

ELIGIBLE CLINICIAN eCQM WEBINAR SERIES #1:

INTRODUCTION TO ELIGIBLE CLINICIAN eCQMs FOR PERFORMANCE PERIOD 2022

April 14, 2022



OBJECTIVES

- Understand Eligible Clinician Electronic Clinical Quality Measure (eCQM) basics
- Understand how to locate and use Eligible Clinician eCQM specifications, tools, and resources
- Understand how to interpret measure logic, using CMS125v10—Breast Cancer Screening as an example

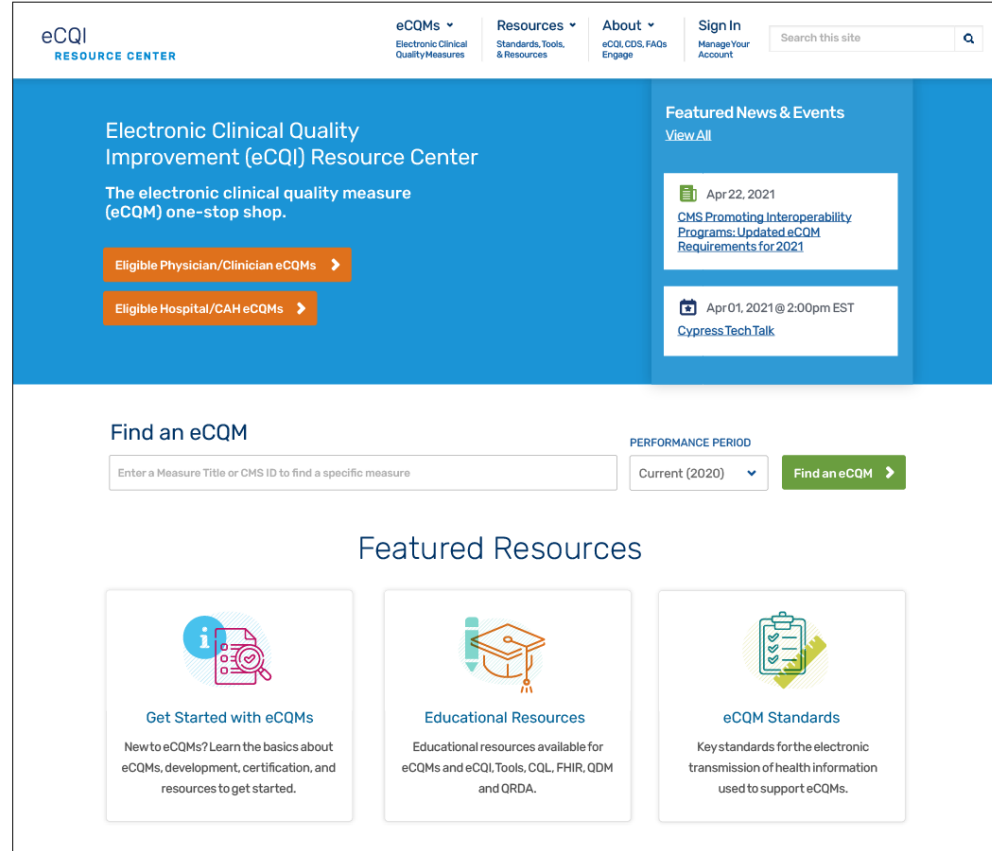


ROADMAP FOR TODAY

- Define eCQMs and the standards used with them
- Conduct a live demonstration of the Electronic Clinical Quality Improvement (eCQI) Resource Center:
 - Learn where to access Eligible Clinician eCQM specifications and important implementation resources
 - Review the performance period 2022 human-readable specification for CMS125v10—Breast Cancer Screening
- Provide an overview of Clinical Quality Language (CQL) basics to create a foundation before reviewing CMS125v10—Breast Cancer Screening
 - Explain the measure logic, using plain language
- Review Eligible Clinician eCQM engagement opportunities and additional resources



VISIT THE eCQI RESOURCE CENTER TO ACCESS ELIGIBLE CLINICIAN eCQMS



One-stop shop for eCQMS

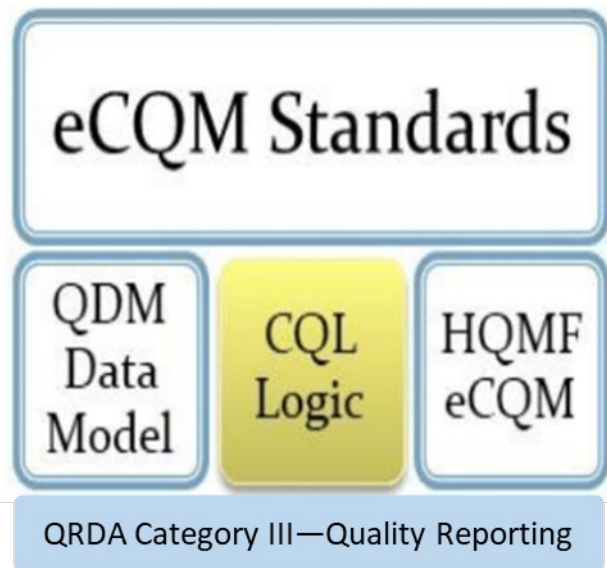
<https://ecqi.healthit.gov>

Find information on:

