

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

DQA Measure Specifications: Administrative Claims-Based Measures

Ambulatory Care Sensitive Emergency Department Visits for Non-Traumatic Dental Conditions in Adults

Description: Number of emergency department (ED) visits for ambulatory care sensitive non-traumatic dental conditions per 100,000 member months for adults

Numerator: Number of ED visits with an ambulatory care sensitive non-traumatic dental condition diagnosis code among individuals 18 years and older

Denominator: All member months for individuals 18 years and older during the reporting year

Rate: (NUM/DEN)x100,000

Rationale: The use of emergency departments (EDs) for non-traumatic dental conditions has been a growing public health concern across the United States (US)^{1,2,3,4,5,6,7,8} with over 2 million visits occurring in 2015.⁹ The majority of ED visits are semi-urgent (53.8%) or non-urgent (23.9%)¹⁰, which can be better managed in an ambulatory care setting. Dental care in an ED setting is not definitive with limited care continuity that ultimately leads to poor oral health outcomes.^{11,12,13}

References:

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National Quality Forum Domain: Access¹

Institute of Medicine Aim: Equity, Safety, Timeliness

National Quality Strategy Priority: Health and Wellbeing

Level of Aggregation: Program (*NOTE: This measure only applies to programs such as Medicaid that provide both medical insurance and dental benefits. Use of this measure as a requirement for stand-alone dental benefit plans will result in feasibility issues due to lack of access to appropriate data. Use by health plans that provide both medical insurance and dental benefits to a population may be considered after assessment of data element feasibility within the plans' databases).*

Improvement Noted As: A lower rate indicates better quality.

Data Required: Administrative enrollment and claims data (medical); single year. When using claims data to determine service receipt, include only paid claims.

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

1. What is the rate of emergency department visits for ambulatory care sensitive non-traumatic dental conditions in the enrolled population during the reporting period?
2. Over time, does the rate of emergency department visits by adults for ambulatory care sensitive non-traumatic dental conditions stay stable, increase, or decrease?

This measure is designed to measure access to care by evaluating the rate of non-traumatic dental related emergency department visits. This measure is not to be interpreted as a measure of resource utilization.

Applicable Stratification Variables

1. Age: 18, 19-20, 21-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75-84, 85 and above

Ambulatory Care Sensitive Emergency Department Visits for Non-Traumatic Dental Conditions Calculation

1. Calculate total eligible member months as the sum of all member months for enrollees aged **18 years and older** as of the 15th or 30th day of the month as appropriate for when eligibility determinations are made. Either the 15th or the 30th should be selected and used consistently across all member months during the reporting year.

Note: Exclude all member months (and associated claims in those months) in which an individual was eligible for both Medicare and Medicaid (i.e., "dual eligible").

Reporting notes for age stratifications:

Access measures "assess the ability to obtain needed healthcare services in a timely manner, including the perceptions and experiences of people regarding their ease of reaching health services or health facilities in terms of proximity, location, time, and ease of approach. Examples may include, but are not limited to, measures that address the timeliness of response or services, time until next available appointment, and availability of services within a community." National Quality Forum. "NQF Glossary." Available at: http://www.qualityforum.org/Measuring_Performance/Measuring_Performance.aspx. Accessed May 23, 2019.

- Member months will be attributed to each age stratum based on the member's age as of the 15th or 30th day of the month. Either the 15th or the 30th should be selected and used consistently across all member months during the reporting year.
- One member can contribute member months to more than one age stratum.

YOU NOW HAVE DENOMINATOR (DEN) COUNT: Total member months

2. Identify all emergency department visits for ambulatory care sensitive non-traumatic dental conditions occurring during eligible member months within the reporting year:
 - a. Identify a health care encounter as an ED visit if ANY of the following are met:
 - CPT codes 99281-99285 (ED visit for patient evaluation/management); **OR**
 - Revenue codes 0450-0459 (Emergency Room) or 0981 (professional fees for ER services); **OR**
 - CMS place of service code for professional claims - 23 (Emergency Room)
 - b. Member must be ≥ 18 years on date of visit
 - c. Identify an ED visit as being for an ambulatory care sensitive non-traumatic dental condition if:
 - i. any of the ICD-9-CM/ICD-10-CM diagnosis codes in Table 1 is listed as a FIRST-LISTED diagnosis code associated with the visit

OR

 - ii. (a) any of the ICD-9-CM/ICD-10-CM diagnosis codes in Table 2 is listed as a FIRST-LISTED diagnosis AND (b) any of the ICD-9-CM/ ICD-10-CM diagnosis codes in Table 1 is listed as an ADDITIONAL LISTED diagnosis. (Codes from Table 2 must be accompanied by a code from Table 1 to qualify.)
 - d. Count only one visit per member per day.
 - e. Sum the number of ED visits for ambulatory care sensitive non-traumatic dental conditions.

Reporting note for age stratifications: Numerator cases are stratified based on age on date of ED visit.

