



Interpreting MBQIP Hospital Data Reports for Quality Improvement

Updated October 2018

This project is supported by the Health Resources and Services Administration (HRSA) of the U.S. Department of Health and Human Services (HHS) as part of an award totaling \$500,000 with 0% financed with non-governmental sources. The contents are those of the author(s) and do not necessarily represent the official view of, nor an endorsement, by HRSA, HHS or the U.S. Government. 9/18

Table of Contents

Table of Contents.....	2
Overview	3
About MBQIP	3
Purpose of this Guide.....	3
Using MBQIP Patient Safety and Inpatient/Outpatient Care Quality Reports.....	4
Organization of the Report.....	4
N/A, D/E, 0 Patients on Patient Safety and Inpatient/Outpatient Care Quality Reports	4
Using Comparison Data for Patient Safety and Inpatient/Outpatient Measures	5
Interpreting Reports to Support Improvement.....	6
Using MBQIP Patient Engagement Quality Reports.....	7
Using Comparison Data for HCAHPS Measures	7
Interpreting Reports to Support Improvement.....	8
Using MBQIP Care Transitions Quality Reports for Emergency Department Transfer Communication (EDTC).....	9
Using Comparison Data for the EDTC Measure	9
Interpreting Reports to Support Improvement.....	9
Additional Resources	10
CAHMPAS (Critical Access Hospital Measurement and Performance Assessment System).....	10
Emergency Department Transfer Communication Measure Resources.....	10
MBQIP Measures Fact Sheets	10
MBQIP Reporting Guide	10
Quality Improvement Implementation Guide and Toolkit for Critical Access Hospitals	10
Appendix A – Sample MBQIP Hospital Data Reports.....	11
Appendix B – Glossary	21

Overview

About MBQIP

The Medicare Beneficiary Quality Improvement Project (MBQIP) is a quality improvement activity under the Federal Office of Rural Health Policy's (FORHP) Medicare Rural Hospital Flexibility (Flex) grant program. Implemented in 2011, **the goal of MBQIP is to improve the quality of care provided in critical access hospitals** (CAHs) by increasing voluntary quality data reporting by CAHs and then driving quality improvement activities based on the data.

MBQIP provides an opportunity for individual hospitals to look at their own data, compare their results against other CAHs and partner with other hospitals around quality improvement initiatives to improve outcomes and provide the highest quality care to each and every one of their patients. Demonstrating value by providing cost efficient, quality care is the future of health care reimbursement. MBQIP takes a proactive approach to ensure CAHs are well-prepared to meet future quality requirements.

Purpose of this Guide

This guide is intended to help CAH staff use MBQIP Hospital Data Reports to support quality improvement efforts and improve patient care. The guide includes:

- Examples of how to interpret MBQIP Hospital Data Reports with a focus on improvement. The examples within the text reference notated sample MBQIP Hospital Data Reports (which can be found in [Appendix A](#)). Hyperlinks within the text and the sample reports allow the reader to toggle back and forth on the screen. Some may find it helpful to print the sample reports for review purposes.
- A glossary of key words with definitions and external links, if applicable. Throughout the document key words are hyperlinked so the reader is able to click on the word and go directly to the glossary.

This guide focuses on interpretation and use of the MBQIP Hospital Data Reports. For information regarding best practices on MBQIP measures and quality improvement strategies, see the [Quality Improvement Implementation Guide and Toolkit for Critical Access Hospitals](#)

Measures included in the MBQIP Data Interpretation Guide

This guide focuses on how to make use of data for measures reported for MBQIP as part of the fiscal year (FY) 2019 Flex grant cycle, which ends August 31, 2019. Recognizing the evolving nature of health care quality measures, this guide will be updated on a routine basis to align with changes made to MBQIP.

MBQIP Hospital Data Reports, which include state and national CAH comparisons, are distributed to CAHs approximately quarterly. Contact your state Flex Coordinator if you are unsure who is receiving these reports at your hospital. Contact information for your state Flex Coordinator can be on the [State Flex Profile page](#) of the Technical Assistance and Services Center (TASC) website. There are three separate MBQIP Hospital Data Reports:

- Patient Safety and Inpatient/Outpatient Care Quality Report
- Care Transitions (EDTC) Quality Report
- Patient Experience (HCAHPS) Quality Report

Using MBQIP Patient Safety and Inpatient/Outpatient Care Quality Reports

The MBQIP Patient Safety and Inpatient/Outpatient Care Quality Reports include data from CMS [Hospital Compare](#) measures that are relevant for CAHs under the MBQIP domains of patient safety/inpatient and outpatient care. The reports include data from all CAHs that have signed a MBQIP Memorandum of Understanding (MOU) and have submitted data. Thus, the reports include data from CAHs that have not agreed to publicly report on Hospital Compare, in addition to data from CAHs that don't have enough cases to be publically reported on Hospital Compare, providing a more complete picture of performance across CAHs nationally.

Organization of the Report

- **Quarterly Measures:** Pages one and two summarize the chart-abstracted quality measures submitted via QualityNet to the warehouse on a quarterly basis. Measures are grouped by set, including AMI/Cardiac Care, Pain Management, Immunization, and Emergency Department (including both inpatient and outpatient ED).
- **Annual Measures:** Page three of the report summarizes quality measures reported on an annual basis, including OP-22 and OP-27/HCP.
- **Antibiotic Stewardship Program – NHSN Annual Facility Survey:** Page four of the report summarizes levels of implementation on each of the seven core elements of an antibiotic stewardship program, as collected via the National Healthcare Safety Network (NHSN) Annual Facility Survey.