- Eligible Clinician eCQM specifications
- Eligible Clinician eCQM standards
- Eligible Clinician eCQM educational materials
- Engaging with the eCQM community

WHAT IS AN eCQM?

eCQMs use data electronically extracted from electronic health records (EHRs) or health information technology systems to measure the quality of health care provided



- [Health Quality Measure Format](#) (HQMF)
- [Quality Data Model](#) (QDM)
- [Clinical Quality Language](#) (CQL)
- [Quality Reporting Document Architecture](#) (QRDA)

CQL BASICS

Population Criteria

▲ Initial Population

```
exists ( ["Patient Characteristic Sex": "Female"] )
and exists ["Patient Characteristic Birthdate": "Birth date"] BirthDate
where Global."CalendarAgeInYearsAt" ( BirthDate.birthDatetime, start of "Measurement Period" ) in Interval[51, 74 )
and exists ( AdultOutpatientEncounters "Qualifying Encounters"
union "Telehealth Services"
)
```

CQL BASICS

CQL logic
building blocks

Definitions

▲ AdultOutpatientEncounters **Qualifying Encounters**

```
( ["Encounter, Performed": "Office Visit"]  
  union ["Encounter, Performed": "Annual Wellness Visit"]  
  union ["Encounter, Performed": "Preventive Care Services - Established Office Visit, 18 and Up"]  
  union ["Encounter, Performed": "Preventive Care Services-Initial Office Visit, 18 and Up"]  
  union ["Encounter, Performed": "Home Healthcare Services"] ) ValidEncounter  
where ValidEncounter.relevantPeriod during "Measurement Period"
```

▲ FrailtyLTI.Advanced Illness and Frailty Exclusion Not Including Over Age 80

```
exists ( ["Patient Characteristic Birthdate": "Birth date"] BirthDate  
  where Global."CalendarAgeInYearsAt" ( BirthDate.birthDatetime, start of "Measurement Period" ) >= 65  
  and "Has Criteria Indicating Frailty"  
  and ( exists "Two Outpatient Encounters with Advanced Illness on Different Dates of Service"  
    or exists ( "Inpatient Encounter with Advanced Illness" )  
    or exists "Dementia Medications In Year Before or During Measurement Period"  
  )  
)
```

