Pioneers in QualityTM Expert to Expert Series: ED-1 & ED-2

9-10 am (PT) 10-11 am (MT) 11 am-12 pm (CT) 12-1 pm (ET)





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- Use this link to access the CC service: <u>http://www.captionedtext.com/client/event.aspx?Customerl</u> D=1519&EventID=3913562
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At the end of this session, participants will be able to:

- Apply concepts learned about the new Clinical Quality Language (CQL) expression language for the ED-1 and ED-2 eCQMs
- Identify common issues and questions regarding ED-1 and ED-2 eCQMs and
- Prepare to implement the CQL expression language for the 2019 eCQM reporting year (2020 data submission)

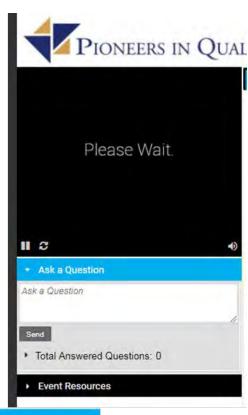
Pioneers in QualityTM Expert to Expert Series: ED-1 and ED-2



Slides are available for download now!

GoToWebCast_example_slide_deck_1 GoToWebCast_example_slide_deck_2

- To access the slides, see
 the Event Resources Pane
- Click the triangle to open the list of PDFs
- Select the slides for today's session
- A new window will open permitting you to save or print the PDFs





This program is designed to be interactive.

- All participants are connected in listen-only mode
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Pioneers in Quality[™] Expert to Expert Series: ED-1 and ED-2





In March, the webinar recording and slide deck will be accessible on The Joint Commission website via the Expert to Expert landing page

(https://www.jointcommission.org/piq_expert_to_expert_series/).

As follow-up items are posted, an email will be sent to all individuals that registered.



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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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CQL Basics Overview



Electronic Clinical Quality Measures (eCQM)

Evolving eCQM Standards



	Metadata	Data Model	Logic
Calendar Year 2018	HQMF (Metadata, Population Structure	Quality Data Model	
Calendar Year 2019	HQMF (Metadata, Population Structure	Quality Data Model	Clinical Quality Language

HUMAN READABLE







Population Criteria

▲ Initial Population

TJC. "Encounter with Principal Diagnosis and Age"

▲ Denominator

TJC. "Ischemic Stroke Encounter"

■ Denominator Exclusions

TJC. "Ischemic Stroke Encounters with Discharge Status" union TJC. "Comfort Measures during Hospitalization"

▲ Numerator

TJC. "Ischemic Stroke Encounter" IschemicStrokeEncounter with "Antithrombotic Therapy at Discharge" DischargeAntithrombotic such that DischargeAntithrombotic.authorDatetime during IschemicStrokeEncounter.relevantPeriod

Definitions

▲ Antithrombotic Not Given at Discharge

["Medication, Not Discharged": "Antithrombotic Therapy"] NoAntithromboticDischarge where NoAntithromboticDischarge.negationRationale in "Medical Reason" or NoAntithromboticDischarge.negationRationale in "Patient Refusal"

▲ Antithrombotic Therapy at Discharge

["Medication, Discharge": "Antithrombotic Therapy"]

▲ Denominator

TJC. "Ischemic Stroke Encounter"

■ Denominator Exceptions

TJC, "Ischemic Stroke Encounter" IschemicStrokeEncounter with "Antithrombotic Not Given at Discharge" NoDischargeAntithrombotic such that NoDischargeAntithrombotic.authorDatetime during IschemicStrokeEncounter.relevantPeriod

Functions

■ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

years between ToDate(BirthDateTime)and ToDate(AsOf)

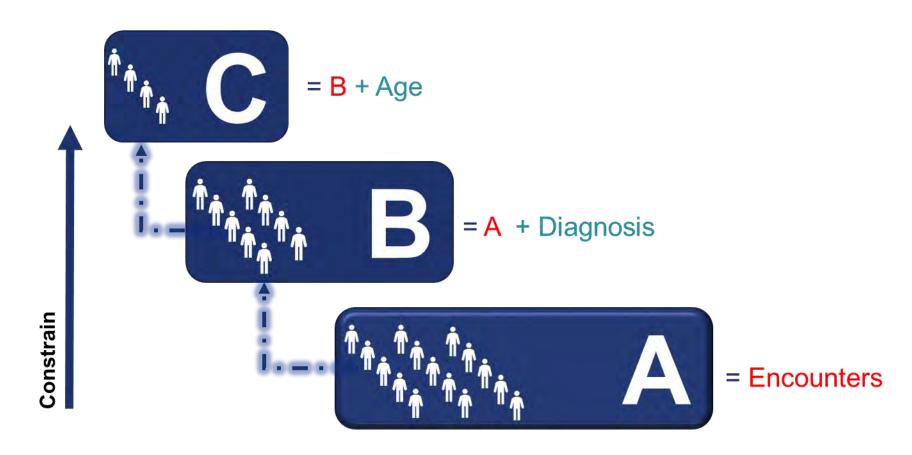
Global.Hospitalization(Encounter "Encounter, Performed")

