

eCQM Title	Primary Caries Prevention Intervention as Offered by Primary Care Providers, including Dentists		
eCQM Identifier (Measure Authoring Tool)	74	eCQM Version number	8.2.000
NQF Number	Not Applicable	GUID	0b81b6ba-3b30-41bf-a2f3-95bdc9f558f2
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 received a fluoride varnish application during the measurement period		
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Measure Scoring	Proportion		
Measure Type	Process		
Stratification	Population 1: age 0-5 Population 2: age 6-12 Population 3: age 13-20		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	The literature reflects that fluoride varnish when applied to the teeth of high-risk children, reduces, in conjunction with anticipatory guidance provided to the caregiver, the risk of the child developing caries		
Clinical Recommendation Statement	ADA Clinical recommendations for use of professionally applied or prescription-strength: - Younger Than 6 Years - 2.26 percent fluoride varnish at least every three to six months - 6-18 Years - 2.26 percent fluoride varnish at least every three to six Months OR 1.23 percent fluoride (APF*) gel for four minutes at least every three to six months - Older Than 18 Years - 2.26 percent fluoride varnish at least every three to six months OR 1.23 percent fluoride (APF) gel for four minutes at least every three to six months		
Improvement Notation	A higher score indicates better quality		
Reference	JA. Wentraub, F. Ramos-Gomez, B. Jue, S. Shain, CI. Hoover, JDB. Featherstone, and SA. Gansky. Fluoride Varnish Efficacy in Prevention ECC. J Dent Res 85(2): 172-176, 2006.		
Reference	Weyant RJ, Tracy SL, Anselmo TT, Beltran-Aguilar ED, Donly KJ, Frese WA, Hujuel PP, Iafolla T, Kohn W, Kumar J, Levy SM, Tinanoff N, Wright JT, Zero D, Aravamudhan K, Frantsve-Hawley J, Meyer DM. American Dental Association Council on Scientific Affairs Expert Panel on Topical Fluoride Caries Preventive Agents. Topical fluoride for caries prevention: executive summary of the updated clinical recommendations and supporting systematic review. J Am Dent Assoc. 2013;144:1279-1291. doi: 10.14219/jada.archive.2013.0057.		
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 receive a fluoride varnish application		
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 ["Procedure, Performed": "Fluoride Varnish Application for Children"] FluorideApplication  
 where FluorideApplication.relevantPeriod during "Measurement Period"

**▲ Numerator Exclusions**

None

**▲ Denominator Exclusions**

None

**▲ Stratification 1**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 4

**▲ Stratification 2**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 5  
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 11

**▲ Stratification 3**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 12  
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 20

**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 ["Procedure, Performed": "Fluoride Varnish Application for Children"] FluorideApplication  
 where FluorideApplication.relevantPeriod during "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"]

**▲ Stratification 1**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 4

**▲ Stratification 2**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 5  
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")<= 11

**▲ Stratification 3**

exists ["Patient Characteristic Birthdate"] BirthDate  
 where Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")>= 12  
 and Global."CalendarAgeInYearsAt"(BirthDate.birthDatetime, start of "Measurement Period")< 20

**Functions****▲ Global.CalendarAgeInYearsAt(BirthDate Time DateTime, AsOf DateTime)**

years between ToDate(BirthDate Time) 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 "Encounter Inpatient" using "2.16.840.1.113883.3.666.5.307"
- valueset "Ethnicity" using "2.16.840.1.114222.4.11.837"
- valueset "Fluoride Varnish Application for Children" using "2.16.840.1.113883.3.464.1003.125.12.1002"
- 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)**

- "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)"
- "Procedure, Performed: Fluoride Varnish Application for Children" using "Fluoride Varnish Application for Children (2.16.840.1.113883.3.464.1003.125.12.1002)"

**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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