

Pioneers in Quality On-Demand Webinar Series Expert to Expert 2020 eCQM Annual Updates for the 2021 Reporting Period

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January 2021



On-Demand Webinar Series

2020 eCQM Annual Updates

- Stroke Measures
- VTE Measures
- PC-05 Exclusive Breast Milk Feeding
- ED-2 Median Admit Decision Time to ED Departure Time for Admitted Patients

New Measure Review

- The CMS Safe Use of Opioids- Concurrent Prescribing

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On-Demand eCQM Video Shorts

eCQM Basics (2 min/video)

- What is a Value Set?
- What is a QDM Data Element?
- What is a Datatype?
- What is an Attribute?

CQL Basics (11 min)

- CQL Basics (excerpt from 2019 PIQ Expert to Expert Series)

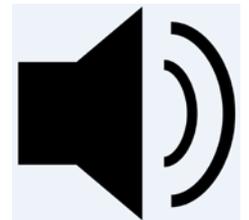
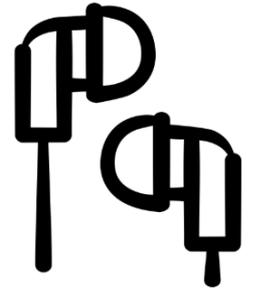
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2020 eCQM Annual Update: **ED-2 Median Admit Decision Time** **to ED Departure Time for Admitted** **Patients**

Webinar Audio – Information & Tips

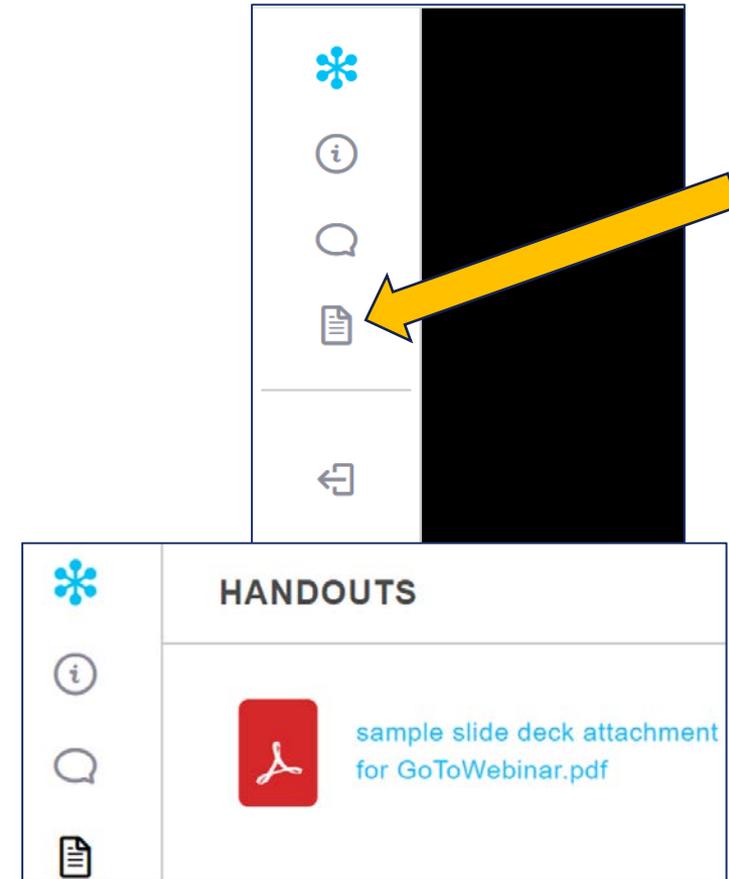
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At the end of this webinar, participants should be able to:

1. Apply concepts learned about the logic and intent for the ED-2 eCQM,
2. Identify common issues and questions regarding ED-2 eCQM and,
3. Prepare to implement the ED-2 measure for the 2021 eCQM reporting period

Disclosure Statement

These staff and speakers have disclosed that neither they nor their spouses/partners have any financial arrangements or affiliations with corporate organizations that either provide educational grants to this program or may be referenced in this activity:

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Pioneers in Quality™ Expert to Expert Series: ED-2

