Expert to Expert Webinar

2025 Reporting Year Annual Updates for Hospital Harm - Opioid-Related Adverse Events (HH-ORAE) (CMS819v3)

January 16, 2025

Webinar Audio and Functionality

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New to eCQMs?

Today's content is highly technical and requires a baseline understanding of eCQM logic and concepts
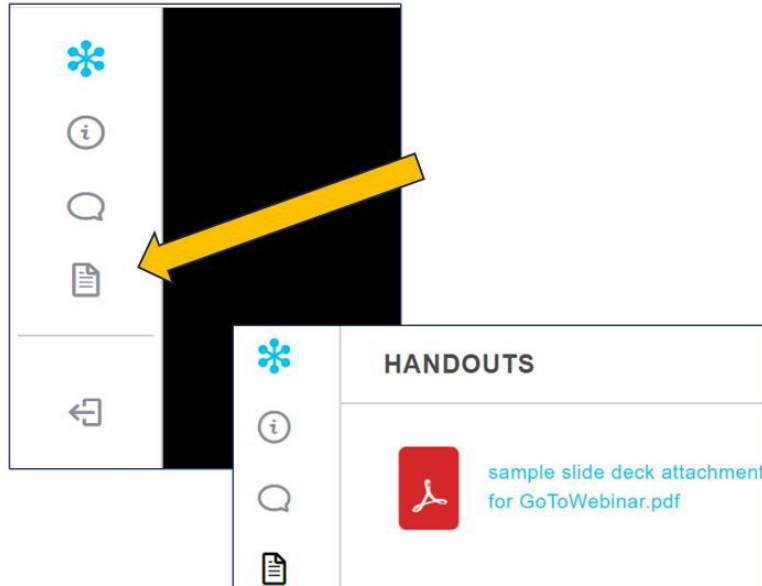
Visit this section of the eCQI Resource Center:

"Get Started with eCQMs"

(https://ecqi.healthit.gov/ecqms?qt-tabs_ecqm=tools-resources)

Access the Slides

To access the slides now:

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- Accreditation Council for Continuing Medical Education (PRA Category 1 credit)

- American Nurses Credentialing Center

- American College of Healthcare Executives (1 Qualifying Education Hour)

- California Board of Registered Nursing

CE Requirements

1) **Individually register** for this webinar

2) Participate for the **entire broadcast**

3) Complete a post-program **evaluation/ attestation**

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Learning Objectives

Locate measure specifications, value sets, measure flow diagrams and technical release notes on the eCQI Resource Center.

Facilitate your organization's implementation of the Hospital Harm Opioid Related Adverse Events eCQM annual updates for the 2025 calendar year.

Utilize answers regarding common issues/questions regarding the Hospital Harm Opioid Related Adverse Events eCQM use/implementation.

Topics Not Covered in this Program

Basic eCQM concepts

Topics related to chart abstracted measures

Process improvement efforts related to this measure
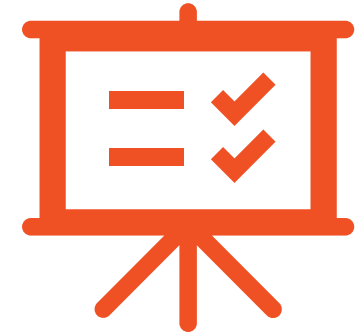
eCQM validation

Disclosure Statement

All staff and speakers for this webinar have disclosed that they do not have any conflicts of interest. For example, financial arrangements, affiliations with, or ownership of organizations that provide grants, consultancies, honoraria, travel, or other benefits that would impact the presentation of today's webinar content.

- Susan Funk, MPH, LSSGB, Associate Project Director, Engagement in Quality Improvement Programs (EQIP)
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- Melissa Breth, DNP, RN, NI-BC, Associate Project Director, Clinical Quality Informatics
- Raquel Belarmino, MSN, RN, Associate Project Director, Clinical Quality Informatics

Webinar Agenda

- Highlight how to access eCQI Resource Center navigational demo (measure specifications, value sets, measure flow diagrams and technical release notes)
- Review the Hospital Harm - Opioid-Related Adverse Events eCQM
- Review the measure flow/algorithm
- Review FAQs
- Facilitated Audience Q&A Segment

eCQI Resource Center https://ecqi.healthit.gov

Download and/or View Specifications

- "Human Readable" html

- Value Sets⬈
  - ➤ *Value Set Authority Center (VSAC)*
- Data Elements

- eCQM Flow (PDF)
  - ➤ *(process flow diagrams)*

- Technical Release Notes (TRNs) (Excel)