N/A, D/E, 0 Patients on Patient Safety and Inpatient/Outpatient Care Quality Reports

The following are brief explanations and examples of why an MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report might show not available (N/A), zero (0) patients, or data excluded (D/E) for some measures.

N/A can mean two different things:

- Data was not [submitted](#)/reported by the CAH.
- Data was submitted via QualityNet but was [rejected](#)/not accepted into the [CMS Clinical Warehouse](#).

[Examples – N/A](#)

- A CAH did not enter a zero into the Population and Sampling grid for a given measure set and did not submit/report any cases via QualityNet to the CMS Clinical Warehouse. (See the [MBQIP Reporting Guide](#) for more details on Population and Sampling.)
- A CAH may have entered a number greater than zero into the Population and Sampling grid, but did not submit/report any cases via QualityNet to the CMS Clinical Warehouse.
- A CAH may have [submitted](#) data via QualityNet to the CMS Clinical Warehouse, but the file could have had technical issues or there was data missing from some of the abstraction fields. The case(s) would be [rejected](#) from the warehouse. CAHs are strongly encouraged to run a case status summary report each quarter after submission (and before the deadline) to ensure cases have been accepted into the warehouse. Instructions can be found in the resource [Confirming That Your Data Has Been Accepted by the QualityNet Warehouse](#).

Zero (0) means that a CAH entered a zero into the Population and Sampling grid, indicating that it had no eligible patients in a measure set population for the reporting quarter, and the CAH did not submit/report anything further for that measure set to QualityNet.

Example – 0 Patients

- A CAH entered a zero into the Population and Sampling grid for a particular measure set. The CAH did not submit/report anything further via QualityNet to the warehouse (because there were no eligible cases to submit). Because the CAH entered a zero into the Population and Sampling grid to indicate that no cases were eligible, the CAH is considered reporting, and a 0 is shown on the Patient Safety and Outpatient Report.

Data excluded (D/E) means that the CAH submitted eligible cases to QualityNet and data was considered submitted and [accepted](#) to the [CMS Clinical Warehouse](#); however, case(s) were [excluded](#) from a particular measure.

Examples – D/E

- A CAH submits eligible cases in the population for a measure set, but the cases do not meet the inclusion criteria for a specific measure. One way this might happen is: A CAH [submits](#) one outpatient acute myocardial infarction (AMI) care case and the case is [accepted](#) into the [CMS Clinical Warehouse](#). However, since the patient was not given fibrinolytic therapy, the case does not meet the criteria for inclusion in OP-1 (median time to fibrinolytic therapy) and OP-2 (fibrinolytic therapy received within 20 minutes of ED arrival). The OP-1 and OP-2 measures are [excluded](#) for this case, and, if no other AMI care cases are submitted that met criteria for inclusion in those measures, the report would indicate D/E for the OP-1 and OP-2 measures.

Using Comparison Data for Patient Safety and Inpatient/Outpatient Measures

MBQIP Patient Safety and Inpatient/Outpatient Care Quality Reports summarize process-based quality measures that evaluate implementation of clinically proven best practices of care. Hospitals should strive to provide these best practices in clinical care to *every patient, 100 percent of the time*. Each measure includes the following comparison groups:

- all reporting CAHs by state, under the column header CAH State Current Quarter
- all reporting CAHs nationally, under the column header CAH National Current Quarter
- all reporting hospitals nationally (both Prospective Payment System hospitals and CAHs), under the column header All National Current Quarter (unavailable for Antibiotic Stewardship)

In these reports, state and national comparison data are provided as [averages](#).

- Averages of the state and national median measures (OP-1, OP-3b, etc.) are medians of those hospital-level medians for CAHs in the state, CAHs in the nation, and all hospitals in the nation. To calculate such an average for a given measure, the medians of all hospitals reporting that measure are arranged smallest to largest, and the middle median is displayed on the report.
- Averages of the state and national percentage measures (OP-2, OP-4, etc.) are averages in the more usual sense of the term. To calculate the state and national averages for a given measure, the sum of all numerators for that measure is divided by the sum of all denominators. (state and national median measures are medians of the median, while state and national percentage measures are averages in the usual use of the term).

Although it can be helpful to understand performance in comparison to those norms, averages represent the middle ground for performance and *everyone* should strive to achieve at least the 90th percentile for each

measure. For quality improvement purposes, such data benchmarks are more useful than average comparison data. (*Note:* Benchmarks for the top 10 percent by state and for the nation are included in your MBQIP Patient Safety and Outpatient reports, but your state Flex Coordinator may be able to provide additional state specific information)

Interpreting Reports to Support Improvement

Examples of how to interpret the data for use in quality improvement efforts are listed below. Each example is hyperlinked to the corresponding example in the sample reports found in [Appendix A](#).

[Example A](#): Lack of Consistent Process

Reports that show a measure routinely at low performance indicate there is not a consistent process for completion and documentation of that best practice of care. Hospitals in this situation are encouraged to develop and implement standardized processes to ensure evidence-based care is being provided and documented.

[Example B](#): Process May Need Adjustment

Reports that show a measure routinely at high performance, but not at 100 percent indicate processes for best practices are in place, but there is opportunity to ensure they are consistently followed. In this situation, a hospital may want to consider reviewing records for the patient stays that did not meet the measure. Doing so can help the hospital to understand why those individual patients did not receive the evidence-based best practice. This can help identify opportunities to improve processes and documentation, or may identify the need for staff education or reminders to follow the processes and procedures in place.

