

Financial Impact of Emergency Department Visits for Dental Conditions in Maryland:

An Update

SUGGESTED CITATION

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Glossary

ED – emergency department

NTDC - non-traumatic dental condition

FY - fiscal year

DEA – dual-eligible adult



Executive Summary

This report updates findings from a 2017 report by the DentaQuest Institute (now known as CareQuest Institute for Oral Health) that examined trends in emergency department (ED) visits by Maryland adults over a four-year period. The current report uses inpatient and outpatient revisit databases from the Health Services Cost Review Commission to examine the scope of hospital utilization and the financial impact of ED visits for non-traumatic dental conditions (NTDCs) from FY2013 through FY2019. In addition to using updated data, this report also uses standards recently adopted by national organizations to measure ED visits for non-traumatic dental conditions.

Our analysis finds that there were 35,300 ED visits for non-traumatic dental conditions among all adults in Maryland in FY2019, at a cost to all payers of \$25.7 million. The number of visits has fallen substantially in recent years, declining 8% between FY2018 and FY2019. However, Maryland continues to have rates of adult ED visits for NTDCs that exceed the national average. Moreover, average charges for these visits are increasing over time, from \$486 in FY2013 to \$728 in FY2019. This increase is more than double the rate of increase in ED visits for other reasons.

The state's Medicaid program pays a disproportionate share of the cost for these visits. Although Medicaid members comprise only 17% of Maryland adults, they account for 54% of all the state's ED visits for non-traumatic dental conditions and 46% of total cost.

In 2018, Maryland established a pilot program providing dental benefits for Maryland adults between the ages of 21 and 64 who are dually eligible for Medicare and Medicaid. The oral health services covered by this pilot program include diagnostic, preventive, and restorative services and are subject to an \$800 per person maximum benefit per calendar year. While ED visits among Maryland's dual-eligible adult population dropped by 10% in FY2019, the cause of this decline is outside the time-scope of the analyses in this study. We will continue to monitor the trends in this population over time as more data become available.

The analysis demonstrates that expanding dental benefits to adult Medicaid participants is an opportunity for policy change aimed at reducing ED visits for non-traumatic dental conditions in Maryland.



EDs Are No Place for Dental Care

More than 1 in 4 US adults have untreated tooth decay. Nearly half (46%) of all adults aged 30 years or older show signs of periodontal (gum) disease. Untreated oral disease can negatively affect overall health, such as by making it tougher for people with diabetes to manage their blood sugar. For all these reasons, it is crucial for Americans to have regular access to dental care.

Many states have seen <u>a widening gap</u> between low-income and high-income non-elderly adults' use of dental care. People who <u>lack public or private insurance</u> for routine dental services are more likely to forgo regular care and seek treatment in hospital EDs when an oral health problem causes pain or other complications. In addition, adults are <u>more likely than children</u> to be admitted to EDs for dental-related needs. The vast majority of dental-related visits to hospital EDs are made for NTDCs that <u>typically can be treated in a dental office</u>. These ED visits are <u>costly and rarely address the root cause</u> because most EDs are not equipped with the clinicians, instruments, or supplies to perform procedures to fully address oral diseases. In Maryland, one exception is the University of Maryland Medical Center in Baltimore, which includes clinicians and students from the School of Dentistry and Dental Hygiene.

Over 74 million Americans lack access to dental coverage — three times the number of people without medical insurance. This is especially important for individuals with Medicaid, as it is optional for states to offer coverage for adults, and thus dental coverage for Medicaid members varies widely by state and over time. As of January 2021, three states provide no adult dental benefit, and nine states cover emergency services only. Even when state Medicaid programs offer extensive coverage, the benefits are subject to cuts in difficult budget cycles and may be at significant risk due to COVID-19 shortfalls. Additionally, nearly half of seniors lack dental insurance, as traditional Medicare does not cover dental services.

For states, the financial implications of ED visits are profound. Although state Medicaid programs are not required to cover dental services, all states are required to reimburse hospitals for ED visits by their adult Medicaid members. The costs to state Medicaid programs are significant because the number of dental-related visits is substantial, particularly when members cannot access dental services in dental offices because there is no coverage available.

¹ States define emergency services differently, although most include emergency treatment for pain and infection.

Can providing Medicaid-enrolled adults with dental coverage for routine and restorative services reduce the rate at which adults seek care in hospital EDs for NTDCs? Recent reports suggest that it can. For example, researchers have linked a decline in dental-related ED visits by young adults to a federal policy change that improved their coverage. In 2016, Missouri restored Medicaid dental benefits to about 350,000 of its adult members. Two years later, the state reported that the rate of ED visits for NTDCs had dropped by 38% since 2015.

CareQuest Institute for Oral Health and the Maryland Dental Action Coalition (MDAC) are deeply interested in learning more about the association between dental coverage and ED visits. This report examines hospital visits for dental conditions in the context of ongoing policy changes by Maryland's Medicaid program. This report updates previous reports on hospital visits for dental conditions in Maryland and serves as a baseline for tracking trends in hospital visits across insurance types. It also shares data on the dual-eligible population — adults who are both Medicaid and Medicare members. CareQuest Institute and MDAC will continue monitoring these trends to explore how improvements in Medicaid adult dental benefits might be connected to reductions in the rate of dental-related ED visits.

Maryland's Policy Change

A 2017 report by the DentaQuest Institute (now CareQuest Institute) examined the trend of ED visits by Maryland adults over a four-year period, culminating in 2016. While managed care organizations that contract with the state's Medicaid program may voluntarily offer limited dental benefits to Medicaid-enrolled adults, this is clearly not enough. This report showed that dental ED visits among all adults cost nearly \$1 billion over a four-year period. By the final year of this analysis, 53% of these Maryland ED visits were paid for by the state's Medicaid program. Although the rate of Maryland's dental ED visits per 10,000 adults declined over the four-year period that was studied, the state's rate was significantly higher than national rates of ED visits for non-traumatic dental conditions.

Supported by these and other data related to the unmet oral health needs of adults, MDAC and its allies cited the 2017 report as they campaigned to expand Medicaid dental benefits for adults. In 2018, Governor Larry Hogan signed legislation that established a pilot program providing dental benefits to Maryland adults between the ages of 21 and 64 who are dually eligible for Medicare and Medicaid. Taking effect in June 2019, the pilot program provides an estimated 38,000 adults with dental coverage.

The oral health services covered by this pilot program include diagnostic, preventive, and restorative services. Thus far, these benefits are subject to an \$800 per person maximum benefit per calendar year. In 2020, more than 4,000 adults received dental services under this pilot program, amounting to more than \$1.2 million. This is notable, especially as dental office closures associated with the COVID-19 pandemic likely limited patient's ability to get care in 2020.

Methodology

To update the findings from the prior report, this report uses data from the Health Services Cost Review Commission for FY2013 through FY2019. Inpatient and outpatient revisit databases were used to examine the scope of hospital utilization for NTDCs. The study received institutional review board (IRB) approval from the Western Institutional Review Board. The analysis was restricted to adults, defined as Maryland residents who were aged 20 or older at the time of admission to the hospital.

To identify ED visits for NTDCs, we defined a health care encounter as an ED visit using measure specifications recommended by the Dental Quality Alliance (DQA). Furthermore, we defined NTDCs based on listed diagnoses using the ICD-9-CM or ICD-10-CM codes as recommended by the Association of State and Territorial Dental Directors, a validated approach to identify NTDC ED visits (see Appendix 1). Comparisons of alternative measure specifications for ED visits for dental conditions can be found in Appendix 2.

For inpatient data, we identified an encounter as an inpatient visit if the patient was admitted to the hospital for an emergency and was in the care of the medical or surgical department. We defined an encounter as an inpatient visit for an NTDC if:

- Any of the ICD-9-CM or ICD-10-CM diagnosis codes as recommended by the DQA measure was presented as a first-listed diagnosis (see Appendix 1); and
- The patient had an additional listed diagnosis code for cellulitis and abscess of face/neck or swelling mass or lump in head or neck (ICD-9-CM: 682.0, 682.1 or 784.2; ICD-10-CM: L03.211 - L03.213, L03.221 - L03.222, R22.0 or R22.1). Note that all additional listed diagnosis codes were accompanied by a first-listed diagnosis code.

Population rates were calculated using population estimates from the U.S. Census Bureau. Rates in the Medicaid population and the dual-eligible population were calculated using information on average monthly enrollment in Medicaid provided by the Hilltop Institute. Payers for hospital visits were grouped into the following categories: commercial insurance, Medicaid, Medicare, uninsured/self-pay, and other payers. The Medicaid category combines the managed care and fee-forservice plans. In order to better understand demographic differences in ED visits for NTDCs, the results were stratified by sex, age, and race/ethnicity. Race and ethnicity were categorized as non-Hispanic white, non-Hispanic Black, non-Hispanic other racial group, and Hispanic. Sex was defined as either female or male. Age was categorized into the following age groups: 20-24, 25-34, 35-44, 45-54, 55-64, 65-74, and 75 and over. The overall outpatient revisit rate; revisit rate within 30 days; and consecutive visit rate for NTDCs were calculated using a unique patient ID and the time elapsed between visits. The financial impact of ED or inpatient visits for NTDCs was estimated using inflation-adjusted total charges and average charge per visit.

Declining ED Visits, but Rising Costs, for Dental Conditions in Maryland

ED visits and inpatient admissions, measured collectively among all Maryland adults, fell by 32% to 35,300 visits in FY2019, from a high of 52,248 visits in FY2013 (Exhibit 1). These visits fell by 8% between FY2018 and FY2019. The declines in raw numbers are accompanied by a decline in the population rates, declining from 118 visits per 10,000 adults in

FY2013 to 77 visits per 10,000 adults in FY2019, a 35% decrease. While these declines are substantial, Maryland continues to have rates of ED visits for NTDCs that exceed the national average. In FY2018, Maryland had 83 visits per 10,000 adults, while nationally there were 66 visits per 10,000 adults (Exhibit 2).²

On average, annual costs in Maryland are \$26 million in inflation-adjusted charges for ED visits and inpatient admissions for dental conditions (Exhibit 1). Average charges for ED visits for dental conditions are increasing over time, from \$486 in FY2013 to \$728 in FY2019. This increase is growing significantly faster than average charges are increasing for non-dental ED visits. Between FY2013 and FY2019, charges for ED visits for dental conditions increased at more than double the rate of increase of average charges for non-dental ED visits (58% for dental conditions, compared to 27% for ED visits for other reasons). The annual average growth rate for ED visits for dental conditions is 8%, compared to 4% for ED visits for other reasons (Exhibit 3).

Exhibit 1: Emergency Department and Inpatient Admissions for Non-Traumatic Dental Conditions Among Adults in Maryland

				<u> </u>			
				Count			
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	51,585	50,852	48,313	45,152	41,126	37,835	34,830
Inpatient Admissions	663	661	589	528	497	519	470
Total	52,248	51,513	48,902	45,680	41,623	38,354	35,300
			Rate Per	10,000 Adult Po	pulation		
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	116.8	114.2	107.7	100.2	90.9	83.3	76.4
Inpatient Admissions	1.5	1.5	1.3	1.2	1.1	1.1	1.0
Total	118.3	115.7	109.0	101.4	92.0	84.4	77.4
	Inflation-Adjusted Total Charges						
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	\$19,637,070	\$20,975,993	\$21,804,310	\$22,625,638	\$21,860,843	\$20,836,440	\$20,916,488
Inpatient Admissions	\$5,749,325	\$5,566,510	\$6,031,652	\$5,336,545	\$4,287,356	\$4,513,330	\$4,792,091
Total	\$25,386,395	\$26,542,503	\$27,835,962	\$27,962,183	\$26,148,198	\$25,349,769	\$25,708,579
			Inflation-Adjus	sted Average Ch	arges Per Visit		
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	\$381	\$412	\$451	\$501	\$532	\$551	\$601
Inpatient Admissions	\$8,672	\$8,421	\$10,240	\$10,107	\$8,626	\$8,696	\$10,196
Total	\$486	\$515	\$569	\$612	\$628	\$661	\$728

² Data for national rates were obtained from the Nationwide Emergency Department Sample (NEDS) for the years 2013–2018. NEDS is the largest, all-payer U.S. ED database and provides appropriate weights to determine national-level estimates of all hospital-based ED visits.

Exhibit 2: Rates for ED Visits for Non-Traumatic Dental Conditions Among Adults in Maryland and Nationally

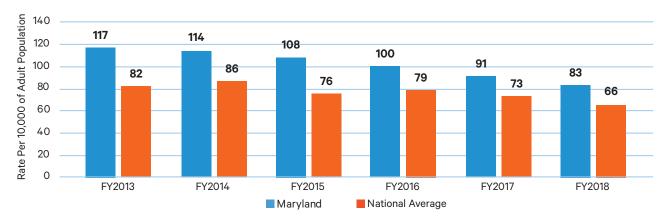
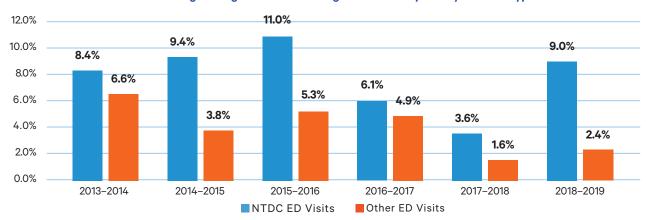


Exhibit 3: Annual Percent Increase in Average Charges Per Visit Among Adults in Maryland by ED Visit Type

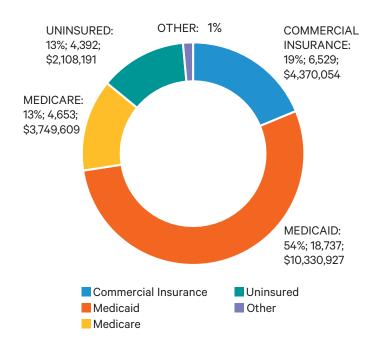


This increase may be partially associated with an increase in the incidence of acute periapical abscess, which often requires additional services, including draining of the abscess. Diagnoses of periapical abscess have risen from being present in 11% of all ED visits for dental conditions in FY2013 to 17% of all ED visits for dental conditions in FY2019. Periapical abscesses are preventable conditions caused by bacterial infection and, if left untreated, can spread to other parts of the body and lead to additional infections or even death.