3. Exclude all visits resulting in an inpatient admission:
 - a. Identify an ambulatory care sensitive non-traumatic dental condition ED visit as resulting in an inpatient admission if:
 - (i) the patient has an inpatient admission defined by UB Type of Bill = 11x OR 12x OR 41x

AND

 - (ii) that admission occurred within 48 hours:
$$[\text{inpatient admit date}] - [\text{ED admit date}] \geq 0 \text{ days AND } \leq 2 \text{ days}$$

- b. If an ED visit for ambulatory care sensitive non-traumatic dental condition resulted in an inpatient admission, then EXCLUDE this visit. The visit will not be counted.

Note: If there are 2 or more dental ED visits that occurred within 2 days of the same inpatient admission, **only one** of those ED visits should be counted as resulting in an inpatient admission. [Example: If there is one dental-related ED visit on Saturday and a second dental-related ED visit on Sunday with an inpatient admission also occurring on Sunday, then this would be counted as 2 ED visits with one being excluded as “resulting in an inpatient admission” and one retained in the denominator as “did not result in an inpatient admission.”]

YOU NOW HAVE NUMERATOR (NUM) COUNT: Number of ED visits for ambulatory care sensitive non-traumatic dental conditions that did not result in an inpatient admission

4. Report
- Unduplicated number of ED visits in the numerator after exclusions
 - Unduplicated number of member months in denominator
 - Rate per 100,000 member months: $(\text{NUM}/\text{DEN}) \times 100,000$
 - Number of ED visits excluded because they resulted in an inpatient admission

Note: Reliability of the measure score depends on 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 accuracy and reliability of the measure rate.

Table 1. Ambulatory Care Sensitive Non-Traumatic Dental Condition ICD-9-CM and ICD-10-CM Diagnosis Codes

ICD-9 Code	Description of ICD-9 Code	ICD-10 Code	Description of ICD-10 Code
520.0	Anodontia	K00.0	Anodontia
520.1	Supernumerary teeth	K00.1	Supernumerary teeth
520.2	Abnormalities of size and form of teeth	K00.2	Abnormalities of size and form of teeth
520.3	Mottled teeth	K00.3	Mottled teeth
520.4	Disturbances of tooth formation	K00.4	Disturbances of tooth formation
520.5	Hereditary disturbances in tooth structure, not elsewhere classified	K00.5	Hereditary disturbances in tooth structure, not elsewhere classified
520.6	Disturbances in tooth eruption	K00.6	Disturbances in tooth eruption
520.6	Disturbances in tooth eruption	K01.0	Embedded teeth
520.6	Disturbances in tooth eruption	K01.1	Impacted teeth
520.8	Other specified disorders of tooth development and eruption	K00.8	Other specified disorders of tooth development
520.9	Unspecified disorder of tooth development and eruption	K00.9	Disorder of tooth development, unspecified
521.00	Dental caries, unspecified	K02.9	Dental caries, unspecified
521.01	Dental caries limited to enamel	K02.61	Dental caries on smooth surface limited to enamel
521.02	Dental caries extending into dentine	K02.52	Dental caries on pit and fissure surface penetrating into dentin
521.02	Dental caries extending into dentine	K02.62	Dental caries on smooth surface



			penetrating into dentine
521.03	Dental caries extending into pulp	K02.53	Dental caries on pit and fissure surface penetrating into pulp
521.03	Dental caries extending into pulp	K02.63	Dental caries on smooth surface penetrating into pulp
521.04	Arrested dental caries	K02.3	Arrested dental caries
521.05	Odontoclasia	K03.89	Other specified diseases of hard tissues of teeth
521.06	Dental caries pit and fissure	K02.51	Dental caries pit and fissure surface limited to enamel
521.06	Dental caries pit and fissure	K02.52	Dental caries on pit and fissure surface penetrating into dentin
521.06	Dental caries pit and fissure	K02.53	Dental caries on pit and fissure surface penetrating into pulp
521.07	Dental caries of smooth surface	K02.61	Dental caries on smooth surface limited to enamel
521.07	Dental caries of smooth surface	K02.62	Dental caries on smooth surface penetrating into dentine
521.07	Dental caries of smooth surface	K02.63	Dental caries on smooth surface penetrating into pulp
521.08	Dental caries of root surface	K02.7	Dental root caries
521.09	Other dental caries	K02.9	Dental caries, unspecified
521.10	Excessive dental attrition, unspecified	K03.0	Excessive attrition of teeth
521.11	Excessive attrition, limited to enamel	K03.0	Excessive attrition of teeth
521.12	Excessive attrition, extending into dentine	K03.0	Excessive attrition of teeth
521.13	Excessive attrition, extending into pulp	K03.0	Excessive attrition of teeth
521.14	Excessive attrition, localized	K03.0	Excessive attrition of teeth
521.15	Excessive attrition, generalized	K03.0	Excessive attrition of teeth
521.20	Abrasion of teeth, unspecified	K03.1	Abrasion of teeth
521.21	Abrasion, limited to enamel	K03.1	Abrasion of teeth
521.22	Abrasion, extending into dentine	K03.1	Abrasion of teeth
521.23	Abrasion, extending into pulp	K03.1	Abrasion of teeth
521.24	Abrasion, localized	K03.1	Abrasion of teeth
521.25	Abrasion, generalized	K03.1	Abrasion of teeth
521.30	Erosion, unspecified	K03.2	Erosion of teeth
521.31	Erosion, limited to enamel	K03.2	Erosion of teeth
521.32	Erosion, extending into dentine	K03.2	Erosion of teeth
521.33	Erosion, extending into pulp	K03.2	Erosion of teeth
521.34	Erosion, localized	K03.2	Erosion of teeth
521.35	Erosion, generalized	K03.2	Erosion of teeth
521.40	Pathological resorption, unspecified	K03.3	Pathological resorption of teeth
521.41	Pathological resorption, internal	K03.3	Pathological resorption of teeth
521.42	Pathological resorption, external	K03.3	Pathological resorption of teeth