[Example C](#): Understanding Variation

Reports that indicate a wide variation on timing measures should be reviewed to understand the cause(s) of that variation. In Example C, the percentage of patients receiving aspirin at arrival varies from 75% to 100%. Some things to consider:

- The state and national averages for receiving aspirin at arrival are 94% and 95% respectively, so the values of 75% in the first quarter of 2017 (abbreviated as 1Q17) and 88% in 4Q17 appear to be a bit low.
- In this situation, the transfer cases could be reviewed for a better understanding of what type of variation caused the percentage receiving aspirin at arrival to be so low and identify if there are opportunities to improve the process. There are two causes of variation:
 - If the variation is [common cause](#), such as the time to run and interpret test results, that may indicate an opportunity to improve the testing process.
 - If the variation is [special cause](#), due to an unusual case or situation that impacted the results, it is important to understand that cause; however, rather than changing processes, it may be more appropriate to consider development of a back-up plan.

[Example D](#): Variation Outside of a Set Limit

- This example illustrates a [common cause variation](#) in the measure across the quarters of data on the report. For this measure, median time to electrocardiogram (ECG) has specific clinical recommendations attached – the ECG should be completed within 10 minutes of arrival. A [median](#) time of 10 minutes indicates that half of the patients received their ECG more than 10 minutes after arrival to the emergency department (ED), which is outside the set guidelines for this process of care. A review of cases and workflow is warranted to identify opportunities to improve time to ECG and ensure excellent care for all patients.

Example E: Considerations for Timing Measures

To identify areas of improvement for timing measures (such as ED-1 or OP-18), look at your own hospital's variation to understand opportunities. In Example E, the median time from ED arrival to ED departure for admitted ED patients is steadily increasing. This hospital will want to look into any possible reasons for that increase in time. In addition to looking at variation each quarter within the hospital, it can also be helpful to compare against the median and 90th percentiles for both the state and the nation to identify opportunities for improvement and identify benchmarking targets. In this case the hospital has a consistently larger median time than both the state and national averages, suggesting the hospital may want to look at opportunities for decreasing that time.

Example F: Considerations for Core Elements of Antibiotic Stewardship Program

Look for variation your hospital may have between survey years for any of the core elements. If your hospital met a core element for one year but did not meet it for the next, consider why. Did something change about your hospital's antibiotic stewardship program? Or, did the person/people completing the Annual Facility Survey differ between the survey years? In addition, compare your hospital's performance to that of the state or nation. Are there areas where your hospital has not implemented a core element but most other hospitals have?

Using MBQIP Patient Engagement Quality Reports

MBQIP Patient Engagement Quality Reports summarize Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) survey data reported by hospitals, which provides hospitals the opportunity to consider the provision of care from the patient's point of view. In addition to four screening and seven demographic questions, the survey includes 21 questions that ask patients for their feedback on a variety of aspects related to their experience as an inpatient in the hospital. The 21 substantive questions are broken into seven [composite](#) areas, two individual topic areas, and two global topic areas. The full survey is available on [the HCAHPS survey website](#). It is not expected that hospitals will perform at 100 percent on any individual measure because, unlike process measures, data from the HCAHPS is based on patient perception.

Using Comparison Data for HCAHPS Measures

- There is typically more variation in this type of survey data than in process measures. Therefore, you should look for trends that indicate consistent decline or improvement over time.
- Looking at comparison data on the MBQIP Patient Engagement Quality Reports can help provide a better understanding of how your hospital compares to other like facilities in your state and nationally. If benchmark data from top performers is available from another data source (such as the top 10 percent), that can be helpful in setting targets for improvement goals, particularly if your hospital is already above the state and national averages. If your hospital is below the state or national average in an area, that indicates an improvement opportunity.
 - Note: State and national rates in the MBQIP Patient Engagement Quality Reports represent all hospitals in the state and nation, not just CAHs.
- Not all hospitals will be given an HCAHPS Star Rating. Hospitals must have 100 completed surveys in a rolling four quarter period to have an HCAHPS Star Rating calculated. Hospitals that usually have near 100 completed surveys in such a time period may have no Star Rating for some time periods that dip slightly below 100 completed surveys.

- HCAHPS data are presented as a [rolling four quarters](#) (see the sample MBQIP Patient Engagement Quality Report in [Appendix A](#)) and each report represents the most recent rolling four quarters available, so it will take time to see improvements/changes in the data. To look at HCAHPS performance over time, you can compare MBQIP Patient Engagement Quality Reports from different time periods. If quarterly reports are available from the survey vendor (or through the internal processes if a vendor is not used) those reports may be more useful for evaluating changes resulting from specific initiatives or efforts that have been launched. Always use caution when interpreting data from individual quarters, as the number of surveys completed in any individual quarter may be small.

Interpreting Reports to Support Improvement

Examples of how to interpret the data for use in quality improvement efforts are listed below. Each example is hyperlinked to the corresponding example in the sample report found in [Appendix A](#).

Note: There are two pages in the sample MBQIP Patient Engagement Quality Report: hospital specific data on the first page and average comparison data on the second page. Each example references both sets of data. The hyperlink in each example will take you to the first page of the report.

[Example G](#): Opportunity for Improvement

In this example of the HCAHPS [composite](#) scores for Composites 1 through 5:

- The hospital’s percent “Always” response rate is consistently lower than the state and national CAH averages for all of these composite indicators as shown on page two of the report.
- The hospital could revisit earlier HCAHPS reports to see if any similar trends in these composite scores are noticeable.