(singleton from (["Encounter, Performed": "Emergency Department Visit"] EDVisit where EDVisit relevantPeriod ends 1 hour or less on or before start of Encounter relevantPeriod return if X is null then Encounter, relevantPeriod else Interval[start of X.relevantPeriod, end of Encounter, relevantPeriod]

Building **Blocks**



Initial Population = C



CQL Definition







Initial Population:

TJC. Encounter with Principal Diagnosis and Age

▲ TJC.Encounter with Principal Diagnosis and Age

"All Stroke Encounter" AllStrokeEncounter
with ["Patient Characteristic Birthdate"] BirthDate
such that Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of AllStrokeEncounter.relevantPeriod) >= 18

▲ TJC.All Stroke Encounter



Definition Anatomy



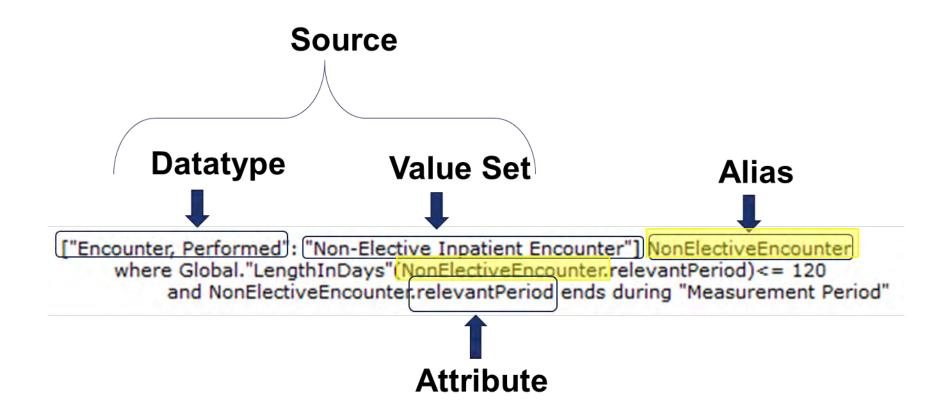
Definitions are made up of:



["Encounter, Performed": "Non-Elective Inpatient Encounter"] NonElectiveEncounter where Global. "LengthInDays" (NonElectiveEncounter.relevantPeriod) <= 120 and NonElectiveEncounter.relevantPeriod ends during "Measurement Period"







Definition Anatomy- Value Sets

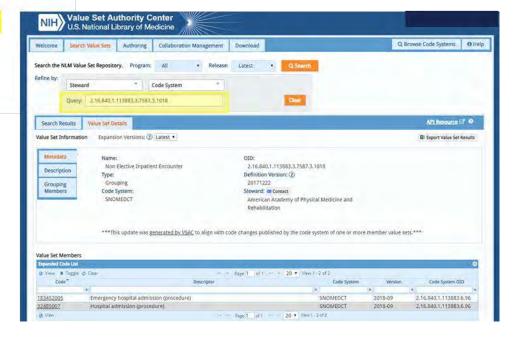






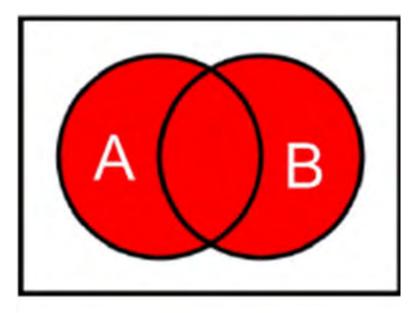
Terminology

- valueset "Antithrombotic Therapy" using "2.16.840.1.113883.3.117.1.7.1.201"
- valueset "Comfort Measures" using "1.3.6.1.4.1.33895.1.3.0.45"
- valueset "Discharge To Acute Care Facility" using "2.16.840.1.113883.3.117.1.7.1.87"
- valueset "Discharged to Health Care Facility for Hospice Care" using "2.16.840.1,113883.3.117,1,7,1.207"
- valueset "Discharged to Home for Hospice Care" using "2.16.840.1.113883.3.117.1.7.1.209"
- valueset "Emergency Department Visit" using "2.16.840.1.113883.3.117.1.7.1.292"
- valueset "Ethnicity" using "2.16.840.1.114222.4.11.837"
- valueset "Hemorrhagic Stroke" using "2.16.840.1.113883.3.117.1.7.1.212"
- valueset "Ischemic Stroke" using "2.16.840.1.113883.3.117.1.7.1.247"
- valueset "Left Against Medical Advice" using "2.16.840.1.113883.3.117.1.7.1.308"
- valueset "Medical Reason" using "2.16.840.1.113883.3.117.1.7.1.473"
- valueset "Non-Elective Inpatient Encounter" using "2.16.840.1.113883.3.117.1.7.1.424"
- valueset "ONC Administrative Sex" using "2.16.840.1.113762.1.4.1"
- valueset "Patient Expired" using "2.16.840.1.113883.3.117.1.7.1.309"
- valueset "Patient Refusal" using "2.16.840.1.113883.3.117.1.7.1.93"
- valueset "Payer" using "2.16.840.1.114222.4.11.3591"
- valueset "Race" using "2.16.840.1.114222.4.11.836"