521.49	Other pathological resorption	K03.3	Pathological resorption of teeth
521.5	Hypercementosis	K03.4	Hypercementosis
521.6	Ankylosis of teeth	K03.5	Ankylosis of teeth
521.7	Intrinsic posteruptive color changes of teeth	K03.7	Intrinsic posteruptive color changes of hard tissues of teeth
521.81	Cracked tooth	K03.81	Cracked tooth
521.89	Other specific diseases of hard tissues of teeth	K03.89	Other specific diseases of hard tissues of teeth
521.9	Unspecified disease of hard tissues of teeth	K03.9	Disease of hard tissues of teeth, unspecified
522.0	Pulpitis	K04.0	Pulpitis
522.0	Pulpitis	K04.01	Reversible pulpitis
522.0	Pulpitis	K04.02	Irreversible pulpitis
522.1	Necrosis of the pulp	K04.1	Necrosis of the pulp
522.2	Pulp degeneration	K04.2	Pulp degeneration
522.3	Abnormal hard tissue formation in pulp	K04.3	Abnormal hard tissue formation in pulp
522.4	Acute apical periodontitis of pulpal origin	K04.4	Acute apical periodontitis of pulpal origin
522.5	Periapical abscess without sinus	K04.7	Periapical abscess without sinus
522.6	Chronic apical periodontitis	K04.5	Chronic apical periodontitis
522.7	Periapical abscess with sinus	K04.6	Periapical abscess with sinus
522.8	Radicular cyst	K04.8	Radicular cyst
522.9	Other and unspecified diseases of pulp and periapical tissues	K04.90	Unspecified diseases of pulp and periapical tissues
522.9	Other and unspecified diseases of pulp and periapical tissues	K04.99	Other diseases of pulp and periapical tissues
523.00	Acute gingivitis, plaque induced	K05.00	Acute gingivitis, plaque induced
523.01	Acute gingivitis, non-plaque induced	K05.01	Acute gingivitis, non-plaque induced
523.10	Chronic gingivitis, plaque induced	K05.10	Chronic gingivitis, plaque induced
523.11	Chronic gingivitis, non-plaque induced	K05.11	Chronic gingivitis, non-plaque induced
523.20	Gingival recession, unspecified	K06.0	Gingival recession
523.20	Gingival recession, unspecified	K060.10	Localized gingival recession, unspecified
523.20	Gingival recession, unspecified	K060.20	Generalized gingival recession, unspecified
523.21	Gingival recession, minimal	K06.0	Gingival recession
523.21	Gingival recession, minimal	K060.11	Localized gingival recession, minimal
523.21	Gingival recession, minimal	K060.21	Generalized gingival recession, minimal
523.22	Gingival recession, moderate	K06.0	Gingival recession
523.22	Gingival recession, moderate	K060.12	Localized gingival recession, moderate

523.22	Gingival recession, moderate	K060.22	Generalized gingival recession, moderate
523.23	Gingival recession, severe	K06.0	Gingival recession
523.23	Gingival recession, severe	K06013	Localized gingival recession, severe
523.23	Gingival recession, severe	K06023	Generalized gingival recession, severe
523.24	Gingival recession, localized	K06.0	Gingival recession
523.24	Gingival recession, localized	K060.10	Localized gingival recession, unspecified
523.25	Gingival recession, generalized	K06.0	Gingival recession
523.25	Gingival recession, generalized	K060.20	Generalized gingival recession, unspecified
523.30	Aggressive periodontitis, unspecified	K05.20	Aggressive periodontitis, unspecified
523.31	Aggressive periodontitis, localized	K05.21	Aggressive periodontitis, localized
523.31	Aggressive periodontitis, localized	K052.11	Aggressive periodontitis, localized, slight
523.31	Aggressive periodontitis, localized	K052.12	Aggressive periodontitis, localized, moderate
523.31	Aggressive periodontitis, localized	K052.13	Aggressive periodontitis, localized, severe
523.31	Aggressive periodontitis, localized	K052.19	Aggressive periodontitis, localized, unspecified severity
523.32	Aggressive periodontitis, generalized	K05.22	Aggressive periodontitis, generalized
523.32	Aggressive periodontitis, generalized	K052.21	Aggressive periodontitis, generalized, slight
523.32	Aggressive periodontitis, generalized	K052.22	Aggressive periodontitis, generalized, moderate
523.32	Aggressive periodontitis, generalized	K052.23	Aggressive periodontitis, generalized, severe
523.32	Aggressive periodontitis, generalized	K052.29	Aggressive periodontitis, generalized, unspecified severity
523.33	Acute periodontitis	K05.20	Acute periodontitis
523.40	Chronic periodontitis, unspecified	K05.30	Chronic periodontitis, unspecified
523.41	Chronic periodontitis, localized	K05.31	Chronic periodontitis, localized
523.41	Chronic periodontitis, localized	K053.11	Chronic periodontitis, localized, slight
523.41	Chronic periodontitis, localized	K053.12	Chronic periodontitis, localized, moderate
523.41	Chronic periodontitis, localized	K053.13	Chronic periodontitis, localized, severe
523.41	Chronic periodontitis, localized	K053.19	Chronic periodontitis, localized, unspecified severity
523.42	Chronic periodontitis, generalized	K05.32	Chronic periodontitis, generalized
523.42	Chronic periodontitis, generalized	K053.21	Chronic periodontitis, generalized, slight
523.42	Chronic periodontitis, generalized	K053.22	Chronic periodontitis, generalized, moderate