The payers for ED visits for NTDCs in FY2019 were Medicaid (54%), commercial insurers (19%), Medicare (13%), uninsured/self-pay (13%), and other sources (1%) (Exhibit 4). Roughly two-thirds of the costs for all ED visits by Maryland adults in 2019 were paid by Medicaid (\$10.2 million) or Medicare (\$3.7 million).

EDs are not equipped to provide definitive dental care, instead typically offering prescriptions for antibiotics and opioids. If adults are not able to get care at a dental office due to an inability to pay out of pocket, this may lead to a cycle of ED visits for ongoing dental conditions or expensive inpatient admission if their condition worsens. In FY2019, 31% of all visits were among patients who returned to the ED more than once for a dental condition, and 20% of all patients returned within 30 days of their initial visit.

Exhibit 4: Distribution of Payers of ED Visits for Non-Traumatic Dental Conditions among Adults in Maryland, FY2019



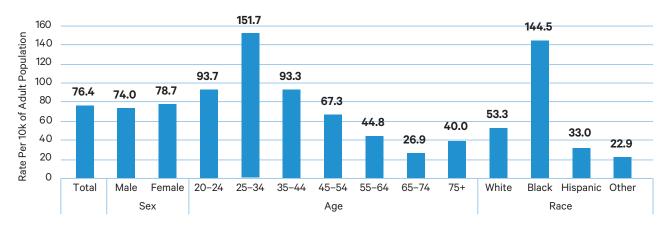


Disparities in ED Visits

ED visits are not equally distributed across the population. Adults aged 25–34 have the highest rates of ED visits for NTDCs, at 152 visits per 10,000 adults. Rates steadily decrease with age; those aged 65–74 have the lowest rates, at 27 visits per 10,000 adults (Exhibit 5). Black adults have the highest

rates among racial groups of ED visits, at 145 visits per 10,000 adults — nearly three times the rate of other racial/ethnic groups. Hispanic adults and adults who identify their race as "other" have the lowest rates, at 33 and 23 visits per 10,000 adults, respectively.

Exhibit 5: Rate of ED Visits for Non-Traumatic Dental Conditions among Adults, by Age, Sex, and Race in FY 2019



Medicaid Pays Disproportionate Share of Cost

There were 18,904 NTDC ED visits and inpatient admissions among adult Medicaid participants in Maryland in FY2019 (Exhibit 6). The number of ED visits fell 11% between FY2018 and FY2019 alone. This 1-year drop represents a larger percentage decline than the 8% reduction over the previous 5-year period (2013-18). While these declines are substantial, adult Medicaid participants in Maryland have rates of ED visits for NTDCs that exceed both the Maryland average and national average. Overall, in Maryland there were 76 NTDC ED visits for every 10,000 adults, but there were 253 such visits for every 10,000 Medicaid-enrolled adults. In FY2018, there were 283 visits per 10,000 adults among adults enrolled in Medicaid

in Maryland, while nationally there were 172 visits per 10,000 adults (Exhibit 7).

Medicaid clearly pays for a disproportionately large number of ED visits for NTDCs in Maryland. Since Medicaid expansion in FY2014, between 15% and 17% of the total adult population has been enrolled in Medicaid (Exhibit 8) and one-third (33%) of all ED visits among adults for any reason are by Medicaid participants. However, more than half (54%) of ED visits for NTDCs are by Medicaid participants. There are large numbers of repeat visits as well, with nearly 4 in 10 ED visits for NTDCs being among those who have gone more than once.

Exhibit 6: Emergency Department and Inpatient Admissions for Non-Traumatic Dental Conditions Among Medicaid-Enrolled Adults in Maryland

Total	\$429	\$451	\$495	\$537	\$569	\$597	\$624
Inpatient Admissions	\$9,620	\$8,754	\$11,229	\$10,592	\$8,771	\$9,572	\$8,778
ED Visits	\$370	\$395	\$425	\$460	\$500	\$511	\$551
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
			Inflation-Adju	sted Average Ch	arges Per Visit		
Total	\$9,931,499	\$11,701,438	\$13,219,375	\$12,658,420	\$13,132,399	\$12,738,558	\$11,796,841
Inpatient Admissions	\$1,423,753	\$1,523,128	\$1,942,609	\$1,885,462	\$1,684,053	\$1,943,166	\$1,465,914
ED Visits	\$8,507,745	\$10,178,310	\$11,276,766	\$10,772,958	\$11,448,346	\$10,795,391	\$10,330,927
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
			Inflation	n-Adjusted Total	Charges		
Total	468.3	388.8	407.0	339.9	314.0	285.4	255.1
Inpatient Admissions	3.0	2.6	2.6	2.6	2.6	2.7	2.3
ED Visits	465.3	386.1	404.4	337.4	311.4	282.7	252.9
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
			Rate Per	r 10,000 Adult Po	pulation		
Total	23,158	25,939	26,687	23,581	23,076	21,341	18,904
Inpatient Admissions	148	174	173	178	192	203	167
ED Visits	23,010	25,765	26,514	23,403	22,884	21,138	18,737
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
				Count			

Exhibit 7: Rates for ED Visits for Non-Traumatic Dental Conditions among Medicaid-Enrolled Adults in Maryland and Nationally

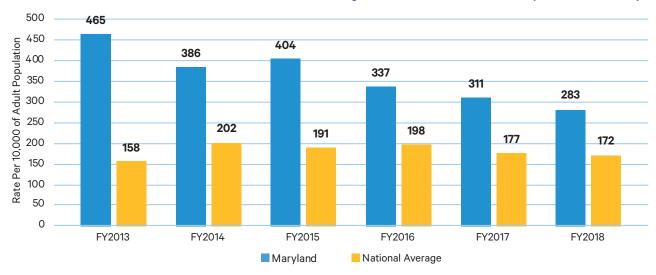
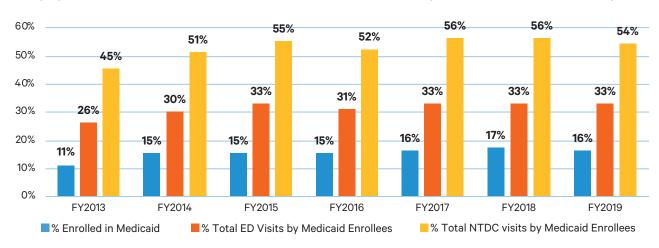


Exhibit 8: Disproportionate Burden of ED Visits for Non-Traumatic Dental Conditions by Medicaid-Enrolled Adults in Maryland



ED Visits by Dual-Eligible Adults, Age 21–64

In 2019, there were 1,674 NTDC ED visits among Maryland's dual-eligible adults (DEAs) between the ages of 21 and 64, a decline of 10% from the prior year (Exhibit 9).³ Rate information, which is only available for FY2018 and FY2019, also demonstrates a drop between those years, from 297 to 271 visits per 10,000 adults. These population rates are slightly higher than those for adults enrolled only in Medicaid and significantly higher than the adult population as a whole. The total cost in 2019 for ED visits and inpatient admissions among DEAs was \$1,288,762, which represents a decline of more than \$215,000 from the previous year.

Rates of inpatient admissions for DEAs are double the rate of the adult Medicaid population and six times the overall rate. This high rate makes sense, given the high rate of chronic diseases in the DEA population. In fact, DEAs are <a href="https://www.three.com/three.

The decline in overall ED visits mirrors the broader trend toward lower rates of ED visits for NTDCs in Maryland and nationally. While we plan to collect and analyze data from future fiscal years, we recognize that data from 2020 could be challenging to interpret because of how dental office closures (and guidance to avoid EDs for any non-COVID reason) due to the COVID-19 pandemic might have affected people's ability to get dental care in any location.

Exhibit 9: Emergency Department and Inpatient Admissions for Non-Traumatic Dental Conditions Among Dual-Eliigible Adults
Aged 21–64 in Maryland

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			Count			
FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
2,377	2,259	2,259	2,144	2,005	1,856	1,674
44	40	43	33	36	38	29
2,421	2,299	2,302	2,177	2,041	1,894	1,703
	Ra	te Per 10,000 Ac	lult (21-64) Dual	-Eligible Populat	tion	
FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
					291.3	266.2
					6.0	4.6
					297.3	270.8
		Inflation	-Adjusted Total	Charges		
FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
\$945,054	\$1,073,448	\$1,191,808	\$1,175,775	\$1,089,198	\$1,147,057	\$991,459
\$441,768	\$381,730	\$477,886	\$338,695	\$349,575	\$357,226	\$297,303
\$1,386,822	\$1,455,178	\$1,669,694	\$1,514,470	\$1,438,773	\$1,504,283	\$1,288,762
Inflation-Adjusted Average Cost Per Visit						
FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
\$398	\$475	\$528	\$548	\$543	\$618	\$592
\$10,040	\$9,543	\$11,114	\$10,263	\$9,710	\$9,401	\$10,252
\$573	\$633	\$725	\$696	\$705	\$794	\$757
	FY2013 2,377 44 2,421 FY2013 FY2013 \$945,054 \$441,768 \$1,386,822 FY2013 \$398 \$10,040	FY2013 FY2014 2,377 2,259 44 40 2,421 2,299 Ra FY2013 FY2014 FY2013 FY2014 \$945,054 \$1,073,448 \$441,768 \$381,730 \$1,386,822 \$1,455,178 FY2013 FY2014 \$398 \$475 \$10,040 \$9,543	FY2013 FY2014 FY2015 2,377 2,259 2,259 44 40 43 Rate Per 10,000 Ac FY2013 FY2014 FY2015 \$945,054 \$1,073,448 \$1,191,808 \$1,386,822	FY2013 FY2014 FY2015 FY2016 2,377 2,259 2,259 2,144 44 40 43 33 2,421 2,299 2,302 2,177 Rate Per 10,000 Adult (21-64) Dual Price Per 10,00	FY2013 FY2014 FY2015 FY2016 FY2017 2,377 2,259 2,259 2,144 2,005 44 40 43 33 36 2,421 2,299 2,302 2,177 2,041 Rate Per 10,000 Adult (21-64) Dual-Eligible Popular FY2013 FY2014 FY2015 FY2016 FY2017 Inflation-Adjusted Total Charges FY2013 FY2014 FY2015 FY2016 FY2017 \$945,054 \$1,073,448 \$1,191,808 \$1,175,775 \$1,089,198 \$441,768 \$381,730 \$477,886 \$338,695 \$349,575 \$1,386,822 \$1,455,178 \$1,669,694 \$1,514,470 \$1,438,773 Inflation-Adjusted Average Cost Per Visit FY2013 FY2014 FY2015 FY2016 FY2017 \$398 \$475 \$528 \$548 \$543 \$10,040 \$9,543 \$11,114 \$10,263 \$9,710	FY2013 FY2014 FY2015 FY2016 FY2017 FY2018 2,377 2,259 2,259 2,144 2,005 1,856 44 40 43 33 36 38 2,421 2,299 2,302 2,177 2,041 1,894 Rate Per 10,000 Adult (21-64) Dual-Eligible Population FY2013 FY2014 FY2015 FY2016 FY2017 FY2018 291.3 297.3 Inflation-Adjusted Total Charges FY2013 FY2014 FY2015 FY2016 FY2017 FY2018 \$945,054 \$1,073,448 \$1,191,808 \$1,175,775 \$1,089,198 \$1,147,057 \$441,768 \$381,730 \$477,886 \$338,695 \$349,575 \$357,226 \$1,386,822 \$1,455,178 \$1,669,694 \$1,514,470 \$1,438,773 \$1,504,283 FY2013 FY2014 FY2015 FY2016 FY2017 FY2018

³ The analysis of dual-eligible adults (Exhibit 8) is focused on adults between 21 to 64 years of age, because the pilot program grants dental benefits to this group. Information for the entire adult dual-eligible population is available in Appendix 3.



Implications for Policymakers

Our analysis underscores why expanding dental benefits to Medicaid participants is an opportunity for policy change to reduce ED visits for NTDCs. Although Medicaid members comprise only 17% of Maryland adults, they account for 54% of all the state's ED visits for NTDCs and 46% of total cost. Clearly, the Medicaid program pays a disproportionate share of the cost of ED visits for dental conditions.

Maryland's pilot program offers basic dental benefits for DEAs — adults who are members of both Medicaid and Medicare. As this report indicates, ED visits for NTDCs among all Maryland adults fell in the first year of the pilot that expanded dental benefits. These visits also dropped among DEAs, and this decline is particularly encouraging because this group has higher rates of chronic disease than the overall adult population. However, there is not yet sufficient evidence that this drop was associated with the expansion of dental benefits to this population, and we will continue to monitor the trends over time.

Regardless, improving the quality of dental coverage for DEAs and/or other adults offers them a much less costly option for care that can prevent oral diseases or treat these infections before they become more serious or even life-threatening. Improving the range of covered dental services may well be

one factor lowering the rate of ED visits by Maryland adults, improving health outcomes and leading to significant cost savings for the state Medicaid program.

Maryland ED statistics reflect what other states' data tend to show: younger adults are much more likely to visit hospital EDs for NTDCs than older adults. In 2019, the rate of visits among adults aged 20-34 was more than double the rate among those aged 45 or older. This suggests that states seeking to reduce ED visits could make greater progress toward reducing costs associated with ED visits for NTDCs by improving the quality of Medicaid dental benefits for all eligible members, as opposed to focusing on subgroups that are older or that have a higher prevalence of chronic diseases. Considering that Maryland's ED rate for NTDCs remains much higher than the national rate, state policymakers might need to implement broader improvements in adult dental coverage to close this gap.

As states adopt changes in adult dental coverage, additional research can strengthen our knowledge of the link that seems to exist between improvements in adult benefits and a reduction in ED visits. Legislators and other state policymakers should monitor reports of these and similar data, recognizing that curbing ED visits for NTDCs is one way to reduce an unnecessary drain on state Medicaid budgets.

