

eCQM Title	Chlamydia Screening for Women		
eCQM Identifier (Measure Authoring Tool)	153	eCQM Version number	7.4.000
NQF Number	0033	GUID	c9930664-be3d-4ffe-ae4a-5cf4933ecb89
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	National Committee for Quality Assurance		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	National Quality Forum		
Description	Percentage of women 16-24 years of age who were identified as sexually active and who had at least one test for chlamydia during the measurement period		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	Report a total score, and each of the following strata: Stratum 1: Patients age 16-20 Stratum 2: Patients age 21-24		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	<p>Chlamydia trachomatis is the most common sexually transmitted bacterial infection in the U.S., resulting in roughly 1.6 million cases each year (CDC 2017). Chlamydia infections are often asymptomatic, but, if left untreated, can lead to serious and irreversible complications (USPSTF 2014, CDC 2017).</p> <p>Women are particularly vulnerable when infected with chlamydia. Left untreated, chlamydia can cause pelvic inflammatory disease (PID), which can lead to chronic pelvic pain or infertility. Pregnant women may also transmit the infection to their infant, potentially resulting in neonatal pneumonia (CDC 2017).</p>		
Clinical Recommendation Statement	<p>U.S. Preventive Services Task Force (USPSTF) (2014): The USPSTF recommends screening for chlamydia in sexually active females aged 24 years or younger and in older women who are at increased risk for infection. (B recommendation)</p>		
Improvement Notation	Higher score indicates better quality		
Reference	Centers for Disease Control and Prevention (CDC). 2017. "Sexually Transmitted Disease Surveillance 2016." Atlanta, GA.		
Reference	U.S. Preventive Services Task Force (USPSTF). 2014. "Screening for Chlamydia and Gonorrhea: U.S. Preventive Services Task Force Recommendation Statement." Ann Intern Med 161:902-910.		
Definition	None		
Guidance	<p>Codes to identify sexually active women include codes for: pregnancy, sexually transmitted infections, contraceptives or contraceptive devices, and infertility treatments.</p> <p>The denominator exclusion does not apply to patients who qualify for the initial population (IP) based on services other than the pregnancy test alone. These other services include services for sexually transmitted infections, contraceptives or contraceptive devices and infertility treatments. For example, a patient who has both a pregnancy test and a chlamydia diagnosis, either of which would qualify them for the IP, would not be eligible for this denominator exclusion.</p> <p>Patient self-report for procedures as well as diagnostic studies should be recorded in 'Procedure, Performed' template or 'Diagnostic Study, Performed' template in QRDA-1. Patient self-report is not allowed for laboratory tests.</p>		
Transmission Format	TBD		
Initial Population	Women 16 to 24 years of age who are sexually active and who had a visit in the measurement period		
Denominator	Equals Initial Population		
Denominator Exclusions	<p>Women who are only eligible for the initial population due to a pregnancy test and who had an x-ray or an order for a specified medication within 7 days of the pregnancy test.</p> <p>Exclude patients whose hospice care overlaps the measurement period.</p>		
Numerator	Women with at least one chlamydia test during the measurement period		
Numerator Exclusions	Not Applicable		
Denominator Exceptions	None		
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex		

Table of Contents

- [Population Criteria](#)
- [Definitions](#)
- [Functions](#)
- [Terminology](#)
- [Data Criteria \(QDM Data Elements\)](#)
- [Supplemental Data Elements](#)
- [Risk Adjustment Variables](#)

Population Criteria

▲ Initial Population

```
exists ( ["Patient Characteristic Birthdate"] Birthdate
  where Global."CalendarAgeInYearsAt"(Birthdate.birthDatetime, start of "Measurement Period")in Interval[16, 24 ]
)
and exists ( ["Patient Characteristic Sex": "Female"] )
```

and exists ("Qualifying Encounters")
 and (exists ("Assessments Identifying Sexual Activity")
 or exists ("Diagnoses Identifying Sexual Activity")
 or exists ("Active Contraceptive Medications")
 or exists ("Ordered Contraceptive Medications")
 or exists ("Laboratory Tests Identifying Sexual Activity")
 or exists ("Diagnostic Studies Identifying Sexual Activity")
 or exists ("Procedures Identifying Sexual Activity")
)
)

Denominator

"Initial Population"