523.42	Chronic periodontitis, generalized	K053.23	Chronic periodontitis, generalized, severe
523.42	Chronic periodontitis, generalized	K053.29	Chronic periodontitis, generalized, unspecified severity
523.5	Periodontosis	K05.4	Periodontosis
523.5	Periodontosis	K05.40	Periodontosis
523.6	Accretions on teeth	K03.6	Deposits (accretions) on teeth
523.8	Other specified periodontal diseases	K05.5	Other periodontal diseases
523.8	Other specified periodontal diseases	K06.1	Gingival enlargement
523.8	Other specified periodontal diseases	K06.3	Horizontal alveolar bone loss
523.8	Other specified periodontal diseases	K06.8	Other specified disorders of gingiva and edentulous alveolar ridge
523.9	Unspecified gingival and periodontal disease	K05.6	Periodontal disease, unspecified
523.9	Unspecified gingival and periodontal disease	K06.9	Disorder of gingiva and edentulous alveolar ridge, unspecified
524.00	Major anomalies of jaw size, unspecified anomaly	M26.00	Unspecified anomaly of jaw size
524.01	Major anomalies of jaw size, maxillary hyperplasia	M26.01	Maxillary hyperplasia
524.02	Major anomalies of jaw size, mandibular hyperplasia	M26.03	Mandibular hyperplasia
524.03	Major anomalies of jaw size, maxillary hypoplasia	M26.02	Maxillary hypoplasia
524.04	Major anomalies of jaw size, mandibular hypoplasia	M26.04	Mandibular hypoplasia
524.05	Major anomalies of jaw size, macrogenia	M26.05	Macrogenia
524.06	Major anomalies of jaw size, microgenia	M26.06	Microgenia
524.07	Excessive tuberosity of jaw	M26.07	Excessive tuberosity of jaw
524.09	Major anomalies of jaw size, other specified anomaly	M26.09	Other specified anomalies of jaw size
524.10	Anomalies of relationship of jaw to cranial base, unspecified anomaly	M26.10	Unspecified anomaly of relationship of jaw-cranial base relationship
524.11	Anomalies of relationship of jaw to cranial base, maxillary asymmetry	M26.11	Maxillary asymmetry
524.12	Anomalies of relationship of jaw to cranial base, other jaw asymmetry	M26.12	Other jaw asymmetry
524.19	Anomalies of relationship of jaw to cranial base, other specified anomaly	M26.19	Other specified anomalies of jaw-cranial base relationship
524.20	Unspecified anomaly of dental arch relationship	M26.20	Unspecified anomaly of dental arch relationship
524.21	Malocclusion, Angle's class I	M26.211	Malocclusion, Angle's class I
524.22	Malocclusion, Angle's class II	M26.212	Malocclusion, Angle's class II
524.23	Malocclusion, Angle's class III	M26.213	Malocclusion, Angle's class III
524.24	Open anterior occlusal relationship	M26.220	Open anterior occlusal relationship
524.25	Open posterior occlusal relationship	M26.221	Open posterior occlusal relationship

