eCQM Title	**Cervical Cancer Screening**		
eCQM Identifier (Measure Authoring Tool)	124	eCQM Version Number	13.1.000
CBE Number	Not Applicable	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	None		
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 within the last 3 years - Women age 30-64 who had cervical human papillomavirus (HPV) testing performed within the last 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. In 2020, an estimated 13,800 women were diagnosed with cervical cancer in the U.S., resulting in an estimated 4,290 deaths (National Cancer Institute, 2020). Screening can identify precancerous lesions and can detect invasive cancer early, when treatment is more likely to be successful (American Cancer Society, 2020).
Clinical Recommendation Statement	The U.S Preventive Services Task Force (USPSTF) recommends screening for cervical cancer every 3 years with cervical cytology alone in women aged 21 to 29 years. For women aged 30 to 65 years, the USPSTF recommends screening every 3 years with cervical cytology alone, every 5 years with high-risk human papillomavirus (hrHPV) testing alone, or every 5 years with hrHPV testing in combination with cytology (cotesting) (A recommendation) (USPSTF, 2018).
	The USPSTF recommends against screening for cervical cancer in women older than 65 years who have had adequate prior screening and are not otherwise at high risk for cervical cancer (D recommendation) (USPSTF, 2018).
	The USPSTF recommends against screening for cervical cancer in women younger than 21 years. (D recommendation) (USPSTF, 2018).
	The USPSTF recommends against screening for cervical cancer in women who have had a hysterectomy with removal of the cervix and do not have a history of a high-grade precancerous lesion (i.e., cervical intraepithelial neoplasia [CIN] grade 2 or 3) or cervical cancer (D recommendation) (USPSTF, 2018).
Improvement Notation	Higher score equals better quality
Reference	Reference Type: CITATION
	Reference Text: 'American Cancer Society. (2020). Cancer Facts & Figures 2020. Atlanta: American Cancer Society.'
Reference	Reference Type: CITATION
	Reference Text: 'National Cancer Institute. (2020). Cancer of the Cervix Uteri - Cancer Stat Facts. https://seer.cancer.gov/statfacts/html/cervix.html'
Reference	Reference Type: CITATION
	Reference Text: 'US Preventive Services Task Force, Curry, S. J., Krist, A. H., Owens, D. K., Barry, M. J., Caughey, A. B., … Wong, J. B. (2018). Screening for Cervical Cancer: US Preventive Services Task Force Recommendation Statement. JAMA, 320(7), 674–686. https://doi.org/10.1001/jama.2018.10897'
Definition	None
Guidance	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.
	Please note the measure may include screenings performed outside the age range of patients referenced in the initial population. Screenings that occur prior to the measurement period are valid to meet measure criteria.
	Evidence of hrHPV testing within the last 5 years also captures patients who had cotesting; therefore additional methods to identify cotesting are not necessary.
	This eCQM is a patient-based measure.

	This version of the eCQM uses QDM version 5.6. Please refer to the eCQI resource center (https://ecqi.healthit.gov/qdm) for more information on the QDM.
Transmission Format	TBD
Initial Population	Women 24-64 years of age by the end of the measurement period with a visit during the measurement period
Denominator	Equals Initial Population
Denominator Exclusions	Exclude patients who are in hospice care for any part of the measurement period. Women who had a hysterectomy with no residual cervix or a congenital absence of cervix. Exclude patients receiving palliative care for any part of the measurement period.
Numerator	Women with one or more screenings for cervical cancer. Appropriate screenings are defined by any one of the following criteria: - Cervical cytology performed during the measurement period or the two years prior to the measurement period for women 24-64 years of age by the end of the measurement period. - Cervical human papillomavirus (HPV) testing performed during the measurement period or the four years prior to the measurement period for women who are 30 years or older 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

```
AgeInYearsAt(date from
  end of "Measurement Period"
) in Interval[24, 64]
  and exists ( ["Patient Characteristic Sex": "Female"] )
  and exists "Qualifying Encounters"
```

◢ Denominator

```
"Initial Population"
```

◢ Denominator Exclusions

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

or PalliativeCare."Has Palliative Care in the Measurement Period"

◢ Numerator

exists "Cervical Cytology Within 3 Years"
  or exists "HPV Test Within 5 Years for Women Age 30 and Older"

◢ Numerator Exclusions

None

◢ Denominator Exceptions

None

◢ Stratification

None

Definitions

◢ Absence of Cervix

(["Procedure, Performed": "Hysterectomy with No Residual Cervix"] NoCervixProcedure
    where Global."NormalizeInterval" (NoCervixProcedure.relevantDatetime, NoCervixProcedure.relevantPeriod) ends on or before end of "Measurement Period"
)
  union (["Diagnosis": "Congenital or Acquired Absence of Cervix"] NoCervixDiagnosis
      where NoCervixDiagnosis.prevalencePeriod starts on or before end of "Measurement Period"
)