[Example H](#): Translate to the Number of Patients

- For many, talking about percentages of responses on a survey can be difficult to translate into impact on individual patients. One strategy in using HCAHPS data to help staff understand the need for improvement, is to translate the percentages into numbers of actual patients. In the example circled, 70 percent of respondents indicated that their pain was always well-controlled. 70 percent translates to 203 individual patients that always felt their pain was well-controlled. Consider taking this example one step further and calculate the number of patients who did not answer “Always.” Subtract 203 from 290 to learn that 87 patients did not answer that they always felt their pain was well-controlled. Considering the number of patients may help make a more compelling appeal to staff to improve communication and/or processes in this area.

Calculating the Number of Patients

By using information provided on the report we can compute how many patients answered a question in a certain way. In this case, we want to know how many patients answered “Always” to the questions making up the pain management composite. We know that 70 percent of patients said “Always”; this is represented as 70 divided by 100. We also know that 290 people completed the survey (as listed at the top of the report). So we are solving for X, where 70 divided by 100 equals X divided by 290.

$$\frac{70}{100} = \frac{X}{290} \quad \frac{70 * 290}{100} = 203 \text{ Patients}$$

We find that, in this example, 70 percent is equal to 203 patients. To calculate the number of patients who did not answer “Always” to the pain management composite, subtract 203 from 290: 290 – 203 = 87 patients.

Note: Survey respondents can opt out of answering questions on the HCAHPS. If using an HCAHPS vendor, CAHs can also identify the exact number of patients with specific responses by looking for that additional information in their vendor reports.

Using MBQIP Care Transitions Quality Reports for Emergency Department Transfer Communication (EDTC)

A fundamental role of CAHs in the health care safety net for rural communities is stabilization and transfer of patients in emergency situations. The Emergency Department Transfer Communication (EDTC) measure allows CAHs to evaluate and demonstrate the effectiveness of that important role.

The EDTC measure evaluates the process of transfer communication through documentation of key information (data elements) and the timeliness in which that information is communicated to the next setting of care.

Using Comparison Data for the EDTC Measure

Similar to the other reports, MBQIP Care Transitions Quality Reports for Emergency Department Transfer Communication (EDTC) also include state and national comparison data for all reporting CAHs. State and national comparison data are [averages](#). Remember, although it can be helpful to understand your comparison to those norms, averages represent the middle ground for performance. Strive to achieve at least the 90th percentile for each measure. For quality improvement purposes, such data benchmarks are more useful than average comparison data. (Note: Benchmarks for the top 10 percent by state and for the nation are included in your EDTC reports, but your state Flex Coordinator may be able to provide additional state specific information)

Interpreting Reports to Support Improvement

Examples of how to interpret the data for use in quality improvement efforts are listed below. Each example is hyperlinked to the corresponding example in the MBQIP Care Transitions Quality Report for Emergency Department Transfer Communication (EDTC) found in [Appendix A](#).

[Example I](#): Opportunity for Improvement

EDTC sub-measure 2 (Patient Information) is low-performing among the EDTC categories for this hospital, with a range of percentages for each quarter and an aggregate performance for the year of 77 percent. It is also lower than the state and national averages (90 percent and 94 percent respectively) and 90th percentiles (both at 100 percent). Therefore, it may be a target for improvement efforts such as updating documentation fields and processes to help ensure the data is captured and communicated. Depending on the tool a CAH is using to collect the data, they may also be able to see results at the data element level, which can be even more useful in targeting areas for improvement. For example, the data elements for EDTC sub-measure 2 (Patient Information) include: patient name, patient address, patient age, patient gender, patient contact information, and patient insurance information. If results are available at the data element level it may help target improvement opportunities for documentation and/or processes to address specific information that is most commonly missing.

[Example J](#): Documentation or Process?

EDTC sub-measure 7 (Procedures and Tests) also has room for improvement, with an aggregate performance for the year at 79 percent. Although the hospital's rate is closer to the state and national average for this sub-measure (88 percent and 95 percent respectively), it may still represent a good opportunity for improvement. The hospital may need to evaluate whether the lower score in this area is a result of failure to document or an issue with the process. CAHs participating in an eight-state pilot on this measure found that one common area for improvement was to ensure documentation of a plan for how test results would be communicated to the next setting of care if they were not available at the time of transfer.

Additional Resources

[CAHPAS \(Critical Access Hospital Measurement and Performance Assessment System\)](#)

Online data query tool from the Flex Monitoring Team which can be used to compare and visualize CAH performance on financial, quality, and community-benefit measures between groups of hospitals defined by users. Authorized users are state flex programs and CAH administrators. Contact monitoring@flexmonitoring.org for login credentials.

[Emergency Department Transfer Communication Measure Resources](#)

Data specifications manual, Excel-based data collection tool, recorded trainings, quality improvement toolkit

[MBQIP Measures Fact Sheets](#)

One-measure-per-page-overview of the data collection and reporting processes for the required MBQIP measures.

[MBQIP Reporting Guide](#)

This guide is intended to help Flex Coordinators, critical access hospital staff and others involved with MBQIP understand the measure reporting process. For each reporting channel, information is included on how to register for the site, which measures are reported to the site and how to submit those measures to the site.