Appendix 1: Non-Traumatic Dental Condition Diagnosis Codes

ASTDD Measure

Supernumerary teeth Ko01 Supernumerary teeth Ko02 Abnormalities of size and form of teeth Ko02 Substances of tooth formation Ko04 Substances of tooth formation Ko04 Substances in tooth structure, not elsewhere classified Ko05 Substances in tooth eruption Ko06 Substances in tooth eruption Ko10 Substances in tooth eruption Ko20 Substances in tooth eruption Route Route Router Ro	ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
Abnormalities of size and form of teeth KO02 Disturbances of tooth formation KO04 Fixed plant plan	5200	Anodontia	K000	
5203 Mottled teeth K003 5204 Disturbances of tooth formation K004 5205 Heraditary disturbances in tooth structure, not elsewhere classified K006 Disturbances in tooth eruption K01 Embedded and impacted teeth K010 Embedded teeth K011 Impacted teeth Impact Imp	5201	Supernumerary teeth	K001	
Disturbances of tooth formation K004	5202	Abnormalities of size and form of teeth	K002	
Hereditary disturbances in tooth structure, not elsewhere classified K006 Disturbances in tooth eruption K01 Embedded and impacted teeth K010 Embedded teeth K011 Impacted teeth K007 K008 Other disorders of tooth development K007 Other specified disorders of tooth K008 Other disorders of tooth development K009 Disorders of tooth development and eruption K009 Disorders of tooth development and eruption K009 Dental caries, unspecified K02 Dental caries, unspecified K029 Dental caries, unspecified K029 Dental caries, unspecified K029 Dental caries, unspecified K0210 Dental caries brinted to ename K0251 Dental caries on pit and fissure surface penetrating into dentin M0251 Dental caries on pit and fissure surface penetrating into dentin Dental caries extending into dentine K0252 Dental caries on pit and fissure surface penetrating into dentin M0253 Dental caries on pit and fissure surface penetrating into dentin K0253 Dental caries on pit and fissure surface penetrating into pulp K0253 Dental caries on smooth surface	5203	Mottled teeth	K003	
not elsewhere classified Note	5204	Disturbances of tooth formation	K004	
Bisturbances in tooth eruption K01	5205		K005	
Disturbances in tooth eruption K010 Embedded teeth			K006	Disturbances in tooth eruption
KO10 Embedded teeth	E206	Disturbances in teeth equation	K01	Embedded and impacted teeth
Teething syndrome Cher specified disorders of tooth development and eruption Cher specified disorder of tooth development and eruption Cher specified disorder of tooth development and eruption Cher diseases of hard tissues of teeth Cher diseases of hard	3206	Disturbances in tooth eruption	K010	Embedded teeth
Other specified disorders of tooth development and eruption K000 Disorders of tooth development and eruption			K011	Impacted teeth
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5220HulpitisK04Diseases of pulp and periapical tissues5220Necrosis of the pulpK040Pulp degenerationK0415221Pulp degenerationK0425223Abnormal hard tissue formation in pulpK0435224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465228Periapical abscess without sinusK0475228Radicular cystK048K049Other and unspecified diseases of pulp and periapical tissuesK0490Unspecified diseases of pulp and periapical tissues	02100	teeth	K0389	
5220PulpitisK040Pulpitis5221Necrosis of the pulpK0415222Pulp degenerationK0425223Abnormal hard tissue formation in pulpK0435224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465225Periapical abscess without sinusK0475228Radicular cystK0485229Other and unspecified diseases of pulp and periapical tissuesK0490Unspecified diseases of pulp and periapical tissues	5219	Unspecified disease of hard tissues of teeth	K039	Disease of hard tissues of teeth, unspecified
5220PulpitisK0401Reversible pulpitis5221Necrosis of the pulpK041K0415222Pulp degenerationK042K0435223Abnormal hard tissue formation in pulpK043K0445224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465225Periapical abscess without sinusK0475228Radicular cystK048K049Other and unspecified diseases of pulp and periapical tissues5229Other and unspecified diseases of pulp and periapical tissues			K04	Diseases of pulp and periapical tissues
K0401Reversible pulpitis5221Necrosis of the pulpK0415222Pulp degenerationK0425223Abnormal hard tissue formation in pulpK0435224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465228Padicular cystK0485229Other and unspecified diseases of pulp and periapical tissuesK04905229Unspecified diseases of pulp and periapical tissues	5220	Pulpitis	K040	Pulpitis
5221Necrosis of the pulpKO415222Pulp degenerationKO425223Abnormal hard tissue formation in pulpKO435224Acute apical periodontitis of pulpal originKO445226Chronic apical periodontitisKO455227Periapical abscess with sinusKO465225Periapical abscess without sinusKO475228Radicular cystKO48KO49Other and unspecified diseases of pulp and periapical tissues5229Other and unspecified diseases of pulp and periapical tissues	3 3	Talpitas	K0401	Reversible pulpitis
5222Pulp degenerationK0425223Abnormal hard tissue formation in pulpK0435224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465225Periapical abscess without sinusK0475228Radicular cystK048K049Other and unspecified diseases of pulp and periapical tissues5229Other and unspecified diseases of pulp and periapical tissues			K0402	Irreversible pulpitis
5223 Abnormal hard tissue formation in pulp 5224 Acute apical periodontitis of pulpal origin 5226 Chronic apical periodontitis 5227 Periapical abscess with sinus 5225 Periapical abscess without sinus 5228 Radicular cyst Chronic apical periodontitis 6046 6047 6048 6048 6049 6049 60490 6049	5221			
5224Acute apical periodontitis of pulpal originK0445226Chronic apical periodontitisK0455227Periapical abscess with sinusK0465225Periapical abscess without sinusK0475228Radicular cystK048K049Other and unspecified diseases of pulp and periapical tissues5229Other and unspecified diseases of pulp and periapical tissues				
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Feriapical abscess with sinus K046 Feriapical abscess without sinus K047 K048 Radicular cyst K049 Other and unspecified diseases of pulp and periapical tissues K049 Unspecified diseases of pulp and periapical tissues				
Feriapical abscess without sinus K047 K048 Radicular cyst K049 Other and unspecified diseases of pulp and periapical tissues K049 K0490 Unspecified diseases of pulp and periapical tissues				
Factor Redicular cyst K048 K049 Other and unspecified diseases of pulp and periapical tissues K049 Unspecified diseases of pulp and periapical tissues				
5229 Other and unspecified diseases of pulp and periapical tissues K049 Other and unspecified diseases of pulp and periapical tissues K049 Unspecified diseases of pulp and periapical tissues				
5229 Other and unspecified diseases of pulp and periapical tissues K049 tissues K0490 Unspecified diseases of pulp and periapical tissues	5228	Radicular cyst	K048	
and periapical tissues K0490 Unspecified diseases of pulp and periapical tissues	5229	Other and unspecified diseases of pulp	K049	tissues
K0499 Other diseases of pulp and periapical tissues				
			K0499	Other diseases of pulp and periapical tissues

