

ST-Segment Elevation Myocardial Infarction (STEMI) Electronic Clinical Quality Measure (eCQM)

Appropriate Treatment for STEMI Patients in the Emergency Department (ED)



Speakers

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Agenda

- Objectives
- Background
- Measure specifications
- Reporting timeline voluntary to mandatory
- Resources



Objectives

By the end of the presentation, participants will be able to:

- State the 2024 mandatory reporting of the appropriate treatment for STEMI Patients in the ED eCQM.
- Identify calendar year (CY) 2024 eCQM reporting requirements for the Hospital Outpatient Quality Reporting (OQR) Program.
- Locate resources to ensure successful submission of STEMI eCQM measure data.



Background

- Hospitals have been reporting eCQMs in the Inpatient Quality Reporting (IQR) and Promoting Interoperability (PI) programs since CY 2016.
- The STEMI eCQM was finalized in CY 2022 Hospital Outpatient Prospective Payment System (OPPS) Final Rule as the first eCQM in the program.
 - o Measure ID: OP-40; eCQM measure ID: CMS996e



Background (cont.)

Replaces two chart-abstracted measures:

- OP-2: Fibrinolytic Therapy Received Within 30 Minutes of Emergency Department (ED) Arrival, and
- OP-3: Median Time to Transfer to Another Facility for Acute Coronary Intervention

Note: OP-2 and OP-3 were finalized for removal from the OQR Program beginning with CY 2023 reporting period/CY 2025 payment determination.



Measure Specifications

- Process measure via Electronic Health Record (EHR) data
- The percentage of ED encounters for patients with a diagnosis of STEMI who received appropriate treatment
- Improvement noted as an increase in rate
- Facility level



Measure Specifications (cont.)

Denominator	ED encounters for patients 18 years of age and older with a diagnosis of ST-segment elevation myocardial infarction (STEMI) who should have received appropriate treatment for STEMI.
Numerator	ED encounters for STEMI patients whose time from ED arrival to fibrinolytic therapy is 30 minutes or less; OR non-transfer ED STEMI patients who received PCI within 90 minutes of ED arrival; OR ED STEMI patients who were transferred to a percutaneous coronary intervention (PCI)-capable hospital within 45 minutes of ED arrival at a non-PCI-capable hospital.



Denominator Exclusions

Within 24 hours before start of ED encounter or during ED encounter:

- Aortic dissection or ruptured aortic aneurysm
- Severe neurologic impairment
- Mechanical circulatory assist device placement, including (aortic balloon pump), biventricular assist device, intra-aortic balloon, intra-aortic balloon counterpulsation, intra-aortic counterpulsation balloon pump, left ventricular device, percutaneous ventricular assist device, or ventricular assist device
- Intubation, including endotracheal intubation, mechanical ventilation, nasotracheal intubation, or orotracheal intubation
- Cardiopulmonary arrest (including cardiac arrest), CPR, defibrillation, respiratory arrest, or ventricular fibrillation (V-fib), ventricular tachycardia (VT), pulseless electrical activity (PEA); or, traumatic or prolonged (>10 minutes) CPR



Denominator Exclusions (cont.)

During ED encounter:

 Allergic reaction to alteplase, streptokinase, anistreplase, tenecteplase, or reteplase

Patients with the following conditions:

Expired in the ED

Within 90 days before start of ED encounter:

Intracranial or intraspinal surgery

Within 90 days before start of or at start of ED encounter:

- Ischemic stroke
- Significant facial and/or closed head trauma
- Peptic ulcer



Denominator Exclusions (cont.)

Within 21 days before start of or starts during ED encounter:

Major surgery

At the start of ED encounter:

- Bleeding or bleeding diathesis (excluding menses)
- Known malignant intracranial neoplasm (primary or metastatic)
- Known structural cerebral vascular lesion (e.g., AVM)
- Advanced dementia
- Pregnancy
- Active oral anticoagulant therapy

Access the Hospital OQR Specifications Manual for measure details.



Reporting Timeline

Reporting Period	Quarters	Submission Period	Payment Determination
CY 2023*	Any quarter(s)	May 15, 2024	NA
CY 2024	One self-selected quarter	May 15, 2025	CY 2026
CY 2025	Two self-selected quarters	May 15, 2026	CY 2027
CY 2026	Three self-selected quarters	May 17, 2027	CY 2028
CY 2027	Four quarters (one calendar year)	May 15, 2028	CY 2029



Reporting Timeline Example

Example: Reporting period for calendar year (CY) 2024/CY 2026 payment determination (PD)



Note: A measured entity with no qualifying denominator population in the measurement period will be able to submit a zero-denominator declaration for the measure to meet reporting requirements.

Voluntary reporting began with the CY 2023 reporting period.



Resources

- eCQI* Resource Center: https://ecqi.healthit.gov/
 - Measure specifications, definitions, value sets, flowsheets
- ONC Project Tracking System: https://oncprojectracking.healthit.gov
 - Create an account, search for an issue, and create an issue and submit technical and implementation questions in the ONC Project Tracking System (Jira)
- For hospital outpatient reporting guidance, visit <u>QualityNet</u> and the <u>Quality Reporting Center</u> for specific program reporting education.