[Quality Improvement Implementation Guide and Toolkit for Critical Access Hospitals](#)

Offers strategies and resources to help critical access hospital (CAH) staff organize and support efforts to implement best practices for quality improvement. It includes:

- A quality improvement implementation model for small, rural hospital settings
- A 10-step guide to leading quality improvement efforts
- Summaries of key national quality initiatives that align with MBQIP priorities
- Suggested strategies for improvement for current MBQIP measures
- Simple, Excel-based tool to assist CAHs with tracking and displaying real time data for MBQIP and other quality and patient safety measures to support internal improvement efforts
- CAH quality prioritization tool

Appendix A – Sample MBQIP Hospital Data Reports



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
AMI Cardiac Care												
OP-1 Median Time to Fibrinolysis	D/E	D/E	D/E	D/E	23 Min.	17	12 Min.	32 Min.	952	17 Min.	30 Min.	
OP-2 Fibrinolytic Therapy Received Within 30 Min. of ED Arrival	D/E	D/E	D/E	D/E	75%	17	100%	51%	952	100%	57%	
OP-3b Median Time to Transfer to Another Facility for Acute Coronary Intervention	436 Min. based on 10 patients	D/E	237 Min. based on 3 patients	94 Min. based on 4 patients	53 Min.	17	35 Min.	65 Min.	952	34 Min.	61 Min.	
OP-4 Aspirin at Arrival	95% of 21 patients	92% of 25 patients	100% of 17 patients	97% of 30 patients	98%	17	100%	95%	1007	100%	95%	
OP-5 Median Time to ECG	7 Min. based on 27 patients	7 Min. based on 27 patients	Example A: Lack of Consistent Process					8 Min.	1007	3 Min.	8 Min.	
Pain Management												
OP-21 Median Time to Pain Management for Long Bone Fracture	107 Min. based on 19 patients	96 Min. based on 26 patients	72 Min. based on 14 patients	93 Min. based on 9 patients	47 Min.	15	31 Min.	45 Min.	952	25 Min.	48 Min.	

Please direct questions regarding your MBQIP data reports to the Flex Coordinator in your State. You can find contact information for your Flex Coordinator at: <https://www.ruralcenter.org/tasc/flexprofile>

* Reporting not required for this quarter

** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)

N/A = the provider did not submit any data to the QualityNet warehouse

0 = the provider had no cases to submit for the measure population

D/E = data was submitted but excluded because it didn't meet the measure criteria



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
AMI Cardiac Care												
OP-1 Median Time to Fibrinolysis	D/E	D/E	D/E	D/E	25 Min.	22	20 Min.	32 Min.	952	17 Min.	30 Min.	
OP-2 Fibrinolytic Therapy Received Within 30 Min. of ED Arrival	D/E	D/E	D/E	D/E	100%	22	100%	51%	952	100%	57%	
OP-3b Median Time to Transfer to Another Facility for Acute Coronary Intervention	142 Min. based on 2 patients	74 Min. based on 1 patients	36 Min. based on 1 patients	D/E	Example B: Process May Need Adjustment				952	34 Min.	61 Min.	
OP-4 Aspirin at Arrival	100% of 30 patients	88% of 25 patients	100% of 29 patients	96% of 27 patients	96%	22	100%	95%	1007	100%	95%	
OP-5 Median Time to ECG	2 Min. based on 31 patients	4 Min. based on 27 patients	2 Min. based on 31 patients	5 Min. based on 28 patients	6 Min.	22	3 Min.	8 Min.	1007	3 Min.	8 Min.	
Pain Management												
OP-21 Median Time to Pain Management for Long Bone Fracture	72 Min. based on 10 patients	42 Min. based on 11 patients	43 Min. based on 9 patients	28 Min. based on 17 patients	48 Min.	19	32 Min.	45 Min.	952	25 Min.	48 Min.	

Please direct questions regarding your MBQIP data reports to the Flex Coordinator in your State. You can find contact information for your Flex Coordinator at: <https://www.ruralcenter.org/tasc/flexprofile>

* Reporting not required for this quarter

** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)

N/A = the provider did not submit any data to the QualityNet warehouse

0 = the provider had no cases to submit for the measure population

D/E = data was submitted but excluded because it didn't meet the measure criteria



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
AMI Cardiac Care												
OP-1 Median Time to Fibrinolysis	0	D/E	D/E	D/E	24 Min.	20	8 Min.	32 Min.	952	17 Min.	30 Min.	
OP-2 Fibrinolytic Therapy Received Within 30 Min. of ED Arrival	0	D/E	D/E	D/E					952	100%	57%	
OP-3b Median Time to Transfer to Another Facility for Acute Coronary Intervention	0	D/E	D/E	D/E	64 Min.	20	36 Min.	65 Min.	952	34 Min.	61 Min.	
OP-4 Aspirin at Arrival	75% of 8 patients	100% of 4 patients	92% of 12 patients	88% of 8 patients	94%	23	100%	95%	1007	100%	95%	
OP-5 Median Time to ECG	8 Min. based on 8 patients	6 Min. based on 4 patients	1 Min. based on 13 patients	2 Min. based on 8 patients	10 Min.	23	2.5 Min.	8 Min.	1007	3 Min.	8 Min.	
Pain Management												
OP-21 Median Time to Pain Management for Long Bone Fracture	54 Min. based on 2 patients	21 Min. based on 3 patients	19 Min. based on 7 patients	54 Min. based on 5 patients	43 Min.	25	28 Min.	45 Min.	952	25 Min.	48 Min.	

