

eCQM Title	Children Who Have Dental Decay or Cavities		
eCQM Identifier (Measure Authoring Tool)	75	eCQM Version number	7.2.000
NQF Number	Not Applicable	GUID	61947125-4376-4a7b-ab7a-ac2be9bd9138
Measurement Period	January 1, 20XX through December 31, 20XX		
Measure Steward	Centers for Medicare & Medicaid Services (CMS)		
Measure Developer	National Committee for Quality Assurance		
Endorsed By	None		
Description	Percentage of children, age 0-20 years, who have had tooth decay or cavities during the measurement period		
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Measure Scoring	Proportion		
Measure Type	Outcome		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	Dental cavities have been identified as the most common chronic disease for children. Data from the National Health and Nutrition Examination Survey from 2011-2012 showed that approximately 23% of children aged 2-5 years had dental caries in primary teeth. Untreated tooth decay in primary teeth among children aged 2-8 was twice as high for Hispanic and non-Hispanic black children compared with non-Hispanic white children. Among those aged 6-11, 27% of Hispanic children had any dental caries in permanent teeth compared with nearly 18% of non-Hispanic white and Asian children. About three in five adolescents aged 12-19 had experienced dental caries in permanent teeth, and 15% had untreated tooth decay.		
Clinical Recommendation Statement	Children who have dental decay or cavities are less likely to be in very good or excellent overall health than children without decay or cavities. Children with decay are also more likely to have other oral health problems such as toothaches, broken teeth, and bleeding gums.		
Improvement Notation	A lower score indicates better quality		
Reference	Child and Adolescent Health Measurement Initiative. 2007 National Survey of Children's Health, Data Resource Center for Child Adolescent Health website. www.nschdata.org		
Reference	Edelstein BL, Chinn CH. Update on disparities in oral health and access to dental care for America's children. Acad Pediatr. 2009;9(6):415-419.		
Reference	Milgrom P, Zero DT, Tanzer JM. An examination of the advances in science and technology of prevention of tooth decay in young children since the Surgeon General's Report on Oral Health. Acad Pediatr. 2009;9(6):404-409.		
Reference	Dye BA, Thornton-Evans G, Li X, Iafolla TJ. Dental caries and sealant prevalence in children and adolescents in the United States, 2011-2012. NCHS data brief, no 191. Hyattsville, MD: National Center for Health Statistics. 2015.		
Definition	None		
Guidance	None		
Transmission Format	TBD		
Initial Population	Children, age 0-20 years, with a visit during the measurement period		
Denominator	Equals Initial Population		
Denominator Exclusions	Exclude patients whose hospice care overlaps the measurement period		
Numerator	Children who had cavities or decayed teeth		
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")< 20
and exists ("Qualifying Encounters")

Denominator

"Initial Population"

Denominator Exclusions

Hospice."Has Hospice"

Numerator

exists (["Diagnosis": "Dental Caries"] DentalCaries
where DentalCaries.prevalencePeriod overlaps "Measurement Period"
)

▲ Numerator Exclusions

None

▲ Denominator Exceptions

None

▲ Stratification

None

Definitions**▲ Denominator**

"Initial Population"

▲ Denominator Exclusions

Hospice."Has Hospice"

▲ 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") < 20
  and exists ( "Qualifying Encounters" )
```

▲ Numerator

```
exists ( ["Diagnosis": "Dental Caries"] DentalCaries
  where DentalCaries.prevalencePeriod overlaps "Measurement Period"
)
```

▲ Qualifying Encounters

```
( ["Encounter, Performed": "Office Visit"]
  union ["Encounter, Performed": "Preventive Care - Established Office Visit, 0 to 17"]
  union ["Encounter, Performed": "Preventive Care - Initial Office Visit, 0 to 17"]
  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": "Clinical Oral Evaluation"] ) 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"]

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 "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 "Clinical Oral Evaluation" using "2.16.840.1.113883.3.464.1003.125.12.1003"
- valueset "Dental Caries" using "2.16.840.1.113883.3.464.1003.125.12.1004"
- 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 "Hospice care ambulatory" using "2.16.840.1.113762.1.4.1108.15"
- 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 "Payer" using "2.16.840.1.114222.4.11.3591"
- 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 "Race" using "2.16.840.1.114222.4.11.836"

Data Criteria (QDM Data Elements)

- "Diagnosis: Dental Caries" using "Dental Caries (2.16.840.1.113883.3.464.1003.125.12.1004)"
- "Encounter, Performed: Clinical Oral Evaluation" using "Clinical Oral Evaluation (2.16.840.1.113883.3.464.1003.125.12.1003)"
- "Encounter, Performed: Encounter Inpatient" using "Encounter Inpatient (2.16.840.1.113883.3.666.5.307)"
- "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)"
- "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: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)"

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	Not applicable
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