Webinar Chat Questions

Please submit any questions that are pertinent to the webinar topic via the Chat tool. As time permits, we will answer these questions at the end of the webinar. Pertinent questions not answered will be addressed in a questions-and-answers document, to be published at a later date.

Note: As a reminder, we do not use the raised-hand feature in the Chat tool during webinars.

If you have an additional question after this event, submit your question through the <u>QualityNet</u> Inpatient Questions and Answers tool, at <u>QualityNet Question and Answer Tool</u>. Include the webinar name, slide number, and speaker name.

If you have a question unrelated to the current webinar topic, we recommend that you first search for it in the <u>QualityNet</u> Inpatient Questions and Answers tool, at <u>QualityNet Question and Answer Tool</u>. If you do not find an answer, then submit your question to us via the same tool.

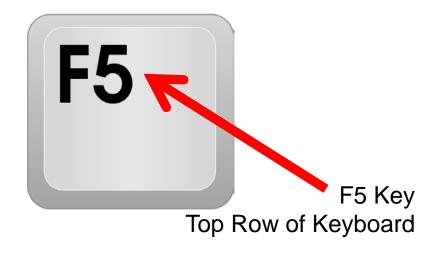
We will respond to questions as soon as possible.

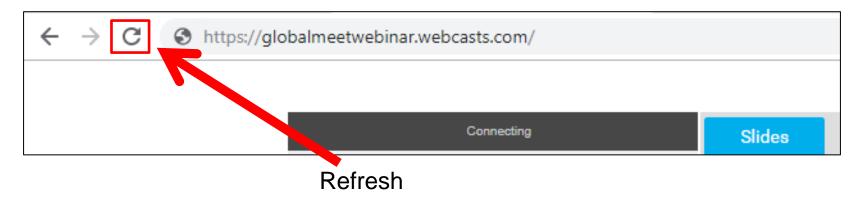
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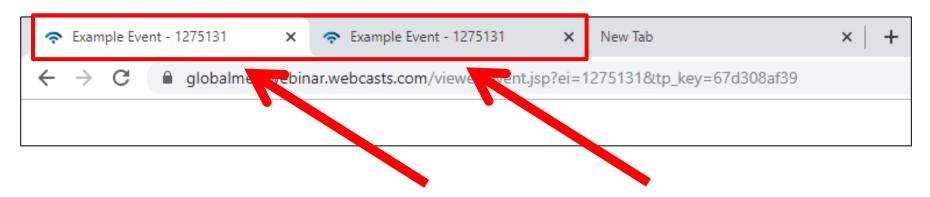
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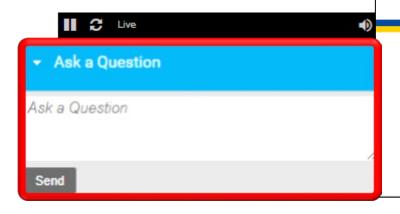
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Submitting Questions

Type questions in the "Ask a Question" section, located on the left-hand side of your screen.



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



Today's Presentation



Reviewing Your FY 2023 Hospital VBP Program Mortality and Complication Measures Hospital-Specific Report

Hosted by:

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

April 14, 2022

Speakers

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Hospital Value-Based Purchasing (VBP) Program Lead Inpatient VIQR Outreach and Education Support Contract

Angie Drake

Hospital Quality Reporting Analytics Team

Kristina Burkholder, MS, CAS

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

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) 2023 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:

- Recall the updates to the FY 2023 Hospital VBP Program Mortality and Complication Measures HSR.
- Access and review the HSR.
- Understand how to submit a review and correction request for the Hospital VBP Program measures.

Acronyms

AMI	Acute Myocardial Infarction	HVBP	Hospital Value-Based Purchasing		
CABG	Coronary Artery Bypass Graft	IQR	Inpatient Quality Reporting		
СВМ	claims-based measure	MFT	Managed File Transfer		
CCN	CMS Certification Number	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		
HF	heart failure	SA/O	Security Administrator/Official		
HIPPA	Health Insurance Portability and Accountability Act of 1996	THA/TKA	Total Hip Arthroplasty (THA) and/or Total Knee Arthroplasty		
HQR	Hospital Quality Reporting	VBP	value-based purchasing		
HSR	Hospital-Specific Report	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)

^{*}As finalized in the FY 2022 IPPS/LTCH PPS final rule, the pneumonia mortality measure is suppressed in FY 2023 Hospital VBP Program calculations due to COVID-19's substantial impact on the measure (86 FR 45269 – 45276). Because pneumonia mortality measure scores will not contribute to FY 2023 Hospital VBP Program calculations, the pneumonia mortality measure will not be included in the HSRs that are sent to hospitals in April. Measure scores for the pneumonia mortality measure will be provided to hospitals separately, at a later date.