Common CQL Operators





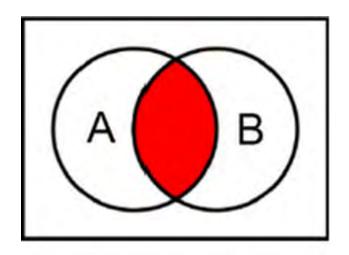
union

Example: Combining a list of Diagnoses ▲ History of Uterine Surgery Diagnosis

```
["Diagnosis": "Perforation of Uterus"]
      union ["Diagnosis": "Uterine Window"]
union ["Diagnosis": "Uterine Rupture"]
      union ["Diagnosis": "Cornual Ectopic Pregnancy"]
```

Common CQL Operators





intersect

Example:

List A= All inpatient encounters with age ≥ 18 List B= All encounters with a CBC level

Result of intersection=

a list of any inpatient encounters with age >

and a CBC level

Angela Flanagan, MSN, RN, CPHIMS ED Measures



Changes Specific to the ED Measures for Version 7



- Replaced QDM logic with CQL logic
- Replaced the word Stratum with Stratification to align with CQL
- Removed 'Transfer from' datatype to conform with QDM
- Replaced 'Discharge status' attribute with 'Discharge Disposition'
- Replaced 'Transfer from' with 'admission Source'
- Replaced <= 6 hours timing constraint with logic that ties the 'admissionSource' to the Inpatient and ED Encounter visits
- Replaced QDM timings with supplemental timing attributes. These timing intervals include prevalence period, relevant period, and Author Datetime.

ED Value Set Changes



Renamed the Psychiatric/Mental Health Patient value set to Psychiatric/Mental Health Patient Diagnosis (2.16.840.1.113883.3.117.1.7.1.299)

- Added 6 ICD10CM codes (F12.23, F12.93, F53.0, F68.A, Z62.813, Z91.42) and deleted 1 ICD10CM code (F53).
- Deleted 5 Invalid SNOMEDCT codes (191536002, 191537006, 191540006, 1938002, 230290000)

Introduction



Reducing the time patients remain in the emergency department (ED) can improve access to treatment and increase quality of care. Reducing this time potentially improves access to care specific to the patient condition and increases the capability to provide additional treatment.

ED-1- The measure is assessing the median time (*in minutes*) from emergency department arrival to time of departure from the emergency room for patients admitted to the facility from the emergency department.

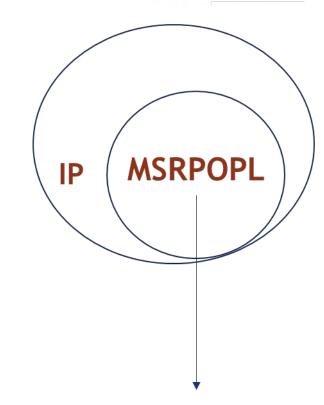
ED-2- The measure is assessing the median time (*in minutes*) from admit decision time to time of departure from the emergency department for emergency department patients admitted to inpatient status.

Continuous Variable

The Joint Commission

CMS Lantana

- Episodes of care are classified using the IP criteria, and those satisfying the criteria are included in the initial population (IP).
- The members of the IP are classified using the Measure Population (MSRPOPL) criteria, and those satisfying the criteria are included in the Measure Population.
- 3. Each member of the Measure Population is evaluated according to the criteria defined in the Measure Observations criteria, and all of these results are aggregated using the specified operator.



ED Discharge datetime
- ED Admission datetime

Aggregation Calculations



Calculate the ED encounter duration in minutes for each ED encounter in the measure population; report the median time for all calculations performed.

Also stated as:

Datetime difference between the Emergency Department discharge time and the Emergency Department admission time. The calculation requires the median across all ED encounter durations.

- **¬IP**: Inpatient Encounters
- -MSRPOPL: Admitted to hospital from ED
- -MSRPOPLEX: None
- MSRPOPL Observation: # minutes in ED
- Aggregate MSRPOPL: Median minutes in ED

Stratification



Describes the strata for which the measure is to be evaluated.

Evaluate the eCQM based on a specific condition

- those with a primary mental health diagnosis
- those without a primary mental health diagnosis

Angela Flanagan, MSN, RN, CPHIMS

ED-1- Median Time from Emergency Department (ED) Arrival to ED Departure for Admitted ED Patients (CMS55v7)



Initial Population

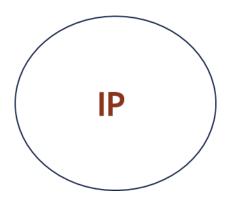


Narrative

Inpatient Encounters ending during the measurement period with Length of Stay (Discharge Date minus Admission Date) less than or equal to 120 days, and preceded within an hour by an emergency department visit at the same physical facility

▲ Initial Population

/*Emergency Department visit followed by an Inpatient encounter within or at an hour of the ED Visit*/
"Inpatient Encounter" Encounter
with ["Encounter, Performed": "Emergency Department Visit"] EDVisit
such that EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod



Initial Population Continued







▲ Initial Population



/*Emergency Department visit followed by an Inpatient encounter within or at an hour of the ED Visit*/ "Inpatient Encounter" Encounter

with ["Encounter, Performed": "Emergency Department Visit"] EDVisit such that EDVisit relevantPeriod ends 1 hour or less before or on start of Encounter relevantPeriod

▲ Inpatient Encounter

/*Inpatient encounter less than or equal to 120 days during the measurement period*/ ["Encounter, Performed": "Encounter Inpatient"] Encounter where Global."LengthInDays"(Encounter.relevantPeriod)<= 120 and Encounter, relevant Period ends during "Measurement Period"

▲ Global.LengthInDays(Value Interval<DateTime>)

difference in days between start of Value and end of Value

ED-1 Measure Population



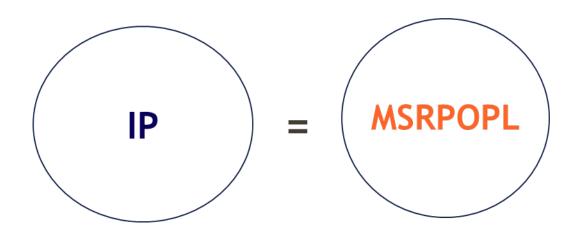
Narrative

Equals Initial Population

Logic

■ Measure Population

"Initial Population"



ED-1 Measure Population Exclusions



Narrative

Emergency department encounters with an admission source from another "Hospital Setting" (any different facility, even if part of the same hospital system) resulting in an inpatient stay.

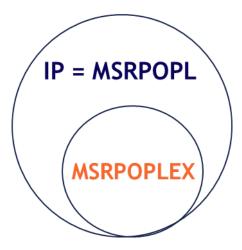
Logic

■ Measure Population Exclusions

/*Exclude ED encounters with an admission source in "Hospital Setting" (any different facility, even if part of the same hospital system) resulting in an inpatient stay*/

"Inpatient Encounter" Encounter

with ["Encounter, Performed": "Emergency Department Visit"] EDVisit
such that EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod
and EDVisit.admissionSource in "Hospital Settings"



ED-1 Measure Observation



Narrative

Time (in minutes) from ED admission to ED discharge for patients admitted to the facility from the emergency department.

Logic

▲ Measure Observation

```
Median (
/*Time from ED facility location arrival to ED facility location Departure*/
duration in minutes of "Arrival and Departure Time"("Related ED Visit"(Encounter))
)
```

Median - the middle value in a set 52, 75, 102, 132, 155

Measure Observation Arrival and Departure Time



▲ Arrival and Departure Time(Encounter "Encounter, Performed")

/*Emergency Department arrival and departure times*/
Interval[Global."Emergency Department Arrival Time"(Encounter), "Emergency Department Departure Time"(Encounter)]

▲ Global.Emergency Department Arrival Time(Encounter "Encounter, Performed")

```
start of ( singleton from ( ( "Hospitalization Locations"(Encounter)) HospitalLocation where HospitalLocation.code in "Emergency Department Visit"

) ).locationPeriod
```

▲ Global.Hospitalization Locations(Encounter "Encounter, Performed")

```
( singleton from ( ["Encounter, Performed": "Emergency Department Visit"] EDVisit
where EDVisit.relevantPeriod ends 1 hour or less on or before start of Encounter.relevantPeriod
) ) EDEncounter
return if EDEncounter is null then Encounter.facilityLocations else flatten { EDEncounter.facilityLocations, Encounter.facilityLocations }
```

▲ Emergency Department Departure Time(Encounter "Encounter, Performed")

```
end of Last((Global."Hospitalization Locations"(Encounter))HospitalLocation where HospitalLocation.code in "Emergency Department Visit" ).locationPeriod
```

▲ Global.Hospitalization Locations(Encounter "Encounter, Performed")

```
( singleton from ( ["Encounter, Performed": "Emergency Department Visit"] EDVisit
where EDVisit.relevantPeriod ends 1 hour or less on or before start of Encounter.relevantPeriod
)) EDEncounter
return if EDEncounter is null then Encounter.facilityLocations else flatten { EDEncounter.facilityLocations, Encounter.facilityLocations }
```

Measure Observation Related to ED Visit



▲ Measure Observation

```
Median (
/*Time from ED facility location arrival to ED facility location Departure*/
duration in minutes of "Arrival and Departure Time"("Related ED Visit"(Encounter))
)
```

▲ Related ED Visit(Encounter "Encounter, Performed")

Stratification 1



Narrative

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 consistent with psychiatric/mental health disorders

Logic

■ Stratification 1

```
/*Patients without a principal diagnosis in the "Psychiatric/Mental Health Diagnosis" value set*/
"Inpatient Encounter" Encounter
where Encounter.principalDiagnosis is null
or not ( Encounter.principalDiagnosis in "Psychiatric/Mental Health Diagnosis" )
```

