Please read the DQA Measures User Guide prior to implementing this measure.

DQA Measure Technical Specifications: Administrative Claims-Based Measures

Preventive Services for Children at Elevated Caries Risk, Dental or Oral Health

Services

"Dental" OR "Oral Health" Services

Description: Percentage of children who are at "elevated" risk (i.e., "moderate" or "high") who received a topical fluoride application and/or sealants as a dental or oral health service within the reporting year **Numerator:** Unduplicated number of children at "elevated" risk (i.e., "moderate" or "high") who received a topical fluoride application and/or sealants as a dental or oral health service **Denominator:** Unduplicated number of children at "elevated" risk (i.e., "moderate" or "high") **Rate:** NUM/DEN

Rationale: Dental caries is the most common chronic disease in children in the United States (1). For 2015–2016, prevalence of total caries (untreated and treated) was 45.8% and untreated caries was 13.0% among youth aged 2–19 years (2). Identifying caries early is important to reverse the disease process, prevent progression of caries, and reduce incidence of future lesions. Approximately three quarters of children younger than age 6 years did not have at least one visit to a dentist in the previous year (3). Evidence-based Clinical Recommendations recommend that sealants should be placed on pits and fissures of children's primary and permanent teeth (4) and topical fluoride should be applied at least every three to six months in children at elevated risk for caries (5).

Rationale for "Dental or Oral Health" Services Specification:

Apart from routine quality reporting, researchers and policy makers may wish to seek additional information regarding whether certain services were provided to a population. In such cases a "dental OR oral health" specification of the measure may be applicable. The "dental OR oral health" measure is **NOT** a sum of the "dental" and "oral health" Preventive Services measures but represents the unduplicated count of children who received topical fluoride or sealants as a dental or oral health service. The DQA Measures User Guide provides additional information on categorization of "dental" and "oral health" services.

Note: Not all state Medicaid programs reimburse for "oral health" services up to age 21. Age stratifications may be used when interpreting this measure.

- (1) Centers for Disease Control and Prevention. Hygiene-related diseases: dental caries. Updated September 22, 2016 Available at: <u>http://www.cdc.gov/healthywater/hygiene/disease/dental_caries.html</u>. Accessed April 2nd, 2019.
- (2) Fleming E, Afful J. 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. 2018.
- (3) Edelstein BL, Chinn CH. Update on disparities in oral health and access to dental care for America's children. Acad Pediatr. 2009;9(6):415-9. PMID: 19945076
- (4) J.T. Wright, J.J. Crall, M. Fontana, E.J. Gillette, B.B. Nový, V. Dhar, K. Donly, E.R. Hewlett, R.B. Quinonez, J. Chaffin, M. Crespin, T. Iafolla, M.D. Siegal, M.P. Tampi, L. Graham, C. Estrich, A. Carrasco-Labra
- (5) Evidence-based clinical practice guideline for the use of pit-and-fissure sealants: a report of the American Dental Association and the American Academy of Pediatric Dentistry J. Am. Dent. Assoc., 147 (2016), pp. 672-682e12
- (6) Weyant RJ, Tracy SL, Anselmo TT, Beltrán-Aguilar ED, et al; 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 Nov;144(11):1279-91.



AHRQ Domain: Use of Services¹

IOM Aim: Equity, Effectiveness

Level of Aggregation: Health Plan/Program

Improvement Noted As: This measure should be interpreted in conjunction with the DQA measures: (1) Preventive Services for Children at Elevated Caries Risk, Dental Services and (2) Preventive Services for Children at Elevated Caries Risk, Oral Health Services. In general, a higher percentage of children at elevated risk for dental caries who receive topical fluoride or sealants during the reporting year indicates better performance. Contextual information relating to the overall health status of the population is also useful in interpreting measure scores. The measures can also be very useful longitudinally to monitor change over time for a particular program or plan.

Data Required: Administrative enrollment and claims data; single year for measurement (prior 3 years needed for risk determination). When using claims data to determine service receipt, include both paid and unpaid claims (including pending, suspended, and denied claims).

Measure purpose: Examples of questions that can be answered through this measure at each level of aggregation:

- 1. Among those enrolled, how many received preventive services as a dental or oral health service?
- 2. Over time, is the percentage of children who receive preventive services as a dental or oral health service stable, increasing, or decreasing?