Functions

▲ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

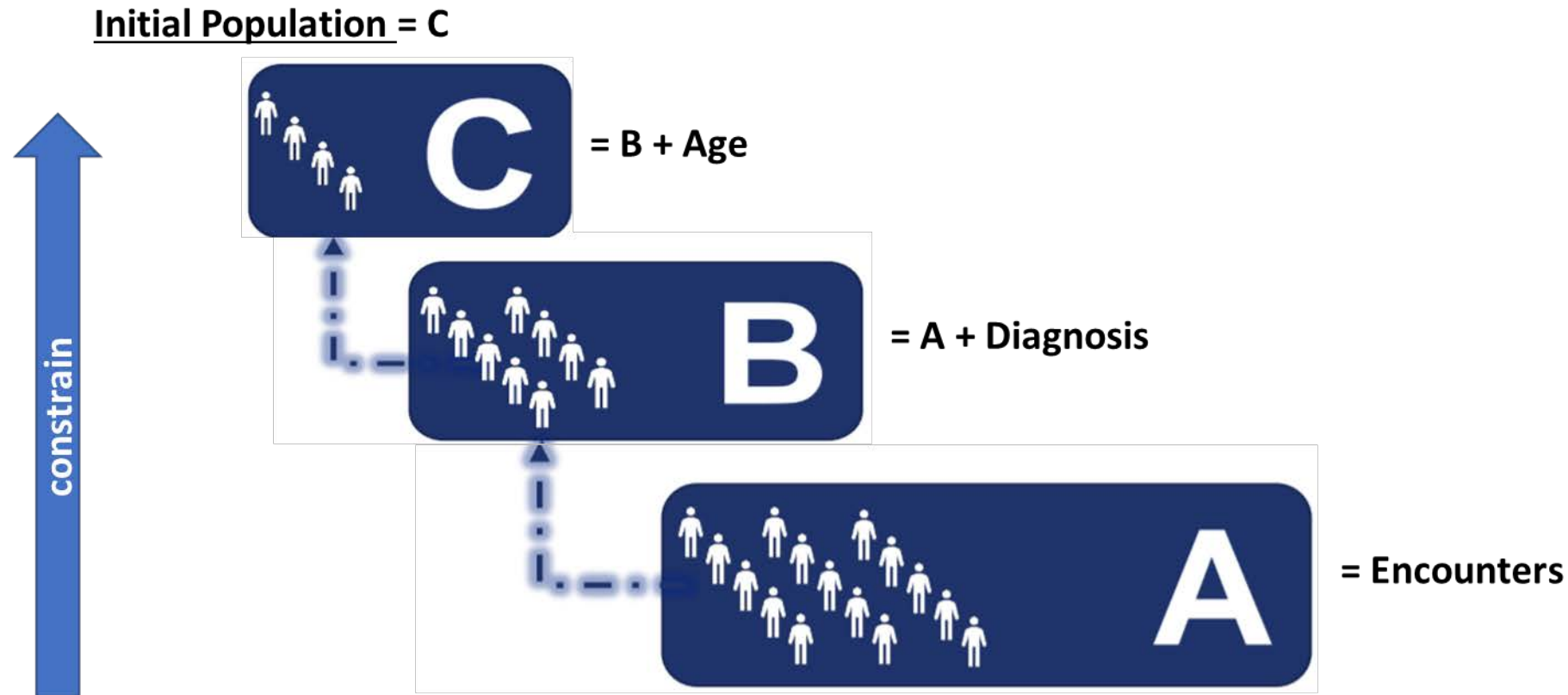
years between ToDate(BirthDateTime)and ToDate(AsOf)

▲ Global.NormalizeInterval(pointInTime DateTime, period Interval<DateTime>)

if pointInTime is not null then Interval[pointInTime, pointInTime]
else if period is not null then period
else null as Interval<DateTime>