- Jira Issue Tracker tickets⬈

For more details, view the video short here: Expert to Expert Webinars | The Joint Commission

Hospital Harm – Opioid-Related Adverse Events (HH-ORAE) (CMS819v3)

HH-ORAE – Background

Measure Description: This measure assesses the number of inpatient hospitalizations for patients age 18 and older who have been administered an opioid medication outside of the operating room and are subsequently administered a non-enteral opioid antagonist outside of the operating room within 12 hours, an indication of an opioid-related adverse event

Rationale and Intent:

- Opioid-based analgesia is the most used treatment in postoperative pain management

- Measure is intended to be used to identify and reduce unintended adverse events such as over-sedation, delirium, and respiratory depression. Administration of opioid antagonist is used as an indicator of a severe ORAE.

- Associated with increase in hospital LOS (length of stay), increase in the odds of death, higher costs, and higher risk of 30-day readmission

- Opioid-related adverse events are preventable with better monitoring and response

- Rates of inpatient ORAE indicate quality of care

2024 vs 2025 Reporting Year

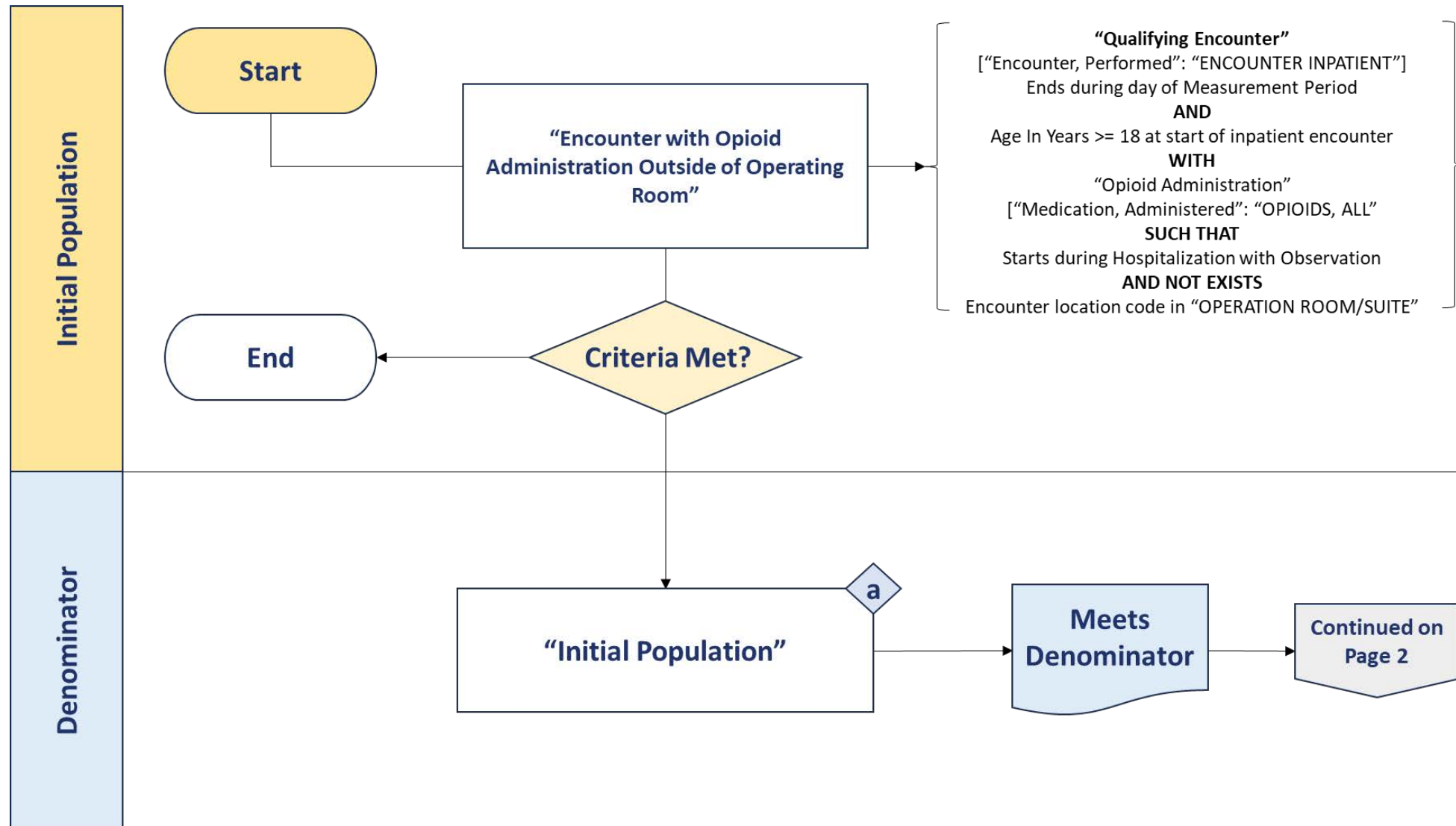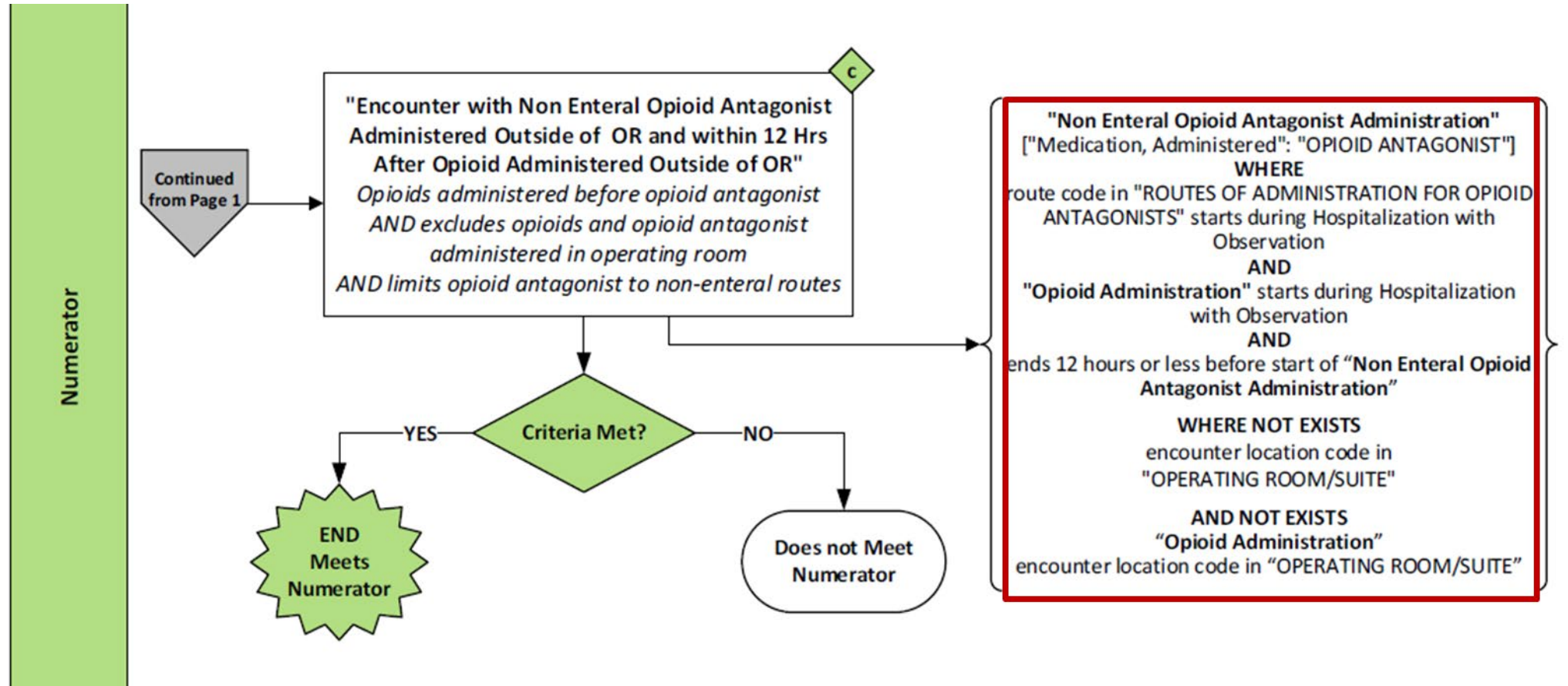| Measure Components	2024 Reporting Year	2025 Reporting Year
Header Description	This measure assesses the number of inpatient hospitalizations for patients age 18 and older who have been administered an opioid medication and are subsequently administered an opioid antagonist within 12 hours, an indication of an opioid-related adverse event	This measure assesses the number of inpatient hospitalizations for patients age 18 and older who have been administered an opioid medication <u>outside of the operating room</u> and are subsequently administered ~~an~~ <u>a non-enteral</u> opioid antagonist <u>outside of the operating room</u> within 12 hours, an indication of an opioid-related adverse event
Header Initial Population	Inpatient hospitalizations for patients age 18 and older during which at least one opioid medication was administered outside of the operating room	Inpatient hospitalizations <u>that end during the measurement period</u> for patients age 18 and older ~~during which~~ <u>and</u> at least one opioid medication ~~was administered~~ administration starts during the hospitalization outside of the operating room