Hospital VBP Program FY 2023 Measurement Periods

Measure	Performance Period	Updated Discharge Period*
 Hospital 30-Day, All-Cause, RSMR Following: AMI Hospitalization COPD Hospitalization CABG Surgery HF Hospitalization PN Hospitalization 	Jul. 1, 2018–June 30, 2021	July 1, 2018-December 1, 2019, July 1, 2020-June 30, 2021*
Hospital 90-Day, RSCRFollowing:Primary Elective THA and/or TKA	Apr. 1, 2018–March 31, 2021	April 1, 2018-October 2, 2019, July 1, 2020-March 31, 2021*

^{*}As finalized in the interim final rule with comment period (CMS-3401-IFC) published on September 2, 2020, CMS will not use claims reflecting services provided January 1, 2020, through June 30, 2020, (Q1 and Q2 2020) in its calculations for the Medicare quality reporting and VBP programs. The discharge period in this report has been updated to reflect this policy.

Performance Period Due to COVID-19 Exception

- As finalized in the Interim final rule with Comment Period (CMS-3401-IFC) published on September 2, 2020, CMS will not use claims reflecting services provided January 1, 2020, through June 30, 2020, (Q1 and Q2 2020) in its calculations for the Medicare quality reporting and VBP programs. The discharge period in this HSR has been updated to reflect this policy.
- The AMI, COPD, HF, and CABG measures identify deaths within 30 days of each index stay and the THA/TKA 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 measures calculations.
- Hospitals do **not** need to request an 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 8–9, 2022.
- The review and correction period for FY 2023 Hospital VBP Program HSRs is April 11–May 11, 2022.

FY 2023 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 2023 Baseline Measures Report was first made available in June of 2021.
- You can access your hospital's FY 2023 Baseline through the 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 2022.
- CMS will provide notification of HSR delivery through the HIQR Notify: Hospital Inpatient Quality Reporting (IQR) Program Notifications and the HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications Program Notification Listserve groups.
 - 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 delivered to hospitals in May/June 2022.
- CMS will provide notification of HSR delivery through the HIQR Notify: Hospital Inpatient Quality Reporting (IQR) Program Notifications and the HVBP Notify: Hospital Inpatient Value-Based Purchasing (HVBP) Program Notifications Program Notification Listserve groups.
 - Sign up for those Listserve groups on QualityNet: <u>https://qualitynet.cms.gov/listserv-signup.</u>

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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 CCN for all questions and use the following program and topic selections 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 the 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 hospital-specific reports
Hospital VBP Program, COVID-19 Exception, and Individual ECE Requests	HVBP – Hospital Value Based Purchasing	General information (HVBP)

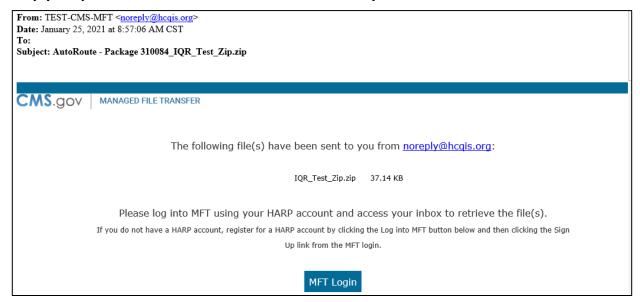
If you experience issues accessing your HSR from Managed File Transfer (MFT) or requesting and reviewing your HARP permissions, contact the CCSQ Service Center at qnetsupport@hcqis.org or (866) 288-8912.

Angie Drake Hospital Quality Reporting Analytics Team

Receiving the HSRs and User Guide

How to Receive 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 delivered no later than April 11.
- An AutoRoute File Delivery Notification will be sent to your e-mail once your hospital's HSR has been delivered to your MFT inbox. Only hospital users with the appropriate roles will receive a report and the notification.



How to Receive Your HSR

- HSRs are provided to users with a hospital that have approved Auto-Route (IQR) and Managed File Transfer permissions associated with their Hospital Quality Reporting (HQR) Profile.
 - If you are not a Security Administrator/Official (SA/O) for your hospital or you have not recently taken action to request these permissions on your account, you will not have the permissions on your profile required to receive an HSR.

