

# Pioneers in Quality™ Expert to Expert Series:

PC-01 - Elective Delivery &

PC-05 - Exclusive Breast Milk Feeding

9-10 am (PT)

10-11 am (MT)

11 am-12 pm (CT)

12-1 pm (ET)

March 26, 2019



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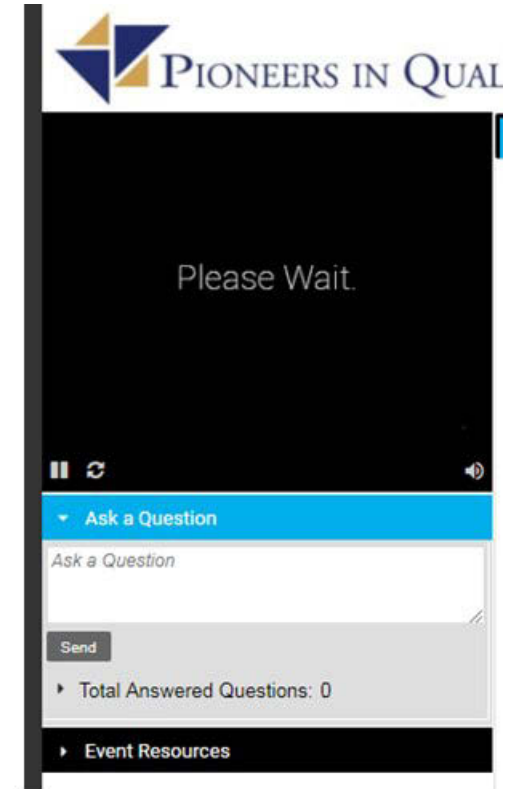
— The event confirmation number is 3920881.

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 PC-01 & PC-05 eCQMs
- Identify common issues and questions regarding PC-01 & PC-05 eCQMs and
- Prepare to implement the CQL expression language for the 2019 eCQM reporting year (2020 data submission)

## Slides are available for download now!

- 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**
- Ask questions through the Questions pane
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# Pioneers in Quality™

## Expert to Expert Series: PC-01 & PC-05



The screenshot shows the The Joint Commission website. The top navigation bar includes links for Log In, Request Guest Access, Contact Us, Careers, JCR Web Store, and Press Room. Below this is a search bar. The main navigation bar has links for Accreditation, Certification, Standards, Measurement (highlighted), Topics, About Us, and Daily Update. The page title is 'Pioneers in Quality'. The sidebar on the left contains links for 'Pioneers in Quality - Home' and 'Proven Practices Webinar Series'. The main content area features the '2018 Proven Practices Collection and Webinar Series' section, which describes the 2018 eCQM Proven Practices webinar series and provides a link to the 'Proven Practices Collection here'. The right sidebar contains a video player titled 'Pioneers in Quality: eCQM "Expert to Expert" Series' with a link to 'Series Information/Session Replays' and a 'Promotional Video' link. An orange arrow points to the video player.

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/](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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Yanyan Hu, MS

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PC-01 - Elective Delivery (CMS113)

PC-05 - Exclusive Breast Milk Feeding (CMS9)

March 26, 2019



## PC-01 Elective Delivery (CMS113)

**Description:** Patients with elective vaginal deliveries or elective cesarean births at  $\geq 37$  and  $< 39$  weeks of gestation completed

- ACOG and AAP standard 39 weeks gestation prior to ELECTIVE delivery
- Common practice to deliver early without medical indication
- Mostly for convenience
- Significant short-term neonatal morbidity and high NICU admission rates
- Results in more cesarean births and longer maternal length of stay
- Recent studies support successful reduction in many hospitals
- National rates have decreased from nearly 14% to less than 2%

Yanyan Hu, MS

# 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

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.relevantPeriodDefinitions

## ▲ 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.relevantPeriodFunctions

## ▲ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

years between ToDate(BirthDateTime)and ToDate(AsOf)

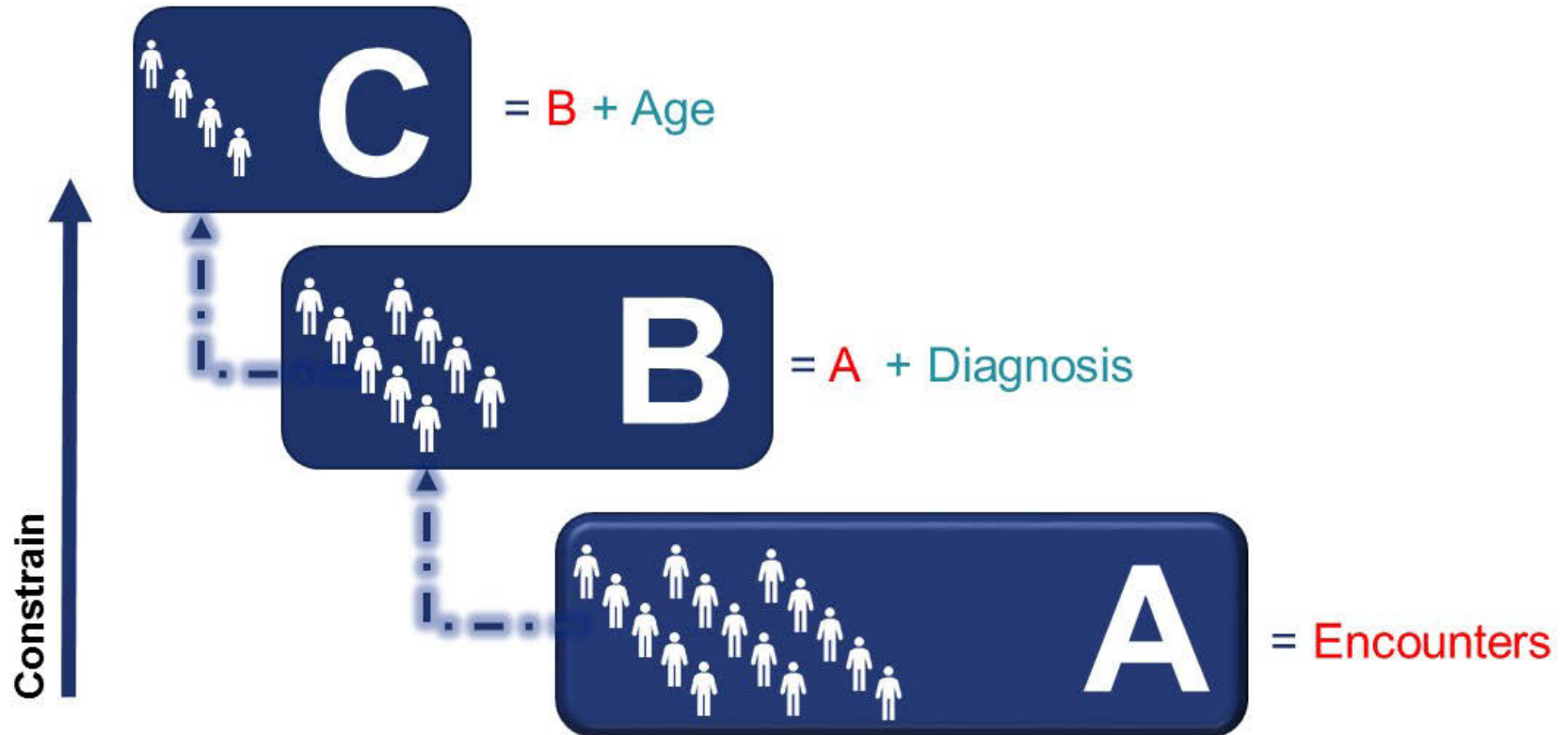
## ▲ Global.Hospitalization(Encounter "Encounter, Performed")

