

eCQM Title	Cervical Cancer Screening		
eCQM Identifier (Measure Authoring Tool)	124	eCQM Version number	7.2.000
NQF Number	0032	GUID	42e7e489-790f-427a-a1a6-d6e807f65a6d
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 21-64 years of age who were screened for cervical cancer using either of the following criteria: * Women age 21-64 who had cervical cytology performed every 3 years * Women age 30-64 who had cervical cytology/human papillomavirus (HPV) co-testing performed every 5 years		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	All women are at risk for cervical cancer, but it occurs most often in women over the age of 30. In 2017, approximately 12,820 women were diagnosed with cervical cancer in the U.S., resulting in an estimated 4,210 deaths (Howlander et al. 2017). If pre-cancerous lesions are detected early by Pap tests and treated, the likelihood of survival is nearly 100 percent (American Cancer Society 2017). In 2015, women with no health insurance and recent immigrants were least likely to have a Pap test (American Cancer Society 2017).		
Clinical Recommendation Statement	<p>U.S. Preventive Services Task Force (USPSTF) (2012) "The USPSTF recommends screening for cervical cancer in women aged 21 to 65 years with cytology (Papanicolaou smear) every 3 years or, for women aged 30 to 65 years who want to lengthen the screening interval, screening with a combination of cytology and HPV testing every 5 years." (A recommendation)</p> <p>"The USPSTF recommends against screening for cervical cancer in women younger than age 21 years." (D recommendation)</p> <p>"The USPSTF recommends against screening for cervical cancer in women older than age 65 years who have had adequate prior screening and are not otherwise at high risk for cervical cancer." (D recommendation)</p> <p>"The USPSTF recommends against screening for cervical cancer in women who have had a hysterectomy with removal of the cervix and who do not have a history of a high-grade precancerous lesion (cervical intraepithelial neoplasia grade 2 or 3) or cervical cancer." (D recommendation).</p> <p>"The USPSTF recommends against screening for cervical cancer with HPV testing, alone or in combination with cytology, in women younger than age 30 years." (D recommendation)</p>		
Improvement Notation	Higher score equals better quality		
Reference	American Cancer Society. 2017. "Cancer Prevention & Early Detection Facts & Figures 2017-2018." Atlanta: American Cancer Society.		
Reference	U.S. Preventive Services Task Force. 2012. "Screening for Cervical Cancer: U.S. Preventive Services Task Force Recommendation Statement." Ann Intern Med. 156(12):880-91.		
Reference	Howlander, N., A.M. Noone, M. Krapcho, D. Miller, K. Bishop, C.L. Kosary, M. Yu, J. Ruhl, Z. Tatalovich, A. Mariotto, D.R. Lewis, H.S. Chen, E.J. Feuer, and K.A. Cronin. "SEER Cancer Statistics Review, 1975-2014." Washington, DC: National Cancer Institute, 2017. Available at https://seer.cancer.gov/csr/1975_2014		
Definition	None		
Guidance	<p>To ensure the measure is only looking for a cervical cytology test only after a woman turns 21 years of age, the youngest age in the initial population is 23.</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.</p> <p>Include only cytology and HPV "co-testing"; in co-testing, both cytology and HPV tests are performed (i.e., the samples are collected and both tests are ordered, regardless of the cytology result) on the same date of service. Do not include reflex testing. In addition, if the medical record indicates the HPV test was performed only after determining the cytology result, this is considered reflex testing and does not meet criteria for the measure.</p>		
Transmission Format	TBD		
Initial Population	Women 23-64 years of age with a visit during the measurement period		
Denominator	Equals Initial Population		
Denominator Exclusions	<p>Women who had a hysterectomy with no residual cervix or a congenital absence of cervix.</p> <p>Exclude patients whose hospice care overlaps the measurement period.</p>		
Numerator	<p>Women with one or more screenings for cervical cancer. Appropriate screenings are defined by any one of the following criteria:</p> <ul style="list-style-type: none"> - Cervical cytology performed during the measurement period or the two years prior to the measurement period for women who are at least 21 years old at the time of the test - Cervical cytology/human papillomavirus (HPV) co-testing performed during the measurement period or the four years prior to the measurement period for women who are at least 30 years old at the time of the test 		
Numerator Exclusions	Not Applicable		
Denominator Exceptions	None		
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex		