Denominator Exclusions

Hospice."Has Hospice"
 or (exists ("Pregnancy Test Exclusion")
 and not exists ("Diagnoses Identifying Sexual Activity")
 and not exists ("Active Contraceptive Medications")
 and not exists ("Laboratory Tests Identifying Sexual Activity But Not Pregnancy")
 and not exists ("Procedures Identifying Sexual Activity")
 and not exists ("Assessments Identifying Sexual Activity")
 and not exists ("Ordered Contraceptive Medications")
 and not exists ("Diagnostic Studies Identifying Sexual Activity")
)
)

Numerator

exists (["Laboratory Test, Performed": "Chlamydia Screening"] ChlamydiaTest
 where ChlamydiaTest.result is not null
 and ChlamydiaTest.relevantPeriod during "Measurement Period"
)

Numerator Exclusions

None

Denominator Exceptions

None

Stratification 1

exists ["Patient Characteristic Birthdate"] BirthDate
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 16
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 20

Stratification 2

exists ["Patient Characteristic Birthdate"] BirthDate
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 20
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 24

Definitions

Active Contraceptive Medications

["Medication, Active": "Contraceptive Medications"] ActiveContraceptives
 where ActiveContraceptives.relevantPeriod overlaps "Measurement Period"

Assessments Identifying Sexual Activity

(["Assessment, Performed": "Sexually Active"] SexualActivityAssessment
 where SexualActivityAssessment.result ~ "Yes (qualifier value)"
 and SexualActivityAssessment.authorDatetime before end of "Measurement Period"
)

Denominator

"Initial Population"

Denominator Exclusions

Hospice."Has Hospice"
 or (exists ("Pregnancy Test Exclusion")
 and not exists ("Diagnoses Identifying Sexual Activity")
 and not exists ("Active Contraceptive Medications")
 and not exists ("Laboratory Tests Identifying Sexual Activity But Not Pregnancy")
 and not exists ("Procedures Identifying Sexual Activity")
 and not exists ("Assessments Identifying Sexual Activity")
 and not exists ("Ordered Contraceptive Medications")
 and not exists ("Diagnostic Studies Identifying Sexual Activity")
)
)

Diagnoses Identifying Sexual Activity

(["Diagnosis": "Other Female Reproductive Conditions"]
 union ["Diagnosis": "Genital Herpes"]
 union ["Diagnosis": "Gonococcal Infections and Venereal Diseases"]
 union ["Diagnosis": "Inflammatory Diseases of Female Reproductive Organs"]
 union ["Diagnosis": "Chlamydia"]
 union ["Diagnosis": "HIV"]
 union ["Diagnosis": "Syphilis"]
 union ["Diagnosis": "Carrier of Predominantly Sexually Transmitted Infection"]
 union ["Diagnosis": "Complications of Pregnancy, Childbirth and the Puerperium"]) SexualActivityDiagnosis
 where SexualActivityDiagnosis.prevalencePeriod overlaps "Measurement Period"

Diagnostic Studies Identifying Sexual Activity

["Diagnostic Study, Order": "Diagnostic Studies During Pregnancy"] SexualActivityDiagnostics
 where SexualActivityDiagnostics.authorDatetime during "Measurement Period"

Hospice.Has Hospice

exists (["Encounter, Performed": "Encounter Inpatient"] DischargeHospice
 where (DischargeHospice.dischargeDisposition as Code ~ "Discharge to home for hospice care (procedure)"
 or DischargeHospice.dischargeDisposition as Code ~ "Discharge to healthcare facility for hospice care (procedure)"
)
 and DischargeHospice.relevantPeriod ends during "Measurement Period"
)
 or exists (["Intervention, Order": "Hospice care ambulatory"] HospiceOrder
 where HospiceOrder.authorDatetime during "Measurement Period"
)
 or exists (["Intervention, Performed": "Hospice care ambulatory"] HospicePerformed
 where HospicePerformed.relevantPeriod overlaps "Measurement Period"
)
)

Initial Population

```

exists ( ["Patient Characteristic Birthdate"] Birthdate
  where Global."CalendarAgeInYearsAt"(Birthdate.birthDatetime, start of "Measurement Period")in Interval[16, 24]
)
and exists ( ["Patient Characteristic Sex": "Female"] )
and exists ( "Qualifying Encounters" )
and ( exists ( "Assessments Identifying Sexual Activity" )
  or exists ( "Diagnoses Identifying Sexual Activity" )
  or exists ( "Active Contraceptive Medications" )
  or exists ( "Ordered Contraceptive Medications" )
  or exists ( "Laboratory Tests Identifying Sexual Activity" )
  or exists ( "Diagnostic Studies Identifying Sexual Activity" )
  or exists ( "Procedures Identifying Sexual Activity" )
)
)