Stratification 2



Narrative

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 consistent with psychiatric/mental health disorders

Logic

■ Stratification 2

/*Patients with a principal diagnosis that is in the "Psychiatric/Mental Health Diagnosis" value set*/
"Inpatient Encounter" Encounter

where Encounter.principalDiagnosis in "Psychiatric/Mental Health Diagnosis"

ED-1 Value Sets



Value Set Name

"Psychiatric/Mental Health Patient"

"Emergency Department Visit"

"Encounter Inpatient"

"Hospital Settings"

Object Identifier (OID)

"2.16.840.1.113883.3.117.1.7.1.299"

"2.16.840.1.113883.3.117.1.7.1.292"

"2.16.840.1.113883.3.666.5.307"

"2.16.840.1.113762.1.4.1111.126"

Angela Flanagan, MSN, RN, CPHIMS

ED-2- Median Admit Decision Time to ED Departure for Admitted Patients (CMS111v7)



ED-2 Initial Population



Narrative

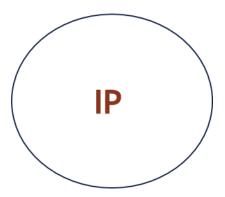
Inpatient Encounters ending during the measurement period with Length of Stay (Discharge Date minus Admission Date) less than or equal to 120 days, and where the decision to admit was made during the preceding emergency department visit at the same physical facility

Logic

▲ Initial Population

/*Emergency Department visit with a Decision to Admit inpatient followed by an Inpatient encounter within or at an hour of the ED Visit*/
"Inpatient Encounter" Encounter

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



Initial Population



▲ Initial Population

/*Emergency Department visit with a Decision to Admit inpatient followed by an Inpatient encounter within or at an hour of the ED Visit*/
"Inpatient Encounter" Encounter

with "ED Visit with Admit Order" EDAdmitOrder

such that EDAdmitOrder, relevantPeriod ends 1 hour or less before or on start of Encounter, relevantPeriod

▲ Inpatient Encounter

/*Inpatient encounter less than or equal to 120 days during the measurement period*/
["Encounter, Performed": "Encounter Inpatient"] Encounter
where Global. "LengthInDays" (Encounter. relevant Period) <= 120
and Encounter. relevant Period ends during "Measurement Period"

▲ Global.LengthInDays(Value Interval<DateTime>)

difference in days between start of Value and end of Value

▲ ED Visit with Admit Order

/*ED visit during the specified period with a Decision to admit order also during that specified period*/
["Encounter, Performed": "Emergency Department Visit"] EDVisit
with ["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder
such that AdmitOrder.authorDatetime during EDVisit.relevantPeriod
and AdmitOrder.authorDatetime before or on "Departure Time"(EDVisit)

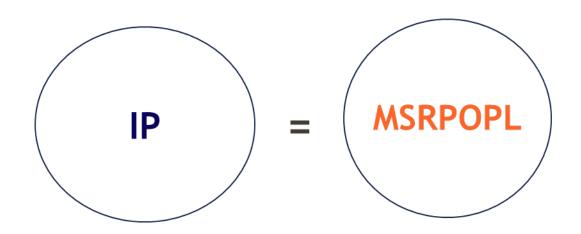
ED-2 Measure Population



Narrative Equals Initial Population

▲ Measure Population

"Initial Population"



ED-2 Measure Population Exclusions



Narrative

Setting" (any different facility, even if part of the same hospital system) resulting in an inpatient stay

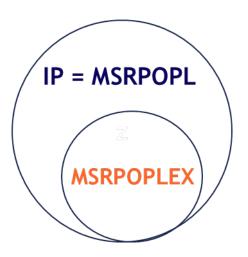
Logic

▲ Measure Population Exclusions

/* Exclude ED encounters with an admission source in "Hospital Setting" (any different facility, even if part of the same hospital system) resulting in an inpatient stay */

"Inpatient Encounter" Encounter

with ["Encounter, Performed": "Emergency Department Visit"] EDVisit
such that EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod
and EDVisit.admissionSource in "Hospital Settings"



ED-2 Measure Observation



Narrative

Time (in minutes) from Decision to Admit to ED facility location departure for patients admitted to the facility from the emergency department

Logic

▲ Measure Observation

```
Median (
/* the duration from the Decision to Admit to the departure from the Emergency Department*/
duration in minutes of Interval["Admit Decision"(Encounter).authorDatetime, "Departure Time"("Related ED Visit"(Encounter))]
)
```

Measure Observation Continued



▲ Admit Decision(Encounter "Encounter, Performed")

/*Decision to admit order that was during the ED visit that is being referenced*/
Last(["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder
where AdmitOrder.authorDatetime during "Related ED Visit"(Encounter).relevantPeriod
sort by authorDatetime

▲ Related ED Visit(Encounter "Encounter, Performed")

/*ED visit with a Decision to admit order that preceded an inpatient encounter*/
Last(["Encounter, Performed": "Emergency Department Visit"] EDVisit
with ["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder
such that AdmitOrder.authorDatetime during EDVisit.relevantPeriod
where EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod
sort by start of relevantPeriod