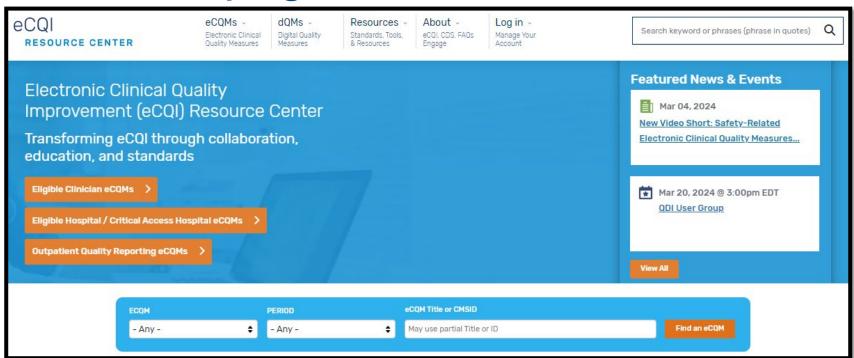


The eCQI Resource Center

https://ecqi.healthit.gov

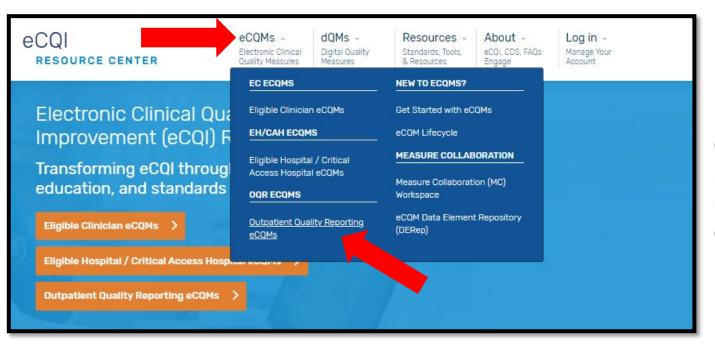


The Homepage





Navigating to OQR Outpatient eCQM



From the homepage:

Hover your cursor over **eCQMs**

Select Outpatient Quality Reporting eCQMs



Navigating to Measure Information Page



Filter by period from the *Select Period* drop-down box.

Select the STEMI eCQM option.



Features on the Measure-Specific Page

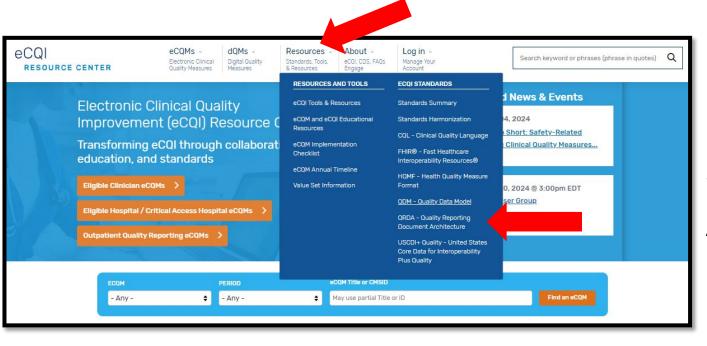


Features available include:

- Measure Information
- Specifications and Data Elements
- Release Notes



Navigating to QRDA*



From the homepage:

Hover your cursor over **Resources**.

Select **QRDA- Quality Reporting Document Architecture.**

*QRDA: Quality Reporting Document Architecture



Navigating to Education

QRDA - Quality Reporting Document Architecture

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The Quality Reporting Document Architecture (QRDA) is the data submission standard used for a variety of quality measurement and reporting initiatives. It is based on the Health Level Seven International® (HL7®) Clinical Document Architecture (CDA). ORDA creates a standard method to report quality measure results in a structured, consistent format and can be used to exchange eCOM data between systems.

Current QRDA Reference and Implementation Guides:

Find ORDA Known Issues in the ONC ORDA Known Issues Project [2].

2024 Reporting and Performance Period

The 2024 CMS ORDA I Implementation Guide for Hospital Quality Reporting for 2024 eCOM reporting is based on the HL7 CDA Release 2: QRDA Category I, Release 1, Standard for Trial Use Release 5.3 with errata (published December 2022).

- 2024 CMS QRDA I Implementation Guide for Hospital Quality Reporting (PDF) (Updated August 2023)
- 2024 CMS QRDA I Schematron and Sample Files for Hospital Quality Reporting (ZIP) (Updated August 2023)

The 2024 CMS ORDA III IG, Schematron, and Sample Files for Eligible Clinicians for 2024 eCQM reporting is based on the HL7 Implementation Guide for CDA Release 2: ORDA Category III, Release 1 (published September 2021).

- 2024 CMS QRDA III Implementation Guide for Eligible Clinicians (PDF) (updated November 2023)
- 2024 CMS ORDA III Schematrons and Sample Files for Eligible Clinicians (ZIP) (updated February 2024)

Select **Education** from the available resources' tabs.



