, 4, 5 and 6 Discharge Tables

Death within 30 Days	Death Date	Years over 65 (Continuous)	Male	Chronic Liver Disease	HOSP_EFFECT	AVG_EFFECT	
<b>_</b>	-	<b>v</b>	-	<b>•</b>	<b>v</b>	-	
		0.05264004990714	0.10316138020466	0.40319342914279	-3.58751235532285	-3.58746837962789	
Yes	99/99/9999	23	1	0	-	-	

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 ▼	MBI	Medical Record Number	Beneficiary DOB	Admit Date of Index Stay	Discharge Date of Index Stay	Principal Diagnosis	Discharge Destination	Index Stay (Yes/No) ্য
1	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	20	Yes
2	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	Yes
3	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	Yes
4	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	Yes
5	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	Yes
6	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	Yes
7	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	l214	1	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 through 7.

	А	J	K	L	Ν	0	р	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	•	•	•	•	<b>•</b>	<b>•</b>	<b>v</b>	•
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							"YES" rows by the revelant coefficient found	in Row 8
16					=N\$8*N9	=0\$809	=P\$8*P9	0
17						=0\$8010	0	0
18				3	=N\$8*N11	0	0	0
19				4	0.306487829	0	0	0
20				5	0.715138267	0	0	0

	BA	BB	BC	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 15					SUM	ADD HOSP_EFFECT
16	0	0			=SUM(N16:BB16)	=BE16+BC\$8
17	0	0			-0.17718542905313	3 -3.23838438642914
18	0	0			-0.47079752497354	4 -3.53199648234955
19	0	-0.087327587			1.81212958895791	-1.24906936841810
20	0	-0.087327587			1.27145398299867	-1.78974497437734

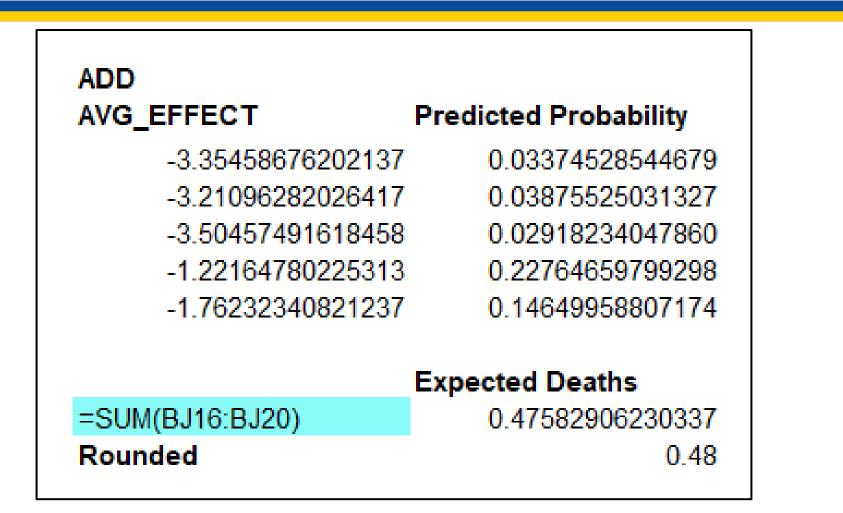
	BA	BB	BC	BD		BE	BF	BG
6					-			
	Vertebral fractures without spinal cord injury	Major complications of medical care and trauma	HOSP_EFFECT	AVG_EFFECT				
7	-	-	•	-				
8	0.20603423767796	-0.08732758666131	-3.06119895737601	-3.03377739121104				
9	0	0	-	-	]			
10	0	0	-	-				
11	0	0	-	-	1			
12	0	1	-	-	4			
13	0	1	-	-				
14							ADD	
15					SUM		HOSP_EFFECT	Predicted Probability
16	0	0				-0.32080937081033		=(1/(1+EXP(-1*BF16)))
17	0	0				-0.17718542905313		
18	0	0				-0.47079752497354	-3.53199648234955	0.02841541691780
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)))

SUM	ADD HOSP EFFECT	Predicted Probability
-0.32080937081033	-3.38200832818634	0.03286250506773
-0.17718542905313		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

	BC	BD		BE	BF	BG	BH	BI	BJ
6			_						
	HOSP_EFFECT	AVG_EFFECT							
7	-	v	1						
8	-3.06119895737601	-3.03377739121104	1						
9	-	-	]						
10	-	-	]						
11	-	-							
12	-	-							
13	-	-							
14					ADD			ADD	
15			SUM		HOSP_EFFECT	Predicted Probability		AVG_EFFECT	Predicted Probability
16				-0.32080937081033	-3.38200832818634	0.03286250506773	3	-3.35458676202137	0.03374528544679
17				-0.17718542905313	-3.23838438642914	0.03774652858052	2	-3.21096282026417	0.03875525031327
18				-0.47079752497354	-3.53199648234955	0.02841541691780	)	-3.50457491618458	0.02918234047860
19				1.81212958895791	-1.24906936841810			-1.22164780225313	
20				1.27145398299867	-1.78974497437734	0.14310399321209	)	-1.76232340821237	0.14649958807174