Measure Observation Continued 2



▲ Departure Time(Encounter "Encounter, Performed")

▲ Related ED Visit(Encounter "Encounter, Performed")

```
/*ED visit with a Decision to admit order that preceded an inpatient encounter*/
Last(["Encounter, Performed": "Emergency Department Visit"] EDVisit
with ["Encounter, Order": "Decision to Admit to Hospital Inpatient"] AdmitOrder
such that AdmitOrder.authorDatetime during EDVisit.relevantPeriod
where EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod
sort by start of relevantPeriod
```

ED-2 Stratification 1



Narrative

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 consistent with psychiatric/mental health disorders

■ Stratification 1

/*Patients without a principal diagnosis in the "Psychiatric/Mental Health Diagnosis" value set*/
"Inpatient Encounter" Encounter
where Encounter.principalDiagnosis is null
or not (Encounter.principalDiagnosis in "Psychiatric/Mental Health Diagnosis")

ED-2 Stratification 2



Narrative

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 consistent with psychiatric/mental health disorders

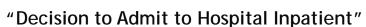
■ Stratification 1

/*Patients without a principal diagnosis in the "Psychiatric/Mental Health Diagnosis" value set*/
"Inpatient Encounter" Encounter
where Encounter.principalDiagnosis is null
or not (Encounter.principalDiagnosis in "Psychiatric/Mental Health Diagnosis")

ED-2 Value Sets



Value Set Name



[&]quot;Psychiatric/Mental Health Patient"

Object Identifier (OID)

"2.16.840.1.113883.3.117.1.7.1.295"

"2.16.840.1.113883.3.117.1.7.1.299*"*

"2.16.840.1.113883.3.117.1.7.1.292"

"2.16.840.1.113883.3.666.5.307"

"2.16.840.1.113762.1.4.1111.126"

[&]quot;Emergency Department Visit"

[&]quot;Encounter Inpatient"

[&]quot;Hospital Settings"

Frequently Asked Questions









ED-1 Question



Question:

If we have two data points for the ED END time, should we choose the earliest or the latest time?

Response:

The Encounter Performed: Emergency Department Visit <= 1 hour ends before or concurrent with the start of the inpatient encounter assesses the ED discharge datetime. For this instance, the Discharge Datetime is defined as the date and time that the patient was discharged from an emergency department encounter. If there is more than one discharge time, use the one closest to the inpatient encounter admission time.

ED-2 Question



Question:

ED - 2: If there are more than one documented orders to Admit Decision time which one do we use?

Response:

If there are multiple dates documented for the decision to admit to inpatient, please use latest date.

Question 2 Continued



Encounter 1			
ED Encounter (visit) <= 1hr prior to inpatient encounter	Admit ED at 7:30 am		
Decision to Admit	7:45 am - patient refused		
ED Encounter Discharge	ED 8:00 am		
Inpatient encounter <= 120 days during MP	0 days		
Encounter 2			
ED Encounter (visit) <= 1hr prior to inpatient encounter	Admit ED at 8:15 am		
Decision to Admit	8:15 am		
ED Encounter Discharge	8:25 am		
Inpatient encounter <= 120 days during MP	Inpatient Admit 8:25 - 2 days		



Question:

When mapping the ED-2 data elements to collect the Decision to Admit Date & Time, if we have several elements with time stamps; such as Decision to Admit ORDER Date & Time, Bed Request Date & Time, are both of these time stamps acceptable to use?

Response:

Yes, Decision to Admit Order date/time and Bed Request date/time are acceptable. The Guidance section of the header provides: Decision to Admit:1) admission order (this may be an operational order rather than the hospital admission to inpatient status order), 2) disposition order (must explicitly state to admit), 3) documented bed request, or 4) documented acceptance from admitting physician. This is not the "bed assignment time" or "report called time".

Question 3 Continued – Decision to Admit



Event	Timing 9/15/2018				
ED Arrival	6:30 am				
Decision to Admit (bed assignment)	7:15 am (non qualifying reason)				
Inpatient(disposition order)	8:00 am (does not state to admit)				
Decision to Admit (order to admit)	8:15 am				
Decision to Admit (not specified)	8:30 am (unspecified if an order)				
ED Encounter Discharge	8:30 am				
Departure from ED	8:45 am				
Decision to Admit (order to admit)	9:00 am (after ED departure)				
ED Encounter (visit) <= 1hr prior to inpatient encounter	6:30 - 8:30				
Inpatient Admit	8:30 am				
Inpatient encounter <= 120 days during MP	2 days				



Question:

ED - 1: almost all of our patients are admitted to inpatient status prior to physical departure from the ED. The initial population requires that the patient has to have been admitted within one hour AFTER an ED departure. Most of our population is then excluded from the measure.

Response:

ED-1 is intended to include ED visits in the Measure population where there was a subsequent Inpatient Encounter at the same facility. The initial population requires that the patient be admitted within 1 hour of the **ED Discharge** time. Patient status to Inpatient may be synonymous with ED Discharge datetime. Some vendors use the same time for ED discharge and Inpatient admission which led to the addition of concurrent with to the ED Inpatient logic.