October 2020



Angela Flanagan, MSN, RN, CPHIMS

**ED-2- Median Admit Decision Time to ED
Departure for Admitted Patients (CMS111v9)**

October 2020

Measure Description

ED-2 v9 Median Admit Decision Time to ED Departure for Admitted Patients (CMS111v9)

Median time (in minutes) from admit decision time to time of departure from the emergency department for emergency department patients admitted to inpatient status

Initial Population

Inpatient hospitalizations ending during the measurement period with length of stay less than or equal to 120 days, where the patient received services during the preceding emergency department (ED) visit at the facility when a decision to admit inpatient was made prior to departing the ED

2021 Initial Population:

“ED Encounter with Decision to Admit”

2020 Initial Population:

Global."Inpatient Encounter" EncounterInpatient
with "ED Visit with Admit Order" EDAdmitOrder
such that EDAdmitOrder.relevantPeriod ends 1 hour or less before or on start
of EncounterInpatient.relevantPeriod



Initial Population

Inpatient hospitalizations ending during the measurement period with length of stay less than or equal to 120 days, where the patient received services during the preceding emergency department (ED) visit at the facility when a decision to admit inpatient was made prior to departing the ED

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

from Global."Inpatient Encounter" EncounterInpatient
let LastEDVisit: LastEDEncounter(EncounterInpatient)

where

("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime
during LastEDVisit.relevantPeriod

or

"AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime
during LastEDVisit.relevantPeriod)

and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit"
and end of Location.locationPeriod != maximum DateTime)



Initial Population

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

From Global."Inpatient Encounter" EncounterInpatient

let LastEDVisit: LastEDEncounter(EncounterInpatient)

where ("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime
during LastEDVisit.relevantPeriod

or "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime
during LastEDVisit.relevantPeriod)

and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit“ and
end of Location.locationPeriod != maximum DateTime)

Global."Inpatient Encounter":

[“Encounter, Performed”: “EncounterInpatient”]

where “LengthInDays” (EncounterInpatient.relevantPeriod) <= 120 and

EncounterInpatient.relevantPeriod ends

during “Measurement Period”

Valueset:

"Encounter Inpatient" (2.16.840.1.113883.3.666.5.307)

Initial Population

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

From Global."Inpatient Encounter" EncounterInpatient

let LastEDVisit: LastEDEncounter(EncounterInpatient)

where ("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime during LastEDVisit.relevantPeriod

or "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime during LastEDVisit.relevantPeriod)

and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit" and end of Location.locationPeriod != maximum DateTime)

LastEDEncounter(EncounterInpatient “Encounter, Performed”):

Last (Global.”ED Encounter” EDVisit

where EDVisit.relevantPeriod ends 1 hour or less before or on start of EncounterInpatient.relevantPeriod
sort by end of relevantPeriod ascending)

Global.ED Encounter:

[“Encounter, Performed”: “Emergency Department Visit”]

Valueset:

"Emergency Department Visit" (2.16.840.1.113883.3.117.1.7.1.292)

Initial Population

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

From Global."Inpatient Encounter" EncounterInpatient
let LastEDVisit: LastEDEncounter(EncounterInpatient)
where ("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime during
LastEDVisit.relevantPeriod
or "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime during
LastEDVisit.relevantPeriod)
and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit" and end of
Location.locationPeriod != maximum DateTime)

AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture(EncounterInpatient "Encounter, Performed"):
Last (["Assessment, Performed": "Emergency Department Evaluation"] EDEvaluation
let LastEDVisit: "LastEDEncounter"(EncounterInpatient) where EDEvaluation.relevantDatetime during
LastEDVisit.relevantPeriod and EDEvaluation.result in "Admit Inpatient" and EDEvaluation.relevantDatetime
before or on "EDDepartureTime"(LastEDVisit)
sort by relevantDatetime)

Valueset:

"Emergency Department Evaluation" (2.16.840.1.113762.1.4.1111.163)

Initial Population

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

From Global."Inpatient Encounter" EncounterInpatient
let LastEDVisit: LastEDEncounter(EncounterInpatient)

where ("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime during
LastEDVisit.relevantPeriod

or "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime during
LastEDVisit.relevantPeriod)

and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit" and end of
Location.locationPeriod != maximum DateTime)

AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture(EncounterInpatient "Encounter, Performed"):

Last (["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder

let LastEDVisit: "LastEDEncounter"(EncounterInpatient) where AdmitOrder.authorDatetime during
LastEDVisit.relevantPeriod and AdmitOrder.authorDatetime before or on "EDDepartureTime"(LastEDVisit)

sort by authorDatetime)

Valueset:

"Decision to Admit to Hospital Inpatient" (2.16.840.1.113883.3.117.1.7.1.295)

Initial Population

Inpatient hospitalizations ending during the measurement period with length of stay less than or equal to 120 days, where the patient received services during the preceding emergency department (ED) visit at the facility when a decision to admit inpatient was made prior to departing the ED

Initial Population:

“ED Encounter with Decision to Admit”

ED Encounter with Decision to Admit:

From Global."Inpatient Encounter" EncounterInpatient
let LastEDVisit: LastEDEncounter(EncounterInpatient)
where ("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime during LastEDVisit.relevantPeriod
or "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime during LastEDVisit.relevantPeriod)
and exists (LastEDVisit.facilityLocations Location where Location.code in "Emergency Department Visit" and end of Location.locationPeriod != maximum DateTime)

Valueset:

"Emergency Department Visit" (2.16.840.1.113883.3.117.1.7.1.292)

Measure Population

Initial Population

2021 Measure Population:
“Initial Population”

2020 Measure Population :
“Initial Population”

Measure Population Exclusions

Emergency department encounters with an admission source in "Hospital Setting" (any different facility- by location or CCN) resulting in an inpatient stay

2021 Measure Population Exclusions:

Global."Inpatient Encounter" EncounterInpatient
where "LastEDEncounter" (EncounterInpatient).admissionSource in "Hospital Settings"

2020 Measure Population Exclusions :

Global."Inpatient Encounter" EncounterInpatient
with Global."ED Encounter" EDVisit
such that EDVisit.relevantPeriod ends 1 hour or less before or on start of
EncounterInpatient.relevantPeriod
and EDVisit.admissionSource in "Hospital Settings"

Measure Population Exclusions

Emergency department encounters with an admission source in "Hospital Setting" (any different facility- by location or CCN) resulting in an inpatient stay

Measure Population Exclusions:

Global."Inpatient Encounter" EncounterInpatient
where "LastEDEncounter" (EncounterInpatient).admissionSource in "Hospital Settings"

Global."Inpatient Encounter":

[“Encounter, Performed“: "Encounter Inpatient"] EncounterInpatient
where "LengthInDays"(EncounterInpatient.relevantPeriod) <= 120 and EncounterInpatient.relevantPeriod ends during "Measurement Period“

LastEDEncounter(EncounterInpatient “Encounter, Performed“):

Last (Global."ED Encounter" EDVisit
where EDVisit.relevantPeriod ends 1 hour or less before or on start of EncounterInpatient.relevantPeriod
sort by end of relevantPeriod ascending)

Valueset:

"Encounter Inpatient" (2.16.840.1.113883.3.666.5.307)

Measure Population Exclusions

Measure Population Exclusions:

Global."Inpatient Encounter" EncounterInpatient
where "LastEDEncounter" (EncounterInpatient).admissionSource in "Hospital
Settings"

"LastEDEncounter" (EncounterInpatient).admissionSource in "Hospital Settings"

Valueset:

Hospital Settings" (2.16.840.1.113762.1.4.1111.126)

Measure Observations

Median time (in minutes) from the Decision to Admit to inpatient to the time the patient physically departs the ED to inpatient hospitalization

2021 Measure Observation:

Median (duration in minutes of Interval[Coalesce("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime, "AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime), "EDDepartureTime"("LastEDEncounter"(EncounterInpatient))])

2020 Measure Observation:

Median (duration in minutes of Interval ["AdmitDecision"(Encounter).authorDatetime, "DepartureTime"("RelatedEDVisit"(Encounter))])