Accessing Your HSR

When your hospital's report is delivered to your MFT mailbox, a notification is sent to the email address associated with your HARP account. Upon receipt of this notification, follow these steps to access your HSR in your MFT mailbox:

- 1. Navigate to the CMS Managed File Transfer page at: https://qnetmft.cms.gov/mft-signin/login.
- 2. Enter your HCQIS Access Role and Profile (HARP) User ID and Password. Select the lagree to the Terms and Conditions checkbox. Then, select Sign In.
- 3. You will be directed to the Two-Factor Authorization page. A preview of the device or email that will be sent a code will be displayed. Select **Send Code**. After selection, the Send Code button will update to **Sent**.
- 4. After receipt of the code via your device or email, enter the code. Then, select **Verify**.
- 5. Upon successful login, you will be directed to the MFT dashboard. Select **Mail** on the left-navigation pane to expand the mailbox.
- 6. Select **Inbox** under the expanded **Mail** options.
- 7. This HSR will have a subject of AutoRoute Package 999999_FY2023_HVBP_HSR with your hospital's CCN replacing 999999. Open the message containing the HSR by clicking on that line.
- 8. Download the HSR by selecting the file in the **Attachments** section of the message. HSRs will be available in your MFT mailbox for a thirty (30) day period after delivery.

What if I didn't receive my HSR?

- If after April 11, you have not received an email notifying you of the report delivery and you believe your profile has the appropriate permissions, follow the instructions for accessing your HSR to check if the report was delivered.
- If the report was not delivered, confirm that your profile has the permissions required to receive the report, as detailed above.
 - o If your profile did not have active Auto-Route (IQR) and MFT permissions prior to April 11, you may request these permissions now using the instructions in this HQR Basic Users Required to Request Access to Managed File Transfer (MFT) & Auto-Route news article. Your hospital's SA/O will review your requested permissions. Once you have been granted the proper permissions you will have access to any future report deliveries via MFT; however, this report will not be available unless a request to resend the report is submitted.
 - o If your profile did have active Auto-Route (IQR) and MFT permissions prior to April 11, and you did not receive your report, please contact the *QualityNet* Help Desk for further assistance at qnetsupport@hcqis.org.

How do I submit a request to resend my HSR?

- Requests to resend the HSR can be submitted through the Questions and Answers tool on *QualityNet*:
 - https://cmsqualitysupport.servicenowservices.com/qnet_qa?id=ask_a_question
 - When submitting the request, select Inpatient Claims-Based Measures from the Program drop-down menu and select Request for HVBP hospital-specific reports from the HVBP Mortality & Complication topic drop-down menu. In the subject line, type Request to Resend FY 2023 Hospital VBP Program Mortality and Complication Measures HSR.
 - o In the *please describe your question* text box, include your hospital's CCN.
- Do not email HSR files or their contents. HSRs contain discharge-level data protected by the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Any disclosure of protected health information (PHI) should only be in accordance with, and to the extent permitted by, the HIPAA Privacy and Security Rules and other applicable law.

HSR User Guide

The FY2023-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 2022 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 risk adjust for a history of COVID-19 defined as either:
 - ICD-10-CM code U07.1 as principal or secondary diagnosis on a historical claim

OR

 ICD-10-CM code Z86.16, personal history of COVID-19, as a secondary diagnosis on the index or historical claim

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AMI, HF, CABG, COPD Mortality Outcome

 Patients who died from COVID-19 within 30 days are <u>not</u> 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 FY 2023 Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: July 1, 2018 to December 1, 2019; July 1, 2020 to June 30, 2021 for AMI, COPD, HF, and CABG measures

Measure	Number of Eligible Discharges [a]	Performance Period Survival Rate [b]	Achievement Threshold [c]	Benchmark [d]		
AMI 30-Day Mortality	7	0.878445	0.866548	0.885499		
COPD 30-Day Mortality	20	0.919478	0.919769	0.936349		
HF 30-Day Mortality	30	0.895610	0.881939	0.906798		
CABG 30-Day Mortality	6	0.971410	0.968747	0.979620		

[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 2023 Hospital VBP Performance period; your results are presented here for your information.

- [b] FY 2023 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 and minimum case size (n=25) during the FY 2023 baseline periods (July 1, 2013 June 30, 2016 for AMI, COPD, HF, and CABG measures).
- [d] Benchmark = the mean of the top decile of survival rates among all hospitals with measure results and minimum case size (n=25) during the FY 2023 baseline periods (July 1, 2013 June 30, 2016 for AMI, COPD, HF, and CABG measures).

Notes:

- N/A = Your hospital had no qualifying cases for the measure.
- AMI = acute myocardial infarction; COPD = chronic obstructive pulmonary disease; HF = heart failure; CABG = coronary artery bypass graft
- 3. As finalized in the FY 2022 IPPS/LTCH PPS final rule, the pneumonia mortality measure is suppressed in FY 2023 Hospital VBP calculations due to COVID-19's substantial impact on the measure (86 FR 45269 45276). Because pneumonia mortality measure scores will not contribute to FY 2023 Hospital VBP calculations, the pneumonia mortality measure is not included in this Excel file.