The QRDA Education Page

QRDA - Quality Reporting Document Architecture

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CMS QRDA I (for patient-level data)

- 2024 CMS QRDA I Implementation Guide (IG), Schematron, and Samples File CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube 12 June 20, 2023
- Updated 2023 CMS QRDA LIG and Schematron for Hospital Quality Reporting CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube [2] March 28, 2023
- Updated 2022 CMS QRDA I IG and Hybrid Measure Sample File for Hospital Quality Reporting Slides (PDF) / YouTube 2 December 14, 2021
- CMS ORDA Category I IG Changes for CY 2021 Hospital Quality Reporting Slides [2] (PDF) / YouTube [2] April 27, 2021

CMS QRDA III (for aggregate data)

- 2023 ORDA III Updates for the CY 2023 Physician Fee Final Rule CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube [7] January 17, 2023
- 2023 QRDA III Updates CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube [7] March 1, 2022
- Final 2022 CMS QRDA III IG Publication CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube 2 July 27, 2021

CMS ORDA Land III

- 2023 CMS QRDA I and III Updates CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube 🚰 August 11, 2022
- Public Comments on the Draft 2023 CMS QRDA I IG and Updates to the 2023 CMS QRDA III IG and Sample Files CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube (2) - May 10, 2022
- 2022 CMS ORDA I and III Updates CMS Quality Bi-Monthly Forum Slides (PDF) / YouTube 🚰 May 20, 2021

Informational slides and videos are available in each category.

Note: A detailed reporting webinar is coming soon!



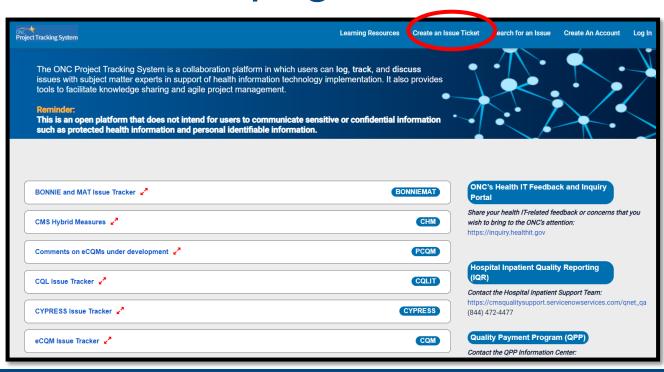
The ONC* Project Tracking System

https://oncprojectracking.healthit.gov

ONC: Office of the National Coordinator for Health IT



The Homepage

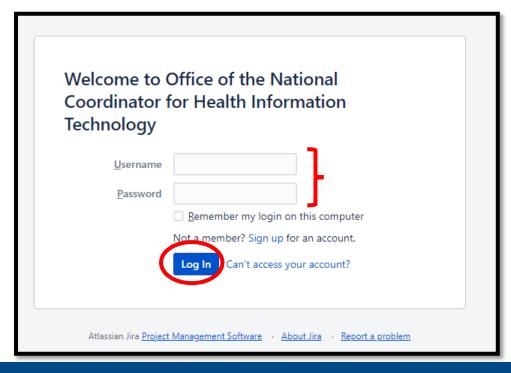


To create a ticket, select **Create an Issue Ticket** from the homepage.

Note: If you do not have an account, select the Create an Account option. You will create a username and password.



Logging Into the System

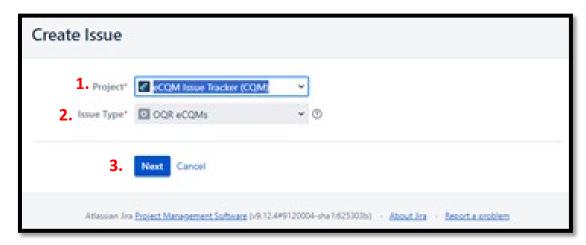


Enter your Username and Password.

Select Log In.



Accessing the System



- Select eCQM Issue Tracker (eCQM) from the Project drop-down menu.
- Select OQR eCQMs from the Issue Type drop-down menu.
- 3. Select Next.



Program Resources



Hospital OQR Program Support Team

- Phone: 866.800.8756
- Ask a question via <u>QualityNet Q&A Tool</u>

Center for Clinical Standards and Quality Service Center

- Phone: 866.288.8912
- Email: <u>qnetsupport@cms.gov</u>

Acronyms



AVM	Arteriovenous Malformation	ONC	Office of the National Coordinator for Health Information Technology
CMS	Centers for Medicare & Medicaid Services	OQR	Outpatient Quality Reporting
CPR	Cardiopulmonary resuscitation	PEA	Pulseless electrical activity
CY	Calendar Year	PCI	Percutaneous Coronary Intervention
eCQI	Electronic Clinical Quality Improvement	PD	Payment Determination
eCQM	Electronic Clinical Quality Measure	QA	Question and Answer
ED	Emergency Department	QRDA	Quality Reporting Document Architecture
EHR	Electronic health record	STEMI	ST-Segment Elevation Myocardial Infarction
НСР	Healthcare Personnel	VF	Ventricular Fibrillation
OPPS	Outpatient Prospective Payment System	VT	Ventricular Tachycardia

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