Example C: Understanding Variation

Please direct questions regarding your MBQIP data reports to the Flex Coordinator in your State. You can find contact information for your Flex Coordinator at: <https://www.ruralcenter.org/tasc/flexprofile>
 * Reporting not required for this quarter
 ** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)
 N/A = the provider did not submit any data to the QualityNet warehouse
 0 = the provider had no cases to submit for the measure population
 D/E = data was submitted but excluded because it didn't meet the measure criteria



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
AMI Cardiac Care												
OP-1 Median Time to Fibrinolysis	D/E	D/E	D/E	D/E	23 Min.	17	12 Min.	32 Min.	952	17 Min.	30 Min.	
OP-2 Fibrinolytic Therapy Received Within 30 Min. of ED Arrival	D/E	D/E	D/E	D/E	75%	17	100%	51%	952	100%	57%	
OP-3b Median Time to Transfer to Another Facility for Acute Coronary Intervention	D/E	84 Min. based on 2 patients	78 Min. based on 1 patients	65 Min. based on 1 patients	53 Min.	17	35 Min.	65 Min.	952	34 Min.	61 Min.	
OP-4 Aspirin at Arrival	100% of 8 patients	100% of 8 patients	100% of 7 patients	100% of 8 patients	98%	17	100%	95%	1007	100%	95%	
OP-5 Median Time to ECG	15 Min. based on 9 patients	6 Min. based on 8 patients	12 Min. based on 6 patients	12 Min. based on 8 patients	8 Min.	17	8 Min.	8 Min.	1007	3 Min.	8 Min.	
Pain Management												
OP-21 Median Time to Pain Management for Long Bone Fracture	29 Min. based on 5 patients	61 Min. based on 5 patients	41 Min. based on 7 patients	47 Min. based on 5 patients	47 Min.	15	31 Min.	45 Min.	952	25 Min.	48 Min.	

Example D: Variation Outside of a Set Limit

Please direct questions regarding your MBQIP data reports to the Flex Coordinator in your State. You can find contact information for your Flex Coordinator at: <https://www.ruralcenter.org/tasc/flexprofile>

* Reporting not required for this quarter

** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)

N/A = the provider did not submit any data to the QualityNet warehouse

0 = the provider had no cases to submit for the measure population

D/E = data was submitted but excluded because it didn't meet the measure criteria



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
Immunization												
IMM-2 Influenza Immunization	86% of 21 patients	D/E	D/E	97% of 35 patients	84%	56	98%	86%	1000	100%	92%	
Emergency Department – Quarterly Measures												
OP-18b Median Time from ED Arrival to ED Departure for Discharged ED Patients	105 Min. based on 61 patients	105 Min. based on 61 patients	115 Min. based on 57 patients	120 Min. based on 60 patients	93 Min.	59	73 Min.	105 Min.	1013	78 Min.	134 Min.	
OP-20 Median Time from ED Arrival to Provider Contact for ED patients	19 Min. based on 64 patients	15 Min. based on 66 patients	19 Min. based on 63 patients	18 Min. based on 63 patients	Example E: Considerations for Timing Measures				1014	7 Min.	19 Min.	
ED-1b Median Time from ED Arrival to ED Departure for Admitted ED Patients	N/A	N/A	160 Min. based on 21 patients	179 Min. based on 28 patients	120 Min.	51	74 Min.	189 Min.	877	110 Min.	253 Min.	
ED-2b Admit Decision Time to ED Departure Time for Admitted Patients	N/A	N/A	14 Min. based on 21 patients	24 Min. based on 25 patients	11 Min.	50	1 Min.	44 Min.	859	6 Min.	85 Min.	

Please direct questions regarding your MBQIP data reports to the Flex Coordinator in your State. You can find contact information for your Flex Coordinator at: <https://www.ruralcenter.org/tasc/flexprofile>

* Reporting not required for this quarter

** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)

N/A = the provider did not submit any data to the QualityNet warehouse

0 = the provider had no cases to submit for the measure population

D/E = data was submitted but excluded because it didn't meet the measure criteria



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

NHSN Patient Safety Component: Annual Facility Survey							
NHSN Annual Facility Survey	Your Hospital's Performance for Previous and Current Survey Years		CAH State Percentage for Current Survey Year		CAH National Percentage for Current Survey Year		ALL National Current Survey Year
	Previous Survey Year: 2016	Current Survey Year: 2017	Percentage of CAHs Meeting Element	# CAHs with MBQIP MOU Submitting Data	Percentage of CAHs Meeting Element	# CAHs with MBQIP MOU Submitting Data	Percentage of ALL National Meeting Element
Element 1: Leadership	Y	Y	75%	69	82%	1030	N/A
Element 2: Accountability	N	Y	90%	69	93%	1030	N/A
Element 3: Drug Expertise	Y	Y				1030	N/A
Element 4: Action	Y	Y				1030	N/A
Element 5: Tracking	Y	Y				1030	N/A
Element 6: Reporting	Y	Y	93%	69	85%	1030	N/A
Element 7: Education	Y	Y	78%	69	83%	1030	N/A
All Elements Met	6	7	45%	69	57%	1030	N/A

Example F: Considerations for Core Elements of Antibiotic Stewardship Program



**MBQIP Patient Safety and Inpatient/Outpatient Care Quality Report:
Improving Care Through Patient Safety and Inpatient/Outpatient Measures**

Reporting Period: First Quarter 2017 through Fourth Quarter 2017 Discharges

MBQIP Quality Measures	Your Hospital's Performance by Quarter				CAH State Current Quarter			CAH National Current Quarter			ALL National Current Quarter	
	1Q17	2Q17	3Q17	4Q17	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Median Time/Overall Rate	
AMI Cardiac Care												
OP-1 Median Time to Fibrinolysis	N/A	0	N/A			62	8 Min.	32 Min.	952	17 Min.	30 Min.	
OP-2 Fibrinolytic Therapy Received Within 30 Min. of ED Arrival	0 Patients	0	N/A		N/A (Not Available)	62	100%	51%	952	100%	57%	
OP-3b Median Time to Transfer to Another Facility for Acute Coronary Intervention	N/A	0	N/A		D/E (Data Excluded)		49 Min.	65 Min.	952	34 Min.	61 Min.	
OP-4 Aspirin at Arrival	N/A	100% of 1 patients	N/A		D/E	72	100%	95%	1007	100%	95%	
OP-5 Median Time to ECG	N/A	11 Min. based on 1 patients	N/A		D/E	72	4 Min.	8 Min.	1007	3 Min.	8 Min.	
Pain Management												
OP-21 Median Time to Pain Management for Long Bone Fracture	125 Min. based on 1 patients	40 Min. based on 1 patients	N/A		66 Min. based on 3 patients	63	22 Min.	45 Min.	952	25 Min.	48 Min.	