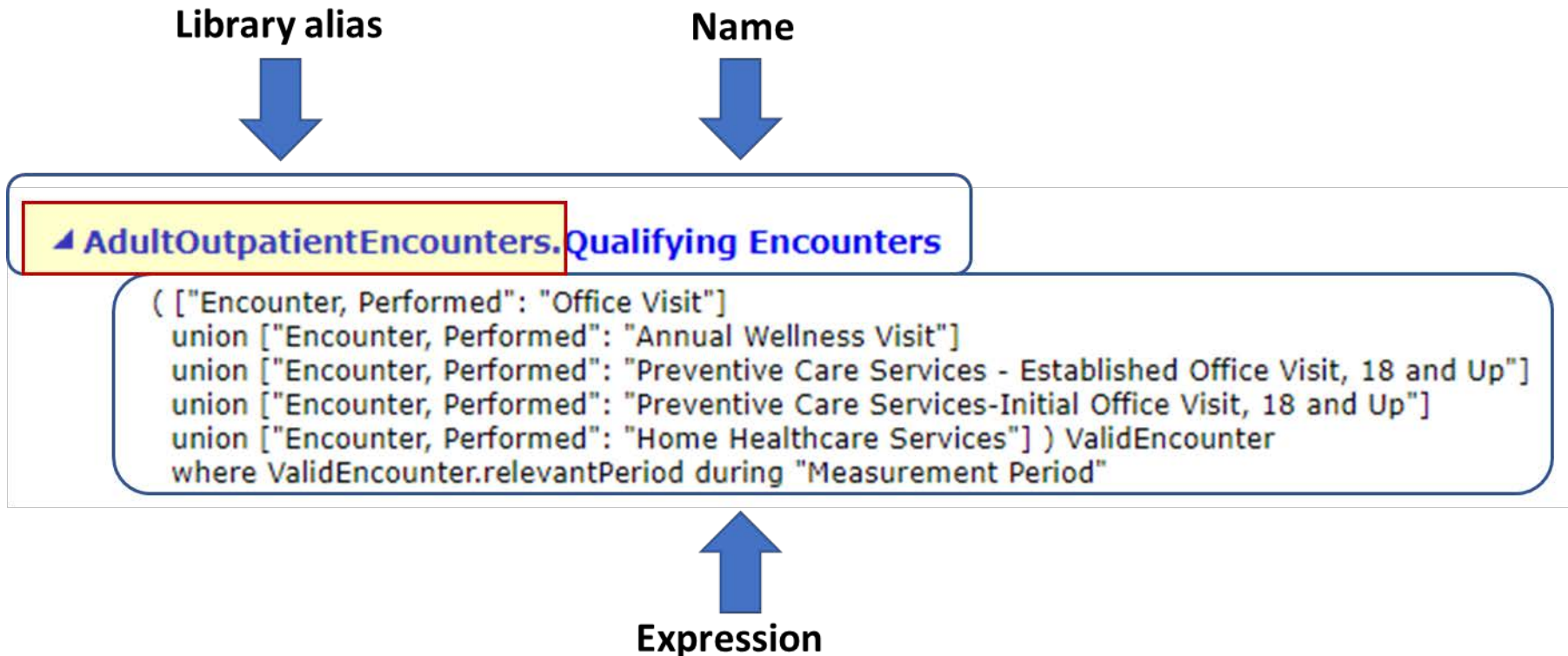


CQL BASICS: GENERIC POPULATION CRITERIA

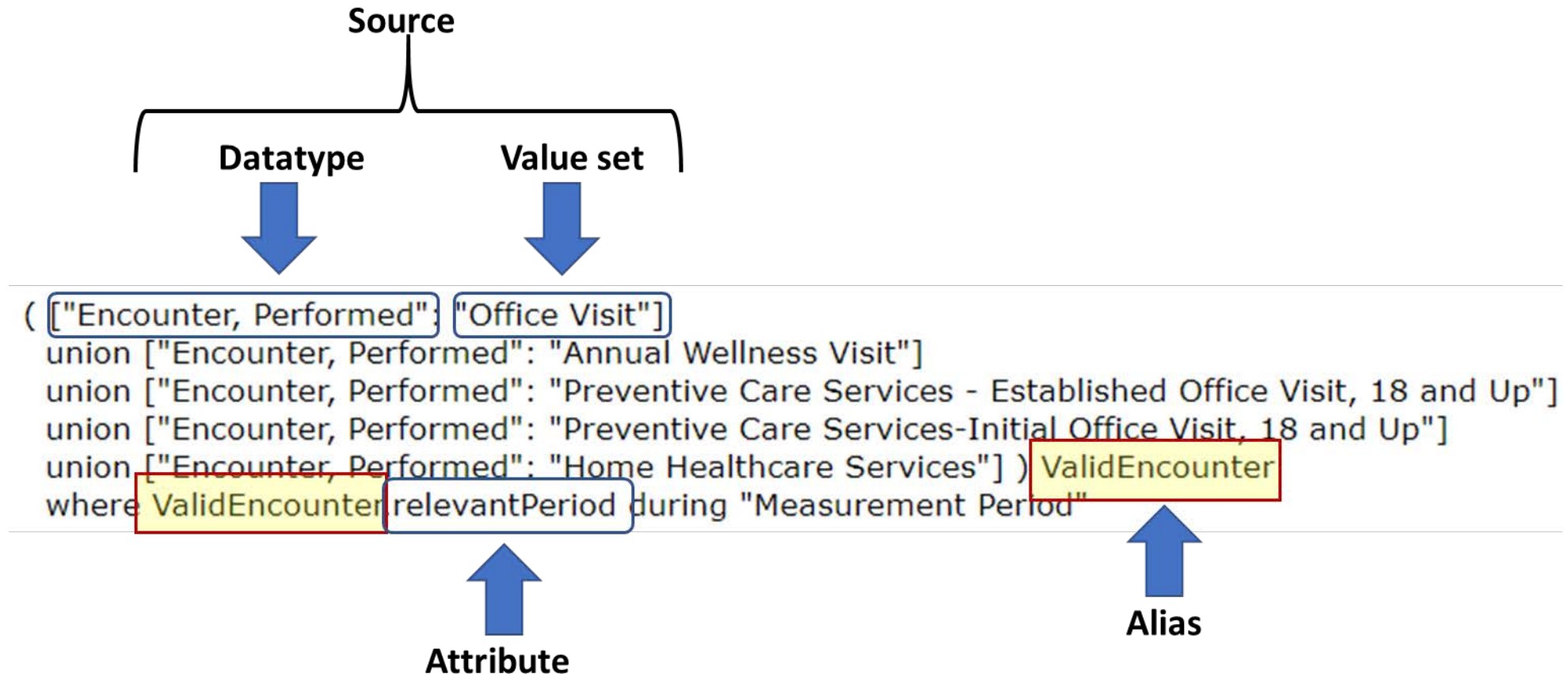


CQL BASICS: DEFINITION ANATOMY

Definitions are made up of:



CQL BASICS: DEFINITION ANATOMY



DEFINITION ANATOMY—DIRECT REFERENCE CODES

Terminology

- code "Birth date" ("LOINC Code (21112-8)")
- code "Discharge to healthcare facility for hospice care (procedure)" ("SNOMEDCT Code (428371000124100)")
- code "Discharge to home for hospice care (procedure)" ("SNOMEDCT Code (428361000124107)")
- code "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)" ("LOINC Code (71007-9)")
- code "Left (qualifier value)" ("SNOMEDCT Code (7771000)")
- code "Right (qualifier value)" ("SNOMEDCT Code (24028007)")
- valueset "Acute Inpatient" (2.16.840.1.113883.3.464.1003.101.12.1083)
- valueset "Advanced Illness" (2.16.840.1.113883.3.464.1003.110.12.1082)
- valueset "Annual Wellness Visit" (2.16.840.1.113883.3.526.3.1240)
- valueset "Bilateral Mastectomy" (2.16.840.1.113883.3.464.1003.198.12.1005)
- valueset "Care Services in Long-Term Residential Facility" (2.16.840.1.113883.3.464.1003.101.12.1014)
- valueset "Dementia Medications" (2.16.840.1.113883.3.464.1003.196.12.1510)
- valueset "Emergency Department Visit" (2.16.840.1.113883.3.464.1003.101.12.1010)
- valueset "Encounter Inpatient" (2.16.840.1.113883.3.666.5.307)
- valueset "Ethnicity" (2.16.840.1.114222.4.11.837)
- valueset "Female" (2.16.840.1.113883.3.560.100.2)
- valueset "Frailty Device" (2.16.840.1.113883.3.464.1003.118.12.1300)

DEFINITION ANATOMY—VALUE SETS

[Welcome](#) [Search Value Sets](#) [Authoring](#) [Collaboration Management](#) [Download](#) [Browse Code Systems](#) [Help](#)

VSAC Downloadable Resources

This page contains groups of value sets designated for a particular program usage. You can search the entire repository of published VSAC value sets in the [Search Value Sets](#) tab.

[CMS eCQM & Hybrid Measure Value Sets](#)
[CMS Pre-rulemaking eCQM Value Sets](#)
[C-CDA Value Sets](#)
[CDCREC Roll-up codes](#)

eCQMs will not be eligible for reporting to CMS unless and until they are proposed and finalized through notice, public comment, and rulemaking for each applicable program. For more information about eCQMs please visit the [eCQI Resource Center](#).

▼ 2022 Reporting/Performance Period of eCQM & Hybrid Measure Value Sets

▼ May 2021 Release eCQM & Hybrid Measure Value Sets Publication Date: May 06, 2021

Expansion Version: eCQM Update 2021-05-06












Available Downloads	Sorted by CMS ID*	Sorted by Value Set Name*	Sorted by Quality Data Model Category*
eCQM Value Sets for Eligible Hospitals Published May 06, 2021	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)	Excel (xlsx)
eCQM Value Sets for Eligible Professionals and Eligible Clinicians Published May 06, 2021	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)	Excel (xlsx)
All eCQM Value Sets (Eligible Professionals, Clinicians and Hospitals) Published May 06, 2021	Excel (xlsx) SVS (xml)	Excel (xlsx) SVS (xml) SVS (text)	Excel (xlsx)

COMMON CQL OPERATORS

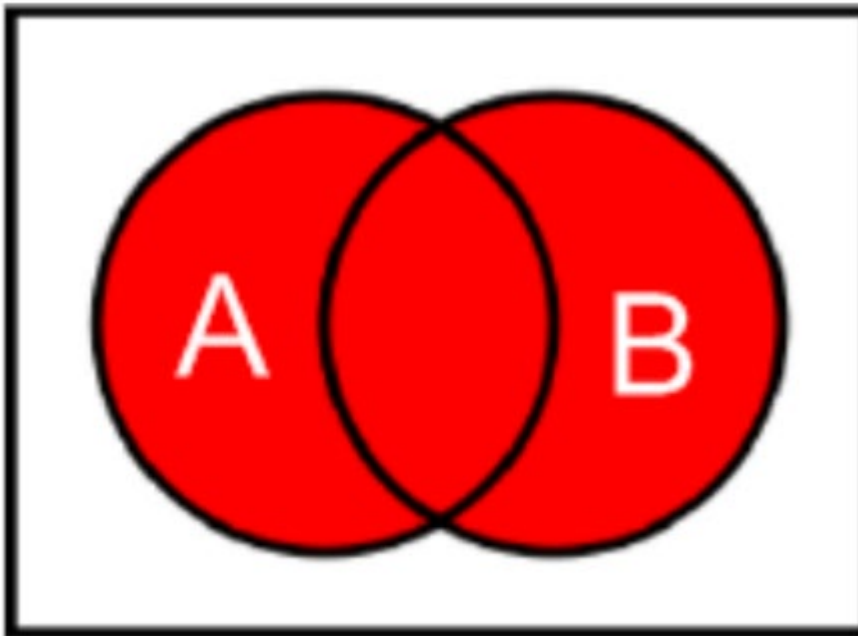
Operators

- \geq
- exists
- overlaps
- during
- union
- intersect

Interval comparison operators:

before	
meets before	
overlaps before	
includes	
starts	
same as (=)	
ends	
included in (during)	
overlaps after	
meets after	
after	