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

# CQL Definition

Example of Generic Population Criteria

## Initial Population = C



## Initial Population:

TJC.Encounter with Principal Diagnosis and Age

### ▲ TJC.Encounter with Principal Diagnosis and Age

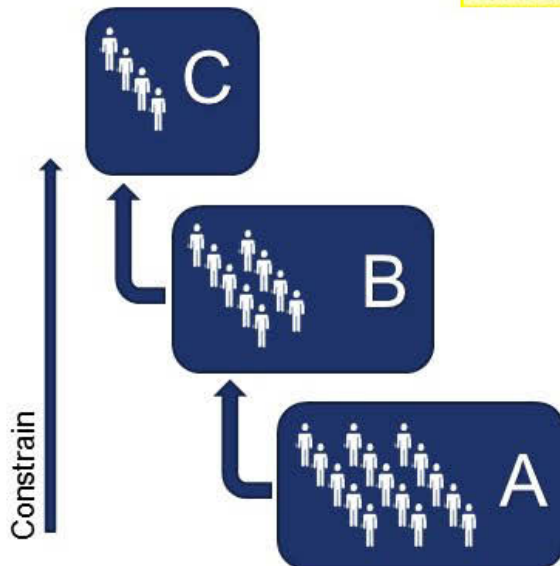
"All Stroke Encounter" AllStrokeEncounter  
with ["Patient Characteristic Birthdate"] BirthDate  
such that Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of AllStrokeEncounter.relevantPeriod)  $\geq 18$

### ▲ TJC.All Stroke Encounter

"Non Elective Inpatient Encounter" NonElectiveEncounter  
where NonElectiveEncounter.principalDiagnosis in "Hemorrhagic Stroke"  
or NonElectiveEncounter.principalDiagnosis in "Ischemic Stroke"

### ▲ TJC.Non Elective Inpatient Encounter

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





# Definition Anatomy

Definitions are made up of:

**Library Alias**

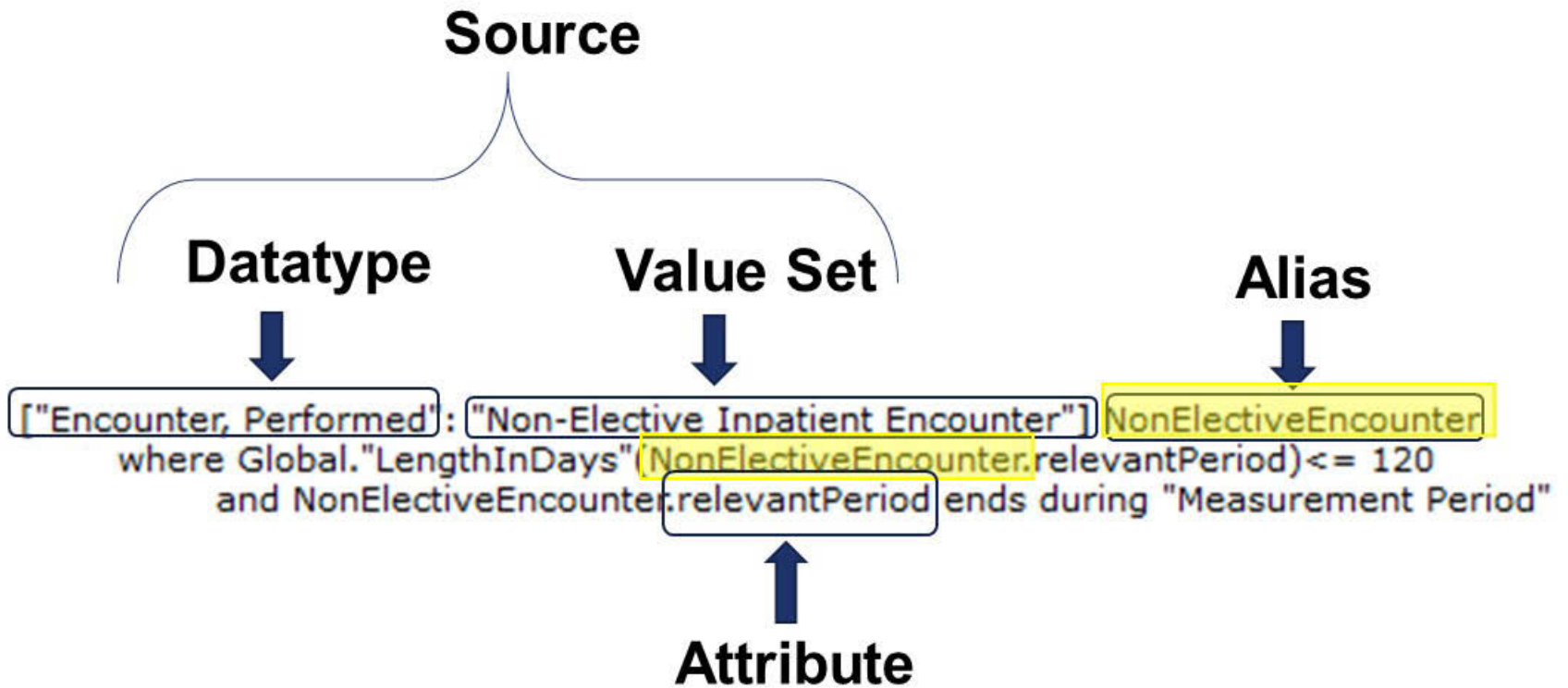
**Name**

▲ **TJC.Non Elective Inpatient Encounter**

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

**Expression**

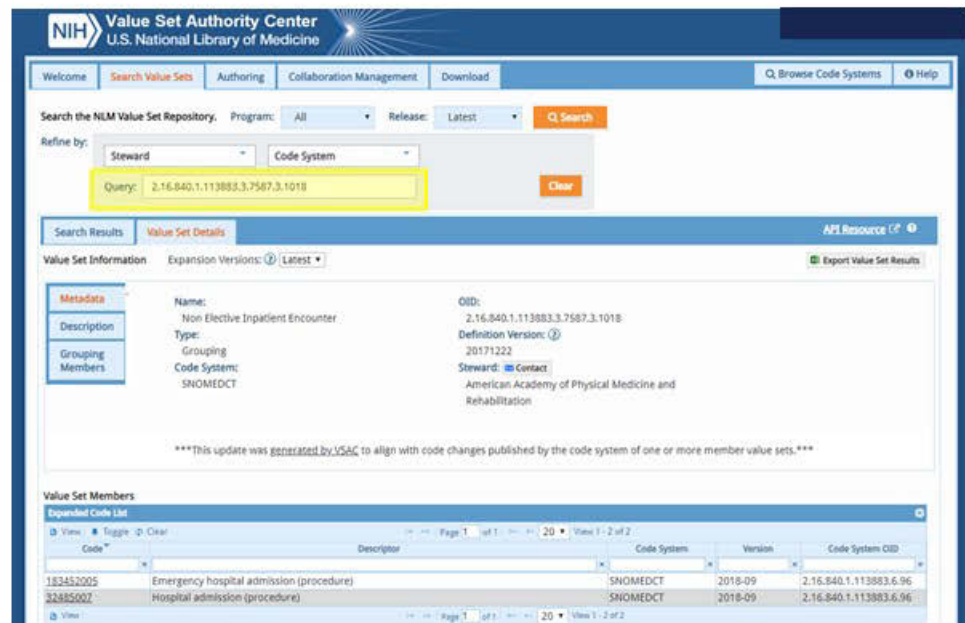
# Definition Anatomy



# 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"



**NIH Value Set Authority Center**  
U.S. National Library of Medicine

Welcome Search Value Sets Authoring Collaboration Management Download Q Browse Code Systems Help

Search the NLM Value Set Repository. Program: All Release: Latest

Refine by: Steward Code System

Query: 2.16.840.1.113883.3.7587.3.1018

**Search Results Value Set Details** API Resource C

**Value Set Information** Expansion Versions: Latest

**Metadata**

Name:	Non Elective Inpatient Encounter	OID:	2.16.840.1.113883.3.7587.3.1018
Type:	Grouping	Definition Version:	20171222
Code System:	SNOMEDCT	Steward:	American Academy of Physical Medicine and Rehabilitation

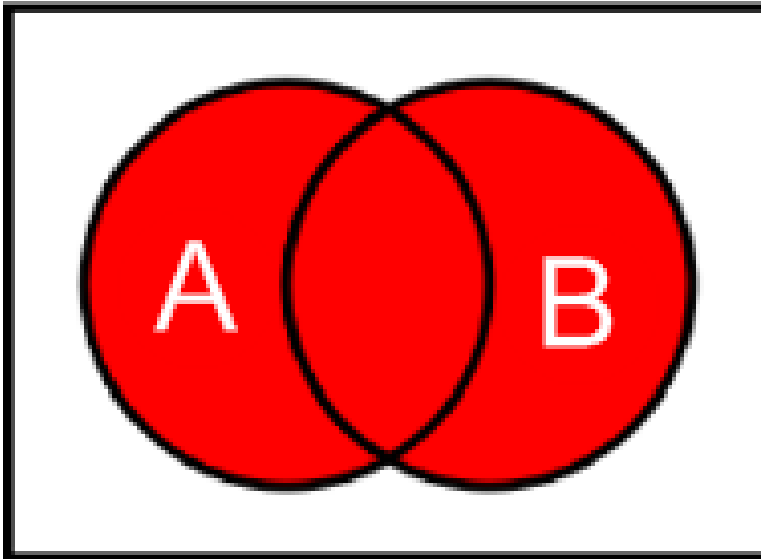
\*\*\*This update was generated by VSAC to align with code changes published by the code system of one or more member value sets.\*\*\*

**Value Set Members**

Expanded Code List

Code	Description	Code System	Version	Code System OID
183452005	Emergency hospital admission (procedure)	SNOMEDCT	2018-09	2.16.840.1.113883.6.96
32385002	Hospital admission (procedure)	SNOMEDCT	2018-09	2.16.840.1.113883.6.96

# Common CQL Operators



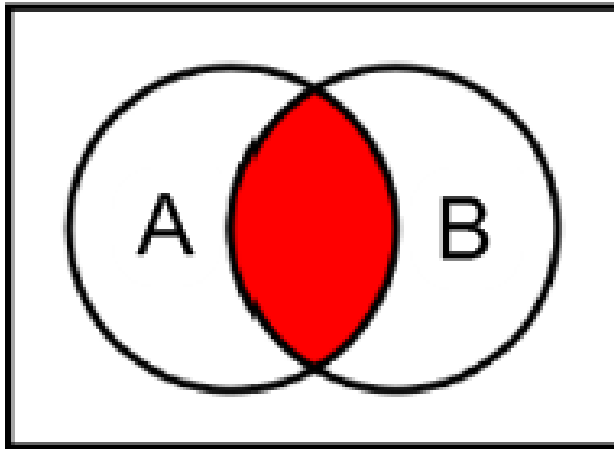
union

## 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  $\geq 18$

List B= All encounters with a CBC level

## **Result of intersection=**

a list of any inpatient encounters with age  $\geq 18$   
and a CBC level

# Initial Population – PC-01 (CMS113v7)

Patients age  $\geq 8$  years and  $< 65$  admitted to the hospital for inpatient acute care to undergo a delivery procedure and had a length of stay less than or equal to 120 days that ends during the measurement period.

## Initial Population: "Delivery Encounter with Age Range"

### Delivery Encounter with Age Range

- "Encounter with Age Range" EncounterWithQualifyingAge  
with ["Procedure, Performed": "Delivery Procedures"] DeliveryProcedure  
such that DeliveryProcedure.relevantPeriod starts during EncounterWithQualifyingAge.relevantPeriod

### Encounter with Age Range

- Global."Inpatient Encounter" EncounterInpatient  
with ["Patient Characteristic Birthdate"] BirthDate  
such that Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of EncounterInpatient.relevantPeriod)  $\geq 8$   
and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of EncounterInpatient.relevantPeriod)  $< 65$

### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient  
where "LengthInDays"(EncounterInpatient.relevantPeriod)  $\leq 120$   
and EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Initial Population – PC-01

Patients age  $\geq 8$  years and  $< 65$  admitted to the hospital for inpatient acute care to undergo a delivery procedure and had a length of stay less than or equal to 120 days that ends during the measurement period.