◢ Cervical Cytology Within 3 Years

["Laboratory Test, Performed": "Pap Test"] CervicalCytology
  where Global."LatestOf" (CervicalCytology.relevantDatetime, CervicalCytology.relevantPeriod) during day of Interval[start of "Measurement Period" - 2 years, end of "Measurement Period"]
    and CervicalCytology.result is not null

◢ Denominator

"Initial Population"

◢ Denominator Exclusions

Hospice."Has Hospice Services"
  or exists "Absence of Cervix"
  or PalliativeCare."Has Palliative Care in the Measurement Period"

◢ Hospice.Has Hospice Services

exists (["Encounter, Performed": "Encounter Inpatient"] InpatientEncounter
    where (InpatientEncounter.dischargeDisposition ~ "Discharge to home for hospice care (procedure)"
        or InpatientEncounter.dischargeDisposition ~ "Discharge to healthcare facility for hospice care (procedure)"
)
      and InpatientEncounter.relevantPeriod ends during day of "Measurement Period"

```
            )
          or exists ( ["Encounter, Performed": "Hospice Encounter"] HospiceEncounter
                where HospiceEncounter.relevantPeriod overlaps day of "Measurement Period"
            )
          or exists ( ["Assessment, Performed": "Hospice care [Minimum Data Set]"] HospiceAssessment
                where HospiceAssessment.result ~ "Yes (qualifier value)"
                  and Global."NormalizeInterval" ( HospiceAssessment.relevantDatetime, HospiceAssessment.relevantPeriod ) overlaps day of "Measurement Period"
            )
          or exists ( ["Intervention, Order": "Hospice Care Ambulatory"] HospiceOrder
                where HospiceOrder.authorDatetime during day of "Measurement Period"
            )
          or exists ( ["Intervention, Performed": "Hospice Care Ambulatory"] HospicePerformed
                where Global."NormalizeInterval" ( HospicePerformed.relevantDatetime, HospicePerformed.relevantPeriod ) overlaps day of "Measurement Period"
            )
        or exists ( ["Diagnosis": "Hospice Diagnosis"] HospiceCareDiagnosis
                where HospiceCareDiagnosis.prevalencePeriod overlaps day of "Measurement Period"
            )
```

◢ HPV Test Within 5 Years for Women Age 30 and Older

```
        ["Laboratory Test, Performed": "HPV Test"] HPVTest
          where AgeInYearsAt(date from Global."LatestOf"(HPVTest.relevantDatetime, HPVTest.relevantPeriod)) >= 30
            and Global."LatestOf" ( HPVTest.relevantDatetime, HPVTest.relevantPeriod ) during day of Interval[start of "Measurement Period" - 4 years, end of "Measurement
        Period"]
            and HPVTest.result is not null
```

◢ Initial Population

```
        AgeInYearsAt(date from
          end of "Measurement Period"
        ) in Interval[24, 64]
          and exists ( ["Patient Characteristic Sex": "Female"] )
          and exists "Qualifying Encounters"
```

◢ Numerator

```
        exists "Cervical Cytology Within 3 Years"
          or exists "HPV Test Within 5 Years for Women Age 30 and Older"
```

◢ PalliativeCare.Has Palliative Care in the Measurement Period

```
        exists ( ["Assessment, Performed": "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)"] PalliativeAssessment
            where Global."NormalizeInterval" ( PalliativeAssessment.relevantDatetime, PalliativeAssessment.relevantPeriod ) overlaps day of "Measurement Period"
          )
          or exists ( ["Diagnosis": "Palliative Care Diagnosis"] PalliativeDiagnosis
                where PalliativeDiagnosis.prevalencePeriod overlaps day of "Measurement Period"
          )
          or exists ( ["Encounter, Performed": "Palliative Care Encounter"] PalliativeEncounter
                where PalliativeEncounter.relevantPeriod overlaps day of "Measurement Period"
          )
          or exists ( ["Intervention, Performed": "Palliative Care Intervention"] PalliativeIntervention
                where Global."NormalizeInterval" ( PalliativeIntervention.relevantDatetime, PalliativeIntervention.relevantPeriod ) overlaps day 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"]
          union ["Encounter, Performed": "Telephone Visits"]
```

```
        union ["Encounter, Performed": "Virtual Encounter"] ) ValidEncounters
        where ValidEncounters.relevantPeriod during day of "Measurement Period"
```

◢ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

◢ SDE Payer

["Patient Characteristic Payer": "Payer Type"]

◢ SDE Race

["Patient Characteristic Race": "Race"]

◢ SDE Sex

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

Functions

◢ Global.HasEnd(period Interval<DateTime>)

```
not (
  end of period is null
    or
    end of period = maximum DateTime
)
```