Rose	ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
Section Receive Rece			K05	Gingivitis and periodontal diseases
52301 Acute gingivitis, non-plaque induced K051 Acute gingivitis, non-plaque induced 52310 Chronic gingivitis, plaque induced K051 Chronic gingivitis, plaque induced 52311 Chronic gingivitis, non-plaque induced K060 Chronic gingivitis, non-plaque induced 52320 Gingival recession, unspecified K060 Other disorders of gingival and edentulous alveolar ridge 52321 Gingival recession, unspecified K0601 Localized gingival recession, unspecified 52322 Gingival recession, minimal K0601 Localized gingival recession, minimal 52323 Gingival recession, severe K0601 Localized gingival recession, severe 52324 Gingival recession, localized K0601 Gingival recession, severe 52324 Gingival recession, generalized K0602 Gingival recession, unspecified 52325 Gingival recession, generalized K0602 Generalized gingival recession, moderate 52330 Aggressive periodontitis, unspecified K052 Aggressive periodontitis, unspecified 52331 Acute periodontitis, localized K0520 Aggressive periodontitis, localized, sight	52300	Acute gingivitis, plaque induced	K050	Acute gingivitis
52310 Chronic gingivitis, plaque induced Ko51 Chronic gingivitis, plaque induced 52311 Chronic gingivitis, non-plaque induced Ko61 Chronic gingivitis, plaque induced 52310 Chronic gingivitis, non-plaque induced Ko60 Chronic gingivitis, non-plaque induced 52320 Gingival recession, unspecified Ko60 Chronic gingivitis, non-plaque induced 52321 Gingival recession, moderate Ko6010 Localized gingival recession, moderate 52322 Gingival recession, severe Ko6012 Localized gingival recession, severe 52323 Gingival recession, localized Ko601 Gingival recession, severe 52324 Gingival recession, localized Ko602 Gingival recession, unspecified Ko6020 Generalized gingival recession, unspecified Ko6020 Generalized gingival recession, unspecified 52330 Aggressive periodontitis, unspecified Ko621 Generalized gingival recession, severe 52331 Acute periodontitis, unspecified Ko620 Aggressive periodontitis, localized 52332 Aggressive periodontitis, localized Ko621 Aggressive periodontitis, localized, severe </th <th></th> <td></td> <td>K0500</td> <td>Acute gingivitis, plaque induced</td>			K0500	Acute gingivitis, plaque induced
52310 Chronic gingivitis, plaque induced KOS10 Chronic gingivitis, plaque induced 52311 Chronic gingivitis, non-plaque induced KOS11 Chronic gingivitis, non-plaque induced 52320 Gingival recession, unspecified KOS0 Other disorders of gingiva and edentulous alveolar ridge 52321 Gingival recession, unspecified KOS01 Localized gingival recession, unspecified 52322 Gingival recession, moderate KOS012 Localized gingival recession, moderate 52323 Gingival recession, severe KOS013 Localized gingival recession, severe 52324 Gingival recession, localized KOS01 Gingival recession, localized KOS02 Gingival recession, unspecified KOS02 Generalized gingival recession, unspecified 52325 Gingival recession, generalized KOS02 Generalized gingival recession, moderate KOS021 Aggressive periodontitis KOS02 Aggressive periodontitis 52330 Aggressive periodontitis, unspecified KOS2 Aggressive periodontitis, localized KOS211 Aggressive periodontitis, localized KOS21 Aggressive periodontitis, localized, severe KOS213 Aggressive periodontitis, generalized	52301	Acute gingivitis, non-plaque induced	K0501	Acute gingivitis, non-plaque induced
Chronic gingivitis, non-plaque induced K0511 Chronic gingivitis, non-plaque induced K060 Chronic gingivitis, non-plaque induced K0601 Chronic gingivitis, non-plaque induced K0601 Chronic gingivitis, non-plaque induced K06010 Chronic gingivitis, non-plaque induced K06010 Chronic gingivitis, non-plaque induced K06010 Chronic gingivitis, non-plaque induced K06011 Chronic gingivitis, non-plaque induced K06011 Chronic gingivitis, non-plaque induced K06012 Chronic gingivitis recession, moderate K06012 Chronic periodontitis, non-plaque induced K06012 Chronic periodontitis, non-plaque induced K06020 Chronic periodontitis, non-plaque induced K06020 Chronic periodontitis, non-plaque induced K06021 Chronic periodontitis, non-plaque induced K06021 Chronic periodontitis, non-plaque induced K06021 Chronic periodontitis, non-plaque induced K06211 Aggressive periodontitis, non-plaque K06211 Aggressive periodontitis, non-plaque K06211 Aggressive periodontitis, non-plaque K06211 Aggressive periodontitis, localized, severe K06211 Aggressive periodontitis, localized, severe K06211 Aggressive periodontitis, localized, non-plaque K06211 Aggressive periodontitis, localized, severe K06211 Aggressive periodontitis, localized, severe K06211 Aggressive periodontitis, generalized, unspecified severity K06221 Aggressive periodontitis, generalized, slight K06221 Aggressive periodontitis, generalized, slight K06221 Aggressive periodontitis, generalized, unspecified K06221 Aggressive periodontitis, generalized, severe K06221 Aggressive periodontitis, generalized,	52310	Chronic gingivitis plague induced	K051	Chronic gingivitis
52320 Gingival rocession, unspecified K06 Other disorders of gingival and edentulous alveolar ridge 52321 Gingival rocession, minimal K06010 Localized gingival recession, unspecified 52322 Gingival recession, moderate K06011 Localized gingival recession, moderate 52323 Gingival recession, severe K06012 Localized gingival recession, moderate 52324 Gingival recession, localized K0601 Gingival recession, coalized 52324 Gingival recession, localized K0602 Generalized gingival recession, unspecified 52325 Gingival recession, generalized K0602 Generalized gingival recession, unspecified 52326 Gingival recession, generalized K0602 Generalized gingival recession, unspecified 52326 Gingival recession, generalized K0602 Generalized gingival recession, unspecified 52330 Aggressive periodontitis, unspecified K06022 Generalized gingival recession, unspecified 52331 Acute periodontitis, unspecified K052 Aggressive periodontitis, localized, sught 52332 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, unspecified severity 523	32310	Chronic gingivitis, piaque muuceu	K0510	Chronic gingivitis, plaque induced
52320 Gingival recession, unspecified K060 Gingival recession, unspecified 52321 Gingival recession, minimal K06010 Localized gingival recession, unspecified 52321 Gingival recession, moderate K06011 Localized gingival recession, moderate 52322 Gingival recession, severe K06012 Localized gingival recession, nevere 52324 Gingival recession, localized K0601 Gingival recession, localized 52324 Gingival recession, localized K0602 Gingival recession, generalized 52325 Gingival recession, generalized K06020 Generalized gingival recession, unspecified 52326 Gingival recession, generalized K06021 Generalized gingival recession, unspecified 52326 Gingival recession, generalized K06021 Generalized gingival recession, unspecified 52326 Gingival recession, generalized K06021 Generalized gingival recession, unspecified 52330 Aggressive periodontitis, unspecified K0522 Aggressive periodontitis 52331 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, sight 52332 Aggressive periodontitis, generalized K0521 <th>52311</th> <td>Chronic gingivitis, non-plaque induced</td> <td>K0511</td> <td>Chronic gingivitis, non-plaque induced</td>	52311	Chronic gingivitis, non-plaque induced	K0511	Chronic gingivitis, non-plaque induced
52321 Gingival recession, minimal K06010 Localized gingival recession, unspecified 52322 Gingival recession, moderate K06012 Localized gingival recession, moderate 52323 Gingival recession, severe K06013 Localized gingival recession, severe 52324 Gingival recession, localized K0601 Gingival recession, localized 52324 Gingival recession, generalized K0602 Gingival recession, generalized 52325 Gingival recession, generalized K0602 Generalized gingival recession, unspecified 52330 Aggressive periodontitis, unspecified K0602 Generalized gingival recession, moderate 52331 Acute periodontitis K0602 Generalized gingival recession, unspecified 52332 Aggressive periodontitis, unspecified K0602 Generalized gingival recession, unspecified 52333 Acute periodontitis, unspecified K0520 Aggressive periodontitis, unspecified 52331 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, slight 52332 Aggressive periodontitis, generalized K0521 Aggressive periodontitis, generalized, slight			K06	Other disorders of gingiva and edentulous alveolar ridge
52321 Gingival recession, minimal K06011 Localized gingival recession, moderate 52322 Gingival recession, severe K06012 Localized gingival recession, moderate 52323 Gingival recession, severe K06013 Localized gingival recession, severe 52324 Gingival recession, localized K0602 Gingival recession, generalized K0602 Generalized gingival recession, unspecified K06020 Generalized gingival recession, moderate 52325 Gingival recession, generalized K06021 Generalized gingival recession, moderate K0602 Generalized gingival recession, moderate K06023 Generalized gingival recession, moderate 52330 Aggressive periodontitis, unspecified K0520 Aggressive periodontitis 52331 Acute periodontitis K0520 Aggressive periodontitis, localized K05213 Aggressive periodontitis, localized, severe K05213 Aggressive periodontitis, localized, moderate 52332 Aggressive periodontitis, generalized, severe K05219 Aggressive periodontitis, generalized, severe K05233 Aggressive periodontitis, generalized, severe K05212 Aggressive periodontitis, generalized, severe 52332 <th< th=""><th>52320</th><td>Gingival recession, unspecified</td><td>K060</td><td>Gingival recession</td></th<>	52320	Gingival recession, unspecified	K060	Gingival recession
52322 Gingival recession, moderate K06012 Localized gingival recession, moderate 52323 Gingival recession, severe K06013 Localized gingival recession, severe 52324 Gingival recession, localized K0601 Gingival recession, localized K0602 Gingival recession, generalized K06020 Generalized gingival recession, unspecified 52325 Gingival recession, generalized K06021 Generalized gingival recession, moderate K06022 Generalized gingival recession, moderate K06022 Generalized gingival recession, moderate 52330 Aggressive periodontitis, unspecified K052 Aggressive periodontitis 52331 Acute periodontitis K0520 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, slight 52331 Aggressive periodontitis, localized, moderate K0521 Aggressive periodontitis, localized, moderate K0523 Aggressive periodontitis, generalized K0522 Aggressive periodontitis, generalized, severe 52332 Aggressive periodontitis, generalized, severe K05221 Aggressive periodontitis, generalized, severe 52333 Aggressive periodontitis, generalized, unspecified K05222			K06010	Localized gingival recession, unspecified
52323 Gingival recession, severe K06013 Localized gingival recession, localized 52324 Gingival recession, localized K0601 Gingival recession, generalized K0602 Ceneralized gingival recession, unspecified 52325 Gingival recession, generalized K06020 Generalized gingival recession, moderate K06022 Generalized gingival recession, moderate K06022 Generalized gingival recession, moderate K06023 Generalized gingival recession, severe 52330 Aggressive periodontitis, unspecified K052 Aggressive periodontitis 52331 Acute periodontitis K0520 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, slight K05213 Aggressive periodontitis, localized, moderate K05214 Aggressive periodontitis, localized, unspecified severity K05221 Aggressive periodontitis, generalized, severe K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, moderate K05224 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, unspecified K0530 Chronic period	52321	Gingival recession, minimal	K06011	Localized gingival recession, minimal
52324 Gingival recession, localized K0601 Gingival recession, generalized K0602 Gingival recession, generalized K06020 Generalized gingival recession, unspecified 52325 Gingival recession, generalized K06021 Generalized gingival recession, moderate K06023 Generalized gingival recession, moderate K06023 Generalized gingival recession, severe 52330 Aggressive periodontitis, unspecified K0520 Aggressive periodontitis, unspecified K0521 Aggressive periodontitis, localized K05214 Aggressive periodontitis, localized, slight 52331 Aggressive periodontitis, localized K05212 Aggressive periodontitis, localized, moderate K0523 Aggressive periodontitis, localized, severe K05213 Aggressive periodontitis, localized, unspecified severity K0524 Aggressive periodontitis, generalized K05224 Aggressive periodontitis, generalized, slight K05230 Aggressive periodontitis, generalized, woderate K05224 Aggressive periodontitis, generalized, woderate K05234 Aggressive periodontitis, generalized, woderate K05224 Aggressive periodontitis, generalized, woderate K05230 Aggressive periodontitis, generalized, woderate K05230 <th>52322</th> <td>Gingival recession, moderate</td> <td>K06012</td> <td>Localized gingival recession, moderate</td>	52322	Gingival recession, moderate	K06012	Localized gingival recession, moderate
52325 Gingival recession, generalized K06020 Generalized gingival recession, unspecified 52325 Gingival recession, generalized K06021 Generalized gingival recession, moderate K06022 Generalized gingival recession, moderate K06023 Generalized gingival recession, severe 52330 Aggressive periodontitis, unspecified K052 Aggressive periodontitis, unspecified K0521 Aggressive periodontitis, localized K0521 Aggressive periodontitis, localized, slight 52331 Aggressive periodontitis, localized K05212 Aggressive periodontitis, localized, moderate K05213 Aggressive periodontitis, localized, severe K05219 Aggressive periodontitis, generalized K05214 Aggressive periodontitis, generalized K05221 Aggressive periodontitis, generalized, severe K05221 Aggressive periodontitis, generalized, severe K05222 Aggressive periodontitis, generalized, severe K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, unspecified severity K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, localized	52323	Gingival recession, severe	K06013	Localized gingival recession, severe
Figure F	52324	Gingival recession, localized	K0601	Gingival recession, localized
52325Gingival recession, generalizedK06021Generalized gingival recession, minimal K06022Generalized gingival recession, moderate K0602352330Aggressive periodontitis, unspecifiedK052Aggressive periodontitis52333Acute periodontitisK0520Aggressive periodontitis, unspecifiedK0521Aggressive periodontitis, localizedK05211Aggressive periodontitis, localized, slightK05212Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, localized, unspecified severityK05210Aggressive periodontitis, generalizedK05211Aggressive periodontitis, generalizedK05212Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalized, moderateK05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, severeK05223Aggressive periodontitis, generalized, severeK05224Aggressive periodontitis, generalized, severeK05225Aggressive periodontitis, generalized, severeK05226Aggressive periodontitis, generalized, severeK0523Aggressive periodontitis, generalized, unspecifiedK0530Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecified			K0602	Gingival recession, generalized
K06022Generalized gingival recession, moderateK06023Generalized gingival recession, severe52330Aggressive periodontitis, unspecifiedK052Aggressive periodontitis, unspecifiedK052333Acute periodontitisK0520Aggressive periodontitis, localizedK05211Aggressive periodontitis, localized, slightK05212Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, localized, unspecified severityK05221Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalizedK05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, moderateK05229Aggressive periodontitis, generalized, severeK05229Aggressive periodontitis, generalized, unspecified severityK0530Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecified			K06020	Generalized gingival recession, unspecified
52330Aggressive periodontitis, unspecifiedK06023Generalized gingival recession, severe52330Aggressive periodontitis, unspecifiedK0520Aggressive periodontitis, unspecified52333Acute periodontitisK0520Aggressive periodontitis, unspecifiedK0521Aggressive periodontitis, localized, slight52331Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, moderateK05219Aggressive periodontitis, localized, unspecified severityK05221Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalized, moderateK05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, severeK05229Aggressive periodontitis, generalized, unspecified severityS2340Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized	52325	Gingival recession, generalized	K06021	Generalized gingival recession, minimal
52330Aggressive periodontitis, unspecifiedK052Aggressive periodontitis52333Acute periodontitisK0520Aggressive periodontitis, unspecifiedK0521Aggressive periodontitis, localizedK05211Aggressive periodontitis, localized, slight52331Aggressive periodontitis, localized, moderateK05212Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, localized, unspecified severityK05221Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalized, slightK05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, severeK05229Aggressive periodontitis, generalized, unspecified severityK05229Aggressive periodontitis, generalized, unspecified severityK0530Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized			K06022	Generalized gingival recession, moderate
52333Acute periodontitisK0520Aggressive periodontitis, unspecified52331Aggressive periodontitis, localizedK05211Aggressive periodontitis, localized, slight52331Aggressive periodontitis, localizedK05212Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, generalized, unspecified severityK05221Aggressive periodontitis, generalized, slightK05221Aggressive periodontitis, generalized, slightK05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, severeK05229Aggressive periodontitis, generalized, unspecified severity52340Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized			K06023	Generalized gingival recession, severe
52331K0521Aggressive periodontitis, localized52331Aggressive periodontitis, localizedK05212Aggressive periodontitis, localized, moderate52331Aggressive periodontitis, localized, sight52331Aggressive periodontitis, localized, moderateK05213K0521Aggressive periodontitis, generalized, unspecified severityK05221Aggressive periodontitis, generalized, slightK05222K05223Aggressive periodontitis, generalized, moderateK05223K05223Aggressive periodontitis, generalized, severeK05229K05229Aggressive periodontitis, generalized, severeK0530Chronic periodontitis, unspecifiedK0530K0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized	52330	Aggressive periodontitis, unspecified	K052	Aggressive periodontitis
52331Aggressive periodontitis, localized, slightAggressive periodontitis, localized, slight52331Aggressive periodontitis, localized, moderateK05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, generalized, unspecified severity52332Aggressive periodontitis, generalizedK0522Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, moderateK05229Aggressive periodontitis, generalized, severeK053Chronic periodontitis, generalizedK0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, unspecified	52333	Acute periodontitis	K0520	Aggressive periodontitis, unspecified
F2331 Aggressive periodontitis, localized K05212 Aggressive periodontitis, localized, moderate K05213 Aggressive periodontitis, localized, severe K05219 Aggressive periodontitis, localized, unspecified severity K0522 Aggressive periodontitis, generalized K05221 Aggressive periodontitis, generalized, slight K05221 Aggressive periodontitis, generalized, slight K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe K05229 Unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0530 Chronic periodontitis, unspecified		Aggressive periodontitis, localized	K0521	Aggressive periodontitis, localized
52340K05213Aggressive periodontitis, localized, severeK05219Aggressive periodontitis, localized, unspecified severityK0522Aggressive periodontitis, generalizedK05221Aggressive periodontitis, generalized, slightK05222K05222Aggressive periodontitis, generalized, moderateK05223Aggressive periodontitis, generalized, severeK05229Aggressive periodontitis, generalized, unspecified severity52340Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecifiedK0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized			K05211	Aggressive periodontitis, localized, slight
K05219 Aggressive periodontitis, localized, unspecified severity K0522 Aggressive periodontitis, generalized K05221 Aggressive periodontitis, generalized, slight K05222 Aggressive periodontitis, generalized, slight K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, unspecified severity K0530 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, localized	52331		K05212	Aggressive periodontitis, localized, moderate
K0522 Aggressive periodontitis, generalized K05221 Aggressive periodontitis, generalized, slight K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, localized				Aggressive periodontitis, localized, severe
K05221 Aggressive periodontitis, generalized, slight K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe K05229 Chronic periodontitis, unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified			K05219	Aggressive periodontitis, localized, unspecified severity
Aggressive periodontitis, generalized K05222 Aggressive periodontitis, generalized, moderate K05223 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, severe Aggressive periodontitis, generalized, unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified				
K05223 Aggressive periodontitis, generalized K05229 Aggressive periodontitis, generalized, severe K05229 Aggressive periodontitis, generalized, unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified				
K05229 Aggressive periodontitis, generalized, unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified	52332	Aggressive periodontitis, generalized		
K05229 unspecified severity K053 Chronic periodontitis K0530 Chronic periodontitis, unspecified K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified			K05223	
Chronic periodontitis, unspecified K0530 Chronic periodontitis, unspecified K0531 Chronic periodontitis, unspecified			K05229	
K0530Chronic periodontitis, unspecifiedK0531Chronic periodontitis, localized	52340	Chronic periodontitis unspecified	K053	Chronic periodontitis
	02070	отполно реподопина, инареспией	K0530	Chronic periodontitis, unspecified
K05311 Chronic periodontitis localized slight			K0531	Chronic periodontitis, localized
Chrome periodoritus, localized, siigrit			K05311	Chronic periodontitis, localized, slight
52341 Chronic periodontitis, localized K05312 Chronic periodontitis, localized, moderate	52341	Chronic periodontitis, localized	K05312	Chronic periodontitis, localized, moderate
K05313 Chronic periodontitis, localized, severe			K05313	Chronic periodontitis, localized, severe
K05319 Chronic periodontitis, localized, unspecified severity			K05319	Chronic periodontitis, localized, unspecified severity