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Patients age  $\geq 8$  years and  $< 65$  admitted to the hospital for inpatient acute care to undergo a delivery procedure and had a length of stay less than or equal to 120 days that ends during the measurement period.

## Initial Population: "Delivery Encounter with Age Range"

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- "Encounter with Age Range" EncounterWithQualifyingAge  
with ["Procedure, Performed": "Delivery Procedures"] DeliveryProcedure  
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### Encounter with Age Range

- **Global."Inpatient Encounter" EncounterInpatient**  
with ["Patient Characteristic Birthdate"] BirthDate  
such that Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of **EncounterInpatient**.relevantPeriod) $\geq 8$   
and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of **EncounterInpatient**.relevantPeriod) $< 65$

### Global.Inpatient Encounter

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Patients age  $\geq 8$  years and  $< 65$  admitted to the hospital for inpatient acute care to undergo a delivery procedure and had a length of stay less than or equal to 120 days that ends during the measurement period.

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- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient  
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and EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

"Delivery Encounter Near Term"

### Delivery Encounter Near Term

- "Delivery Encounter with Age Range" QualifyingEncounter  
with "Estimated Gestational Age Captured on the Day of Delivery" GestationalAge  
such that GestationalAge.authorDatetime during QualifyingEncounter.relevantPeriod

#### Estimated Gestational Age Captured on the Day of Delivery

- ["Assessment, Performed": "Time of Delivery"] TimeOfDelivery  
with "Gestational Age Near Term" NearTermGestational  
such that NearTermGestational.authorDatetime during  
Interval[Global."ToDate"(TimeOfDelivery.authorDatetime), TimeOfDelivery.authorDatetime]

# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

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# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

"Delivery Encounter Near Term"

### Delivery Encounter Near Term

- "Delivery Encounter with Age Range" QualifyingEncounter with "Estimated Gestational Age Captured on the Day of Delivery" GestationalAge such that GestationalAge.authorDatetime during QualifyingEncounter.relevantPeriod

#### Estimated Gestational Age Captured on the Day of Delivery

- ["Assessment, Performed": "Time of Delivery"] TimeOfDelivery with "Gestational Age Near Term" NearTermGestational such that NearTermGestational.authorDatetime during Interval[Global."ToDate"(TimeOfDelivery.authorDatetime), TimeOfDelivery.authorDatetime]

#### Gestational Age Near Term

- ["Assessment, Performed": "Estimated Gestational Age at Delivery"] EstimatedGestationalAge where EstimatedGestationalAge.result  $\geq 37$  weeks and EstimatedGestationalAge.result  $< 39$  weeks

# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

### "Delivery Encounter Near Term"

#### Delivery Encounter Near Term

- "Delivery Encounter with Age Range" QualifyingEncounter  
with "Estimated Gestational Age Captured on the Day of Delivery" GestationalAge  
such that GestationalAge.authorDatetime during QualifyingEncounter.relevantPeriod

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Interval[Global."ToDate"(TimeOfDelivery.authorDatetime), TimeOfDelivery.authorDatetime]

#### Gestational Age Near Term

- ["Assessment, Performed": "Estimated Gestational Age at Delivery"] EstimatedGestationalAge  
where EstimatedGestationalAge.result  $\geq 37$  weeks  
and EstimatedGestationalAge.result  $< 39$  weeks

# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

"Delivery Encounter Near Term"

### Delivery Encounter Near Term

- "Delivery Encounter with Age Range" QualifyingEncounter  
with "Estimated Gestational Age Captured on the Day of Delivery" GestationalAge  
such that GestationalAge.authorDatetime during QualifyingEncounter.relevantPeriod

#### Estimated Gestational Age Captured on the Day of Delivery

- ["Assessment, Performed": "Time of Delivery"] TimeOfDelivery  
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such that NearTermGestational.authorDatetime during  
Interval[Global."ToDate"(TimeOfDelivery.authorDatetime), TimeOfDelivery.authorDatetime]

#### Gestational Age Near Term

- ["Assessment, Performed": "Estimated Gestational Age at Delivery"] EstimatedGestationalAge  
where EstimatedGestationalAge.result  $\geq 37$  weeks  
and EstimatedGestationalAge.result  $< 39$  weeks



# Denominator – PC-01

Patients delivering newborns with  $\geq 37$  and  $< 39$  weeks of gestation completed

## Denominator:

### "Delivery Encounter Near Term"

#### Delivery Encounter Near Term

- "Delivery Encounter with Age Range" QualifyingEncounter  
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such that **GestationalAge.authorDatetime during QualifyingEncounter.relevantPeriod**

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Interval[Global."ToDate"(TimeOfDelivery.authorDatetime), TimeOfDelivery.authorDatetime]

#### Gestational Age Near Term

- ["Assessment, Performed": "Estimated Gestational Age at Delivery"] EstimatedGestationalAge  
where EstimatedGestationalAge.result  $\geq 37$  weeks  
and EstimatedGestationalAge.result  $< 39$  weeks

# Denominator Exclusions – PC-01

Patients with conditions possibly justifying elective delivery prior to 39 weeks gestation

## Denominator Exclusions:

### "Delivery Encounter with Justifying Conditions"

#### Delivery Encounter with Justifying Conditions

- ( "Delivery Encounter Near Term" DeliveryEncounter  
with ["Diagnosis": "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"] DiagnosisElectiveDelivery  
such that DiagnosisElectiveDelivery.prevalencePeriod overlaps DeliveryEncounter.relevantPeriod)  
**union** ( "Delivery Encounter Near Term" DeliveryEncounter  
where exists ( DeliveryEncounter.diagnoses Diagnoses  
where Diagnoses in "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"))

# Denominator Exclusions – PC-01

Patients with conditions possibly justifying elective delivery prior to 39 weeks gestation

## Denominator Exclusions:

### “Delivery Encounter with Justifying Conditions”

#### Delivery Encounter with Justifying Conditions

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with ["Diagnosis": "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"] DiagnosisElectiveDelivery  
such that DiagnosisElectiveDelivery.prevalencePeriod overlaps DeliveryEncounter.relevantPeriod)  
union ( "Delivery Encounter Near Term" DeliveryEncounter  
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# Denominator Exclusions – PC-01

Patients with conditions possibly justifying elective delivery prior to 39 weeks gestation