General Information for State and National data:

The Average Time/Overall Rate and 90th percentile calculations in these reports are based on the number of CAHs submitting with eligible cases.

However, note that the number of CAHs with MBQIP MOU submitting data includes those that have submitted data but have zero (0) eligible cases to report.



MBQIP Patient Engagement Hospital Quality Report: Improving Care Through Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey

Reporting Period for HCAHPS Measures and Star Ratings: First Quarter 2015 through Fourth Quarter 2015 Discharges

General Information:
Data is presented over [rolling four quarters](#).

Number of Completed Surveys		78									
Survey Response Rate		31									
HCAHPS Summary Star Rating		N/A Stars									
		HCAHPS Star Rating	Your Hospital's adjusted score			State Average			National Average		
HCAHPS Composites		Star Rating (0 out of 5)	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always
Composite 1 (Q1 to Q3)	Communication with Nurses	N/A	7	28	65	2	16	82	4	16	80
Composite 2 (Q5 to Q7)	Communication with Doctors	N/A	9	21	70	3	13	84	4	14	82
Composite 3 (Q4 & Q11)	Responsiveness of Hospital Staff	N/A	13	26	61	4	21	75	9	23	68
Composite 4 (Q13 & Q14)	Pain Management	N/A	17	39	44	5	24	71	7	22	71
Composite 5 (Q16 & Q17)	Communication about Medicines	N/A	25	26	49	14	19	67	17	18	65
Hospital Environment Items		Star Rating (0 out of 5)	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always
Q8	Cleanliness of	N/A	7	20	73	8	18	74	8	18	74
Q9					51	6	28	66	9	29	62

Example G:
Opportunity for Improvement

General Information:
The data publicly reported on Hospital Compare includes percentage of “Always”, “Yes”, “Yes Definitely” and “9” or “10” ratings depending on the type of question for the most recent rolling four quarters. These are known as the [top box](#) scores.



MBQIP Patient Engagement Hospital Quality Report: Improving Care Through Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) Survey

Reporting Period for HCAHPS Measures and Star Ratings: First Quarter 2015 through Fourth Quarter 2015 Discharges

Number of Completed Surveys											
290											
Survey Response Rate											
43											
HCAHPS Summary Star Rating											
4 Stars											
		HCAHPS Star Rating	Your Hospital's adjusted score			State Average			National Average		
HCAHPS Composites		Star Rating (0 out of 5)	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always	% Sometimes to Never	% Usually	% Always
Composite 1 (Q1 to Q3)	Communication with Nurses	5	2	13	85	2	16	82	4	16	80
Composite 2 (Q5 to Q7)	Communication with Doctors	4	2	13	85	3	13	84	4	14	82
Composite 3 (Q4 & Q11)	Responsiveness of Hospital Staff	4	6	22	72						68
Composite 4 (Q13 & Q14)	Pain Management	3	4	26	70						71
Composite 5 (Q16 & Q17)	Communication about Medicines	4	10	23	67						65
Hospital Environment Items		Star Rating (0 out of 5)	% Sometimes to Never	% Usually	% Always	Som to N					
Q8	Cleanliness of Hospital Environment	4	4	14	82						74
Q9	Quietness of Hospital Environment	5	4	18	78						62

Example H: Translate to Number of Patients

How do you calculate how many patients are 70% of completed surveys?

$$\frac{70}{100} = \frac{X}{290}$$

Multiply and divide to solve for X:
 $70 \times 290 / 100 = 203$ patients

Report Run Date: 11/29/2016



**MBQIP Care Transitions Quality Report: Improving Care Through
Emergency Department Transitions**

Reporting Period: Fourth Quarter 2015 to

General Information:
This column shows the aggregate of data for all four quarters of data on the report. The total number of records represents all cases reviewed in those four quarters.

Example I:
Opportunity for Improvement

Hospital Performance by Quarter						National Current Quarter					
MBQIP Quality Measures	4Q15	1Q16	2Q16	3Q16	Your Hospital Performance Aggregate for All Four Quarters	Average Current Quarter	# CAHs with MBQIP MOU Submitting Data	90th Percentile**	Average Current Quarter	# CAHs with MBQIP MOU Submitting Data	90th Percentile**
Total Medical Records Reviewed	N = 32	N = 35	N = 26	N = 41	N = 134	N = 1312			N = 460		
EDTC-1 Administrative Communication	56% (n=18)	51% (n=18)	46% (n=12)	49% (n=20)	51%	87%	36	100%	93%	1147	100%
EDTC-2 Patient Information	75% (n=24)	80% (n=28)	77% (n=20)	76% (n=31)	77%	90%	36	100%	94%	1149	100%
EDTC-3 Vital Signs	78% (n=25)	86% (n=30)	77% (n=20)	76% (n=31)	78%	88%	35	100%	94%	1149	100%
EDTC-4 Medication Information	78% (n=25)	86% (n=30)	77% (n=20)	76% (n=31)	78%	88%	35	100%	92%	1149	100%
EDTC-5 Practitioner Information	78% (n=25)	86% (n=30)	77% (n=20)	76% (n=31)	78%	88%	35	100%	92%	1149	100%
EDTC-6 Nurse Information	31% (n=10)	49% (n=17)	62% (n=16)	76% (n=31)	51%	87%	36	100%	87%	1149	100%
EDTC-7 Procedures and Tests	78% (n=25)	86% (n=30)	77% (n=20)	76% (n=31)	79%	88%	35	100%	95%	1148	100%
All EDTC Composite*	22% (n=7)	34% (n=12)	38% (n=10)	49% (n=20)	37%	84%	36	100%	74%	1132	100%

Example J:
Documentation or Process?