COMMON CQL OPERATORS—UNION



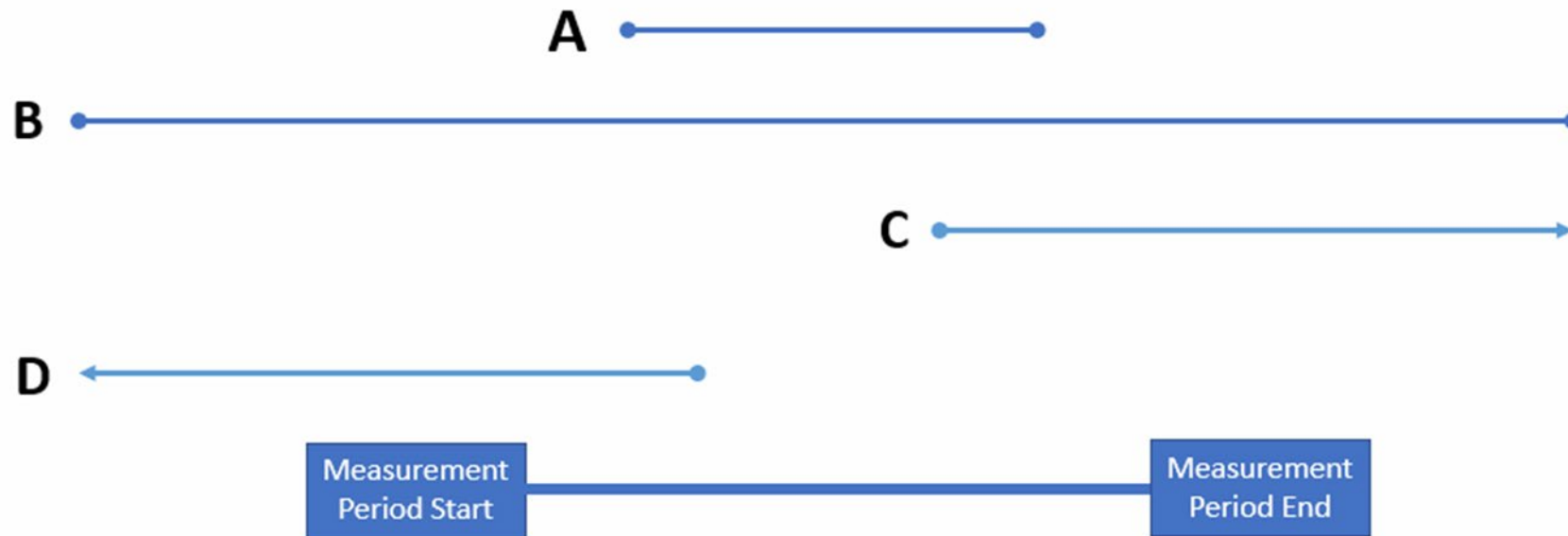
union

Example: Combining a list of encounters

▲ **AdultOutpatientEncounters.Qualifying Encounters**

```
( ["Encounter, Performed": "Office Visit"]  
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```

COMMON CQL OPERATORS— OVERLAPS



INITIAL POPULATION—CMS125V10

Women 51–74 years of age with a visit during the measurement period

Initial Population:

exists ([“Patient Characteristic Sex”: “Female”])
and exists [“Patient Characteristic Birthdate”: “Birth date”] BirthDate
where Global.”CalendarAgeInYearsAt” (BirthDate.birthDatetime, start of “Measurement Period”) in Interval[51,74)
and exists (AdultOutpatientEncounters.”Qualifying Encounters” union “Telehealth Services”)

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DENOMINATOR—CMS125V10

Equals initial population

Denominator:
“Initial Population”



DENOMINATOR EXCLUSIONS—CMS125V10

Women who had or have a history of bilateral mastectomy, or for whom there is evidence of a right and left unilateral mastectomy

Patients 66 and older with an indication of frailty for any part of the measurement period who meet *any* of the following criteria during the measurement period or the year prior:

- Advanced illness with two outpatient encounters
- Advanced illness with one inpatient encounter
- Taking dementia medications

Patients 66 and older who are living long term in an institution for more than 90 consecutive days during the measurement period

Patients receiving palliative care during the measurement period

Denominator Exclusions:

Hospice.“Has Hospice”

or ((exists (“Right Mastectomy Diagnosis”) or exists (“Right Mastectomy Procedure”))

and (exists(“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))

or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

or FrailtyLTI.“Advanced Illness and Frailty Exclusion Not Including Over Age 80”

or (exists [“Patient Characteristic Birthdate”: “Birth date”] BirthDate where (Global.“CalendarAgeInYearsAt”

(BirthDate.birthDatetime, start of “Measurement Period”) >=65) and FrailtyLTI.“Has Long Term Care Periods Longer Than 90

Consecutive Days”)

or PalliativeCare.“Palliative Care in the Measurement Period”



DENOMINATOR EXCLUSIONS—CMS125V10

Women who had or have a history of bilateral mastectomy, or for whom there is evidence of a right and left unilateral mastectomy

Denominator Exclusions:

or ((exists (“Right Mastectomy Diagnosis”) or exists (“Right Mastectomy Procedure”))
and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Right Mastectomy Diagnosis

([“Diagnosis”: “Status Post Right Mastectomy”] RightMastectomyProcedure union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”] UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Right (qualifier value)”))
RightMastectomy where RightMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
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Terminology

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Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
else if period is not null then period
else null as Interval<DateTime>



DENOMINATOR EXCLUSIONS—CMS125V10

Women who had or have a history of bilateral mastectomy, or for whom there is evidence of a right and left unilateral mastectomy

Denominator Exclusions:

or ((exists (“Right Mastectomy Diagnosis”) or exists (“Right Mastectomy Procedure”))
and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Right Mastectomy Diagnosis

([“Diagnosis”: “Status Post Right Mastectomy”] RightMastectomyProcedure union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”] UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Right (qualifier value)”))
RightMastectomy where RightMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

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Right Mastectomy Diagnosis

([“Diagnosis”: “Status Post Right Mastectomy”] RightMastectomyProcedure union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”] UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Right (qualifier value)”))
RightMastectomy where RightMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