## Denominator Exclusions:

### “Delivery Encounter with Justifying Conditions”

#### Delivery Encounter with Justifying Conditions

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such that DiagnosisElectiveDelivery.prevalencePeriod overlaps DeliveryEncounter.relevantPeriod)  
union ( "Delivery Encounter Near Term" DeliveryEncounter  
where exists ( DeliveryEncounter.diagnoses Diagnoses  
where Diagnoses in "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"))

# Denominator Exclusions – PC-01

Patients with conditions possibly justifying elective delivery prior to 39 weeks gestation

## Denominator Exclusions:

### “Delivery Encounter with Justifying Conditions”

#### Delivery Encounter with Justifying Conditions

- ( "Delivery Encounter Near Term" DeliveryEncounter  
with ["Diagnosis": "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"] DiagnosisElectiveDelivery  
such that DiagnosisElectiveDelivery.prevalencePeriod overlaps DeliveryEncounter.relevantPeriod)  
union ( "Delivery Encounter Near Term" DeliveryEncounter  
where exists ( DeliveryEncounter.diagnoses Diagnoses  
where Diagnoses in "Conditions Possibly Justifying Elective Delivery Prior to 39 Weeks Gestation"))

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

**Numerator:**

**"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"**

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter  
with "Cesarean Birth While Not in Labor" CSectionNoLabor  
such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Procedure" PriorUterineProcedure  
such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis  
such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

**"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"**

### Cesarean Birth Without Labor or History of Uterine Surgery

- **"Delivery Encounter Near Term" DeliveryEncounter**  
with **"Cesarean Birth While Not in Labor" CSectionNoLabor**  
such that **CSectionNoLabor.relevantPeriod** starts during **DeliveryEncounter.relevantPeriod**  
without **"History of Uterine Surgery Procedure" PriorUterineProcedure**  
such that **PriorUterineProcedure.relevantPeriod** starts before start of **DeliveryEncounter.relevantPeriod**  
without **"History of Uterine Surgery Diagnosis" PriorUterineDiagnosis**  
such that **PriorUterineDiagnosis.prevalencePeriod** starts before start of **DeliveryEncounter.relevantPeriod**

### Cesarean Birth While Not in Labor

- **["Procedure, Performed": "Cesarean Birth"] CSection**  
without **"Is In Labor" Labor**  
such that **Labor.authorDatetime** 24 hours or less before start of **CSection.relevantPeriod**

### Is In Labor

- **["Assessment, Performed": "Labor"]**



# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter  
with "Cesarean Birth While Not in Labor" CSectionNoLabor  
such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Procedure" PriorUterineProcedure  
such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis  
such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### Cesarean Birth While Not in Labor

- ["Procedure, Performed": "Cesarean Birth"] CSection  
without "Is In Labor" Labor  
such that Labor.authorDatetime 24 hours or less before start of CSection.relevantPeriod

### Is In Labor

- ["Assessment, Performed": "Labor"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter  
with "Cesarean Birth While Not in Labor" CSectionNoLabor  
such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Procedure" PriorUterineProcedure  
such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis  
such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### Cesarean Birth While Not in Labor

- ["Procedure, Performed": "Cesarean Birth"] CSection  
without "Is In Labor" Labor  
such that Labor.authorDatetime 24 hours or less before start of CSection.relevantPeriod

### Is In Labor

- ["Assessment, Performed": "Labor"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter

with "Cesarean Birth While Not in Labor" CSectionNoLabor

such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Procedure" PriorUterineProcedure

such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis

such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### History of Uterine Surgery Procedure

- ["Procedure, Performed": "Classical Cesarean Birth"]  
union ["Procedure, Performed": "Myomectomy"]  
union ["Procedure, Performed": "Transabdominal Cerclage"]  
union ["Procedure, Performed": "Metroplasty"]  
union ["Procedure, Performed": "Uterine Horn"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

**"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"**

### Cesarean Birth Without Labor or History of Uterine Surgery

- **"Delivery Encounter Near Term" DeliveryEncounter**

with "Cesarean Birth While Not in Labor" CSectionNoLabor

such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod

**without "History of Uterine Surgery Procedure" PriorUterineProcedure**

**such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod**

without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis

such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### History of Uterine Surgery Procedure

- ["Procedure, Performed": "Classical Cesarean Birth"]  
union ["Procedure, Performed": "Myomectomy"]  
union ["Procedure, Performed": "Transabdominal Cerclage"]  
union ["Procedure, Performed": "Metroplasty"]  
union ["Procedure, Performed": "Uterine Horn"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter

with "Cesarean Birth While Not in Labor" CSectionNoLabor

such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Procedure" PriorUterineProcedure

such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis

such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### History of Uterine Surgery Diagnosis

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

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter

with "Cesarean Birth While Not in Labor" CSectionNoLabor

such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Procedure" PriorUterineProcedure

such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod

without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis

such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

### History of Uterine Surgery Diagnosis

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

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Cesarean Birth Without Labor or History of Uterine Surgery

- "Delivery Encounter Near Term" DeliveryEncounter  
with "Cesarean Birth While Not in Labor" CSectionNoLabor  
such that CSectionNoLabor.relevantPeriod starts during DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Procedure" PriorUterineProcedure  
such that PriorUterineProcedure.relevantPeriod starts before start of DeliveryEncounter.relevantPeriod  
without "History of Uterine Surgery Diagnosis" PriorUterineDiagnosis  
such that PriorUterineDiagnosis.prevalencePeriod starts before start of DeliveryEncounter.relevantPeriod

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

Medical Induction While Not In Labor

- "Medical Induction **Medication Administered** While Not In Labor"  
**union** "Medical Induction **Procedure Performed** While Not In Labor"



# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

**Numerator:**

**"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"**

**Medical Induction While Not In Labor**

- **"Medical Induction Medication Administered While Not In Labor"**  
union "Medical Induction Procedure Performed While Not In Labor"

**Medical Induction Medication Administered While Not In Labor**

- **from**

**"Delivery Encounter Near Term" `DeliveryEncounter`,  
"Medical Induction Medication" `InductionMedication`,  
"Is In Labor" `Labor`**

**where** `Labor.authorDatetime` during `DeliveryEncounter.relevantPeriod`  
and `InductionMedication.relevantPeriod` 24 hours or less before `Labor.authorDatetime`  
**return** `DeliveryEncounter`

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

### Medical Induction Medication Administered While Not In Labor

- from

"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Medication" InductionMedication,  
"Is In Labor" Labor

where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and InductionMedication.relevantPeriod 24 hours or less before Labor.authorDatetime  
return DeliveryEncounter