N = denominator
n = numerator
N/A = the provider did not submit any data
D/E = the provider reported 0 records reviewed

* The state and national roll-up for the All-EDTC sub-measure is not inclusive of every reporting CAH, as some CAHs did not report this data element.
** The 90th percentile is the level of performance needed to be in the top 10% of CAHs for a given measure (i.e. 10% of CAHs perform at or better than the 90th percentile)

General Information for State and National data:
The Average Current Quarter and 90th percentile calculations in these reports are based on the number of CAHs submitting with eligible cases.
However, note that the number of CAHs with MBQIP MOU submitting data includes those that have submitted data but have zero (0) eligible cases to report.

General Information:
The All EDTC measure is the percentage of cases that have every data element from every sub-measure (a total of 27 data elements). Thus, this indicator will never be higher than the lowest of the sub-measures.

Appendix B – Glossary

This glossary includes a list of commonly used terms and their explanations as they apply to the Medicare Beneficiary Quality Improvement Project (MBQIP) and quality data reporting.

- **Accepted:** Individual case(s) submitted and accepted into the [CMS Clinical Warehouse](#).
- **Aggregate:** Sum; total combined.
- **Average:** State and national averages are calculated by adding up all the numerators and denominators of every reporting critical access hospital then dividing to get the percentage.
- **CART:** The Centers for Medicare & Medicaid Services (CMS) Abstraction & Reporting Tool; a free tool that hospitals can utilize to collect and submit the chart abstracted inpatient and outpatient [Hospital Compare](#) measures.
- **CMS Clinical Warehouse:** The Centers for Medicare & Medicaid Services (CMS) Clinical Warehouse is the national data repository for health care quality data. Hospitals participating in the Centers for Medicare & Medicaid Services (CMS) quality improvement initiatives must submit specified data in the prescribed format to the CMS Clinical Warehouse via the [QualityNet website](#).
- **CMS Measure Specifications Manuals:** Manuals created by the Centers for Medicare & Medicaid Services (CMS) to provide definitions for a uniform set of quality measures to be implemented in hospital settings. The inpatient and outpatient manuals can be found on the [QualityNet website](#).
- **Common cause variation:** Arises from factors inherent in the process; ‘usual’ differences in a standard process, but can be an opportunity for improvement if a reduction in variation is desired.
- **Composite:** A composite measure combines more than one item in order to measure a concept that is too complex to be measured with one item. In reference to Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS), a composite measure is a grouping of related questions.
- **Denominator:** The bottom term in a fraction; the total number of parts created from the whole.
- **Excluded:** Individual case(s) accepted into the [CMS Clinical Warehouse](#) that did not meet the criteria to be included in a specific quality indicator; not included in the [denominator](#).
- **Failed:** Individual case(s) accepted into the [CMS Clinical Warehouse](#) that met the criteria to be included in a specific quality indicator, but did not meet the measure criteria; included in the [denominator](#), but not in the [numerator](#).
- **Hospital Compare:** A website developed by the Centers for Medicare & Medicaid Services (CMS) that compiles information about hospitals and their reported quality measures and allows consumers to compare hospitals to assist in making a decision about where to seek care. For more information visit the [Hospital Compare website](#).
- **Included:** Individual case(s) accepted into the [CMS Clinical Warehouse](#) and met the criteria to be included in specific quality indicator; included in the [denominator](#).
- **Median:** The middle number in a set of values; half the numbers are less and half the numbers are greater.

- **Numerator:** The top term in a fraction; how many parts of the whole being considered.
- **Passed:** Individual case(s) accepted into the [CMS Clinical Warehouse](#), met the criteria to be included in a specific quality indicator and met the measure criteria; included in the [denominator](#) and the [numerator](#).
- **QualityNet:** Established by the Centers for Medicare & Medicaid Services (CMS), QualityNet provides health care quality improvement news, resources and data reporting tools and applications used by health care providers and others. QualityNet is the only CMS-approved website for secure communications and health care quality data exchange between: quality improvement organizations (QIOs), hospitals, physician offices, nursing homes, data vendors and end stage renal disease (ESRD) networks and facilities. For more information visit the [QualityNet website](#).
- **Rejected:** Individual case(s) submitted, but for some reason not accepted into the [CMS Clinical Warehouse](#).
- **Rolling quarters:** Inclusion of a certain number of the most recent quarters.
- **Special cause variation:** Arises from factors outside the process; outside the ordinary; requires a need to understand what happened, but not typically the focus of improvement. May lead to planning for specific circumstances.
- **Submit:** Transmission of data via the secure [QualityNet website](#). Hospitals may transmit data themselves if using the [CART](#) tool for data collection or have a vendor transmit the data on their behalf if they are using a vendor supported data collection process. For more information visit the [Data Submission webpage of the QualityNet website](#).
- **Top box:** The most positive answer choice; in reference to the Hospital Consumer Assessment of Healthcare Providers and Systems (HCAHPS) this means the answers: “Always” for those questions with options always, usually, sometimes or never; “Yes” for those questions with the options yes or no; “Yes Definitely” for those with the options yes definitely, yes somewhat or no; and “9” or “10” for those with the options of a number 0 through 10.