2024 vs 2025 Reporting Year (2)

Measure Components	2024 Reporting Year	2025 Reporting Year
Header Denominator	Equals Initial Population	**No change**
Header Numerator	Inpatient hospitalizations where an opioid antagonist was administered outside of the operating room and within 12 hours following administration of an opioid medication. The route of administration of the opioid antagonist must be by intranasal spray, inhalation, intramuscular, subcutaneous, or intravenous injection. Only one numerator event is counted per encounter.	Inpatient hospitalizations where ~~an~~ a non-enteral opioid antagonist ~~was administered~~ administration starts during the hospitalization outside of the operating room and ~~within~~ 12 hours or less following ~~administration of~~ an opioid medication administered outside of the operating room. The route of administration of the opioid antagonist must be by intranasal spray, inhalation, intramuscular, subcutaneous, or intravenous injection. Only one numerator event is counted per encounter.

Hospital Harm - Opioid-Related Adverse Events (HH-ORAE) (CMS819v3)

Measure Flow

Initial Population

Initial Population

Start → "Encounter with Opioid Administration Outside of Operating Room" →

"Qualifying Encounter"
["Encounter, Performed": "ENCOUNTER INPATIENT"]
Ends during day of Measurement Period
AND
Age In Years >= 18 at start of inpatient encounter
WITH
"Opioid Administration"
["Medication, Administered": "OPIOIDS, ALL"
SUCH THAT
Starts during Hospitalization with Observation
AND NOT EXISTS
Encounter location code in "OPERATION ROOM/SUITE"

Criteria Met? → End

Denominator

"Initial Population" → Meets Denominator → Continued on Page 2

★ Numerator

Numerator

Continued from Page 1

"Encounter with Non Enteral Opioid Antagonist Administered Outside of OR and within 12 Hrs After Opioid Administered Outside of OR"
Opioids administered before opioid antagonist AND excludes opioids and opioid antagonist administered in operating room AND limits opioid antagonist to non-enteral routes

Criteria Met?

YES → **END Meets Numerator**

NO → **Does not Meet Numerator**

"Non Enteral Opioid Antagonist Administration" ["Medication, Administered": "OPIOID ANTAGONIST"]
WHERE
route code in "ROUTES OF ADMINISTRATION FOR OPIOID ANTAGONISTS" starts during Hospitalization with Observation
AND
"Opioid Administration" starts during Hospitalization with Observation
AND
ends 12 hours or less before start of **"Non Enteral Opioid Antagonist Administration"**

WHERE NOT EXISTS
encounter location code in **"OPERATING ROOM/SUITE"**

AND NOT EXISTS
"Opioid Administration"
encounter location code in **"OPERATING ROOM/SUITE"**

Sample Calculation

Sample Calculation
Performance Rate = $\dfrac{\text{Numerator } (c = 10)}{\text{Denominator } (a = 100)}$ = 10%

Hospital Harm - Opioid-Related Adverse Events (HH-ORAE) (CMS819v3)

Logic Detail

HH-ORAE Initial Population

Inpatient hospitalizations that end during the measurement period for patients age 18 and older and at least one opioid medication administration starts during the hospitalization outside of the operating room

Encounter with Opioid Administration Outside of Operating Room
"Qualifying Encounter" InpatientEncounter with "Opioid Administration" OpioidGiven
   such that Global."NormalizeInterval" (OpioidGiven.relevantDatetime, OpioidGiven.relevantPeriod)
starts during Global."HospitalizationWithObservation" (InpatientEncounter)
   and not exists (InpatientEncounter.facilityLocations EncounterLocation
      where EncounterLocation.code ~ "Operating Room/Suite"
       and Global."NormalizeInterval" (OpioidGiven.relevantDatetime, OpioidGiven.relevantPeriod)
starts during EncounterLocation.locationPeriod)