◢ Global.Latest(period Interval<DateTime>)

```
if ( HasEnd(period)) then
end of period
  else start of period
```

◢ Global.LatestOf(pointInTime DateTime, period Interval<DateTime>)

Latest(NormalizeInterval(pointInTime, period))

◢ 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>
```

Terminology

- code "Discharge to healthcare facility for hospice care (procedure)" ("SNOMEDCT Code (428371000124100)")
- code "Discharge to home for hospice care (procedure)" ("SNOMEDCT Code (428361000124107)")
- code "Female" ("AdministrativeGender Code (F)")
- code "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)" ("LOINC Code (71007-9)")
- code "Hospice care [Minimum Data Set]" ("LOINC Code (45755-6)")
- code "Yes (qualifier value)" ("SNOMEDCT Code (373066001)")
- valueset "Congenital or Acquired Absence of Cervix" (2.16.840.1.113883.3.464.1003.111.12.1016)
- valueset "Encounter Inpatient" (2.16.840.1.113883.3.666.5.307)
- valueset "Ethnicity" (2.16.840.1.114222.4.11.837)
- valueset "Home Healthcare Services" (2.16.840.1.113883.3.464.1003.101.12.1016)

- valueset "Hospice Care Ambulatory" (2.16.840.1.113883.3.526.3.1584)
- valueset "Hospice Diagnosis" (2.16.840.1.113883.3.464.1003.1165)
- valueset "Hospice Encounter" (2.16.840.1.113883.3.464.1003.1003)
- valueset "HPV Test" (2.16.840.1.113883.3.464.1003.110.12.1059)
- valueset "Hysterectomy with No Residual Cervix" (2.16.840.1.113883.3.464.1003.198.12.1014)
- valueset "Office Visit" (2.16.840.1.113883.3.464.1003.101.12.1001)
- valueset "ONC Administrative Sex" (2.16.840.1.113762.1.4.1)
- valueset "Palliative Care Diagnosis" (2.16.840.1.113883.3.464.1003.1167)
- valueset "Palliative Care Encounter" (2.16.840.1.113883.3.464.1003.101.12.1090)
- valueset "Palliative Care Intervention" (2.16.840.1.113883.3.464.1003.198.12.1135)
- valueset "Pap Test" (2.16.840.1.113883.3.464.1003.108.12.1017)
- valueset "Payer Type" (2.16.840.1.114222.4.11.3591)
- valueset "Preventive Care Services Established Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1025)
- valueset "Preventive Care Services Initial Office Visit, 18 and Up" (2.16.840.1.113883.3.464.1003.101.12.1023)
- valueset "Race" (2.16.840.1.114222.4.11.836)
- valueset "Telephone Visits" (2.16.840.1.113883.3.464.1003.101.12.1080)
- valueset "Virtual Encounter" (2.16.840.1.113883.3.464.1003.101.12.1089)

Data Criteria (QDM Data Elements)

- "Assessment, Performed: Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal)" using "Functional Assessment of Chronic Illness Therapy - Palliative Care Questionnaire (FACIT-Pal) (LOINC Code 71007-9)"
- "Assessment, Performed: Hospice care [Minimum Data Set]" using "Hospice care [Minimum Data Set] (LOINC Code 45755-6)"
- "Diagnosis: Congenital or Acquired Absence of Cervix" using "Congenital or Acquired Absence of Cervix (2.16.840.1.113883.3.464.1003.111.12.1016)"
- "Diagnosis: Hospice Diagnosis" using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"
- "Diagnosis: Palliative Care Diagnosis" using "Palliative Care Diagnosis (2.16.840.1.113883.3.464.1003.1167)"
- "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: Hospice Encounter" using "Hospice Encounter (2.16.840.1.113883.3.464.1003.1003)"
- "Encounter, Performed: Office Visit" using "Office Visit (2.16.840.1.113883.3.464.1003.101.12.1001)"
- "Encounter, Performed: Palliative Care Encounter" using "Palliative Care Encounter (2.16.840.1.113883.3.464.1003.101.12.1090)"
- "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: Telephone Visits" using "Telephone Visits (2.16.840.1.113883.3.464.1003.101.12.1080)"
- "Encounter, Performed: Virtual Encounter" using "Virtual Encounter (2.16.840.1.113883.3.464.1003.101.12.1089)"
- "Intervention, Order: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
- "Intervention, Performed: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
- "Intervention, Performed: Palliative Care Intervention" using "Palliative Care Intervention (2.16.840.1.113883.3.464.1003.198.12.1135)"
- "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 Type" using "Payer Type (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 (AdministrativeGender Code F)"
- "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)"

Supplemental Data Elements

◢ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

◢ SDE Payer

["Patient Characteristic Payer": "Payer Type"]

◢ SDE Race

["Patient Characteristic Race": "Race"]

◢ SDE Sex

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

Risk Adjustment Variables

None

Measure Set	None