

eCQM Title	Children Who Have Dental Decay or Cavities		
eCQM Identifier (Measure Authoring Tool)	75	eCQM Version Number	13.0.000
CBE 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, 1-20 years of age at the start of the measurement period, who have had dental decay or cavities during the measurement period as determined by a dentist		
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Measure Scoring	Proportion		
Measure Type	Outcome		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	Dental caries is the most chronic disease among youth aged 6-19 years. Data from the National Health and Nutrition Examination Survey from 2015-2016 showed that approximately 45.8 percent of children and youth aged 2-19 years had total caries (untreated and treated). Prevalence of total dental caries (untreated and treated) in primary or permanent teeth increases with age, going from 21.4 percent, 50.5 percent, and 53.8 percent among ages 2-5, 6-11, and 12-19, respectively. Total dental caries was highest in Hispanic youths aged 2-19 at 57.1 percent compared to 48.1 percent for non-Hispanic black, 44.6 percent for non-Asian, and 40.4 percent for non-Hispanic white youth. Monitoring prevalence of untreated and total caries is vital to preventing and controlling oral disease (Fleming & Afful, 2018). 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 (Edelstein & Chinn, 2009). Children with decay are also more likely to have other oral health problems such as toothaches, broken teeth, and bleeding gums (Data Resource Center for Child and Adolescent Health, 2007).		
Clinical Recommendation Statement	The American Academy of Pediatric Dentistry (AAPD) provides clinical recommendations for pediatric oral health assessments and preventative services (AAPD, 2023). The recommendation states that the first clinical oral examination should occur around 12 months of age. The clinical oral exam should be repeated every 6 months or as indicated by the child's risk status or susceptibility to disease. Further, caries risk assessment must be repeated regularly and frequently to maximize effectiveness.		
Improvement Notation	A lower score indicates better quality		
Reference	Reference Type: CITATION Reference Text: 'American Academy of Pediatric Dentistry. (2022). Periodicity of examination, preventive dental services, anticipatory guidance/ counseling, and oral treatment for infants, children, and adolescents. The Reference Manual of Pediatric Dentistry, 2023:288-300.'		
Reference	Reference Type: CITATION Reference Text: 'Data Resource Center for Child and Adolescent Health, Child and Adolescent Health Measurement Initiative. (2007). 2007 National Survey of Children's Health. Baltimore, MD: Author.'		
Reference	Reference Type: CITATION Reference Text: 'Edelstein, B. L., & Chinn, C. H. (2009). Update on Disparities in Oral Health and Access to Dental Care for America's Children. Academic Pediatrics, 9(6), 415-419.'		
Reference	Reference Type: CITATION Reference Text: 'Fleming, E., & Afful, J. (2018). Prevalence of Total and Untreated Dental Caries Among Youth: United States, 2015-2016. NCHS Data Brief No. 307. Hyattsville, MD: National Center for Health Statistics.'		
Definition	None		
Guidance	This eCQM is a patient-based measure. Telehealth encounters are not eligible for this measure because the measure does not contain telehealth-eligible codes and requires a clinical action that cannot be conducted via telehealth. 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	Children, 1-20 years of age at the start of the measurement period, with a clinical oral evaluation by a dentist during the measurement period		
Denominator	Equals Initial Population		
Denominator Exclusions	Exclude patients who are in hospice care for any part of the measurement period		
Numerator	Children who had a diagnosis of cavities or decayed teeth in any part of 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		

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Population Criteria

Initial Population

AgeInYearsAt(date from start of "Measurement Period") in Interval[1, 20] and exists ("Qualifying Encounters")

Denominator

"Initial Population"

Denominator Exclusions

Hospice."Has Hospice Services"

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 Services"

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")

Initial Population

AgeInYearsAt(date from start of "Measurement Period") in Interval[1, 20] and exists ("Qualifying Encounters")

Numerator

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

Qualifying Encounters

["Encounter, Performed": "Clinical Oral Evaluation"] ValidEncounter where ValidEncounter.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.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 "Hospice care [Minimum Data Set]" ("LOINC Code (45755-6)")
- code "Yes (qualifier value)" ("SNOMEDCT Code (373066001)")
- valueset "Clinical Oral Evaluation" (2.16.840.1.113883.3.464.1003.125.12.1003)
- valueset "Dental Caries" (2.16.840.1.113883.3.464.1003.125.12.1004)
- valueset "Encounter Inpatient" (2.16.840.1.113883.3.666.5.307)
- valueset "Ethnicity" (2.16.840.1.114222.4.11.837)
- 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 "Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
- valueset "Intervention, Performed: Hospice Care Ambulatory" using "Hospice Care Ambulatory (2.16.840.1.113883.3.526.3.1584)"
- "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: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)"

Data Criteria (QDM Data Elements)

- "Assessment, Performed: Hospice care [Minimum Data Set]" using "Hospice care [Minimum Data Set] (LOINC Code 45755-6)"
- "Diagnosis: Dental Caries" using "Dental Caries (2.16.840.1.113883.3.464.1003.125.12.1004)"
- "Diagnosis: Hospice Diagnosis" using "Hospice Diagnosis (2.16.840.1.113883.3.464.1003.1165)"
- "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: Hospice Encounter" using "Hospice Encounter (2.16.840.1.113883.3.464.1003.1003)"
- "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)"
- "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: 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 Type"]

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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