```

▲ Laboratory Tests Identifying Sexual Activity

```

(["Laboratory Test, Order": "Pregnancy Test"]
union ["Laboratory Tests Identifying Sexual Activity But Not Pregnancy" ] AllLabOrders
where AllLabOrders.authorDatetime during "Measurement Period"

```

▲ Laboratory Tests Identifying Sexual Activity But Not Pregnancy

```

(["Laboratory Test, Order": "Pap Test"]
union ["Laboratory Test, Order": "Lab Tests During Pregnancy"]
union ["Laboratory Test, Order": "Lab Tests for Sexually Transmitted Infections"] ) LabOrders
where LabOrders.authorDatetime during "Measurement Period"

```

▲ Numerator

```

exists ( ["Laboratory Test, Performed": "Chlamydia Screening"] ChlamydiaTest
  where ChlamydiaTest.result is not null
  and ChlamydiaTest.relevantPeriod during "Measurement Period"
)

```

▲ Ordered Contraceptive Medications

```

["Medication, Order": "Contraceptive Medications"] OrderedContraceptives
where OrderedContraceptives.authorDatetime during "Measurement Period"

```

▲ Pregnancy Test Exclusion

```

(["Laboratory Test, Order": "Pregnancy Test"] PregnancyTest
with ["Diagnostic Study, Order": "X-Ray Study (all inclusive)"] XrayOrder
such that XrayOrder.authorDatetime occurs 7 days or less on or after PregnancyTest.authorDatetime
where PregnancyTest.authorDatetime during "Measurement Period"
)
union ( ["Laboratory Test, Order": "Pregnancy Test"] PregnancyTestOrder
with ["Medication, Order": "Isotretinoin"] AccutaneOrder
such that AccutaneOrder.authorDatetime occurs 7 days or less on or after PregnancyTestOrder.authorDatetime
where PregnancyTestOrder.authorDatetime during "Measurement Period"
)

```

▲ Procedures Identifying Sexual Activity

```

(["Procedure, Performed": "Delivery Live Births"]
union ["Procedure, Performed": "Procedures During Pregnancy"]
union ["Procedure, Performed": "Procedures Involving Contraceptive Devices"] ) ProceduresForSexualActivity
where ProceduresForSexualActivity.relevantPeriod during "Measurement Period"

```

▲ Qualifying Encounters

```

(["Encounter, Performed": "Office 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": "Preventive Care- Initial Office Visit, 0 to 17"]
union ["Encounter, Performed": "Preventive Care - Established Office Visit, 0 to 17"]
union ["Encounter, Performed": "Home Healthcare Services"] ) ValidEncounter
where ValidEncounter.relevantPeriod during "Measurement Period"

```

▲ SDE Ethnicity

```

["Patient Characteristic Ethnicity": "Ethnicity"]

```

▲ SDE Payer

```

["Patient Characteristic Payer": "Payer"]

```

▲ SDE Race

```

["Patient Characteristic Race": "Race"]

```

▲ SDE Sex

```

["Patient Characteristic Sex": "ONC Administrative Sex"]

```

▲ Stratification 1

```

exists ["Patient Characteristic Birthdate"] BirthDate
  where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 16
  and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 20

```

▲ Stratification 2

```

exists ["Patient Characteristic Birthdate"] BirthDate
  where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 20
  and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 24

```

Functions

▲ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

```

years between ToDate(BirthDateTime)and ToDate(AsOf)

```

▲ Global.ToDate(Value DateTime)

```

DateTime(year from Value, month from Value, day from Value, 0, 0, 0, 0, 0, timezone from Value)

```

Terminology

- codesystem "SNOMEDCT" using "2.16.840.1.113883.6.96 version 2017-09"
- code "Discharge to healthcare facility for hospice care (procedure)" using "SNOMEDCT version 2017-09 Code (428371000124100)"
- code "Discharge to home for hospice care (procedure)" using "SNOMEDCT version 2017-09 Code (428361000124107)"
- code "Yes (qualifier value)" using "SNOMEDCT version 2017-09 Code (373066001)"
- valueset "Carrier of Predominantly Sexually Transmitted Infection" using "2.16.840.1.113883.3.464.1003.112.11.1023"
- valueset "Chlamydia Screening" using "2.16.840.1.113883.3.464.1003.110.12.1052"