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or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Right Mastectomy Diagnosis

([“Diagnosis”: “Status Post Right Mastectomy”] RightMastectomyProcedure union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”] UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Right (qualifier value)”))
RightMastectomy where RightMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

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and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Right Mastectomy Diagnosis

([“Diagnosis”: “Status Post Right Mastectomy”] RightMastectomyProcedure union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”] UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Right (qualifier value)”))
RightMastectomy where RightMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Right Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Right”] UnilateralMastectomyRightPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyRightPerformed.relevantDatetime, UnilateralMastectomyRightPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
else if period is not null then period
else null as Interval<DateTime>



DENOMINATOR EXCLUSIONS—CMS125V10

Women who had or have a history of bilateral mastectomy, or for whom there is evidence of a right and left unilateral mastectomy

Denominator Exclusions:

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and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Left Mastectomy Diagnosis

([“Diagnosis”: “Status Post Left Mastectomy”] union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”]
UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Left (qualifier value)”) LeftMastectomy
where LeftMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Left Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Left”] UnilateralMastectomyLeftPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyLeftPerformed.relevantDatetime, UnilateralMastectomyLeftPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
else if period is not null then period
else null as Interval<DateTime>



DENOMINATOR EXCLUSIONS—CMS125V10

Women who had or have a history of bilateral mastectomy, or for whom there is evidence of a right and left unilateral mastectomy

Denominator Exclusions:

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and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure

Left Mastectomy Diagnosis

([“Diagnosis”: “Status Post Left Mastectomy”] union ([“Diagnosis”: “Unilateral Mastectomy, Unspecified Laterality”]
UnilateralMastectomyDiagnosis where UnilateralMastectomyDiagnosis.anatomicalLocationSite ~ “Left (qualifier value)”) LeftMastectomy
where LeftMastectomy.prevalencePeriod starts on or before end of “Measurement Period”

Left Mastectomy Procedure

([“Procedure, Performed”: “Unilateral Mastectomy Left”] UnilateralMastectomyLeftPerformed where Global.”NormalizeInterval”
(UnilateralMastectomyLeftPerformed.relevantDatetime, UnilateralMastectomyLeftPerformed.relevantPeriod ends on or before
end of “Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
else if period is not null then period
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and (exists (“Left Mastectomy Diagnosis”) or exists (“Left Mastectomy Procedure”)))
or exists “Bilateral Mastectomy Diagnosis” or exists “Bilateral Mastectomy Procedure”

Bilateral Mastectomy Diagnosis

([“Diagnosis”: “History of bilateral mastectomy”] BilateralMastectomyHistory where BilateralMastectomyHistory.prevalencePeriod starts on or before end of “Measurement Period”

Bilateral Mastectomy Procedure

([“Procedure, Performed”: “Bilateral Mastectomy”] BilateralMastectomyPerformed where Global.”NormalizeInterval”
(BilateralMastectomyPerformed.relevantDatetime, UnilateralMastectomyLeftPerformed.relevantPeriod ends on or before end of
“Measurement Period”

Function:

Global.NormalizeInterval(pointInTime DateTime,
periodInterval<DateTime>)
if pointInTime is not null then
Interval[pointInTime, pointInTime]
else if period is not null then period
else null as Interval<DateTime>



NUMERATOR—CMS125V10

Women with one or more mammograms during the 27 months prior to the end of the measurement period

Numerator:

exists ([“Diagnostic Study, Performed”: “Mammography”] Mammogram
where (Global.“NormalizeInterval”(Mammogram.relevantDatetime, Mammogram.relevantPeriod) ends 27 months or
less on or before day of end of “Measurement Period”))



NUMERATOR—CMS125V10

Women with one or more mammograms during the 27 months prior to the end of the measurement period

Numerator:

exists ([“Diagnostic Study, Performed”: “Mammography”] Mammogram
where (Global.“NormalizeInterval”(Mammogram.relevantDatetime, Mammogram.relevantPeriod) ends 27 months or
less on or before day of end of “Measurement Period”))



NUMERATOR—CMS 125V10

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NUMERATOR—CMS 125V10

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where (Global.“NormalizeInterval”(Mammogram.relevantDatetime, Mammogram.relevantPeriod) ends 27 months or less on or before day of end of “Measurement Period”))

Function:

Global.NormalizeInterval(pointInTime DateTime, periodInterval<DateTime>)
if pointInTime is not null then Interval[pointInTime, pointInTime]
else if period is not null then period
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eCQM RESOURCES

eCQI Resource Center	<ul style="list-style-type: none">• The one-stop shop for the most current resources to support electronic clinical quality improvement• The eCQI Resource Center will include CRP announcements
Office of National Coordinator Project Tracking System (ONC Jira) eCQM Issue Tracker	<ul style="list-style-type: none">• CMS receives questions on eQCMs through ONC Jira, which is used as a collaborative platform for logging, tracking, and discussing issues related to program eQCMs• Jira uses platforms, known as trackers or projects. The Jira eCQM Issue Tracker addresses questions specific to eCQM specifications, from questions on measure intent, logic implementation, and value set coding, to eCQM reporting and recommendations for updates to specifications.• Measure developers use the eCQM Issue Tracker as a source for gathering new requirements for the eCQM Annual Update and are included as Change Review Process (CRP) tickets on the eCQM Issue Tracker summary page.



ENGAGEMENT OPPORTUNITIES

- Take part in [eCQI Resource Center events](#)
 - QDM User Group
 - Cooking with CQL, QDM, and Fast Healthcare Interoperability Resources®
 - Cypress Tech Talks
- Provide public comment
 - Regulatory rulings
 - Change review process (CRP)
 - Jira
- HL7 work groups
 - Clinical Quality Information
 - Clinical Decision Support
 - Clinical Information Modeling Initiative
 - Vocabulary
 - Patient Care
 - Orders and Observations
 - Clinical Interoperability Council
 - <http://www.hl7.org/concalls/CallDirectory.aspx>



QUESTIONS



ADDITIONAL RESOURCES

Guide for Reading eQMs

- To help providers, quality analysts, implementers, and health information technology vendors understand eQMs and their related documents
- <https://ecqi.healthit.gov/sites/default/files/Guide-for-Reading-eQMs-v7.pdf>

eQM Logic and Implementation Guide

- Provide general implementation guidance, including defining how specific logic and data elements should be conceptualized and addressed during eQM implementation
- <https://ecqi.healthit.gov/sites/default/files/eQM-Logic-and-Guidance-v5.pdf>

Value Set Authority Center

- A repository for value sets across authors and stewards, with downloadable access to all official versions of value sets in the eQMs
- <https://vsac.nlm.nih.gov/download/ecqm?rel=2022>



ADDITIONAL RESOURCES (cont'd.)

Pioneers in Quality Video Short—CQL Basics

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

CMS Measures Management System Blueprint

- A standardized approach to developing and maintaining quality measures used in quality initiatives and programs
- <https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/MMS/MMS-Blueprint>

QDM

- QDM is an information model that defines relationships between patients and clinical concepts in a standardized format
- <https://ecqi.healthit.gov/qdm>

CQL

- CQL is the new expression logic used in the Health Quality Forum and has replaced the QDM; the logic in all eCQMs you will review will be in CQL
- <https://ecqi.healthit.gov/cql>