### Medical Induction Medication

- ["Medication, Administered": "Oxytocin"]  
union ["Medication, Administered": "Dinoprostone"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

### Medical Induction Medication Administered While Not In Labor

- from  
"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Medication" InductionMedication,  
"Is In Labor" Labor

where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and InductionMedication.relevantPeriod 24 hours or less before Labor.authorDatetime  
return DeliveryEncounter

### Medical Induction Medication

- ["Medication, Administered": "Oxytocin"]  
union ["Medication, Administered": "Dinoprostone"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

## Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

### Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

### Medical Induction Medication Administered While Not In Labor

- from

"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Medication" InductionMedication,  
"Is In Labor" Labor

where Labor.authorDatetime during DeliveryEncounter.relevantPeriod

and InductionMedication.relevantPeriod 24 hours or less before Labor.authorDatetime

return DeliveryEncounter

### Medical Induction Medication

- ["Medication, Administered": "Oxytocin"]  
union ["Medication, Administered": "Dinoprostone"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

Medical Induction Procedure Performed While Not In Labor

- from

"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Procedure" InductionProcedure,  
"Is In Labor" Labor

where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and InductionProcedure.relevantPeriod 24 hours or less before Labor.authorDatetime

return DeliveryEncounter

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

Medical Induction Procedure Performed While Not In Labor

- from  
"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Procedure" InductionProcedure,  
"Is In Labor" Labor  
where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and Induction Procedure.relevantPeriod 24 hours or less before Labor.authorDatetime  
return DeliveryEncounter

Medical Induction Procedure

- ["Procedure, Performed": "Artificial Rupture of Membranes"]  
union ["Procedure, Performed ": "Medical Induction of Labor"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

Numerator:

"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"

Medical Induction While Not In Labor

- "Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"

Medical Induction Procedure Performed While Not In Labor

- from  
"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Procedure" InductionProcedure,  
"Is In Labor" Labor  
where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and Induction Procedure.relevantPeriod 24 hours or less before Labor.authorDatetime  
return DeliveryEncounter

Medical Induction Procedure

- ["Procedure, Performed": "Artificial Rupture of Membranes"]  
union ["Procedure, Performed ": "Medical Induction of Labor"]

# Numerator – PC-01

Patients with elective deliveries by either:

- Cesarean birth while not in labor and with no history of a prior uterine surgery
- Medical induction of labor while not in labor prior to the procedure

**Numerator:**

**"Cesarean Birth Without Labor or History of Uterine Surgery"  
union "Medical Induction While Not In Labor"**

## **Medical Induction While Not In Labor**

- **"Medical Induction Medication Administered While Not In Labor"  
union "Medical Induction Procedure Performed While Not In Labor"**

### **Medical Induction Procedure Performed While Not In Labor**

- from

"Delivery Encounter Near Term" DeliveryEncounter,  
"Medical Induction Procedure" InductionProcedure,  
"Is In Labor" Labor

where Labor.authorDatetime during DeliveryEncounter.relevantPeriod  
and InductionProcedure.relevantPeriod 24 hours or less before Labor.authorDatetime  
return DeliveryEncounter

### **Medical Induction Procedure**

- ["Procedure, Performed": "Artificial Rupture of Membranes"]  
union ["Procedure, Performed ": "Medical Induction of Labor"]



# Pioneers in Quality™

## Expert to Expert Series: PC-01 & PC-05



- Please ask questions through the Questions pane
- Click the arrow to expand and close the pane.
- Include slide reference numbers when possible



## PC-05 Exclusive Breast Milk Feeding (CMS9v7)

**Description:** Exclusive breast milk feeding during the newborn's entire hospitalization

- Exclusive breast milk feeding for the first 6 months of neonatal life has long been the goal of WHO, DHHS, AAP and ACOG
- Cochrane review and many studies substantiates the benefits
- Much evidence focused on the prenatal and intrapartum period as critical for the success of exclusive (or any) breast feeding
- Healthy People, CDC and many other organizations actively in promoting this goal
- Continue to see a opportunity for improvement, rates nationally around 52%

# Initial Population – PC-05 (CMS9v7)



Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

**Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"**

## Single Live Birth Encounter With Gestational Age 37 Weeks or More

- **"Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition"** QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

## Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- **"Single Live Birth Encounter"** SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

## Single Live Birth Encounter

- (Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")) union (Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

## Global.Inpatient Encounter

- **["Encounter, Performed": "Encounter Inpatient"]** EncounterInpatient where **"LengthInDays"**(EncounterInpatient.relevantPeriod) $\leq 120$  and EncounterInpatient.**relevantPeriod ends during "Measurement Period"**

# Initial Population – PC-05 (CMS9v7)

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

**Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"**

## Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

## Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

## Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where **EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")**) **union** ( Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.**prevalencePeriod starts during EncounterInpatient.relevantPeriod**)

## Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient where "LengthInDays"(EncounterInpatient.relevantPeriod) $\leq 120$  and EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Initial Population – PC-05

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

**Initial Population:** "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

## Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

## Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- **"Single Live Birth Encounter"** SingleLiveBirthEncounter **without** ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod **without** ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod **where** not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses **where** EncounterDiagnoses in "Galactosemia")

### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient **where** exists ( EncounterInpatient.diagnoses EncounterDiagnoses **where** EncounterDiagnoses in "Single Live Born Newborn Born in Hospital"))  
union ( Global."Inpatient Encounter" EncounterInpatient **with** "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis **such that** SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient **where** "LengthInDays"(EncounterInpatient.relevantPeriod) $\leq 120$  **and** EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Initial Population – PC-05

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

## Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

### Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

### Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

#### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")) union ( Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

#### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient where "LengthInDays"(EncounterInpatient.relevantPeriod)  $\leq 120$  and EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Initial Population – PC-05

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

## Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

### Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

### Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod **without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition** such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")) union ( Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient where "LengthInDays"(EncounterInpatient.relevantPeriod) $\leq 120$  and EncounterInpatient.relevantPeriod ends during "Measurement Period"

# Initial Population – PC-05

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

## Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

### Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result  $\geq 37$  weeks

### Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod **where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")**

#### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")) union ( Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

#### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient where "LengthInDays"(EncounterInpatient.relevantPeriod) $\leq 120$  and EncounterInpatient.relevantPeriod ends during "Measurement Period"



# Initial Population – PC-05

Single newborns with an estimated gestational age at birth of  $\geq 37$  weeks who are born in the hospital and who did not have a diagnosis of galactosemia, were not subject to parenteral nutrition, and had a length of stay less than or equal to 120 days that ends during the measurement period

## Initial Population: "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

### Single Live Birth Encounter With Gestational Age 37 Weeks or More

- **"Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter** with **["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge** such that **GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod** and **GestationalAge.result  $\geq 37$  weeks**

### Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod **without** ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod **where not** exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")) union ( Global."Inpatient Encounter" EncounterInpatient with "Single Live Birth Diagnosis" SingleLiveBirthDiagnosis such that SingleLiveBirthDiagnosis.prevalencePeriod starts during EncounterInpatient.relevantPeriod)

### Global.Inpatient Encounter

- ["Encounter, Performed": "Encounter Inpatient"] EncounterInpatient where "LengthInDays"(EncounterInpatient.relevantPeriod) $\leq 120$  and EncounterInpatient.relevantPeriod ends during "Measurement Period"

Initial Population

## Denominator: "Initial Population"

### Initial Population

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More"

#### Single Live Birth Encounter With Gestational Age 37 Weeks or More

- "Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition" QualifyingSingleNewbornEncounter with ["Assessment, Performed": "Estimated Gestational Age at Birth"] GestationalAge such that GestationalAge.authorDatetime during QualifyingSingleNewbornEncounter.relevantPeriod and GestationalAge.result >= 37 weeks

#### Single Live Birth Encounter Without Galactosemia and Parenteral Nutrition

- "Single Live Birth Encounter" SingleLiveBirthEncounter without ["Diagnosis": "Galactosemia"] Galactosemia such that Galactosemia.prevalencePeriod starts during SingleLiveBirthEncounter.relevantPeriod without ["Procedure, Performed": "Parenteral Nutrition"] ParenteralNutrition such that ParenteralNutrition.relevantPeriod starts during SingleLiveBirthEncounter.relevantPeriod where not exists ( SingleLiveBirthEncounter.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Galactosemia")

#### Single Live Birth Encounter

- ( Global."Inpatient Encounter" EncounterInpatient where exists ( EncounterInpatient.diagnoses EncounterDiagnoses where EncounterDiagnoses in "Single Live Born Newborn Born in Hospital")

#### Global.Inpatient Encounter

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

# Denominator Exclusions – PC-05

Newborns who were admitted to the Neonatal Intensive Care Unit (NICU), who were transferred to an acute care facility, or who expired during the hospitalization

## Denominator Exclusions: "Newborn to NICU or Discharge to Acute Care Facility or Expired"

### Newborn to NICU or Discharge to Acute Care Facility or Expired

- **"Single Live Birth Encounter With Gestational Age 37 Weeks or More" Qualifying Encounter**  
where exists ( QualifyingEncounter.facilityLocations NICU  
where NICU.code in "Neonatal Intensive Care Unit (NICU)"  
or QualifyingEncounter.dischargeDisposition in "Patient Expired"  
or QualifyingEncounter.dischargeDisposition in "Discharge To Acute Care Facility"

# Denominator Exclusions – PC-05

Newborns who were admitted to the Neonatal Intensive Care Unit (NICU), who were transferred to an acute care facility, or who expired during the hospitalization

## Denominator Exclusions: "Newborn to NICU or Discharge to Acute Care Facility or Expired"

### Newborn to NICU or Discharge to Acute Care Facility or Expired

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" QualifyingEncounter where exists ( QualifyingEncounter.facilityLocations NICU where NICU.code in "Neonatal Intensive Care Unit (NICU)" or QualifyingEncounter.dischargeDisposition in "Patient Expired" or QualifyingEncounter.dischargeDisposition in "Discharge To Acute Care Facility"

# Denominator Exclusions – PC-05

Newborns who were admitted to the Neonatal Intensive Care Unit (NICU), who were transferred to an acute care facility, or who expired during the hospitalization

## Denominator Exclusions: "Newborn to NICU or Discharge to Acute Care Facility or Expired"

### Newborn to NICU or Discharge to Acute Care Facility or Expired

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" QualifyingEncounter where exists ( QualifyingEncounter.facilityLocations NICU where NICU.code in "Neonatal Intensive Care Unit (NICU)") or QualifyingEncounter.dischargeDisposition in "Patient Expired" or QualifyingEncounter.dischargeDisposition in "Discharge To Acute Care Facility"

# Numerator – PC-05

Newborns who were fed breast milk only since birth

## Numerator: "Newborn Fed Breast Milk Only Since Birth"

### Newborn Fed Breast Milk Only Since Birth

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" Qualifying Encounter

**with** ["Substance, Administered": "Breast Milk"] BreastMilkFeeding  
such that BreastMilkFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod  
**without** ["Substance, Administered": "Dietary Intake Other than Breast Milk"] OtherFeeding  
such that OtherFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod

# Numerator – PC-05

Newborns who were fed breast milk only since birth

## Numerator: "Newborn Fed Breast Milk Only Since Birth"

### Newborn Fed Breast Milk Only Since Birth

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" QualifyingEncounter with ["Substance, Administered": "Breast Milk"] BreastMilkFeeding such that BreastMilkFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod without ["Substance, Administered": "Dietary Intake Other than Breast Milk"] OtherFeeding such that OtherFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod

# Numerator – PC-05

Newborns who were fed breast milk only since birth

## Numerator: "Newborn Fed Breast Milk Only Since Birth"

### Newborn Fed Breast Milk Only Since Birth

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" QualifyingEncounter with ["Substance, Administered": "Breast Milk"] BreastMilkFeeding such that BreastMilkFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod without ["Substance, Administered": "Dietary Intake Other than Breast Milk"] OtherFeeding such that OtherFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod



# Numerator – PC-05

Newborns who were fed breast milk only since birth

## Numerator: "Newborn Fed Breast Milk Only Since Birth"

### Newborn Fed Breast Milk Only Since Birth

- "Single Live Birth Encounter With Gestational Age 37 Weeks or More" QualifyingEncounter with ["Substance, Administered": "Breast Milk"] BreastMilkFeeding such that BreastMilkFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod without ["Substance, Administered": "Dietary Intake Other than Breast Milk"] OtherFeeding such that OtherFeeding.relevantPeriod starts during QualifyingEncounter.relevantPeriod

# 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>

## 3. Technical CQL Resources:

- Getting Started with CQL: Technical Implementation for Vendors: <https://health.mitre.org/blog/getting-started-with-cql-technical-implementation-for-vendors/>
- Formatting and Usage: <https://github.com/esacinc/CQL-Formatting-and-Usage-Wiki/wiki>
- CQL GitHub Tools Repository: [https://github.com/cqframework/clinical\\_quality\\_language](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://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](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://oncprojecttracking.healthit.gov/support/projects/CQLIT>

## 5. To submit an issue ticket for a measure specific question, please visit the ONC JIRA site

- <https://oncprojecttracking.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/](https://www.jointcommission.org/piq_expert_to_expert_series/)