Applicable Stratification Variables (Optional: Contact Program Official to determine reporting requirement)

- 1. Age (e.g., <1; 1-2; 3-5; 6-7; 8-9; 10-11; 12-14; 15-18; 19-20)
- 2. Payer Type (e.g., Medicaid; CHIP; private commercial benefit programs)
- 3. Program/Plan Type (e.g., traditional FFS; PPO; prepaid dental/DHMO)
- 4. Geographic Location (e.g., rural; suburban; urban)
- 5. Race
- 6. Ethnicity
- 7. Socioeconomic Status (e.g., premium or income category)

Measure Limitations:

- CDT codes do not distinguish between fluoride gel and fluoride foam. This measure assumes that all modes of topical fluoride application are equally effective
- This measure does not take into account alternate home-use fluoride products including supplements.
- This measure will not delineate those whose teeth have not erupted, those who already received sealants in prior years, and those with decayed/filled teeth not candidates for sealants.
- Some codes (i.e., a few endodontic codes) are included to identify children at elevated risk may also be reported for instances such as trauma and may contribute to some overestimation of children at "elevated risk."

¹ Use of Services (Related Healthcare Delivery Measure): "Use of services is the provision of a service to, on behalf of, or by a group of persons identified by enrollment in a health plan or through use of clinical services. Use of service measures can assess encounters, tests, or interventions that are not supported by evidence for the appropriateness of the service for the specified individuals. National Quality Measures Clearinghouse." Available at: http://www.qualitymeasures.ahrq.gov/about/domain-definitions.aspx. Accessed August 10, 2015.

²⁰²¹ American Dental Association on behalf of the Dental Quality Alliance (DQA) ©. All rights reserved.



 Since the "elevated risk" determination requires an evaluation (to record CDT risk code) or treatment visit (to record a CDT treatment code), children who are enrolled but do not have a visit in the reporting year or a treatment visit in any of the prior three years will not have sufficient information to be included in the measure. While this is a limitation, the intent of this measure is to seek to understand whether children who can be positively identified as being at elevated risk receive the recommended preventive services.

Preventive Services (Dental or Oral Health Services) Calculation for Children at Elevated Caries Risk

- 1. Check if the subject meets age criterion² at the last day of the reporting year:³
 - a. If age criterion is met, then proceed to next step.
 - b. If age criterion is not met or there are missing or invalid field codes (e.g., birth date), then STOP processing. This subject does not get counted.
- 2. Check if subject is continuously enrolled for at least 180 days during the reporting year:⁴
 - a. If subject meets continuous enrollment criterion, then proceed to next step.
 - b. If subject does not meet enrollment criterion, then STOP processing. This subject does not get counted.

YOU NOW HAVE THE COUNT OF THOSE WHO MEET THE AGE AND ENROLLMENT CRITERIA

- 3. Check if subject is at "elevated risk":
 - a. If subject meets <u>ANY</u> of the following criteria, then include in denominator:
 - i. the subject has a CDT Code among those in Table 1 in the reporting year, OR
 - ii. the subject has a CDT Code among those in Table 1 in any of the three years prior to the reporting year, (NOTE: The subject does <u>not</u> need to be enrolled in any of the prior three years for the denominator enrollment criteria; this is a "look back" for subect who do have claims experience in any of the prior three years.) OR
 - iii. the subject has a visit with a CDT code = (D0602 or D0603) in the reporting year.
 - b. If the subject does not meet any of the above criteria for elevated risk, then STOP processing. This subject will not be included in the measure denominator.

YOU NOW HAVE THE DENOMINATOR: Subjects who are at "elevated risk"

4. Check if subject received topical fluoride or a sealant as a **dental or oral health service** during the reporting year:

² Age: Medicaid/ CHIP programs use under age 21 (<21); Exchange quality reporting use under age 19 (<19); other programs check with program officials. This criterion should be reported with the measurement score.

³ Medicaid/CHIP programs should exclude those individuals who do not qualify for dental benefits. The exclusion criteria should be reported along with the number and percentage of members excluded.

⁴ Enrollment in "same" plan vs. "any" plan: At the state program level (e.g., Medicaid/CHIP) a criterion of "any" plan applies versus at the health plan (e.g., MCO) level a criterion of "same" plan applies. The criterion used should be reported with the measure score. While this prevents direct aggregation of results from plan to program, each entity is given due credit for the population it serves. Thus, states with multiple MCOs should not merely "add up" the plan level scores but should calculate the state score from their database to allow inclusion of individuals who may be continuously enrolled but might have switched plans in the interim.



- a. If [SERVICE CODE] = D1206 or D12085 or D1351, AND
- b. If [RENDERING PROVIDER TAXONOMY] code is *any* valid NUCC maintained Provider Taxonomy Code,⁶ then include in numerator; STOP processing.
- c. If both a AND b are not met, then the service was not a "dental or oral health" service; STOP processing. This subject is already included in the denominator but will not be included in the numerator.