- valueset "Chlamydia" using "2.16.840.1.113883.3.464.1003.112.12.1003"
- valueset "Complications of Pregnancy, Childbirth and the Puerperium" using "2.16.840.1.113883.3.464.1003.111.12.1012"
- valueset "Contraceptive Medications" using "2.16.840.1.113883.3.464.1003.196.12.1080"
- valueset "Delivery Live Births" using "2.16.840.1.113883.3.464.1003.111.12.1015"
- valueset "Diagnostic Studies During Pregnancy" using "2.16.840.1.113883.3.464.1003.111.12.1008"
- valueset "Encounter Inpatient" using "2.16.840.1.113883.3.666.5.307"
- valueset "Ethnicity" using "2.16.840.1.114222.4.11.837"
- valueset "Female" using "2.16.840.1.113883.3.560.100.2"
- valueset "Genital Herpes" using "2.16.840.1.113883.3.464.1003.110.12.1049"
- valueset "Gonococcal Infections and Venereal Diseases" using "2.16.840.1.113883.3.464.1003.112.12.1001"
- valueset "HIV" using "2.16.840.1.113883.3.464.1003.120.12.1003"
- valueset "Home Healthcare Services" using "2.16.840.1.113883.3.464.1003.101.12.1016"
- valueset "Hospice care ambulatory" using "2.16.840.1.113762.1.4.1108.15"
- valueset "Inflammatory Diseases of Female Reproductive Organs" using "2.16.840.1.113883.3.464.1003.112.12.1004"
- valueset "Isotretinoin" using "2.16.840.1.113883.3.464.1003.196.12.1143"
- valueset "Lab Tests During Pregnancy" using "2.16.840.1.113883.3.464.1003.111.12.1007"
- valueset "Lab Tests for Sexually Transmitted Infections" using "2.16.840.1.113883.3.464.1003.110.12.1051"
- valueset "Office Visit" using "2.16.840.1.113883.3.464.1003.101.12.1001"
- valueset "ONC Administrative Sex" using "2.16.840.1.113762.1.4.1"
- valueset "Other Female Reproductive Conditions" using "2.16.840.1.113883.3.464.1003.111.12.1006"
- valueset "Pap Test" using "2.16.840.1.113883.3.464.1003.108.12.1017"
- valueset "Payer" using "2.16.840.1.114222.4.11.3591"
- valueset "Pregnancy Test" using "2.16.840.1.113883.3.464.1003.111.12.1011"
- valueset "Preventive Care - Established Office Visit, 0 to 17" using "2.16.840.1.113883.3.464.1003.101.12.1024"
- valueset "Preventive Care Services - Established Office Visit, 18 and Up" using "2.16.840.1.113883.3.464.1003.101.12.1025"
- valueset "Preventive Care Services-Initial Office Visit, 18 and Up" using "2.16.840.1.113883.3.464.1003.101.12.1023"
- valueset "Preventive Care- Initial Office Visit, 0 to 17" using "2.16.840.1.113883.3.464.1003.101.12.1022"
- valueset "Procedures During Pregnancy" using "2.16.840.1.113883.3.464.1003.111.12.1009"
- valueset "Procedures Involving Contraceptive Devices" using "2.16.840.1.113883.3.464.1003.111.12.1010"
- valueset "Race" using "2.16.840.1.114222.4.11.836"
- valueset "Sexually Active" using "2.16.840.1.113883.3.464.1003.121.12.1040"
- valueset "Syphilis" using "2.16.840.1.113883.3.464.1003.112.12.1002"
- valueset "X-Ray Study (all inclusive)" using "2.16.840.1.113883.3.464.1003.198.12.1034"

Data Criteria (QDM Data Elements)