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



## Calculate the Risk-Standardized Mortality Rate

	BE	BF	BG	BH	BI	BJ	BK	BL	BN
		ADD			ADD				
15	SUM	HOSP_EFFECT	Predicted Probability		AVG_EFFECT	Predicted Probability			
16	-0.32080937081033	-3.38200832818634	0.03286250506773		-3.35458676202137	0.03374528544679			
17	-0.17718542905313	-3.23838438642914	0.03774652858052		-3.21096282026417	0.03875525031327			
18	-0.47079752497354	-3.53199648234955	0.02841541691780		-3.50457491618458	0.02918234047860			
19	1.81212958895791	-1.24906936841810	0.22286127717944		-1.22164780225313	0.22764659799298			
20	1.27145398299867	-1.78974497437734	0.14310399321209		-1.76232340821237	0.14649958807174			
21									
22			Predicted Deaths			Expected Deaths			
23		=SUM(BG16:BG20)	0.46498972095758		=SUM(BJ16:BJ20)	0.47582906230337			
24		Rounded	0.46		Rounded	0.48			
25									
26				=BG23/BJ23	0.977220094	Standardized Mortality	Rate (SMF	र)	
27					0.083139	National Observed Mor	tality Rate	from Tab	ole 2
28				=BI26*BI27	0.081245	Risk Standardized Mort	ality Rate	(RSMR)	

## Calculate the Performance Period Survival Rate

1		BE	BF	BG	BH	BI	BJ	BK	BL	BM
			ADD			ADD				
15	SUM		HOSP_EFFECT	Predicted Probability		AVG_EFFECT	Predicted Probability			
16		-0.32080937081033	-3.38200832818634	0.03286250506773		-3.35458676202137	0.03374528544679			
17		-0.17718542905313	-3.23838438642914	0.03774652858052		-3.21096282026417	0.03875525031327			ľ
18		-0.47079752497354	-3.53199648234955	0.02841541691780		-3.50457491618458	0.02918234047860			ľ
19		1.81212958895791	-1.24906936841810	0.22286127717944		-1.22164780225313	0.22764659799298			ľ
20		1.27145398299867	-1.78974497437734	0.14310399321209		-1.76232340821237	0.14649958807174			ľ
21										ľ
22				Predicted Deaths		Expected Deaths				ľ
23			=SUM(BG16:BG20)	0.46498972095758		=SUM(BJ16:BJ20)	0.47582906230337			ľ
24			Rounded	0.46		Rounded	0.48			ľ
25										
26					=BG23/BJ23	0.977220094	Standardized Mortality	Rate (SMR	2)	ľ
27						0.083139	National Observed Mor	tality Rate	from Tal	ole 2
28					=BI26*BI27	0.081245	Risk Standardized Mort	ality Rate	(RSMR)	
29										
30					=1-BI28	0.918755	Performance Period Su	rvival Rate	•	

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### **Hospital VBP Program Complication HSRs**

# **Table 1 Hospital Results**

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

#### HOSPITAL NAME

Hospital Discharge Period: July 1, 2020 through March 31, 2023

Measure	Number of Eligible Discharges [a]	Risk-Standardized Complication Rate [b]	Achievement Threshold [c]	Benchmark [d]
THA/TKA Complication	5	0.032127	0.025332	0.017946

[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 2025 Hospital VBP Performance period; your results are presented here for your information.

[b] FY 2025 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 2025 baseline period (April 1, 2015 - March 31, 2018).

[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 2025 baseline period (April 1, 2015 - March 31, 2018).

Notes:

1. 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: July 1, 2020 through March 31, 2023

Measure	Number of Eligible Discharges [a]	Predicted Admissions with a Complication [b]	Expected Admissions with a Complication [c]	National Observed Complication Rate [d]	Risk-Standardized Complication Rate [e]	
THA/TKA Complication	5	<mark>0</mark> .18	<mark>0</mark> .16	0.028727	0.032127	

[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:

1. 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.

2. See the Replication Instructions provided as part of the Hospital VBP Program HSR User Guide for more information for replicating your hospital's riskstandardized THA/TKA Complication results.

3. N/A = Your hospital had no qualifying discharges or results for the procedure.

THA/TKA = total hip arthroplasty/total knee arthroplasty

# **Table 3 Discharges**

ID Number ▼	MBI	Medical Record Number	Beneficiary DOB ~	Admit Date of Index Stay	Discharge Date of Index Stay	Index Stay (Yes/No)	Additional Complication Record (Yes/No) [a]
1	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
2	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	Yes
3	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
4	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No

- 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

Complication	Complication Occurred During Index Stay (Yes/No)	Admit Date for Complication (If Not During Index Stay)	Death Date	Readmission to Same Hospital (Yes/No)	Provider ID of Readmitting Hospital [c]
Mechanical					
complication	No	99/99/9999	N/A	Yes	999999
Infection	No	99/99/9999	N/A	Yes	999999
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A

# Understanding the Calculations Through Replication

ID Number ▼	MBI	Medical Record Number	Beneficiary DOB ▼	Admit Date of Index Stay	Discharge Date of Index Stay	Index Stay (Yes/No)	Additional Complication Record (Yes/No) [a]
1	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
3	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
4	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
5	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No
6	9AA9AA9AA99	99999A	99/99/9999	99/99/9999	99/99/9999	Yes	No

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 G) equals "Yes," you must also limit them to rows where "Additional Complication Record [a]" (column H) equals "No."

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

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### **HSR Review and Correction Requests**

- The review and correction period for FY 2024 Hospital VBP Program HSRs is May 9– June 10, 2024.
- 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@hcqis.org</u>, by phone at (866) 288-8912, or over TTY at (877) 715-6222.
- Use the QualityNet Inpatient Question & Answer tool at <u>https://qualitynet.cms.gov/</u> > 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 Health Insurance Portability and Accountability Act (HIPAA). Any disclosure 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 Fiscal Year 2025 Hospital Value-Based Purchasing Program Mortality and Complication Measures Hospital-Specific Report

### Questions

# Disclaimer

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