Note 1: Some states may use codes other than CDT codes to reimburse for fluoride.⁷ These codes should be included in the [SERVICE CODE] codes in addition to D1206 and D1208. **Note 2:** In this step, all **claims** with missing or invalid SERVICE CODE or with missing or invalid NUCC maintained Provider Taxonomy Codes should be excluded.

YOU NOW HAVE NUMERATOR (NUM) COUNT: Subjects at "elevated risk" who received a preventive service as a dental or oral health service

- 5. Report
 - a. Unduplicated count of subjects in numerator
 - b. Unduplicated count of subjects in denominator
 - c. Measure rate (NUM/DEN)

	10		elevated lisk	L		
D1352	D2392	D2610	D2710	D2782	D2940	D3330
D1354	D2393	D2620	D2712	D2783	D2941	
D2140	D2394	D2630	D2720	D2790	D2950	
D2150	D2410	D2642	D2721	D2791	D3110	
D2160	D2420	D2643	D2722	D2792	D3120	
D2161	D2430	D2644	D2740	D2794	D3220	
D2330	D2510	D2650	D2750	D2799	D3221	
D2331	D2520	D2651	D2751	D2930	D3222	
D2332	D2530	D2652	D2752	D2931	D3230	
D2335	D2542	D2662	D2753	D2932	D3240	
D2390	D2543	D2663	D2780	D2933	D3310	
D2391	D2544	D2664	D2781	D2934	D3320	
DEOTI	DZUTT	02001	DETOI	02701	00020	

Table 1: CDT Codes to identify "elevated risk"

*** Note: Reliability of the measure score depends on the quality of the data that are used to calculate the measure. The percentages of missing and invalid data for these data elements must be investigated prior to measurement. Data elements with high rates of missing or invalid data will adversely affect the subsequent counts that are recorded. For

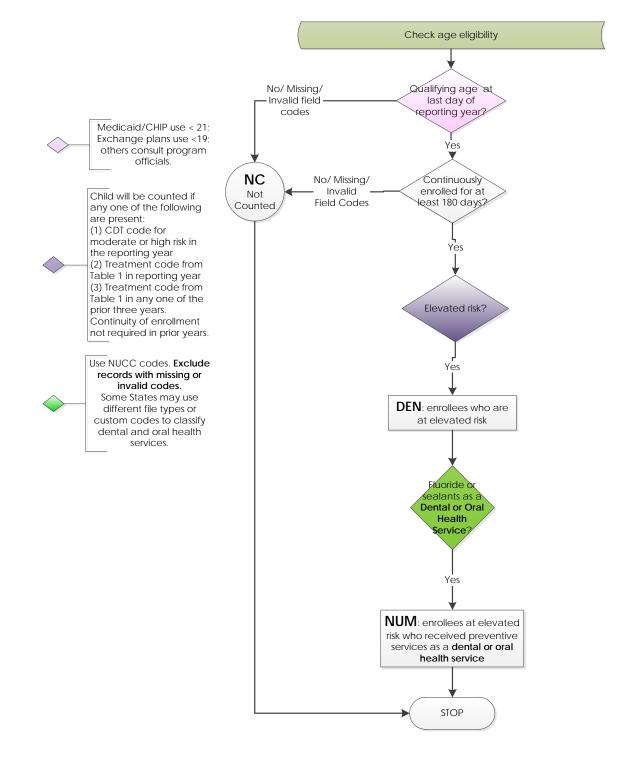
⁵ Topical Fluoride codes: For reporting years prior to 2013, use D1203 or D1204 or D1206.

⁶ **Identifying "dental" or "oral health" services**: Programs and plans that do not use standard NUCC maintained provider taxonomy codes should use a valid mapping to identify providers whose services would be categorized as "dental" or "oral health" services. ⁷ **Services provided by medical providers**: In some instances, CPT codes are used for reimbursement of oral health services e.g., medical primary care providers providers providing oral evaluation, risk assessment, anticipatory guidance or fluoride varnish. Details available at <u>AAP Table</u> For such states these additional codes must be considered.

DQA Measure PRV-CH-A(D/OH), Dental or Oral Health Services Effective January 1, 2021



example, records with missing or invalid SERVICE CODE to identify topical fluoride or sealants may be counted in the denominator but not in the numerator. These records are assumed to not have had a qualifying service. In this case, a low quality data set will result in a measure score that will not be reliable.***



DQA Measure PRV-CH-A(D/OH), Dental or Oral Health Services Effective January 1, 2021



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