524.26	Excessive horizontal overlap	M26.23	Excessive horizontal overlap
524.27	Reverse articulation	M26.24	Reverse articulation
524.28	Anomalies of interarch distance	M26.25	Anomalies of interarch distance
524.29	Other anomalies of dental arch relationship	M26.29	Other anomalies of dental arch relationship
524.30	Unspecified anomaly of tooth position of fully erupted teeth	M26.30	Unspecified anomaly of tooth position of fully erupted tooth or teeth
524.31	Crowding of teeth	M26.31	Crowding of fully erupted teeth
524.32	Excessive spacing of teeth	M26.32	Excessive spacing of fully erupted teeth
524.33	Horizontal displacement of teeth	M26.33	Horizontal displacement of fully erupted tooth or teeth
524.34	Vertical displacement of teeth	M26.34	Vertical displacement of fully erupted tooth or teeth
524.35	Rotation of tooth/teeth	M26.35	Rotation of fully erupted tooth or teeth
524.36	Insufficient interocclusal distance of teeth (ridge)	M26.36	Insufficient interocclusal distance of fully erupted teeth (ridge)
524.37	Excessive interocclusal distance of teeth	M26.37	Excessive interocclusal distance of fully erupted teeth
524.39	Other anomalies of tooth position	M26.39	Other anomalies of tooth position of fully erupted tooth or teeth
524.4	Malocclusion, unspecified	M26.4	Malocclusion, unspecified
524.50	Dentofacial functional abnormality, unspecified	M26.50	Dentofacial functional abnormalities, unspecified
524.51	Abnormal jaw closure	M26.51	Abnormal jaw closure
524.52	Limited mandibular range of motion	M26.52	Limited mandibular range of motion
524.53	Deviation in opening and closing of the mandible	M26.53	Deviation in opening and closing of the mandible
524.54	Insufficient anterior guidance	M26.54	Insufficient anterior guidance
524.55	Centric occlusion maximum intercuspation discrepancy	M26.55	Centric occlusion maximum intercuspation discrepancy
524.56	Non-working side interference	M26.56	Non-working side interference
524.57	Lack of posterior occlusal support	M26.57	Lack of posterior occlusal support
524.59	Other dentofacial functional abnormalities	M26.59	Other dentofacial functional abnormalities
524.60	Temporomandibular joint disorders, unspecified	M26.60	Temporomandibular joint disorder, unspecified
524.60	Temporomandibular joint disorders, unspecified	M26.601	Right temporomandibular joint disorder, unspecified
524.60	Temporomandibular joint disorders, unspecified	M26.602	Left temporomandibular joint disorder, unspecified
524.60	Temporomandibular joint disorders, unspecified	M26.603	Bilateral temporomandibular joint disorder, unspecified
524.60	Temporomandibular joint disorders, unspecified	M26.609	Unspecified temporomandibular joint disorder, unspecified side

524.60	Temporomandibular joint disorders, unspecified	M26.69	Other specified disorders of temporomandibular joint
524.61	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26.61	Adhesions and ankylosis of temporomandibular joint
524.61	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26.621	Arthralgia of right temporomandibular joint
524.61	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26.622	Arthralgia of left temporomandibular joint
524.61	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26.623	Arthralgia of bilateral temporomandibular joint
524.61	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26.629	Arthralgia of temporomandibular joint, unspecified side
524.62	Temporomandibular joint disorders, arthralgia of temporomandibular joint	M26.62	Arthralgia of temporomandibular joint
524.63	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26.63	Articular disc disorder of temporomandibular joint
524.63	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26.631	Articular disc disorder of right temporomandibular joint
524.63	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26.632	Articular disc disorder of left temporomandibular joint
524.63	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26.633	Articular disc disorder of bilateral temporomandibular joint
524.63	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26.639	Articular disc disorder of temporomandibular joint, unspecified side
524.64	Temporomandibular joint sounds on opening and/or closing the jaw	M26.69	Other specified disorders of temporomandibular joint
524.69	Other specified temporomandibular joint disorders	M26.69	Other specified disorders of temporomandibular joint
524.70	Dental alveolar anomalies, unspecified alveolar anomaly	M26.70	Unspecified alveolar anomaly
524.71	Alveolar maxillary hyperplasia	M26.71	Alveolar maxillary hyperplasia
524.72	Alveolar mandibular hyperplasia	M26.72	Alveolar mandibular hyperplasia
524.73	Alveolar maxillary hypoplasia	M26.73	Alveolar maxillary hypoplasia
524.74	Alveolar mandibular hypoplasia	M26.74	Alveolar mandibular hypoplasia
524.75	Vertical displacement of alveolus and teeth	M26.79	Other specified alveolar anomaly
524.76	Occlusal plane deviation	M26.79	Other specified alveolar anomaly
524.79	Other specified alveolar anomaly	M26.79	Other specified alveolar anomaly
524.81	Anterior soft tissue impingement	M26.81	Anterior soft tissue impingement
524.82	Posterior soft tissue impingement	M26.82	Posterior soft tissue impingement
524.89	Other specified dentofacial anomalies	M26.4	Malocclusion, unspecified
524.89	Other specified dentofacial anomalies	M26.89	Other dentofacial anomalies
524.9	Unspecified dentofacial anomalies	M26.9	Dentofacial anomaly, unspecified
525.0	Exfoliation of teeth due to systemic causes	K08.0	Exfoliation of teeth due to systemic causes