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
		K0532	Chronic periodontitis, generalized
		K05321	Chronic periodontitis, generalized, slight
52342	Chronic periodontitis, generalized	K05322	Chronic periodontitis, generalized, moderate
		K05323	Chronic periodontitis, generalized, severe
		K05329	Chronic periodontitis, generalized, unspecified severity
5235	Periodontosis	K054	
0200	1 onodonicolo	K0540	
5236	Accretions on teeth	K036	Deposits [accretions] on teeth
		K055	Other periodontal diseases
		K061	Gingival enlargement
5238	Other specified periodontal diseases	K063	Horizontal alveolar bone loss
		K068	Other specified disorders of gingiva and edentulous alveolar ridge
		K056	Periodontal disease, unspecified
5239	Unspecified gingival and periodontal disease	K069	Disorder of gingiva and edentulous alveolar ridge, unspecified
		M26	Dentofacial anomalies [including malocclusion]
52400	Major anomalies of jaw size, unspecified anomaly	M260	Major anomalies of jaw size
	drispecified arternary	M2600	Unspecified anomaly of jaw size
52401	Major anomalies of jaw size, maxillary hyperplasia	M2601	Maxillary hyperplasia
52402	Major anomalies of jaw size, mandibular hyperplasia	M2603	Mandibular hyperplasia
52403	Major anomalies of jaw size, maxillary hypoplasia	M2602	Maxillary hypoplasia
52404	Major anomalies of jaw size, mandibular hypoplasia	M2604	Mandibular hypoplasia
52405	Major anomalies of jaw size, macrogenia	M2605	Macrogenia
52406	Major anomalies of jaw size, microgenia	M2606	Microgenia
52407	Excessive tuberosity of jaw	M2607	Excessive tuberosity of jaw
52409	Major anomalies of jaw size, other specified anomaly	M2609	Other specified anomalies of jaw size
E2/10	Anomalies of relationship of jaw to cranial	M261	Anomalies of jaw-cranial base relationship
52410	base, unspecified anomaly	M2610	Unspecified anomaly of jaw-cranial base relationship
52411	Anomalies of relationship of jaw to cranial base, maxillary asymmetry	M2611	Maxillary asymmetry
52412	Anomalies of relationship of jaw to cranial base, other jaw asymmetry	M2612	Other jaw asymmetry
52419	Anomalies of relationship of jaw to cranial base, other specified anomaly	M2619	Other specified anomalies of jaw-cranial base relationship
52419 52420		M2619 M262	Other specified anomalies of jaw-cranial base relationship Anomalies of dental arch relationship

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
		M2621	Malocclusion, Angle's class
52421	Malocclusion, Angle's class I	M26219	Malocclusion, Angle's class unspecified
		M26211	Malocclusion, Angle's class I
52422	Malocclusion, Angle's class II	M26212	
52423	Malocclusion, Angle's class III	M26213	
52424	Open anterior occlusal relationship	M2622	Open occlusal relationship
	open antener coolaca relationering	M26220	Open anterior occlusal relationship
52425	Open posterior occlusal relationship	M26221	Open posterior occlusal relationship
52426	Excessive horizontal overlap	M2623	
52427	Reverse articulation	M2624	
52428	Anomalies of interarch distance	M2625	Anomalies of interarch distance
52429	Other anomalies of dental arch relationship	M2629	Other anomalies of dental arch relationship
52430	Unspecified anomaly of tooth position of fully	M263	Anomalies of tooth position of fully erupted tooth or teeth
02.00	erupted teeth	M2630	Unspecified anomaly of tooth position of fully erupted tooth/teeth
52431	Crowding of teeth	M2631	Crowding of fully erupted teeth
52432	Excessive spacing of teeth	M2632	Excessive spacing of fully erupted teeth
52433	Horizontal displacement of teeth	M2633	Horizontal displacement of fully erupted tooth or teeth
52434	Vertical displacement of teeth	M2634	Vertical displacement of fully erupted tooth or teeth
52435	Rotation of tooth/teeth	M2635	Rotation of fully erupted tooth or teeth
52436	Insufficient interocclusal distance of teeth (ridge)	M2636	Insufficient interocclusal distance of fully erupted teeth
52437	Excessive interocclusal distance of teeth	M2637	Excessive interocclusal distance of fully erupted teeth
52439	Other anomalies of tooth position	M2639	Other anomalies of tooth position of fully erupted tooth/ teeth
5244	Malocclusion, unspecified	M264	Malocclusion, unspecified
52450	Dentofacial functional abnormality,	M265	Dentofacial functional abnormalities
J24JU	unspecified	M2650	Dentofacial function abnormalities, unspecified
52451	Abnormal jaw closure	M2651	Abnormal jaw closure
52452	Limited mandibular range of motion	M2652	Limited mandibular range of motion
52453	Deviation in opening and closing of the mandible	M2653	Deviation in opening and closing of the mandible
52454	Insufficient anterior guidance	M2654	Insufficient anterior guidance
52455	Centric occlusion maximum intercuspation discrepancy	M2655	Centric occlusion maximum intercuspation discrepancy
52456	Non-working side interference	M2656	Non-working side interference
52457	Lack of posterior occlusal support	M2657	Lack of posterior occlusal support
52459	Other dentofacial functional abnormalities	M2659	Other dentofacial functional abnormalities

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
		M266	Temporomandibular joint disorders
		M2660	Temporomandibular joint disorder, unspecified
52460	Temporomandibular joint disorders,	M26601	Right temporomandibular joint disorder, unspecified
32400	unspecified	M26602	Left temporomandibular joint disorder, unspecified
		M26603	Bilateral temporomandibular joint disorder, unspecified
		M26609	Unspecified TMJ joint disorder, unspecified side
		M2661	Adhesions and ankylosis of temporomandibular joint
		M26611	Adhesions and ankylosis of right temporomandibular joint
52461	Temporomandibular joint disorders, adhesions and ankylosis (bony or fibrous)	M26612	Adhesions and ankylosis of left temporomandibular joint
		M26613	Adhesions and ankylosis of bilateral temporomandibular joint
		M26619	Adhesions and ankylosis of TMJ joint, unspecified side
		M2662	Arthralgia of temporomandibular joint
	-	M26621	Arthralgia of right temporomandibular joint
52462	Temporomandibular joint disorders, arthralgia of temporomandibular joint	M26622	Arthralgia of left temporomandibular joint
	artinargia or temperemanarbatar jeme	M26623	Arthralgia of bilateral temporomandibular joint
		M26629	Arthralgia of temporomandibular joint, unspecified side
		M2663	Articular disc disorder of temporomandibular joint
		M26631	Articular disc disorder of right temporomandibular joint
52463	Temporomandibular joint disorders, articular disc disorder (reducing or non-reducing)	M26632	Articular disc disorder of left temporomandibular joint
		M26633	Articular disc disorder of bilateral temporomandibular joint
		M26639	Articular disc disorder of TMJ joint, unspecified side
52464	Temporomandibular joint sounds on opening and/or closing the jaw	M2669	Other specified disorders of temporomandibular joint
52469	Other specified temporomandibular joint disorders	1412000	Other specified disorders of temperomandibular joint
52470	Dental alveolar anomalies, unspecified	M267	Dental alveolar anomalies
32 4 70	alveolar anomaly	M2670	Unspecified alveolar anomaly
52471	Alveolar maxillary hyperplasia	M2671	
52472	Alveolar mandibular hyperplasia	M2672	
52473	Alveolar maxillary hypoplasia	M2673	
52474	Alveolar mandibular hypoplasia	M2674	
52475	Vertical displacement of alveolus and teeth		
52476	Occlusal plane deviation	M2679	Other specified alveolar anomalies
52479	Other specified alveolar anomaly		
52481	Anterior soft tissue impingement	M2681	
52482	Posterior soft tissue impingement	M2682	
52489	Other specified dentofacial anomalies	M268	Other dentofacial anomalies
		M2689	Other dentofacial anomalies
5249	Unspecified dentofacial anomalies	M269	Dentofacial anomaly, unspecified

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
5250	Exfoliation of teeth due to systemic causes	K080	Exfoliation of teeth due to systemic causes
52510	Acquired absence of teeth, unspecified	K08109	Complete loss of teeth, unspecified cause, unspecified class
		K0812	Complete loss of teeth due to periodontal diseases
		K08121	Complete loss of teeth due to periodontal disease, class I
		K08122	Complete loss of teeth due to periodontal disease, class II
		K08123	Complete loss of teeth due to periodontal disease, class III
		K08124	Complete loss of teeth due to periodontal disease, class IV
52512	Loss of teeth due to periodontal disease	K08129	Complete loss of teeth due to periodontal disease, unspecified class
		K0842	Partial loss of teeth due to periodontal diseases
		K08421	Partial loss of teeth due to periodontal diseases, class I
		K08422	Partial loss of teeth due to periodontal diseases, class II
		K08423	Partial loss of teeth due to periodontal diseases, class III
		K08424	Partial loss of teeth due to periodontal diseases, class IV
		K08429	Partial loss of teeth due to periodontal disease, unspecified class
		K0813	Complete loss of teeth due to caries
		K08131	Complete loss of teeth due to caries, class I
		K08132	Complete loss of teeth due to caries, class II
		K08133	Complete loss of teeth due to caries, class III
		K08134	Complete loss of teeth due to caries, class IV
52513	Loss of teeth due to caries	K08139	Complete loss of teeth due to caries, unspecified class
02010	Loss of teeth due to caries	K0843	Partial loss of teeth due to caries
		K08431	Partial loss of teeth due to caries, class I
		K08432	Partial loss of teeth due to caries, class II
		K08433	Partial loss of teeth due to caries, class II
		K08434	Partial loss of teeth due to caries, class III
		K08439	Partial loss of teeth due to caries, unspecified class
		K0819	Complete loss of teeth due to other specified cause
		K08191	Complete loss of teeth due to other specified cause, class I
52519	Other loss of teeth	K08192	Complete loss of teeth due to other specified cause, class II
		K08193	Complete loss of teeth due to other specified cause, class III
		K08194	Complete loss of teeth due to other specified cause, class IV
		K08199	Complete loss of teeth due to other specified cause, unspecified class
		K0849	Partial loss of teeth due to other specified cause
		K08491	Partial loss of teeth due to other specified cause, class I

	ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
No.			K08492	Partial loss of teeth due to other specified cause, class II
Section Complete dentulus alveolar rindge Complete dentulous alveolar rindge Complete loss of teeth Complete los			K08493	Partial loss of teeth due to other specified cause, class III
Partial edentulism, class II			K08494	Partial loss of teeth due to other specified cause, class IV
ridge K0820 Unspecified atrophy of edentulous alveolar ridge			K08499	Partial loss of teeth due to other cause, unspecified class
Fig. 1. In the second s	E2E20	Unspecified atrophy of edentulous alveolar	K082	Atrophy of edentulous alveolar ridge
52522 Moderate atrophy of the mandible K0823 52524 Minimal atrophy of the mandible K0824 52525 Moderate atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0825 5253 Rotained dental root K083 52540 Complete edentulism, class I K0810 Complete loss of teeth, unspecified cause, class I 52541 Complete edentulism, class II K08102 Complete loss of teeth, unspecified cause, class II 52542 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class III 52544 Complete edentulism, class III K08400 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, class II K08401 Partial loss of teeth, unspecified, class I 52551 Partial edentulism, class II K08402 Partial loss of teeth, unspecified, class II 52552 Partial edentulism, class II K08403	32320	ridge	K0820	Unspecified atrophy of edentulous alveolar ridge
52523 Severe atrophy of the mandible K0824 52524 Minimal atrophy of the maxilla K0824 52526 Moderate atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0825 5253 Retained dental root K083 52540 Complete edentulism, unspecified K0810 Complete loss of teeth, unspecified cause 52541 Complete edentulism, class I K08101 Complete loss of teeth, unspecified cause, class II 52542 Complete edentulism, class II K08103 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class II 52544 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class II 52540 Partial edentulism, class II K0840 Partial loss of teeth, unspecified cause, unspecified class 52550 Partial edentulism, class II K08401 Partial loss of teeth, unspecified, class II 52551 Partial edentulism, class III K08402 Partial loss of teeth, unspecified, class II 52552 Partial	52521	Minimal atrophy of the mandible	K0821	
52524 Minimal atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0826 52526 Severe atrophy of the maxilla K0826 5253 Retained dental root K083 52540 Complete edentulism, unspecified K0810 Complete loss of teeth, unspecified cause 52541 Complete edentulism, class I K08101 Complete loss of teeth, unspecified cause, class I 52542 Complete edentulism, class II K08102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class II K08103 Complete loss of teeth, unspecified cause, class III 52544 Complete edentulism, class II K0840 Partial loss of teeth, unspecified cause, class IV 52549 Partial edentulism, unspecified K0840 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, class II K0840 Partial loss of teeth, unspecified, class I 52551 Partial edentulism, class II K08401 Partial loss of teeth, unspecified, class II 52552 Partial edentulism, class II K08402 Partial loss of teeth, unspecified, class II 52553 Partial edentulism, class II K08403<	52522	Moderate atrophy of the mandible	K0822	
52525 Moderate atrophy of the maxilla K0825 52526 Severe atrophy of the maxilla K0826 5253 Retained dental root K083 52540 Complete deentulism, unspecified K081 Complete loss of teeth, unspecified cause 52541 Complete edentulism, class I K0810 Complete loss of teeth, unspecified cause, class II 52542 Complete edentulism, class II K08102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class II K08104 Complete loss of teeth, unspecified cause, class II 52544 Complete edentulism, class II K08104 Partial loss of teeth, unspecified cause, class II 52549 Partial edentulism, class IV K0840 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, class II K0840 Partial loss of teeth, unspecified, class I 52551 Partial edentulism, class II K0840 Partial loss of teeth, unspecified, class II 52552 Partial edentulism, class II K0840 Partial loss of teeth, unspecified, class II 52554 Partial edentulism, class II K0840 Partial l	52523	Severe atrophy of the mandible	K0823	
52526 Severe atrophy of the maxilla K0826 5253 Retained dental root K083 52540 Complete edentulism, unspecified K081 Complete loss of teeth, unspecified cause 52541 Complete edentulism, class I K0810 Complete loss of teeth, unspecified cause, class I 52542 Complete edentulism, class III K08102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class II 52544 Complete edentulism, class IV K08103 Complete loss of teeth, unspecified cause, class IIV 52544 Partial edentulism, class IV K0840 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, class II K0840 Partial loss of teeth, unspecified, class I 52551 Partial edentulism, class II K08401 Partial loss of teeth, unspecified, class II 52552 Partial edentulism, class III K08402 Partial loss of teeth, unspecified, class II 52553 Partial edentulism, class II K08403 Partial loss of teeth, unspecified, class II 52560 Unspecified	52524	Minimal atrophy of the maxilla	K0824	
5253 Retained dental root KO83 52540 Complete edentulism, unspecified KO81 Complete loss of teeth, unspecified cause 52541 Complete edentulism, class I KO8101 Complete loss of teeth, unspecified cause, class I 52542 Complete edentulism, class II KO8102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III KO8103 Complete loss of teeth, unspecified cause, class III 52544 Complete edentulism, class IV KO8104 Complete loss of teeth, unspecified cause, class IV 52554 Partial edentulism, class IV KO840 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, class I KO8400 Partial loss of teeth, unspecified cause, unspecified class IV 52551 Partial edentulism, class II KO8401 Partial loss of teeth, unspecified, class II 52552 Partial edentulism, class II KO8402 Partial loss of teeth, unspecified, class II 52553 Partial edentulism, class IV KO8404 Partial loss of teeth, unspecified, class II 52564 Partial edentulism, class IV KO8402 Partial loss of teeth, unspecified,	52525	Moderate atrophy of the maxilla	K0825	
52540Complete edentulism, unspecifiedK081Complete loss of teeth, unspecified cause52541Complete edentulism, class IK08101Complete loss of teeth, unspecified cause, class I52542Complete edentulism, class IIK08102Complete loss of teeth, unspecified cause, class II52543Complete edentulism, class IIIK08103Complete loss of teeth, unspecified cause, class III52544Complete edentulism, class IVK08104Complete loss of teeth, unspecified cause, class IV52550Partial edentulism, unspecifiedK0840Partial loss of teeth, unspecified cause, class IV52551Partial edentulism, class IK08401Partial loss of teeth, unspecified cause, unspecified class52552Partial edentulism, class IIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IVK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class II52556Unspecified unsatisfactory restoration of toothK0850Partial loss of teeth, unspecified, class II52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Partial edentulism, class IVK085252563Partial edentulism, class IVK085352564Fractured dental restorative material with loss of materialK08530Fractured dental restorative material withou	52526	Severe atrophy of the maxilla	K0826	
Complete edentulism, unspecified Ko810 Complete loss of teeth, unspecified cause	5253	Retained dental root	K083	
52541 Complete edentulism, class I K0810 Complete loss of teeth, unspecified cause, class I 52542 Complete edentulism, class II K08102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class III 52544 Complete edentulism, class IV K08104 Complete loss of teeth, unspecified cause, class IV 52550 Partial edentulism, unspecified K0840 Partial loss of teeth, unspecified cause, class IV 52551 Partial edentulism, class I K08409 Partial loss of teeth, unspecified cause, unspecified class 52552 Partial edentulism, class II K08401 Partial loss of teeth, unspecified, class I 52552 Partial edentulism, class II K08402 Partial loss of teeth, unspecified, class II 52553 Partial edentulism, class III K08403 Partial loss of teeth, unspecified, class IV 52554 Partial edentulism, class III K08404 Partial loss of teeth, unspecified, class IV 52560 Unspecified unsatisfactory restoration of tooth, unspecified, class IV K0850 Unsatisfactory restoration margins of tooth 52561	E2E40	Complete adentulism unspecified	K081	Complete loss of teeth
52542 Complete edentulism, class II K08102 Complete loss of teeth, unspecified cause, class II 52543 Complete edentulism, class III K08103 Complete loss of teeth, unspecified cause, class III 52544 Complete edentulism, class IV K084 Partial loss of teeth, unspecified cause, class IV 52550 Partial edentulism, unspecified K0840 Partial loss of teeth, unspecified cause 52551 Partial edentulism, class I K08401 Partial loss of teeth, unspecified, class I 52552 Partial edentulism, class II K08402 Partial loss of teeth, unspecified, class II 52553 Partial edentulism, class III K08403 Partial loss of teeth, unspecified, class II 52554 Partial edentulism, class IV K08404 Partial loss of teeth, unspecified, class IV 52560 Unspecified unsatisfactory restoration of tooth tooth K0850 Unsatisfactory restoration of tooth, unspecified tooth 52561 Open restoration margins K0851 Open restoration margins of tooth 52562 Unrepairable overhanging of dental restorative material without loss of material K0853 Fractured dental restorative material without loss of material 52564 Fractured dental restorative material with oral health biolog	32340	Complete edentulism, unspecified	K0810	Complete loss of teeth, unspecified cause
52543Complete edentulism, class IIIK08103Complete loss of teeth, unspecified cause, class IV52544Complete edentulism, class IVK08104Complete loss of teeth, unspecified cause, class IV52550Partial edentulism, unspecifiedK0840Partial loss of teeth, unspecified cause52550Partial edentulism, class IK08409Partial loss of teeth, unspecified cause, unspecified class I52551Partial edentulism, class IIK08401Partial loss of teeth, unspecified, class I52552Partial edentulism, class IIIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative material without loss of materialK0852Fractured dental restorative material without loss of material52563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Contour of existing restoration of tooth biologically incompatible with oral healthK0854Fractured dental restorative material without health52566Allergy to existing dental restorative materialK0854	52541	Complete edentulism, class I	K08101	Complete loss of teeth, unspecified cause, class I
52544Complete edentulism, class IVK08104Complete loss of teeth, unspecified cause, class IV52550Partial edentulism, unspecifiedK0840Partial loss of teeth, unspecified cause52550Partial edentulism, class IK08409Partial loss of teeth, unspecified cause, unspecified class52551Partial edentulism, class IK08401Partial loss of teeth, unspecified, class I52552Partial edentulism, class IIIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IVK08403Partial loss of teeth, unspecified, class IV52564Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK0852Fractured dental restorative material52563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK085452565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52542	Complete edentulism, class II	K08102	Complete loss of teeth, unspecified cause, class II
52550Partial edentulism, unspecifiedK0840Partial loss of teeth, unspecified cause52551Partial edentulism, class IK08409Partial loss of teeth, unspecified cause, unspecified class I52552Partial edentulism, class IIK08401Partial loss of teeth, unspecified, class I52553Partial edentulism, class IIIK08402Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of tooth toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK0852Fractured dental restorative material52563Fractured dental restorative material without loss of materialFractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK08530Fractured dental restorative material without loss of material52565Contour of existing restoration of tooth biologically incompatible with oral healthK0854K085452566Allergy to existing dental restorative materialK0855	52543	Complete edentulism, class III	K08103	Complete loss of teeth, unspecified cause, class III
52550Partial edentulism, unspecifiedK0840Partial loss of teeth, unspecified cause52551Partial edentulism, class IK08401Partial loss of teeth, unspecified, class I52552Partial edentulism, class IIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK0852Fractured dental restorative material52563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK085452565Contour of existing restoration of tooth biologically incompatible with oral healthK0855	52544	Complete edentulism, class IV	K08104	Complete loss of teeth, unspecified cause, class IV
52551Partial edentulism, class IK08409Partial loss of teeth, unspecified cause, unspecified class I52552Partial edentulism, class IIK08401Partial loss of teeth, unspecified, class I52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK0852Fractured dental restorative material52563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Fractured dental restorative material with oral healthK085452565Contour of existing restoration of tooth biologically incompatible with oral healthK0855			K084	Partial loss of teeth
52551Partial edentulism, class IK08401Partial loss of teeth, unspecified, class I52552Partial edentulism, class IIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK085252563Fractured dental restorative material without loss of materialK0853Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK08531Fractured dental restorative material without loss of material52565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52550	Partial edentulism, unspecified	K0840	Partial loss of teeth, unspecified cause
52552Partial edentulism, class IIK08402Partial loss of teeth, unspecified, class II52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK085252563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK08531Fractured dental restorative material with oral health52565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855			K08409	Partial loss of teeth, unspecified cause, unspecified class
52553Partial edentulism, class IIIK08403Partial loss of teeth, unspecified, class II52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK0852Fractured dental restorative material52563Fractured dental restorative material without loss of materialK08530Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK08531Fractured dental restorative material without loss of material52565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52551	Partial edentulism, class I	K08401	Partial loss of teeth, unspecified, class I
52554Partial edentulism, class IVK08404Partial loss of teeth, unspecified, class IV52560Unspecified unsatisfactory restoration of toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK085252563Fractured dental restorative material without loss of materialK0853Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK08531Fractured dental restorative material with oral health52565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52552	Partial edentulism, class II	K08402	Partial loss of teeth, unspecified, class II
52560Unspecified unsatisfactory restoration of tooth toothK0850Unsatisfactory restoration of tooth, unspecified52561Open restoration marginsK0851Open restoration margins of tooth52562Unrepairable overhanging of dental restorative materialsK085252563Fractured dental restorative material without loss of materialK0853Fractured dental restorative material52564Fractured dental restorative material with loss of materialK08531Fractured dental restorative material with or material52565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52553	Partial edentulism, class III	K08403	Partial loss of teeth, unspecified, class II
tooth 52561 Open restoration margins K0851 Open restoration margins of tooth 52562 Unrepairable overhanging of dental restorative materials Fractured dental restorative material without loss of material 52563 Fractured dental restorative material without loss of material 52564 Fractured dental restorative material with loss of material 52565 Contour of existing restoration of tooth biologically incompatible with oral health 52566 Allergy to existing dental restorative material K0855	52554	Partial edentulism, class IV	K08404	Partial loss of teeth, unspecified, class IV
52562Unrepairable overhanging of dental restorative materialsK085252563Fractured dental restorative material without loss of materialK0853Fractured dental restorative material without loss of material52564Fractured dental restorative material with loss of materialK0853152565Contour of existing restoration of tooth biologically incompatible with oral healthK085452566Allergy to existing dental restorative materialK0855	52560		K0850	Unsatisfactory restoration of tooth, unspecified
restorative materials Fractured dental restorative material without loss of material Contour of existing restoration of tooth biologically incompatible with oral health K08530 Fractured dental restorative material without loss of material K08531 Fractured dental restorative material without loss of material K08531 K08531 Fractured dental restorative material without loss of material K08531 K08531 K08531 K08531 K08531 K0854	52561	Open restoration margins	K0851	Open restoration margins of tooth
Fractured dental restorative material without loss of material without loss of material without loss of material Fractured dental restorative material with loss of material Fractured dental restorative material with loss of material Contour of existing restoration of tooth biologically incompatible with oral health Allergy to existing dental restorative material K08530 Fractured dental restorative material without loss of material K08531 K0854 K0854 K0855	52562		K0852	
loss of material Fractured dental restorative material with loss of material Fractured dental restorative material with loss of material Contour of existing restoration of tooth biologically incompatible with oral health Allergy to existing dental restorative material K08530 Fractured dental restorative material without loss of material K08531 K08531 K0854 K0854 K0855		Fractured dental restorative material without	K0853	Fractured dental restorative material
of material Contour of existing restoration of tooth biologically incompatible with oral health Allergy to existing dental restorative material K0855 K0854 K0855	52563		K08530	
biologically incompatible with oral health Allergy to existing dental restorative material K0855	52564		K08531	
	52565		K0854	
52567 Poor aesthetics of existing restoration K0856	52566	Allergy to existing dental restorative material	K0855	
	52567	Poor aesthetics of existing restoration	K0856	

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
E2E60	Other unsatisfactory restoration of existing	K08539	Fracture dental restorative material, unspecified
52569	tooth	K0859	Other unsatisfactory restoration of tooth
52571	Occasint agration failure of dental implant	M276	Endosseous dental implant failure
525/1	Osseointegration failure of dental implant	M2761	
52572	Post-osseointegration biological failure of dental implant	M2762	
52573	Post-osseointegration mechanical failure of dental implant	M2763	
52579	Other endosseous dental implant failure	M2769	
	Other specified disorders of the teeth and	K088	Other specified disorders of teeth and supporting structures
	supporting structures	K0889	Other specified disorders of teeth and supporting structures
5259	Unspecified disorder of the teeth and supporting structures	K089	Disorder of teeth and supporting structures, unspecified
5260	Developmental odontogenic cysts	K09	Cysts of oral region, not elsewhere classified
3200	Developmental odomogenic cysts	K090	Developmental odontogenic cysts
5261	Fissural cysts of jaw	K091	Developmental (nonodontogenic) cysts of oral region
		M274	Other and unspecified cysts of jaw
5262	Other cysts of jaws	M2740	Unspecified cyst of jaw
		M2749	Other cyst s of jaw
5263	Central giant cell (reparative) granuloma	M271	Giant cell granuloma, central
5264	Inflammatory conditions of jaw	M272	Inflammatory conditions of jaws
5265	Alveolitis of jaw	M273	Alveolitis of jaws
52661	Perforation of root canal space	M275	Periradicular pathology associated with previous endodontic treatment
		M2751	
52662	Endodontic overfill	M2752	
52663	Endodontic underfill	M2753	
52669	Other periradicular pathology associated with previous endodontic treatment	M2759	Other periradicular pathology associated with preventive endodontic treatment
52681	Exostosis of jaw	M278	Other specified diseases of jaws
		M27	Other diseases of jaws
52689	Other specified diseases of the jaws	M270	Developmental disorders of jaws
		M278	Other specified diseases of jaws
5269	Unspecified disease of the jaws	M279	Disease of jaws, unspecified
	onspecified disease of the Jaws	M7911	Myalgia of mastication muscle
5270	Atrophy of salivary gland	K11	Diseases of salivary glands
	, , , , , , , , , , , , , , , , , , , ,	K110	Atrophy of salivary gland
5271	Hypertrophy of salivary gland	K111	Hypertrophy of salivary gland