Qualifying Encounter
   ["Encounter, Performed": "Encounter Inpatient"] InpatientHospitalization
     where InpatientHospitalization.relevantPeriod ends during day of "Measurement Period"
     and AgeInYearsAt (date from start of InpatientHospitalization.relevantPeriod) >= 18

Opioid Administration
   ["Medication, Administered": "Opioids, All"]

HH-ORAE Denominator

Denominator: "Initial Population"

HH-ORAE Numerator (1)

Inpatient hospitalizations where a non-enteral opioid antagonist administration starts during the hospitalization outside of the operating room and 12 hours or less following an opioid medication administered outside of the operating room. The route of administration of the opioid antagonist must be by intranasal spray, inhalation, intramuscular, subcutaneous, or intravenous injection. Only one numerator event is counted per encounter.

Numerator: "Encounter with Non Enteral Opioid Antagonist Administered Outside of OR and within 12 Hrs After Opioid Administered Outside of OR"

Encounter with Non Enteral Opioid Antagonist ~~Administration~~Administered Outside of ~~Operating Room~~ OR and within 12 Hrs After Opioid Administered Outside of OR

From ~~["Medication, Administered": "Opioid Antagonist"] OpioidAntagonistGiven,~~
"Non Enteral Opioid Antagonist Administration" NonEnteralOpioidAntagonistGiven,
"Opioid Administration" OpioidGiven,
"Denominator" ~~EncounterWithQualifyingAge~~ InpatientHospitalization
~~where not exists (EncounterWithQualifyingAge.facilityLocations EncounterLocation~~
let NonEnteralOpioidAntagonistGivenTime: Global."NormalizeInterval"
(NonEnteralOpioidAntagonistGiven.relevantDatetime, NonEnteralOpioidAntagonistGiven.relevantPeriod),
OpioidGivenTime: Global."NormalizeInterval" (OpioidGiven.relevantDatetime, OpioidGiven.relevantPeriod),
HospitalPeriod: Global."HospitalizationWithObservation" (InpatientHospitalization)

Non Enteral Opioid Antagonist Administration
["Medication, Administered": "Opioid Antagonist"] Antagonist
where Antagonist.route in "Routes of Administration for Opioid Antagonists"

⭐ HH-ORAE Numerator (2)

Inpatient hospitalizations where a non-enteral opioid antagonist administration starts during the hospitalization outside of the operating room and 12 hours or less following an opioid medication administered outside of the operating room. The route of administration of the opioid antagonist must be by intranasal spray, inhalation, intramuscular, subcutaneous, or intravenous injection. Only one numerator event is counted per encounter.

Numerator: "Encounter with Non Enteral Opioid Antagonist Administered Outside of OR and within 12 Hrs After Opioid Administered Outside of OR"

Encounter with Non Enteral Opioid Antagonist ~~Administration~~Administered Outside of ~~Operating Room~~OR and within 12 Hrs After Opioid Administered Outside of OR

where not exists (~~EncounterWithQualifyingAge~~ InpatientHospitalization.facilityLocations EncounterLocation

where EncounterLocation.code ~ "Operating Room/Suite"

~~and Global."NormalizeInterval" (OpioidAntagonistGiven.relevantDatetime,~~

and NonEnteralOpioidAntagonistGivenTime starts during EncounterLocation.locationPeriod)

~~and (Global."NormalizeInterval" (OpioidAntagonistGiven.relevantDatetime, OpioidAntagonistGiven.relevantPeriod) starts during Global."HospitalizationWithObservation" (EncounterWithQualifyingAge)~~

~~and Global."NormalizeInterval" (OpioidGiven.relevantDatetime, OpioidGiven.relevantPeriod) starts during Global."HospitalizationWithObservation" (EncounterWithQualifyingAge)~~

~~and Global."NormalizeInterval" (OpioidGiven.relevantDatetime, OpioidGiven.relevantPeriod)~~

⭐ HH-ORAE Numerator (3)

Inpatient hospitalizations where a non-enteral opioid antagonist administration starts during the hospitalization outside of the operating room and 12 hours or less following an opioid medication administered outside of the operating room. The route of administration of the opioid antagonist must be by intranasal spray, inhalation, intramuscular, subcutaneous, or intravenous injection. Only one numerator event is counted per encounter.