Measure Observations

Median time (in minutes) from the Decision to Admit to inpatient to the time the patient physically departs the ED to inpatient hospitalization

Measure Observation:

```
Median (duration in minutes of  
Interval[Coalesce("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(E  
ncounterInpatient).relevantDatetime,  
"AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterIn  
patient).authorDatetime),  
"EDDepartureTime"("LastEDEncounter"(EncounterInpatient))]  
)
```

AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture(EncounterInpatient "Encounter, Performed"):

Last (["Assessment, Performed": "Emergency Department Evaluation"] EDEvaluation
let LastEDVisit: "LastEDEncounter"(EncounterInpatient) where EDEvaluation.relevantDatetime
during LastEDVisit.relevantPeriod and EDEvaluation.result in "Admit Inpatient" and
EDEvaluation.relevantDatetime before or on "EDDepartureTime"(LastEDVisit)
sort by relevantDatetime)

Measure Observations

Median time (in minutes) from the Decision to Admit to inpatient to the time the patient physically departs the ED to inpatient hospitalization

Measure Observation:

```
Median (duration in minutes of  
Interval[Coalesce("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"(EncounterInpatient).relevantDatetime,  
"AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"(EncounterInpatient).authorDatetime), "EDDepartureTime"("LastEDEncounter"(EncounterInpatient))]  
)
```

AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture(EncounterInpatient "Encounter, Performed"):

Last (["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder
let LastEDVisit: "LastEDEncounter"(EncounterInpatient) where AdmitOrder.authorDatetime during
LastEDVisit.relevantPeriod and AdmitOrder.authorDatetime before or on
"EDDepartureTime"(LastEDVisit) sort by authorDatetime)

Measure Observations

Measure Observation:

Median (duration in minutes of Interval
[Coalesce
("AdmitDecisionUsingAssessmentDuringLastEDBeforeDeparture"
(EncounterInpatient).relevantDatetime,
"AdmitDecisionUsingEncounterOrderDuringLastEDandBeforeDeparture"
(EncounterInpatient).authorDatetime),
"EDDepartureTime"("LastEDEncounter"(EncounterInpatient))])

EDDepartureTime(Encounter "Encounter, Performed"):

Last (Encounter.facilityLocations Location
where Location.code in "Emergency Department Visit" and end of Location.locationPeriod !=
maximum DateTime return end of Location.locationPeriod
sort ascending)

LastEDEncounter(EncounterInpatient "Encounter, Performed"):

Last (Global."ED Encounter" EDVisit
where EDVisit.relevantPeriod ends 1 hour or less before or on start of
EncounterInpatient.relevantPeriod
sort by end of relevantPeriod ascending)

Stratification 1

Report total score and the following strata:

Stratification 1 - all patients seen in the ED and admitted as an inpatient who do not have an inpatient encounter principal diagnosis (rank = 1) consistent with psychiatric/mental health disorders

2021 Stratification 1:

Global."Inpatient Encounter" EncounterInpatient
where not exists (EncounterInpatient.diagnoses Diagnosis
where Diagnosis.code in "Psychiatric/Mental Health Diagnosis"
and Diagnosis.rank = 1)

2020 Stratification 1 :

Global."Inpatient Encounter" EncounterInpatient
where EncounterInpatient.principalDiagnosis is null
or not (EncounterInpatient.principalDiagnosis in "Psychiatric/Mental Health
Diagnosis")

Stratification 1 Continued

Stratification 1 - all patients seen in the ED and admitted as an inpatient who do not have an inpatient encounter principal diagnosis (rank = 1) consistent with psychiatric/mental health disorders

Stratification 1:

Global."Inpatient Encounter" EncounterInpatient
where not exists (EncounterInpatient.diagnoses Diagnosis
where Diagnosis.code in "Psychiatric/Mental Health Diagnosis"
and Diagnosis.rank = 1)

Global."Inpatient Encounter":

[“Encounter, Performed“: "Encounter Inpatient"] EncounterInpatient
where "LengthInDays"(EncounterInpatient.relevantPeriod) <= 120
and EncounterInpatient.relevantPeriod ends during "Measurement Period“

Valueset:

"Psychiatric/Mental Health Diagnosis" (2.16.840.1.113883.3.117.1.7.1.299)