Sialoadenitis	ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
6272 Asilosedenitis KT121 Acute saloadenitis 5273 Abscess of salivary gland KT123 Chronic saloadenitis 5274 Fistula of salivary gland KT14 5275 Salolithiasis KT16 5276 Mucocele of salivary gland KT16 5277 Disturbance of salivary secretion KT17 5278 Other specified diseases of the salivary glands KT18 Other diseases of salivary glands 5279 Unspecified diseases of the salivary glands KT19 Disease of salivary gland, unspecified 5279 Unspecified diseases of the salivary glands KT19 Disease of salivary glands 52800 Stomatitis and mucositis, unspecified KT23 Oral mucositis (ulcerative) 52801 Mucositis (ulcerative) due to antineoplastic therapy KT230 Oral mucositis (ulcerative), due to antineoplastic therapy 52801 Mucositis (ulcerative) due to other drugs KT231 Oral mucositis (ulcerative), due to other drugs 52802 Mucositis (ulcerative) due to other drugs KT232 Oral mucositis (ulcerative), due to other drugs 52803 Mucositis (ulcerative) due to other drugs KT232 Oral mucositis (ulcerative), due			K112	Sialoadenitis
Extraction K1122 ktl23 kt		Sialoadenitis	K1120	Sialodenitis, unspecified
5273 Abscess of salivary gland K113 Formula is alloadentitis 5274 Fistula of salivary gland K114 5275 Sialolithiasis K115 5276 Mucocele of salivary gland K116 5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands K18 Other diseases of salivary glands 5279 Unspecified diseases of the salivary glands K12 Stomatitis and related lesions 52800 Stomatitis and mucositis, unspecified K123 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic therapy K123 Oral mucositis (ulcerative), due to antineoplastic therapy 52801 Mucositis (ulcerative) due to antineoplastic therapy K123 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to antineoplastic therapy 52803 Mucositis (ulcerative) K123 Oral mucositis (ulcerative), due to antineoplastic therapy 5280 Mucositis (ulcerative) K123 Other forms of stomatitis	5272		K1121	Acute sialoadenitis
5273 Abscess of salivary gland K113 5274 Fistula of salivary gland K114 5275 Slalolithiasis K115 5276 Mucoccle of salivary gland K116 5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands glands K118 Other diseases of salivary gland, unspecified 5279 Unspecified diseases of the salivary glands K12 Stomatitis and related lesions 52800 Stomatitis and mucositis, unspecified K123 Oral mucositis (ulcerative) gland, unspecified 52801 Mucositis (ulcerative) due to antineoplastic thrapy K123 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic thrapy K1231 Oral mucositis (ulcerative), due to antineoplastic thrapy 52802 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to antineoplastic thrapy 52803 Alucerative and mucositis (ulcerative) K123 Oral mucositis (ulcerative), due to other drugs 5280 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to other drugs			K1122	Acute recurrent sialoadenitis
5274 Fistula of salivary gland K114 5275 Sialolithiasis K115 5276 Mucocele of salivary gland K116 5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands K18 Other diseases of salivary glands 5279 Unspecified disease of the salivary glands K19 Disease of salivary gland, unspecified 52800 Employed disease of the salivary glands K12 Stomatitis and related lesions 52800 Stomatitis and mucositis, unspecified K123 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic k123 Oral mucositis (ulcerative), due to antineoplastic therapy 52801 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to other drugs 52801 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to other drugs 52801 Mucositis (ulcerative) due to other drugs K123 Oral mucositis (ulcerative), due to other drugs 52809 Other stomatitis and mucositis (ulcerative) K122 Other forms of stomatitis			K1123	Chronic sialoadenitis
5275 Sialolithiasis K115 5276 Mucocele of salivary gland K116 5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands K118 Other diseases of salivary glands 5279 Unspecified disease of the salivary glands K119 Disease of salivary gland, unspecified 52800 Stomatitis and mucositis, unspecified K122 Stomatitis and related lesions 52801 Mucositis (ulcerative) due to antineoplastic triangly K1230 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic triangly K1231 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K1233 Oral mucositis (ulcerative), due to other drugs 52803 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52804 Cher stomatitis and mucositis (ulcerative) K1232 Oral mucositis (ulcerative), due to other drugs 5281 Cancrum oris K120 Recurrent oral aphtae 5282 Oral aphthee K120 Re	5273	Abscess of salivary gland	K113	
5276 Mucocele of salivary gland K116 5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands R682 Dry mouth, unspecified 5279 Unspecified disease of the salivary glands K119 Disease of salivary gland, unspecified 52800 Stomatitis and mucositis, unspecified K12 Stomatitis and related lesions 52801 Mucositis (ulcerative) due to antineoplastic therapy K1230 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic therapy K1231 Oral mucositis (ulcerative), due to antineoplastic therapy 52801 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52802 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52803 Other stomatitis and mucositis (ulcerative) K1232 Oral mucositis (ulcerative), due to other drugs 5281 Cancrum oris A690 Necrotizing ulcerative stomatitis 5282 Oral aphthae K120 Recurrent oral aphtae 5283 Cellulitis and abscess of oral soft tissues K098 Other cyst of oral region	5274	Fistula of salivary gland	K114	
5277 Disturbance of salivary secretion K117 5278 Other specified diseases of the salivary glands R682 Dry mouth, unspecified 5279 Unspecified disease of the salivary glands K19 Disease of salivary gland, unspecified 5280 Stomatitis and mucositis, unspecified K12 Stomatitis dulcerative) 52800 Stomatitis and mucositis, unspecified K123 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic therapy K1231 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52809 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52809 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 5281 Cancrum oris A690 Necrotizing ulcerative stomatitis 5282 Oral aphthae K120 Recurrent oral aphtae 5283 Cellultis and abscess of oral soft tissues K098 Other cyst of oral region, not elsewhere classified	5275	Sialolithiasis	K115	
5278 Other specified diseases of the salivary glands R682 ktlls Dry mouth, unspecified 5279 Unspecified disease of the salivary glands K119 Disease of salivary gland, unspecified 5280 Stomatitis and mucositis, unspecified K12 Stomatitis and related lesions 52801 Stomatitis and mucositis, unspecified K123 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic therapy K1231 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to radiation 52809 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52809 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to other drugs 52809 Other stomatitis and mucositis (ulcerative) K1239 Other forms of stomatitis 5281 Cancrum oris K690 Necrotizing ulcerative stomatitis 5282 Oral aphthae K120 Recurrent oral aphtae 5283 Cellulitis and abscess of oral soft tissues K122 Cellultis and abscess of mouth 5284 Oiseases of lips K098 Other cyst of oral region, unspecified 5285 Diseases of lips	5276	Mucocele of salivary gland	K116	
5278 glands K118 Other diseases of salivary glands 5279 Unspecified disease of the salivary glands K119 Disease of salivary gland, unspecified 52800 Stomatitis and mucositis, unspecified K12 Stomatitis and related lesions 52801 Mucositis (ulcerative) due to antineoplastic therapy K1230 Oral mucositis (ulcerative), unspecified 52801 Mucositis (ulcerative) due to antineoplastic therapy K1231 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to antineoplastic therapy 52809 Mucositis (ulcerative) due to other drugs K1231 Other forms of stomatitis 52801 Mucositis (ulcerative) due to other drugs K1232 Oral mucositis (ulcerative), due to antineoplastic therapy 52802 Mucositis (ulcerative) due to other drugs K1231 Other forms of stomatitis 5281 Cancrum oris A690 Necrotizing ulcerative stomatitis 5282 Oral aphthae K120 Recurrent oral aphtae 5283 Cellultis and abscess of oral soft tissues K122 Cellultis and abscess of mouth 5284 Otiseases of lips	5277	Disturbance of salivary secretion	K117	
Substitution Subs	5278	Other specified diseases of the salivary	R682	Dry mouth, unspecified
52800Stomatitis and mucositis, unspecifiedK12Stomatitis and related lesions52801Mucositis (ulcerative) due to antineoplastic therapyK1230Oral mucositis (ulcerative), unspecified52801Mucositis (ulcerative) due to antineoplastic therapyK1231Oral mucositis (ulcerative), due to antineoplastic therapy52802Mucositis (ulcerative) due to other drugsK1233Oral mucositis (ulcerative), due to other drugs52809Mucositis (ulcerative) due to other drugsK1232Oral mucositis (ulcerative), due to other drugs52810Mucositis (ulcerative) due to other drugsK1232Other forms of stomatitis52810Cancrum orisA690Necrotizing ulcerative stomatitis5281Cancrum orisK120Recurrent oral aphtae5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellulits and abscess of mouth5284Cysts of oral soft tissuesK198Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK132Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1329Other disturbances of oral epithelium, including tongue52879Other disturbances of oral epithelium, including tongueK1324Leukokeratosis nicotina palati	0270	glands	K118	Other diseases of salivary glands
Season	5279	Unspecified disease of the salivary glands	K119	Disease of salivary gland, unspecified
52801Mucositis (ulcerative) due to antineoplastic therapyK1231Oral mucositis (ulcerative), due to antineoplastic therapy52801Mucositis (ulcerative) due to antineoplastic therapyK1233Oral mucositis (ulcerative), due to antineoplastic therapy52802Mucositis (ulcerative) due to other drugsK1232Oral mucositis (ulcerative), due to other drugs52809Mucositis (ulcerative) due to other drugsK121Other forms of stomatitis52810Cancrum orisK690Necrotizing ulcerative stomatitis5281Cancrum orisK690Necrotizing ulcerative stomatitis5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellultis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK132Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1329Other disturbances of oral epithelium, including tongue52879Other disturbances of oral epithelium, including tongueK1324Leukokeratosis nicotina palati			K12	Stomatitis and related lesions
52801Mucositis (ulcerative) due to antineoplastic therapyK1231Oral mucositis (ulcerative), due to antineoplastic therapy52801Mucositis (ulcerative) due to antineoplastic therapyK1233Oral mucositis (ulcerative), due to radiation52802Mucositis (ulcerative) due to other drugsK1232Oral mucositis (ulcerative), due to other drugs52809Other stomatitis and mucositis (ulcerative)K121Other forms of stomatitis5281Cancrum orisA690Necrotizing ulcerative stomatitis5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellulitis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK1321Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1329Other disturbances of oral epithelium, including tongue52879Other disturbances of oral epithelium, including tongueK1324Leukokeratosis nicotina palati	52800	Stomatitis and mucositis, unspecified	K123	Oral mucositis (ulcerative)
therapy Mucositis (ulcerative) due to antineoplastic therapy K1233			K1230	Oral mucositis (ulcerative), unspecified
therapy K1233	52801		K1231	Oral mucositis (ulcerative), due to antineoplastic therapy
52809Cher stomatitis and mucositis (ulcerative)K121Other forms of stomatitis5281Cancrum orisA690Necrotizing ulcerative stomatitis5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellulitis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK132Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52879Other disturbances of oral epithelium, including tongueK1329Other disturbances of oral epithelium, including tongue	52801		K1233	Oral mucositis (ulcerative), due to radiation
52809Other stomatitis and mucositis (ulcerative)K1239Other oral mucositis (ulcerative)5281Cancrum orisA690Necrotizing ulcerative stomatitis5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellulitis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK1321Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52879Other disturbances of oral epithelium, including tongueK1329Other disturbances of oral epithelium, including tongue	52802	Mucositis (ulcerative) due to other drugs	K1232	Oral mucositis (ulcerative), due to other drugs
5281Cancrum orisA690Necrotizing ulcerative stomatitis5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellultis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK132Leukoplakia and other disturbances of oral epithelium, including tongue52871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52879Other disturbances of oral epithelium, including tongueK1324Other disturbances of oral epithelium, including tongue	52809	Other stomatitis and mucositis (ulcerative)	K121	Other forms of stomatitis
5282Oral aphthaeK120Recurrent oral aphtae5283Cellulitis and abscess of oral soft tissuesK122Cellultis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK13252871Minimal keratinized residual ridge mucosaK1321Leukoplakia and other disturbances of oral epithelium, including tongue52872Excessive keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52879Other disturbances of oral epithelium, including tongueK1324Other disturbances of oral epithelium, including tongue	32003	Other stormatins and mideositis (dicerative)	K1239	Other oral mucositis (ulcerative)
5283Cellulitis and abscess of oral soft tissuesK122Cellultis and abscess of mouth5284Cysts of oral soft tissuesK098Other cyst of oral region, not elsewhere classified5285Diseases of lipsK130Disease of lips5286Leukoplakia of oral mucosa, including tongueK13252871Minimal keratinized residual ridge mucosaK1322Minimal keratinized residual ridge mucosa52872Excessive keratinized residual ridge mucosaK1323Excessive keratinized residual ridge mucosa52879Other disturbances of oral epithelium, including tongueK1329Other disturbances of oral epithelium, including tongue	5281	Cancrum oris	A690	Necrotizing ulcerative stomatitis
Cysts of oral soft tissues Ko98 Cyst of oral region, not elsewhere classified Ko99 Cyst of oral region, unspecified Cyst of oral region, not elsewhere classified Cyst of oral region, unspecified Leukoplastical region of oral epithelium, including tongue Cyst of oral region, unspecified	5282	Oral aphthae	K120	Recurrent oral aphtae
Cysts of oral soft tissues K099 Cyst of oral region, unspecified Disease of lips K130 Disease of lips K132 Leukoplakia of oral mucosa, including tongue K1321 Leukoplakia and other disturbances of oral epithelium, including tongue Minimal keratinized residual ridge mucosa K1322 Minimal keratinized residual ridge mucosa Excessive keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa K1329 Other disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati	5283	Cellulitis and abscess of oral soft tissues	K122	Cellultis and abscess of mouth
Cyst of oral region, unspecified	5284	Cysts of oral soft tissues	K098	Other cyst of oral region, not elsewhere classified
Eukoplakia of oral mucosa, including tongue K1321 Leukoplakia and other disturbances of oral epithelium, including tongue Minimal keratinized residual ridge mucosa K1322 Minimal keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa K1329 Other disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati	0204	Cysts of ordination dissues	K099	Cyst of oral region, unspecified
Leukoplakia of oral mucosa, including tongue K1321 Leukoplakia and other disturbances of oral epithelium, including tongue Minimal keratinized residual ridge mucosa K1322 Minimal keratinized residual ridge mucosa Excessive keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa Cher disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati	5285	Diseases of lips	K130	Disease of lips
K1321 Econopiated and other distarbances of oral epithelium, including tongue Minimal keratinized residual ridge mucosa K1322 Minimal keratinized residual ridge mucosa Excessive keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa K1329 Other disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati			K132	
Excessive keratinized residual ridge mucosa K1323 Excessive keratinized residual ridge mucosa Other disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati	5286	Leukoplakia of oral mucosa, including tongue	K1321	
52879 Other disturbances of oral epithelium, including tongue K1329 Other disturbances of oral epithelium, including tongue K1324 Leukokeratosis nicotina palati	52871	Minimal keratinized residual ridge mucosa	K1322	Minimal keratinized residual ridge mucosa
including tongue K1324 Leukokeratosis nicotina palati	52872	Excessive keratinized residual ridge mucosa	K1323	Excessive keratinized residual ridge mucosa
including tongue K1324 Leukokeratosis nicotina palati	E2070	Other disturbances of oral epithelium,	K1329	Other disturbances of oral epithelium, including tongue
5288 Oral submucosal fibrosis, including of tongue K135 Oral submucous fibrosis	520/3	including tongue	K1324	Leukokeratosis nicotina palati
	5288	Oral submucosal fibrosis, including of tongue	K135	Oral submucous fibrosis