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Population Criteria

Initial Population

```
exists ( ["Patient Characteristic Birthdate"] BirthDate
  where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 23
  and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 64
)
and exists ( ["Patient Characteristic Sex": "Female"] )
and exists "Qualifying Encounters"
```

Denominator

"Initial Population"

Denominator Exclusions

```
Hospice."Has Hospice"
or exists "Surgical Absence of Cervix"
or exists "Absence of Cervix"
```

Numerator

```
exists "Pap Test Within 3 Years"
or exists "Pap Test With HPV Within 5 Years"
```

Numerator Exclusions

None

Denominator Exceptions

None

Stratification

None

Definitions

Absence of Cervix

```
["Diagnosis": "Congenital absence of cervix (disorder)"] NoCervixBirth
where NoCervixBirth.prevalencePeriod starts before end "Measurement Period"
```

Denominator

"Initial Population"

Denominator Exclusions

```
Hospice."Has Hospice"
or exists "Surgical Absence of Cervix"
or exists "Absence of Cervix"
```

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")>= 23
  and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 64
)
and exists ( ["Patient Characteristic Sex": "Female"] )
and exists "Qualifying Encounters"
```

Numerator

```
exists "Pap Test Within 3 Years"
or exists "Pap Test With HPV Within 5 Years"
```

Pap Test With HPV Within 5 Years

```
"PapTest Within 5 Years" PapTestOver30YearsOld
with ["Laboratory Test, Performed": "HPV Test"] HPVTest
such that HPVTest.result is not null
and ( HPVTest.relevantPeriod starts 1 day or less before or on day of start of PapTestOver30YearsOld.relevantPeriod
or HPVTest.relevantPeriod starts less than 1 day after or on day of start of PapTestOver30YearsOld.relevantPeriod
)
```

Pap Test with Results

```
["Laboratory Test, Performed": "Pap Test"] PapTest
where PapTest.result is not null
```

Pap Test Within 3 Years

```
"Pap Test with Results" PapTest
where PapTest.relevantPeriod 3 years or less before end of "Measurement Period"
```

PapTest Within 5 Years

```
("Pap Test with Results" PapTestOver30YearsOld
with ["Patient Characteristic Birthdate"] BirthDate
such that Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of PapTestOver30YearsOld.relevantPeriod)>= 30
and PapTestOver30YearsOld.relevantPeriod 5 years or less before end of "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": "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"]

Surgical Absence of Cervix

["Procedure, Performed": "Hysterectomy with No Residual Cervix"] NoCervixHysterectomy
 where NoCervixHysterectomy.relevantPeriod ends before end "Measurement Period"

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, timezone from Value)

Terminology

- codesystem "SNOMEDCT" using "2.16.840.1.113883.6.96 version 2017-09"
- code "Congenital absence of cervix (disorder)" using "SNOMEDCT version 2017-09 Code (37687000)"
- 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)"
- 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 "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 "HPV Test" using "2.16.840.1.113883.3.464.1003.110.12.1059"
- valueset "Hysterectomy with No Residual Cervix" using "2.16.840.1.113883.3.464.1003.198.12.1014"
- 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 "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 "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 "Race" using "2.16.840.1.114222.4.11.836"

Data Criteria (QDM Data Elements)

- "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 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)"
- "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, Performed: HPV Test" using "HPV Test (2.16.840.1.113883.3.464.1003.110.12.1059)"
- "Laboratory Test, Performed: Pap Test" using "Pap Test (2.16.840.1.113883.3.464.1003.108.12.1017)"
- "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: Hysterectomy with No Residual Cervix" using "Hysterectomy with No Residual Cervix (2.16.840.1.113883.3.464.1003.198.12.1014)"
- "Diagnosis: Congenital absence of cervix (disorder)" using "Congenital absence of cervix (disorder) (SNOMEDCT version 2017-09 Code 37687000)"

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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