Table 2 Additional Information

Table 2. Additional Information for Replicating Your Hospital's Risk-Standardized Mortality Results for the FY 2023 Hospital VBP Performance Period

HOSPITAL NAME

Hospital Discharge Period: July 1, 2018 to December 1, 2019; July 1, 2020 to June 30, 2021 for AMI, COPD, HF, 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	0.58	0.59	0.123663	0.121555	0.878445	
COPD 30-Day Mortality	20	1.24	1.33	0.086542	0.080522	0.919478	
HF 30-Day Mortality	30	2.96	3.25	0.114548	0.104390	0.895610	
CABG 30-Day Mortality	6	0.15	0.15	0.029438	0.028590	0.971410	

- [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:

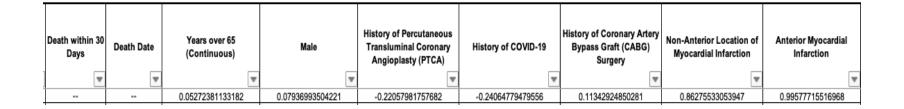
- 1. The information in this table is provided only to help in replicating your hospital's survival rate in Table 1; other than the number of eligible discharges and the survival rate, information in this table will not be publicly reported.
- See the Replication Instructions provided as part of the Hospital VBP Program HSR User Guide for more information for replicating your hospital's risk-standardized mortality measure results.
- 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
- 5. As finalized in the FY 2022 IPPS/LTCH PPS final rule, the pneumonia mortality measure is suppressed in FY 2023 Hospital VBP calculations due to COVID-19's substantial impact on the measure (86 FR 45269 45276). Because pneumonia mortality measure scores will not contribute to FY 2023 Hospital VBP calculations, the pneumonia mortality measure is not included in this Excel file.

Tables 3, 4, 5 and 6 Discharge Tables

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)	Inclusion/ Exclusion Indicator
<u> </u>										
1	99999999A		99999A	99/99/9999	99/99/9999	99/99/9999	41091	20	Yes	0
2	99999999A	1EG4TE5MK73	99999A	99/99/9999	99/99/9999	99/99/9999	41071	3	Yes	0

- 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		99/99/9999 J9621		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	•	~	~	~	▼	▼	_	<u> </u>
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			"YES" rows by the revelant coefficient found	in Row 8
16				1			=P\$8*P9	0
17				2		=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

Understanding Your Mortality Calculation– Calculate Predicted Deaths

\square	BA	ВВ	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	-			
15					SUM	ADD HOSP_EFFECT
	0	0			=SUM(N16:BB16)	=BE16+BC\$8
16 17	0	0			-0.17718542905313	
18	0	0			-0.47079752497354	
19	0	-0.087327587			1.81212958895791	
20	0	-0.087327587			1.27145398299867	

Understanding Your Mortality Calculation – Calculate Predicted Deaths

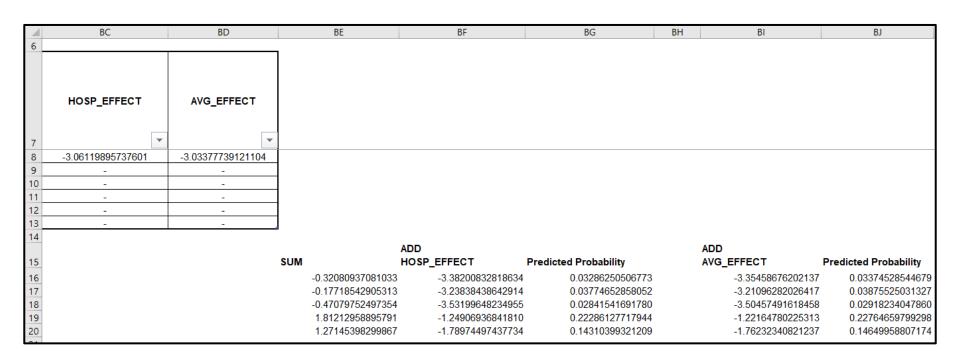
1	BA	BB	BC	BD		BE	BF	BG
6					1			
	Vertebral fractures without spinal cord injury	Major complications of medical care and trauma	HOSP_EFFECT	AVG_EFFECT				
7	_	▼	▼	_				
8	0.20603423767796	-0.08732758666131	-3.06119895737601	-3.03377739121104	İ			
9	0	0	-	-]			
10	0	0	-	-				
11	0	0	-	-]			
12	0	1	-	-				
13	0	1	-	-	ļ			
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)))