Numerator: "Encounter with Non Enteral Opioid Antagonist Administered Outside of OR and within 12 Hrs After Opioid Administered Outside of OR"

Encounter with Non Enteral Opioid Antagonist ~~Administration~~ Administered Outside of ~~Operating Room~~ OR and within 12 Hrs After Opioid Administered Outside of OR

and not exists (InpatientHospitalization.facilityLocations EncounterLocation
    where EncounterLocation.code ~ "Operating Room/Suite"
    and OpioidGivenTime starts during EncounterLocation.locationPeriod)

and NonEnteralOpioidAntagonistGivenTime starts during HospitalPeriod
and OpioidGivenTime starts during HospitalPeriod
and OpioidGivenTime ends 12 hours or less before start of ~~Global."NormalizeInterval" (OpioidAntagonistGiven.relevantDatetime, OpioidAntagonistGiven.relevantPeriod) and OpioidAntagonistGiven.route in "Routes of Administration for Opioid Antagonists")~~ NonEnteralOpioidAntagonistGivenTime
return ~~EncounterWithQualifyingAge~~ InpatientHospitalization

Frequently Asked Questions (FAQ)

Question:

Do opioid antagonists dispensed in the ED for community overdose reversal count towards this measure?

Answer:

No. The intent of this measure is to identify patients who are <u>administered</u> an opioid antagonist outside of the operating room within 12 hours of opioid administration, as this indicates an opioid related adverse event. The QDM datatype, "Medication, Administered" addresses medication taken by the patient.

Resources

eCQI Resource Center

CMS EH Measures

https://ecqi.healthit.gov/eligible-hospital/critical-access-hospital-eCQMs

Get Started with eCQMs

https://ecqi.healthit.gov/ecqms?qt-tabs_ecqm=education

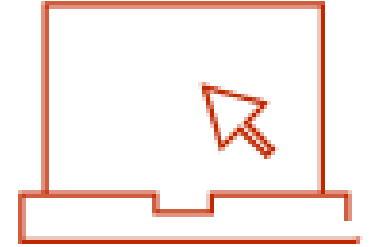**Teach Me Clinical Quality Language (CQL) Video Series -**

https://ecqi.healthit.gov/cql?qt-tabs_cql=2

Hospitalization with Observation -

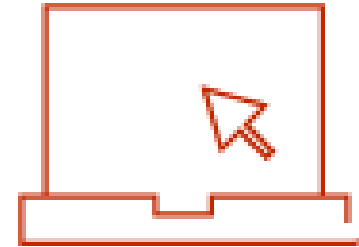https://www.youtube.com/watch?v=3yqwOU2XcZM&ab_channel=CMSHHSgov

What is a Value Set -

https://register.gotowebinar.com/recording/4766956164118938369

Resources (2)

Value Set Authority Center (VSAC) Support - https://www.nlm.nih.gov/vsac/support/index.html

Pioneers In Quality - https://www.jointcommission.org/measurement/pioneers-in-quality/

Expert to Expert - https://www.jointcommission.org/measurement/quality-measurement-webinars-and-videos/expert-to-expert-webinars/

ASTP/ONC Issue Tracking System - https://oncprojectracking.healthit.gov/

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Notes: After clicking the link to view a recording, you will be taken to the event landing page and will be required to enter registration fields before the recording begins.

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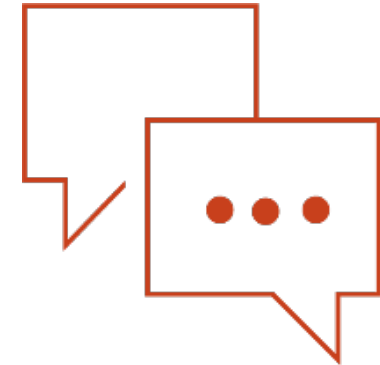
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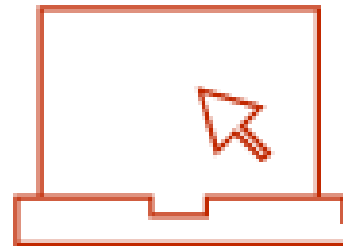**Complete certificate by adding your name and credentials.**

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Acronyms

Acronym	
CBE	Consensus-Based Entity
CE	Continuing Education
CMS	Centers for Medicare& Medicaid Services
eCQM	Electronic Clinical Quality Measure
ED	Emergency Department
EH	Eligible Hospital
EHR	Electronic Health Record
FY	Fiscal Year
OR	Operating Room
ORAE	Opioid-Related Adverse Event
QDM	Quality Data Model
VOIP	Voice Over IP Phone