525.10	Acquired absence of teeth, unspecified	K08.109	Complete loss of teeth, unspecified cause, unspecified class
525.12	Loss of teeth due to periodontal disease	K08.429	Partial loss of teeth due to periodontal diseases, unspecified class
525.13	Loss of teeth due to caries	K08.439	Partial loss of teeth due to caries unspecified class
525.13	Loss of teeth due to caries	K08.139	Complete loss of teeth due to caries, unspecified class
525.13	Loss of teeth due to caries	K08.431	Partial loss of teeth due to caries, class I
525.19	Other loss of teeth	K08.499	Partial loss of teeth due to other unspecified cause, unspecified class
525.19	Other loss of teeth	K08.191	Complete loss of teeth due to other specified cause, class I
525.19	Other loss of teeth	K08.199	Complete loss of teeth due to other specified cause, unspecified class
525.20	Unspecified atrophy of edentulous alveolar ridge	K08.20	Unspecified atrophy of edentulous alveolar ridge
525.21	Minimal atrophy of the mandible	K08.21	Minimal atrophy of the mandible
525.22	Moderate atrophy of the mandible	K08.22	Moderate atrophy of the mandible
525.23	Severe atrophy of the mandible	K08.23	Severe atrophy of the mandible
525.24	Minimal atrophy of the maxilla	K08.24	Minimal atrophy of the maxilla
525.25	Moderate atrophy of the maxilla	K08.25	Moderate atrophy of the maxilla
525.26	Severe atrophy of the maxilla	K08.26	Severe atrophy of the maxilla
525.3	Retained dental root	K08.3	Retained dental root
525.40	Complete edentulism, unspecified	K08.109	Complete loss of teeth, unspecified cause, unspecified class
525.40	Complete edentulism, unspecified	K08.139	Complete loss of teeth due to caries, unspecified class
525.40	Complete edentulism, unspecified	K08.199	Complete loss of teeth due to other specified cause, unspecified class
525.41	Complete edentulism, class I	K08.101	Complete loss of teeth, unspecified cause, class I
525.41	Complete edentulism, class I	K08.191	Complete loss of teeth due to other specified cause, class I
525.42	Complete edentulism, class II	K08.102	Complete loss of teeth, unspecified cause, class II
525.43	Complete edentulism, class III	K08.103	Complete loss of teeth, unspecified cause, class III
525.44	Complete edentulism, class IV	K08.104	Complete loss of teeth, unspecified cause, class IV
525.50	Partial edentulism, unspecified	K08.409	Partial loss of teeth, unspecified cause, unspecified class
525.51	Partial edentulism, class I	K08.401	Partial loss of teeth, unspecified cause, class I

525.51	Partial edentulism, class I	K08.431	Partial loss of teeth due to caries, class I
525.52	Partial edentulism, class II	K08.402	Partial loss of teeth, unspecified cause, class II
525.53	Partial edentulism, class III	K08.403	Partial loss of teeth, unspecified cause, class III
525.54	Partial edentulism, class IV	K08.404	Partial loss of teeth, unspecified cause, class IV
525.60	Unspecified unsatisfactory restoration of tooth	K08.50	Unsatisfactory restoration of tooth, unspecified
525.61	Open restoration margins	K08.51	Open restoration margins of tooth
525.62	Unrepairable overhanging of dental restorative materials	K08.52	Unrepairable overhanging of dental restorative materials
525.63	Fractured dental restorative material without loss of material	K08.530	Fractured dental restorative material without loss of material
525.64	Fractured dental restorative material with loss of material	K08.531	Fractured dental restorative material with loss of material
525.65	Contour of existing restoration of tooth biologically incompatible with oral health	K08.54	Contour of existing restoration of tooth biologically incompatible with oral health
525.66	Allergy to existing dental restorative material	K08.55	Allergy to existing dental restorative material
525.67	Poor aesthetics of existing restoration	K08.56	Poor aesthetic of existing restoration of tooth
525.69	Other unsatisfactory restoration of existing tooth	K08.59	Other unsatisfactory restoration of tooth
525.71	Osseointegration failure of dental implant	M27.61	Osseointegration failure of dental implant
525.72	Post-osseointegration biological failure of dental implant	M27.62	Post-osseointegration biological failure of dental implant
525.73	Post-osseointegration mechanical failure of dental implant	M27.63	Post-osseointegration mechanical failure of dental implant
525.79	Other endosseous dental implant failure	M27.69	Other endosseous dental implant failure
525.8	Other specified disorders of the teeth and supporting structures	K08.8	Other specified disorders of teeth and supporting structures
525.8	Other specified disorders of the teeth and supporting structures	K08.89	Other specified disorders of teeth and supporting structures
525.8	Other specified disorders of the teeth and supporting structures	M26.79	Other specified alveolar anomalies
525.9	Unspecified disorder of the teeth and supporting structures	K08.9	Disorder of teeth and supporting structures, unspecified
526.0	Developmental odontogenic cysts	K09.0	Developmental odontogenic cysts
526.1	Fissural cysts of jaw	K09.1	Developmental (nonodontogenic) cysts of oral region
526.2	Other cysts of jaws	M27.49	Other cysts of jaws
526.2	Other cysts of jaws	M27.40	Unspecified cyst of jaw