Answer 4 Continued



Inpatient
Admission and
ED Admit ED Discharge



Initial Population:

...Global. "LengthInDays" (Encounter.relevantPeriod) <= 120 -Inpatient discharge date minus the inpatient admission date

...EDVisit.relevantPeriod ends 1 hour or less before or on start of Encounter.relevantPeriod

- Inpatient admission dateTime minus the ED discharge dateTime

Measure Observation: - duration in minutes of "Arrival and Departure Time" ("Related ED Visit" (Encounter))

-ED departure datetime minus ED arrival dateTime



Question:

Why does the decision to admit value set include Hospital admission, for observation (procedure) 76464004?

Response:

Because the measure is looking for the time between when a decision is made to admit (essentially move the patient out the ED) to when they actually leave the ED, any status that would result in moving the patient out of the ED to a hospital bed is acceptable.



Question:

Clarification on ED-2 times for patients in ED observation Does ED-1 and ED-2 include OBSERVATION patients or just those patients with an ADMIT order?

Response:

Both measures use Encounter Inpatient

2.16.840.1.113883.3.666.5.307 and Emergency Department Visit 2.16.840.1.113883.3.117.1.7.1.292 values sets which do not include any observation codes in the initial population.

ED -1/ED-1 initial population does not include any Observation patients.

ED -2 Decision to Admit to Hospital Inpatient 2.16.840.1.113883.3.117.1.7.1.295 does include Hospital admission, for observation (procedure).

Question 5 & 6 Follow Up



"Inpatient Encounter" Encounter

(No observation codes for ED-1 or ED-2)

with "ED Visit with Admit Order" EDAdmitOrder (ED-2 has observation code)

such that EDAdmitOrder.relevantPeriod ends 1 hour or less before

or on start of Encounter.relevantPeriod

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



Question:

Request clarification for timing of admit datetime and decision to admit.

Admission Date: This data element is used to determine the LOS. ED-1 and ED-2 initial patient population specifications includes patients discharged from acute inpatient care with Length of Stay (Discharge Date minus Admission Date) less than or equal to 120 days. This is best represented by the date the patient is admitted for acute inpatient care and not when they are admitted to observation status.

Decision to Admit: This is used along with the ED Departure Date & Time to determine the length of time between when a decision is made to admit the patient to the hospital and when they actually leave the ED. Because the measure is looking for the time between when a decision is made to admit (essentially move the patient out the ED) to when they actually leave the ED, any status that would result in moving the patient out of the ED to a hospital bed is acceptable. A decision to admit order to observation or inpatient status represents a decision to move the patient out of the ED.



Question:

Unsure of what 'hospital' settings to exclude from ED measures

Response:

Value sets are what constrains the concept Admission Source in "Hospital Settings".

The Hospital Settings value set aims to capture if the patient is transferred to your hospital from an outside hospital where he was considered an inpatient or outpatient. If so, this patient would be excluded.



Ouestion:

"Singleton From" and throwing run time errors

ED - 1 uses the "Singleton From" function. I am concerned about this because the IG for CQL says (in section 9.10.21) that *"If the list contains more than one element, a run-time error is thrown."

Response:

Use the qualifying ED encounter that is closest to the inpatient admission



Question:

What is a good resource when learning about eCQMs and CQL?

Response:

The eCQI Resource Center

The one-stop shop for the most current resources to support Electronic Clinical Quality Improvement

https://ecqi.healthit.gov



Question:

Where can I get answers to reporting requirement questions?

Response:

For inquiries regarding reporting requirements, please contact the help desk:

CMS EHR Information Center Help Desk: (888) 734-6433/TTY: (888) 734-6563.

Hours of operation: Monday-Friday 8:30am-4:30pm in all time zones (except Federal holidays).

Resources



- 1. eCQI Resource Center: https://ecqi.healthit.gov/cql
 - One stop shop for all information related to eCQM's
 - Find EH program information via: https://ecqi.healthit.gov/eligible-hospital/critical-access-hospital-ecqms such as:
 - Measure specifications
 - Technical Release Notes- which states all changes made to each measure during annual updates and during the addendum (code updates)
 - eCQM Measure Flows- to help understand the measure algorithms
 - Links to many Educational Resources such as:
 - CQL Standards: https://ecqi.healthit.gov/cql-clinical-quality-language
 - QDM (Quality Data Model): https://ecqi.healthit.gov/qdm-quality-data-model
 - QDMv5.3 Annotated is used for the 2019 reporting
 - eCQM Implementation Check List: https://ecqi.healthit.gov/ecqm-implementation-checklist
 - Previous recordings & slide deck presentations: https://ecqi.healthit.gov/cql/cql-educational-resources
 - Events page to see and register for upcoming educational events https://ecqi.healthit.gov/ecqi/ecqi-events
- 2. Value Set Authority Center (VSAC): https://vsac.nlm.nih.gov/
 - To look up the codes listed in the value sets of a measure
 - Requires license but free of charge
 - Quick link to download valuesets/Direct reference codes from the VSAC: https://vsac.nlm.nih.gov/download/ecqm?rel=20180917