Stratification 2

Report total score and the following strata:

Stratification 2 - all patients seen in the ED and admitted as an inpatient who have an inpatient encounter principal diagnosis (rank = 1) consistent with psychiatric/mental health disorders

2021 Stratification 2:

Global."Inpatient Encounter" EncounterInpatient
where exists (EncounterInpatient.diagnoses Diagnosis
where Diagnosis.code in "Psychiatric/Mental Health Diagnosis"
and Diagnosis.rank = 1)

2020 Stratification 2 :

Global."Inpatient Encounter" EncounterInpatient
where EncounterInpatient.principalDiagnosis in "Psychiatric/Mental Health Diagnosis"

Stratification 2 Continued

Stratification 2 - all patients seen in the ED and admitted as an inpatient who have an inpatient encounter principal diagnosis (rank = 1) consistent with psychiatric/mental health disorders

Stratification 2:

Global."Inpatient Encounter" EncounterInpatient
where exists (EncounterInpatient.diagnoses Diagnosis
where Diagnosis.code in "Psychiatric/Mental Health Diagnosis"
and Diagnosis.rank = 1)

Global."Inpatient Encounter":

["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient
where "LengthInDays"(EncounterInpatient.relevantPeriod) <= 120 and EncounterInpatient.relevantPeriod ends
during "Measurement Period"

Valueset:

"Psychiatric/Mental Health Diagnosis" (2.16.840.1.113883.3.117.1.7.1.299)



Question and Answer Segment

Joint Commission Pioneers in Quality eCQM Expert to Expert Webinar eCQM Annual Update



Questions for this segment were obtained from common questions submitted to JIRA and other sources

Question: Our system is mapping the admission order for ED-2 to the admission order start time. If there is an earlier time, should the earlier time be used?

Answer: The intent of ED-2 is to capture the earliest documentation of the Decision to Admit.

Question: Two value sets seem to be used for the Decision to Admit Inpatient (Assessment). Are both Emergency Department Evaluation Value Set 2.16.840.1.113762.1.4.1111.163 (LOINC) *and* Admit Inpatient Value Set 2.16.840.1.113762.1.4.1111.164 (SNOMED) considered Assessment data types?

Answer: If a concept is a question, LOINC codes are used. If a concept is an answer, SNOMED CT codes are used.

Question: Can you please clarify what != maximum date time means in the ED Encounter with Decision to Admit logic?

Answer: The operator for inequality is '!='. When the high bound of the interval is null and closed, the interval is interpreted to end at the maximum value of the point type.

Question:

- 1) For "EDEvaluation.relevantDatetime during LastEDVisit.relevantPeriod", do we need to consider relevant period of the ED encounter?
- 2) For "EDEvaluation.relevantDatetime before or on "EDDepartureTime"(LastEDVisit)", do we need to validate the 'location' attribute of the Encounter, Performed?

Answer:

- 1) Yes, because the intent is for the ED Eval to be performed within the ED encounter start and stop times.
- 2) Ensure the data is from the same facility.

Question:

- 1) If there are multiple times for decision to admit, what time would be used in the calculation for the ED-2 measure?**
- 2) Is there a source that would be used first when there are multiple times on different sources (source hierarchy)?**

Answer:

- 1) Use the latest (most recent) time during the ED encounter that preceded the inpatient admission.**
- 2) The logic will first evaluate for a relevant date/time of an ED assessment performed that resulted in a decision to admit inpatient.**

Question: Can ADT-1 documentation of a bed request be used over an ADT-9 decision to admit for Median Admit Decision Time to ED Departure Time for Admitted Patients?

Answer: There is no hierarchy for the four acceptable concepts.

Question: If there are multiple ED Visits and multiple facility locations, which one should be used?

Answer: If other specifications are met, the last qualifying ED Visit will be used by the MeasureObservation() function to calculate the interval duration in minutes.

Question: If a patient comes to the ED and a decision to admit to Observation is ordered, but then at the 23rd hour the patient is transferred to an inpatient unit, is he included in the IP?

Answer: Depends on how the chart reads after discharge.