526.3	Central giant cell (reparative) granuloma	M27.1	Giant cell granuloma, central
526.4	Inflammatory conditions of jaw	M27.2	Inflammatory conditions of jaw
526.5	Alveolitis of jaw	M27.3	Alveolitis of jaw
526.61	Perforation of root canal space	M27.51	Perforation of root canal space due to endodontic treatment
526.62	Endodontic overfill	M27.52	Endodontic overfill
526.63	Endodontic underfill	M27.53	Endodontic underfill
526.69	Other periradicular pathology associated with previous endodontic treatment	M27.59	Other periradicular pathology associated with previous endodontic treatment
526.81	Exostosis of jaw	M27.8	Other specified diseases of jaws
526.89	Other specified diseases of the jaws	M27.8	Other specified diseases of jaws
526.9	Unspecified disease of the jaws	M27.9	Disease of the jaws, unspecified
526.9	Unspecified disease of the jaws	M27.0	Developmental disorders of jaws
527.0	Atrophy of salivary gland	K11.0	Atrophy of salivary gland
527.1	Hypertrophy of salivary gland	K11.1	Hypertrophy of salivary gland
527.2	Sialoadenitis	K11.20	Sialoadenitis, unspecified
527.2	Sialoadenitis	K11.21	Acute sialoadenitis
527.2	Sialoadenitis	K11.23	Chronic sialoadenitis
527.3	Abscess of salivary gland	K11.3	Abscess of salivary gland
527.4	Fistula of salivary gland	K11.4	Fistula of salivary gland
527.5	Sialolithiasis	K11.5	Sialolithiasis
527.6	Mucocele of salivary gland	K11.6	Mucocele of salivary gland
527.7	Disturbance of salivary secretion	K11.7	Disturbances of salivary secretion
527.7	Disturbance of salivary secretion	R68.2	Dry mouth, unspecified
527.8	Other specified diseases of the salivary glands	K11.8	Other diseases of salivary glands
527.9	Unspecified disease of the salivary glands	K11.9	Disease of the salivary glands, unspecified
528.00	Stomatitis and mucositis, unspecified	K12.2	Cellulitis and abscess of mouth
528.00	Stomatitis and mucositis, unspecified	K12.30	Oral mucositis (ulcerative), unspecified
528.01	Mucositis (ulcerative) due to antineoplastic therapy	K12.31	Oral mucositis (ulcerative) due to antineoplastic therapy
528.01	Mucositis (ulcerative) due to antineoplastic therapy	K12.33	Oral mucositis (ulcerative) due to radiation
528.02	Mucositis (ulcerative) due to other drugs	K12.32	Oral mucositis (ulcerative) due to other drugs
528.09	Other stomatitis and mucositis (ulcerative)	K12.1	Other forms of stomatitis
528.09	Other stomatitis and mucositis (ulcerative)	K12.39	Other oral mucositis (ulcerative)
528.1	Cancrum oris	A69.0	Necrotizing ulcerative stomatitis
101	Vincent's angina	A69.0	Necrotizing ulcerative stomatitis
101	Vincent's angina	A69.1	Other Vincent's infections