## 7. Pioneers in Quality Portal: [https://www.jointcommission.org/topics/pioneers\\_in\\_quality.aspx](https://www.jointcommission.org/topics/pioneers_in_quality.aspx)

# Pioneers in Quality™

## Expert to Expert Series: PC-01 & PC-05

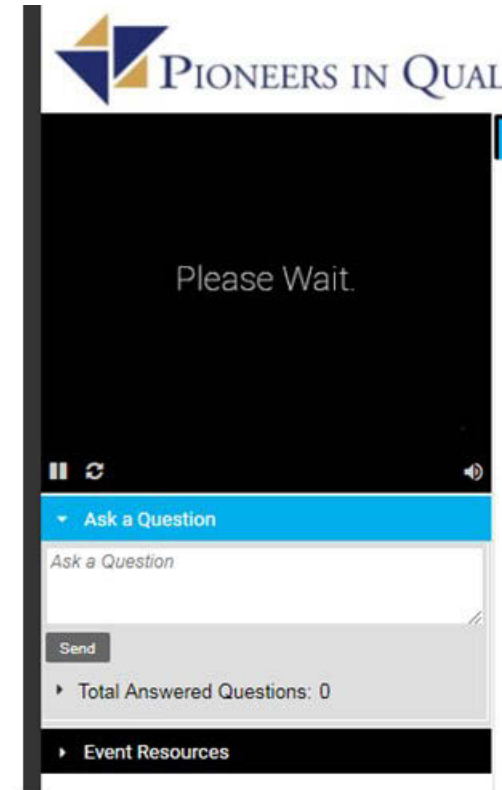


- Please ask questions through the Questions pane
- Click the arrow to expand and close the pane.
- Include slide reference numbers when possible



## REMINDER - Slides are available for download now!

- 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



# Pioneers in Quality™

## Expert to Expert Series: PC-01 & PC-05



The Joint Commission website header. It includes navigation links: Log In | Request Guest Access, Contact Us | Careers | JCR Web Store | Press Room. A search bar is present. Below the header is a blue navigation bar with links: Accreditation, Certification, Standards, Measurement, Topics, About Us, Daily Update. Below this is a row of social media icons: Twitter, Facebook, Vimeo, LinkedIn, Share, Print. The breadcrumb trail reads: Home > Topic Details. The date and time are: Friday 11:30 CST, November 30, 2018.

### Topic Details

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#### Topic Library Item

### Pioneers in Quality: Expert to Expert

November 30, 2018

The Joint Commission and the Centers for Medicare & Medicaid Services on their journey towards electronic clinical quality measure (eCQM) Clinical Quality Language (CQL) logic expression language for the 2019 eCQM report "deep dive" into the new Clinical Quality Language (CQL) expression language.

The Joint Commission's Pioneers in Quality: Expert to Expert series connecting you with eCQM developers in an "office hours" format. It measures and specifically the new CQL expression language. Session measure logic, followed by a discussion of common questions and it questions in advance to be addressed during the webinar. Webinars

The Expert to Expert Series will feature the following sessions. Register below links to register for each session.

Session Titles	Date	Registration Links	Slides	Transcripts	Recordings	Q&As
eCQM Clinical Quality Language (CQL) Basics Webinar for Hospitals	29-Nov-18	NA – Session has already occurred	<a href="#">11/29 PDF slide deck</a>	<a href="#">11/29 PDF transcript</a>	<a href="#">11/29 recording</a>	<a href="#">11/29 PDF Q&amp;A document</a>
Expert to Expert Session 1: STK-2, -3, & -6	11-Dec-18	NA – Session has already occurred	<a href="#">12/11 PDF slide deck</a>	<a href="#">12/11 PDF transcript</a>	<a href="#">12/11 recording</a>	<a href="#">12/11 PDF Q&amp;A document</a>
Expert to Expert Session 2: STK-5 and AMI-8a	29-Jan-19	NA – Session has already occurred	<a href="#">01/29 PDF slide deck</a>	To be posted following session	To be posted following session	To be posted following session
Expert to Expert Session 3: ED-1 and -2	12-Feb-19	NA – Session has already occurred	<a href="#">02/12 PDF slide deck</a>	To be posted following session	To be posted following session	To be posted following session

Visit [https://www.jointcommission.org/piq\\_expert\\_to\\_expert\\_series/](https://www.jointcommission.org/piq_expert_to_expert_series/) to register for future sessions and access slides, webinar recordings, and Q&A documents when available.

# Pioneers in Quality™

## Expert to Expert Series: PC-01 & PC-05



### 2019 eCQM Proven Practices Submission Period Open

February 25, 2019

On Feb 25, Joint Commission launched the 2019 Proven Practices submission tool.

Visit

[https://www.jointcommission.org/pioneers\\_in\\_quality\\_proven\\_practices\\_collection/](https://www.jointcommission.org/pioneers_in_quality_proven_practices_collection/)

for additional information about the Proven Practices Program.

The Submission Deadline is April 5.



The Joint Commission supports organizations adopting electronic clinical quality measures (eCQMs) by enabling the sharing of eCQM and health-IT driven quality improvement practices. The Joint Commission is seeking your pioneering "eCQM Proven Practices" success stories. This program recognizes hospitals and systems that effectively leverage eCQMs and health IT to drive quality improvement — and provides a platform for organizations to share their work as learning for other accredited organizations.

[The 2019 "eCQM Proven Practices" submission tool is now open and you are invited to submit your application.](#)

[View the full PDF application before completing online. PLEASE NOTE SUBMISSIONS ARE ACCEPTED VIA THE ONLINE APPLICATION ONLY.](#)

Topics of interest include, but are not limited to:

- Demonstrated success in improving clinical performance or outcomes utilizing eCQMs
- Robust and integrated clinical decision support into EHR workflows and quality measurement
- Optimizing clinical workflow and eCQM collection to support quality care
- Improving or ensuring eCQM data quality and accuracy
- Innovative use of staffing (e.g. quality, informatics, clinical roles) or governance to support eCQM implementation
- Educating clinicians on quality improvement and electronic data collection

*\* Recognition is limited to Joint Commission and/or Centers for Medicare & Medicaid Services (CMS) eCQMs.*

**The submission period closes April 5, 2019 at 11:59 pm Central Daylight Time.**

## CE Session Evaluation Survey and Certificate



You will receive an automated email that will direct you how to access the evaluation survey.

We use your feedback to inform future content and assess the quality of our sessions.

**The evaluation closes in 2 weeks.**

After the evaluation period closes, a printable certificate will be emailed to all participants that complete the survey and meet all CE requirements.





**Thank you for attending this session.**