- "Assessment, Performed: Sexually Active" using "Sexually Active (2.16.840.1.113883.3.464.1003.121.12.1040)"
- "Diagnosis: Carrier of Predominantly Sexually Transmitted Infection" using "Carrier of Predominantly Sexually Transmitted Infection (2.16.840.1.113883.3.464.1003.112.11.1023)"
- "Diagnosis: Chlamydia" using "Chlamydia (2.16.840.1.113883.3.464.1003.112.12.1003)"
- "Diagnosis: Complications of Pregnancy, Childbirth and the Puerperium" using "Complications of Pregnancy, Childbirth and the Puerperium (2.16.840.1.113883.3.464.1003.111.12.1012)"
- "Diagnosis: Genital Herpes" using "Genital Herpes (2.16.840.1.113883.3.464.1003.110.12.1049)"
- "Diagnosis: Gonococcal Infections and Venereal Diseases" using "Gonococcal Infections and Venereal Diseases (2.16.840.1.113883.3.464.1003.112.12.1001)"
- "Diagnosis: HIV" using "HIV (2.16.840.1.113883.3.464.1003.120.12.1003)"
- "Diagnosis: Inflammatory Diseases of Female Reproductive Organs" using "Inflammatory Diseases of Female Reproductive Organs (2.16.840.1.113883.3.464.1003.112.12.1004)"
- "Diagnosis: Other Female Reproductive Conditions" using "Other Female Reproductive Conditions (2.16.840.1.113883.3.464.1003.111.12.1006)"
- "Diagnosis: Syphilis" using "Syphilis (2.16.840.1.113883.3.464.1003.112.12.1002)"
- "Diagnostic Study, Order: Diagnostic Studies During Pregnancy" using "Diagnostic Studies During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1008)"
- "Diagnostic Study, Order: X-Ray Study (all inclusive)" using "X-Ray Study (all inclusive) (2.16.840.1.113883.3.464.1003.198.12.1034)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient (2.16.840.1.113883.3.666.5.307)"
- "Encounter, Performed: Home Healthcare Services" using "Home Healthcare Services (2.16.840.1.113883.3.464.1003.101.12.1016)"
- "Encounter, Performed: Office Visit" using "Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Preventive Care - Established Office Visit, 0 to 17" using "Preventive Care - Established Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1024)"
- "Encounter, Performed: Preventive Care Services - Established Office Visit, 18 and Up" using "Preventive Care Services - Established Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1025)"
- "Encounter, Performed: Preventive Care Services-Initial Office Visit, 18 and Up" using "Preventive Care Services-Initial Office Visit, 18 and Up (2.16.840.1.113883.3.464.1003.101.12.1023)"
- "Encounter, Performed: Preventive Care- Initial Office Visit, 0 to 17" using "Preventive Care- Initial Office Visit, 0 to 17 (2.16.840.1.113883.3.464.1003.101.12.1022)"
- "Intervention, Order: Hospice care ambulatory" using "Hospice care ambulatory (2.16.840.1.113762.1.4.1108.15)"
- "Intervention, Performed: Hospice care ambulatory" using "Hospice care ambulatory (2.16.840.1.113762.1.4.1108.15)"
- "Laboratory Test, Order: Lab Tests During Pregnancy" using "Lab Tests During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1007)"
- "Laboratory Test, Order: Lab Tests for Sexually Transmitted Infections" using "Lab Tests for Sexually Transmitted Infections (2.16.840.1.113883.3.464.1003.110.12.1051)"
- "Laboratory Test, Order: Pap Test" using "Pap Test (2.16.840.1.113883.3.464.1003.108.12.1017)"
- "Laboratory Test, Order: Pregnancy Test" using "Pregnancy Test (2.16.840.1.113883.3.464.1003.111.12.1011)"
- "Laboratory Test, Performed: Chlamydia Screening" using "Chlamydia Screening (2.16.840.1.113883.3.464.1003.110.12.1052)"
- "Medication, Active: Contraceptive Medications" using "Contraceptive Medications (2.16.840.1.113883.3.464.1003.196.12.1080)"
- "Medication, Order: Contraceptive Medications" using "Contraceptive Medications (2.16.840.1.113883.3.464.1003.196.12.1080)"
- "Medication, Order: Isotretinoin" using "Isotretinoin (2.16.840.1.113883.3.464.1003.196.12.1143)"
- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: Female" using "Female (2.16.840.1.113883.3.560.100.2)"
- "Patient Characteristic Sex: Onc Administrative Sex" using "Onc Administrative Sex (2.16.840.1.113762.1.4.1)"
- "Procedure, Performed: Delivery Live Births" using "Delivery Live Births (2.16.840.1.113883.3.464.1003.111.12.1015)"
- "Procedure, Performed: Procedures During Pregnancy" using "Procedures During Pregnancy (2.16.840.1.113883.3.464.1003.111.12.1009)"
- "Procedure, Performed: Procedures Involving Contraceptive Devices" using "Procedures Involving Contraceptive Devices (2.16.840.1.113883.3.464.1003.111.12.1010)"

Supplemental Data Elements

▲ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

▲ SDE Payer

["Patient Characteristic Payer": "Payer"]

▲ SDE Race

["Patient Characteristic Race": "Race"]

▲ SDE Sex

["Patient Characteristic Sex": "ONC Administrative Sex"]

Risk Adjustment Variables

None

Measure Set	None
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