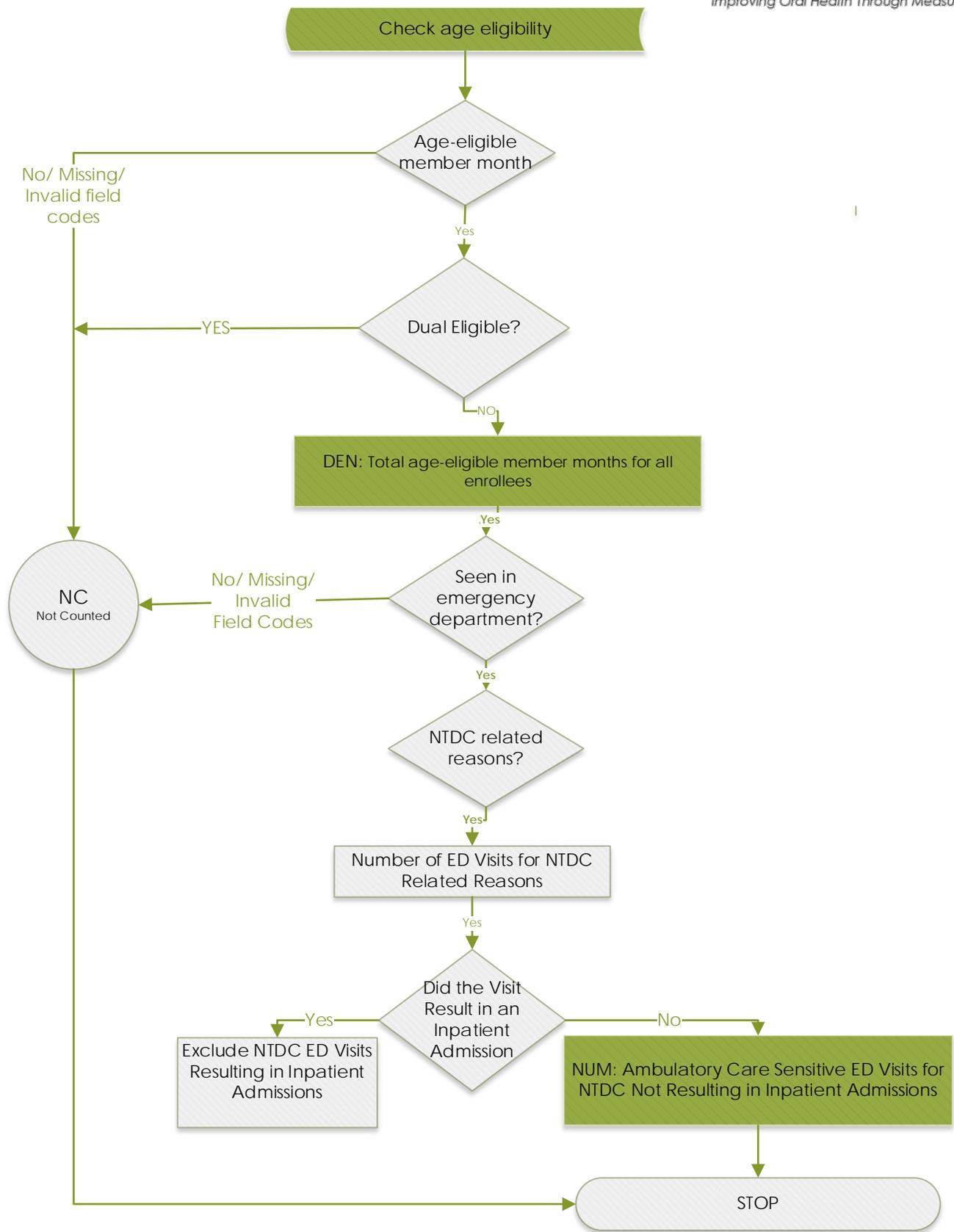
528.2	Oral aphthae	K12.0	Recurrent oral aphthae
528.3	Cellulitis and abscess of oral soft tissues	K12.2	Cellulitis and abscess of mouth
528.4	Cysts of oral soft tissues	K09.8	Other cysts of oral region, not elsewhere classified
528.4	Cysts of oral soft tissues	K099	Cyst of oral region, unspecified
528.5	Diseases of lips	K13.0	Diseases of lips
528.6	Leukoplakia of oral mucosa, including tongue	K13.21	Leukoplakia of oral mucosa, including tongue
528.71	Minimal keratinized residual ridge mucosa	K13.22	Minimal keratinized residual ridge mucosa
528.72	Excessive keratinized residual ridge mucosa	K13.23	Excessive keratinized residual ridge mucosa
528.79	Other disturbances of oral epithelium, including tongue	K13.29	Other disturbances of oral epithelium, including tongue
528.8	Oral submucosal fibrosis, including of tongue	K13.5	Oral submucosal fibrosis
528.9	Other and unspecified diseases of the oral soft tissues	K13.70	Unspecified lesions of oral mucosa
528.9	Other and unspecified diseases of the oral soft tissues	K13.79	Other lesions of oral mucosa
528.9	Other and unspecified diseases of the oral soft tissues	K13.1	Cheek and lip biting
528.9	Other and unspecified diseases of the oral soft tissues	K13.6	Irritative hyperplasia of oral mucosa
528.9	Other and unspecified diseases of the oral soft tissues	K13.4	Granuloma and granuloma-like lesions of oral mucosa
529.0	Glossitis	K14.0	Glossitis
529.1	Geographic tongue	K14.1	Geographic tongue
529.2	Median rhomboid glossitis	K14.2	Median rhomboid glossitis
529.3	Hypertrophy of tongue papillae	K14.3	Hypertrophy of tongue papillae
529.4	Atrophy of tongue papillae	K14.4	Atrophy of tongue papillae
529.5	Plicated tongue	K14.5	Plicated tongue
529.6	Glossodynia	K14.6	Glossodynia
529.8	Other specified conditions of the tongue	K14.8	Other diseases of the tongue
529.9	Unspecified condition of the tongue	K14.9	Disease of tongue, unspecified
V52.3	Fitting and adjustment of dental prosthetic device	Z46.3	Encounter for fitting and adjustment of dental prosthetic device
V53.4	Fitting and adjustment of orthodontic devices	Z46.4	Encounter for fitting and adjustment of orthodontic device
V58.5	Orthodontics aftercare	Z46.4	Encounter for fitting and adjustment of orthodontic device
V72.2	Dental examination	Z01.20	Encounter for dental examination and cleaning without abnormal findings



V72.3	Dental examination	Z01.21	Encounter for dental examination and cleaning with abnormal findings
784.92	Jaw pain	R68.84	Jaw pain

Table 2. Additional First-Listed ICD-9-CM/ICD-10-CM Diagnosis Codes to Identify Ambulatory Care Sensitive Non-Traumatic Dental Condition Visits when Paired with an Additional Listed Diagnosis Code from the Ambulatory Care Sensitive Non-Traumatic Dental Condition ICD-9-CM/ICD-10-CM Codes in Table 1

ICD9 Codes	Description of Code	ICD10 Codes	Description of Code
682.0	Cellulitis and abscess of face	L03.211	Cellulitis of face
682.0	Cellulitis and abscess of face	L03.212	Acute lymphangitis of face
682.0	Cellulitis and abscess of face	L03.213	Periorbital cellulitis
682.1	Cellulitis and abscess of neck	L03.221	Cellulitis of neck
682.1	Cellulitis and abscess of neck	L03.222	Acute lymphangitis of neck
784.2	Swelling mass or lump in head and neck	R22.0	Localized swelling, mass and lump, head
784.2	Swelling mass or lump in head and neck	R22.1	Localized swelling, mass and lump, neck



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