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

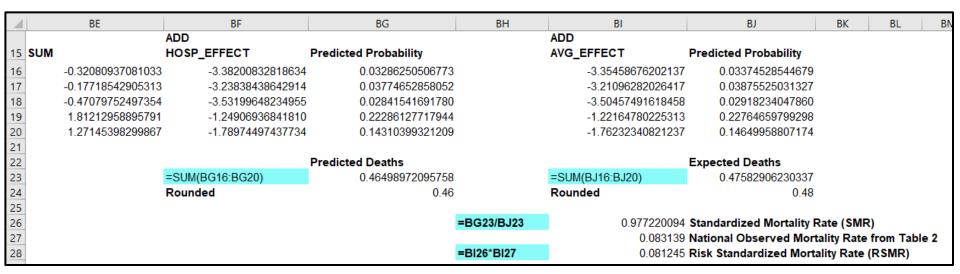


Expected probability for each discharge = (1/(1+exp(-1 * Add AVG_EFFECT results)))

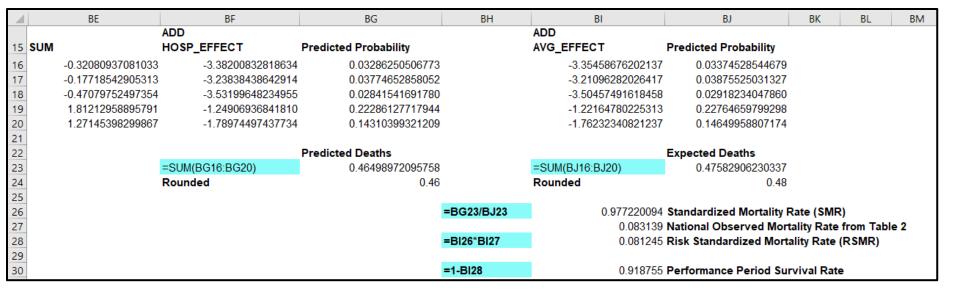
Understanding Your Mortality Calculation – Calculate Expected Deaths

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
	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 FY 2023 Hospital VBP Performance Period HOSPITAL NAME

Hospital Discharge Period: April 1, 2018 to October 2, 2019; July 1, 2020 to March 31, 2021

Measure	Number of Eligible Discharges [a]	Risk-Standardized Complication Rate [b]	Achievement Threshold [c]	Benchmark [d]
THA/TKA Complication	6	0.026100	0.027428	0.019779

[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 2023 Hospital VBP Performance period; your results are presented here for your information.

[b] FY 2023 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 2023 baseline period (April 1, 2013 - March 31, 2016).

[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 2023 baseline period (April 1, 2013 - March 31, 2016).

Notes:

- 1. N/A = Your hospital had no qualifying discharges or results for the procedure.
- 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 FY 2023 Hospital VBP Performance Period HOSPITAL NAME

Hospital Discharge Period: April 1, 2018 to October 2, 2019; July 1, 2020 to March 31, 2021

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	6	0.15	0.14	0.023785	0.026100

- [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 risk-standardized THA/TKA Complication results.
- 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)	Death Date	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 2023 Hospital VBP Program HSRs is April 11—May 11, 2022.
- 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 qnetsupport@hcqis.org, 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
 - o 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 2023 Hospital VBP Program Mortality and Complication Measures Hospital-Specific Report

Questions

Resources

You can submit questions regarding measures, HSRs, and the Hospital VBP Program through the Question and Answer tool on QualityNet. Include your hospital's six-digit CCN for all questions and use the following program and topic selections 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 the 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 hospital-specific reports
Hospital VBP Program, COVID-19 Exception, and Individual ECE Requests	HVBP – Hospital Value Based Purchasing	General information (HVBP)

If you experience issues accessing your HSR from Managed File Transfer (MFT) or requesting and reviewing your HARP permissions, contact the CCSQ Service Center at qnetsupport@hcqis.org or (866) 288-8912.

Continuing Education (CE) Approval

This program has been approved for <u>CE credit</u> for the following boards:

National credit

Board of Registered Nursing (Provider #16578)

Florida-only credit

- Board of Clinical Social Work, Marriage & Family Therapy and Mental Health Counseling
- Board of Registered Nursing
- Board of Nursing Home Administrators
- Board of Dietetics and Nutrition Practice Council
- Board of Pharmacy

Note: To verify CE approval for any other state, license, or certification, please check with your licensing or certification board.

Acronyms

Disclaimer

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