Resources



- 3. Technical COL Resources:
 - Formatting and Usage: https://github.com/esacinc/CQL-Formatting-and-Usage-Wiki/wiki
 - CQL GitHub Tools Repository: https://github.com/cqframework/clinical_quality_language
 - CQL Specification CQL Release 1, Standard for Trial Use (STU) 2
 - http://www.hl7.org/implement/standards/product_brief.cfm?product_id=400
 - http://cql.hl7.org/STU2/index.html
 - CQL-Based HQMF IG Release 1, STU 2.1
 - http://www.hl7.org/implement/standards/product_brief.cfm?product_id=405
- 4. To submit an issue ticket for a CQL specific question, please visit the ONC JIRA site
 - https://oncprojectracking.healthit.gov/support/projects/CQLIT
- 5. To submit an issue ticket for a measure specific question, please visit the ONC JIRA site
 - https://oncprojectracking.healthit.gov/support/projects/CQM/issues
- 6. Pioneers in Quality Expert to Expert Replays and Slides: https://www.jointcommission.org/piq_expert_to_expert_series/
- 7. Pioneers in Quality Portal: https://www.jointcommission.org/topics/pioneers_in_quality.aspx

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Pioneers in QualityTM Expert to Expert Series: ED-1 and ED-2





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Pioneers in QualityTM Expert to Expert Series: ED-1 and ED-2

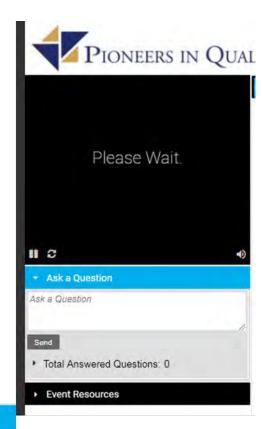


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Pioneers in QualityTM

Expert to Expert Series: ED-1 and ED-2

Language (CQL) logic expression language for t
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connecting you with eCQM developers in an "off
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Session	Date	Registration Link	Slides	Transcripts	Recording	Q&A
PIQ#6: eCQM Clinical Quality Language (CQL) Basics Webinar for Hospitals	29- Nov- 18	NA – Session has already occurred	11/29 PDF slide deck	11/29 PDF transcript	Not yet available	Not yet available
EE#1: STK-2, -3, & -6	11- Dec- 18	NA – Session has already occurred	12/11 PDF slide deck	Not yet available	Not yet available	Not yet available
EE#2: STK-5 and AMI- 8a	29- Jan- 18	https://attendee.gotowebinar.com/register/3913740621068329729	To be posted following session	To be posted following session	To be posted following session	To be posted following session
EE#3: ED-1 and -2	12- Feb- 19	https://attendee.gotowebinar.com/register/8053319436273286145	To be posted following session	To be posted following session	To be posted following session	To be posted following session
EE#4: VTE-1 and -2	26- Feb- 19	https://attendee.gotowebinar.com/register/129573441984732417	To be posted following session	To be posted following session	To be posted following session	To be posted following session
EE#5: CAC-3 and EDHI-1a	5- Mar- 19	https://attendee.gotowebinar.com/register/7092534290085603329	To be posted following session	To be posted following session	To be posted following session	To be posted following session
EE#6: PC-01 and 05	26- Mar- 19	https://attendee.gotowebinar.com/register/1876921718893015041	To be posted following session	To be posted following session	To be posted following session	To be posted following session

Pioneers in Quality[™] Expert to Expert Series: ED-1 and ED-2











2018 Proven Practices Collection and Webinar Series

Four hospitals and/or health systems were recognized as 2018 Pioneers in Quality™ Expert Contributors for their efforts to advance the evolution and utilization of electronic clinical quality measures (eCQMs). These organizations presented during the Joint Commission's Pioneers in Quality™ 2018 eCQM Proven Practices webinar series and are featured within the 2018 Proven Practice Collection along with the five Experts Contributors recognized in 2017, You can access the 2018 Proven Practices Collection here.

- August 23, 11 a.m. CT: "Electronic health record (EHR) refinement and system EHR transition," presented by Expert Contributors Medstar St. Mary's Hospital and BJC Healthcare. For more information, including the session recording, slides, and Q&A visit the <u>webinar landing page</u>.
- September 18, 1 p.m. CT: "An evolutionary approach and a model of collaboration," presented by Expert Contributors Vail Health Hospital and Texas Health Resources. For more information, including the session recording, slides, and Q&A visit the <u>webinar landing page</u>.
- Proven Practices Webinar Series. For more information, including links to all 2017 and 2018 session's recordings, slides, and Q&A, see the <u>Proven</u> <u>Practices landing page</u>.

About the Program

Pioneers in Quality (PIQ) is a Joint Commission program to assist hospitals on their journey towards electronic clinical quality measure adoption that includes educational programs (e.g., webinars for CEUs), a resource portal, recognition



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