Question: If a patient arrived to and was discharged from an emergency department in CCN 1 and is then admitted as an inpatient in CCN 2, will this patient qualify for the IPP?

Answer: If the CCN is not shared by the ED and its hospital, the patient should not be included in ED-2. The measure intends to assess the time from when the decision to admit was made to the time the patient physically departed that hospital's ED. If the hospital has an offsite ED with the same CCN as the hospital the patient is being admitted to, you may include these patients in the initial population. If the CCN is not shared by the ED and hospital, you should not include these patient.

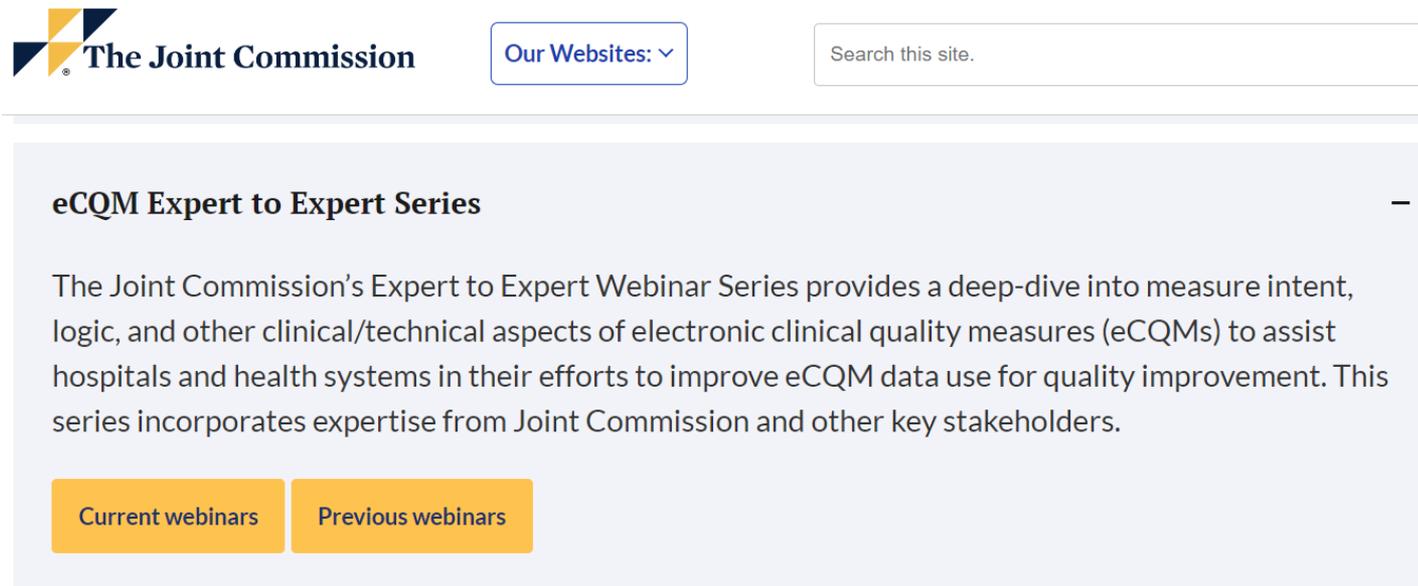
Question: Is it possible to have two CCNs for a single patient in either two QRDA-I files or a single QRDA-I file?

Answer: It is possible to have two CCNs for a single patient, however, this would not be acceptable for the ED-2 measure. The measure intends to assess the time from when the decision to admit was made to the time the patient physically departed from the hospital's ED. If the hospital has an offsite ED with the same CCN as the hospital the patient is being admitted to, these patients may be included in the initial population. If the CCN is not shared by the ED and hospital, you should not include these patient.

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References



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Resources

eCQI Resource Center – EH Measures:

<https://ecqi.healthit.gov/eligible-hospital/critical-access-hospital-ecqms>

Pioneers In Quality

<https://www.jointcommission.org/measurement/pioneers-in-quality/>

ONC Issue Tracking System

<https://oncprojecttracking.healthit.gov/>

Blueprint for the CMS Measures Management Systems version 16.0

<https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/MMS/Downloads/Blueprint.pdf>