ICD-9 Code	ICD- 9 Description	ICD-10 Code	ICD-10 Description
		K13	Other diseases of lip and oral mucosa
		K131	Cheek and lip biting
		K133	Hairy leukoplakia
5289	Other and unspecified diseases of the oral	K134	Granuloma and granuloma-like lesions of oral mucosa
3209	soft tissues	K136	Irritative hyperplasia of oral mucosa
		K137	Other and unspecified lesions of oral mucosa
		K1370	Unspecified lesions of oral mucosa
		K1379	Other lesions of oral mucosa
5290	Glossitis	K14	Glossitis
3290	Giossitis	K140	Glossitis
5291	Geographic tongue	K141 Geographic tongue	
5292	Median rhomboid glossitis	K142	Median rhomboid glossitis
5293	Hypertrophy of tongue papillae	K143	Hypertrophy of tongue papillae
5294	Atrophy of tongue papillae	K144	Atrophy of tongue papillae
5295	Plicated tongue	K145	Plicated tongue
5296	Glossodynia	K146	Glossodynia
5298	Other specified conditions of the tongue	K148	Other diseases of tongue
5299	Unspecified condition of the tongue	K149	Disease of tongue, unspecified
78492	Jaw pain	R6884	Jaw pain
7924	Nonspecific abnormal findings in saliva	R859	Unspecified abnormal finding in specimens from digestive organs and abdominal cavity
V523	Fitting and adjustment of dental prosthetic device	Z463	Encounter for fitting and adjustment of dental prosthetic device
V534	Fitting and adjustment of orthodontic devices	Z464	Encounter for fitting and adjustment of orthodontic device
V585	Orthodontics aftercare		
	Dental examination	Z012	Encounter for dental examination and cleaning
V722		Z0120	Encounter for dental examination and cleaning without abnormal findings
V723		Z0121	Encounter for dental examination and cleaning with abnormal findings

DQA Measure

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

ICD9	ICD10	ICD9	ICD10
528.79	K13.29	527.5	K11.5
528.8	K13.5	527.6	K11.6
	K13.70		K11.7
	K13.79	527.7	R68.2
528.9	K13.1	527.8	K11.8
	K13.6	527.9	K11.9
	K13.4		K12.2
529	K14.0	528.00	K12.30
529.1	K14.1	F00.04	K12.31
529.2	K14.2	528.01	K12.33
529.3	K14.3	528.02	K12.32
529.4	K14.4		K12.1
529.5	K14.5	528.09	K12.39
529.6	K14.6	528.1	A69.0
529.8	K14.8	404	A69.0
529.9	K14.9	101	A69.1
V52.3	Z46.3	528.2	K12.0
V53.4	Z46.4	528.3	K12.2
V58.5	Z46.4	F00 /	K09.8
V72.2	Z01.20	528.4	К099
V72.3	Z01.21	528.5	K13.0
784.92	R68.84	528.6	K13.21
526.9	M27.0	528.71	K13.22
527.0	K11.0	528.72	K13.23
527.1	K11.1	525.64	K08.531
	K11.20	525.65	K08.54
527.2	K11.21	525.66	K08.55
	K11.23	525.67	K08.56
527.3	K11.3	525.69	K08.59
527.4	K11.4	525.71	M27.61

ICD9	ICD10	ICD9	ICD10
525.72	M27.62	EOF /4	K08.101
525.73	M27.63	525.41	K08.191
525.79	M27.69	525.42	K08.102
	K08.8	525.43	K08.103
525.8	K08.89	525.44	K08.104
	M26.79	525.5	K08.409
525.9	K08.9	F0F F4	K08.401
526.0	K09.0	525.51	K08.431
526.1	K09.1	525.52	K08.402
	M27.49	525.53	K08.403
526.2	M27.40	525.54	K08.404
526.3	M27.1	525.6	K08.50
526.4	M27.2	525.61	K08.51
526.5	M27.3	525.62	K08.52
526.61	M27.51		K08.530
526.62	M27.52		M26.632
526.63	M27.53	525.63	M26.633
526.69	M27.59		M26.639
526.81	M27.8	524.64	M26.69
526.89	M27.8	524.69	M26.69
526.9	M27.9	524.7	M26.70
525.2	K08.20	524.71	M26.71
525.21	K08.21	524.72	M26.72
525.22	K08.22	524.73	M26.73
525.23	K08.23	524.74	M26.74
525.24	K08.24	524.75	M26.79
525.25	K08.25	524.76	M26.79
525.26	K08.26	524.79	M26.79
525.3	K08.3	524.81	M26.81
	K08.109	524.82	M26.82
525.4	K08.139		M26.4
	K08.199	524.89	M26.89

ICD9	ICD10	ICD9	ICD10
525.0	K08.0	524.63	M26.63
525.1	K08.109	324.03	M26.631
525.12	K08.429	524.02	M26.03
	K08.439	524.03	M26.02
525.13	K08.139	524.04	M26.04
	K08.431	524.05	M26.05
	K08.499	524.06	M26.06
525.19	K08.191	524.07	M26.07
	K08.199	524.09	M26.09
524.37	M26.37	524.1	M26.10
524.39	M26.39	524.11	M26.11
524.4	M26.4	524.12	M26.12
524.5	M26.50	524.19	M26.19
524.51	M26.51	524.2	M26.20
524.52	M26.52	524.21	M26.211
524.53	M26.53	524.22	M26.212
524.54	M26.54	524.23	M26.213
524.55	M26.55	524.24	M26.220
524.56	M26.56	524.25	M26.221
524.57	M26.57	524.26	M26.23
524.59	M26.59	524.27	M26.24
	M26.60	524.28	M26.25
	M26.601	524.29	M26.29
	M26.602	524.3	M26.30
524.6	M26.603	524.31	M26.31
	M26.609	524.32	M26.32
	M26.69	524.33	M26.33
	M26.61	524.34	M26.34
	M26.621	524.35	M26.35
524.61	M26.622	524.36	M26.36
	M26.623		K052.12
	M26.629	523.31	K052.13
524.62	M26.62	02001	K052.19

ICD9	ICD10		ICD9	ICD10
	K05.22		522.2	K04.2
	K052.21		522.3	K04.3
523.32	K052.22		522.4	K04.4
	K052.23		522.5	K04.7
	K052.29		522.6	K04.5
523.33	K05.20		522.7	K04.6
523.4	K05.30		522.8	K04.8
	K05.31		F22.0	K04.90
	K053.11		522.9	K04.99
523.41	K053.12		523.00	K05.00
	K053.13		523.01	K05.01
	K053.19		523.10	K05.10
	K05.32		523.11	K05.11
	K053.21			K06.0
523.42	K053.22		523.20	K060.10
	K053.23			K060.20
	K053.29			K06.0
F22 F	K05.4		523.21	K060.11
523.5	K05.40			K060.21
523.6	K03.6			K06.0
	K05.5	523.22	K060.12	
F00.0	K06.1			K060.22
523.8	K06.3			K06.0
	K06.8		523.23	K06013
F20.0	K05.6			K06023
523.9	K06.9		500.07	K06.0
524.00	M26.00		523.24	K060.10
524.01	M26.01		F00.0F	K06.0
521.9	K03.9		523.25	K060.20
	K04.0		523.30	K05.20
522.0	K04.01			
	K04.02			
522.1	K04.1			

ICD9	ICD10	ICD9	ICD10
523.31	K05.21	521.7	K03.7
323.31	K052.11	521.81	K03.81
E21.06	K02.52	521.89	K03.89
521.06	K02.53	520.0	K00.0
	K02.61	520.1	K00.1
521.07	K02.62	520.2	K00.2
	K02.63	520.3	K00.3
521.08	K02.7	520.4	K00.4
521.09	K02.9	520.5	K00.5
521.10		520.6	K00.6
521.11		520.6	K01.0
521.12	K03.0	520.6	K01.1
521.13	R03.0	520.8	K00.8
521.14		520.9	K00.9
521.15		521.00	K02.9
521.20		521.01	K02.61
521.21		521.02	K02.52
521.22	K031	521.02	K02.62
521.23		521.03	K02.53
521.24	K03.1	521.03	K02.63
521.25		521.04	K02.3
521.30		521.05	K03.89
521.31		521.06	K02.51
521.32	K03.2		
521.33	-		
521.34			
521.35			
521.40			
521.41	K03.3		
521.42	-		
521.49		K02.62 520.2 K00. K02.63 520.3 K00. K02.7 520.4 K00. K02.9 520.5 K00. 520.6 K01. K01. 520.6 K01. K01. 520.8 K00. K02. 520.9 K00. K02. 521.00 K02. K02. 521.02 K02. K02. 521.03 K02. K02. 521.04 K02. K02. 521.05 K03.8 K03.8	
521.5	K02.53 \$20.0 K02.61 \$20.1 K02.62 \$20.2 K02.63 \$20.3 K02.7 \$20.4 K02.9 \$20.5 \$20.6 \$20.6 \$20.6 \$20.8 \$20.9 \$21.00 \$21.01 \$21.02 \$21.02 \$21.02 \$21.03 \$21.03 \$21.04 \$21.05 \$21.06 \$21.06		
521.6	K03.5		

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	ICD10
	L03.211
682.0	L03.212
	L03.213
0004	L03.221
682.1	L03.222
784.2	R22.0
	R22.1

Appendix 2: Comparing Measures of ED Visits for Dental Conditions

At the time of our <u>earlier reports</u> on ED visits for dental conditions in Maryland, there were no widely used or endorsed measures of ED visits for dental conditions. Therefore, the existing academic literature was used to create a measure of chronic dental conditions. In the time since those reports were released, two measures have been developed by national organizations: one by the <u>Association of State and Territorial Dental Directors (ASTDD)</u> that assesses non-traumatic dental conditions (NTDC) and another by the <u>Dental Quality Alliance (DQA)</u> that assesses Ambulatory Care Sensitive Emergency Department Visits. The ASTDD measure, in particular, has een widely adopted and is used in most recent publications on ED visits for dental conditions.

The three measures differ in the specific diagnosis codes included in the definition, the number of diagnosis codes used, and how ED visits are differentiated from visits to the hospital for other reasons (inpatient admissions, ambulatory surgeries, routine office visits, etc.). For example, the ASTDD measure uses a wide range of diagnosis codes, allows for the use of either the first listed or all diagnosis codes, and contains relatively little guidance on differentiating ED visits. On the other hand, the DQA measure uses a slightly more restrictive set of diagnosis codes, focuses on the first listed or primary diagnosis code, and contains clear guidance on differentiating ED visits from other types of hospital visits.

To ensure that the results presented in this report are substantively similar to prior reporting while, at the same time, ensuring that the results are in line with newly established scientific best practices and can be easily replicated with existing data, we adapted the measures as follows:

- Used the DQA measure specifications to identify the encounter as an ED visit.
- Used the diagnosis codes recommended by the ASTDD, as listed in Appendix 1.
- 3. Used the primary diagnosis and the first 15 listed secondary diagnosis codes, out of a possible 28.

There remains no broad consensus on how to measure inpatient admissions for dental conditions. Therefore, we combined the ASTDD NTDC measure and the DQA measure, including additional first listed diagnosis codes associated with cellulitis, lymphangitis, and abscess of face/neck or swelling mass or lump in head or neck, paired with either ASTDD- or DQA-recommended secondary diagnosis coded. The measure is similar to that used in our earlier report along with other reports that consider inpatient admissions.

Appendix 3: Emergency Department and Inpatient Admissions for Non-Traumatic Dental Conditions Among Dual-Eligible Adults
Aged 21–64 in Maryland

				Count			
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	2,629	2,542	2,586	2,509	2,378	2,246	2,133
Inpatient Admissions	53	52	56	45	45	51	36
Total	2,682	2,594	2,642	2,554	2,423	2,297	2,169
			Rate Per 10,00	0 Adult Dual-Elig	jible Population		
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	211.9	193.9	189.2	175.7	164.0	153.0	143.8
Inpatient Admissions	4.3	4.0	4.1	3.2	3.1	3.5	2.4
Total	216.2	197.9	193.3	178.8	167.1	156.5	146.2
	Inflation-Adjusted Total Charges						
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	\$1,093,061	\$1,229,828	\$1,457,719	\$1,488,106	\$1,387,111	\$1,468,227	\$1,376,121
Inpatient Admissions	\$498,830	\$527,497	\$654,102	\$478,798	\$431,767	\$475,238	\$337,020
Total	\$1,591,891	\$1,757,325	\$2,111,821	\$1,966,904	\$1,818,878	\$1,943,465	\$1,713,141
			Inflation-Ad	justed Average C	Cost Per Visit		
	FY2013	FY2014	FY2015	FY2016	FY2017	FY2018	FY2019
ED Visits	\$416	\$484	\$564	\$593	\$583	\$654	\$645
Inpatient Admissions	\$9,412	\$10,144	\$11,680	\$10,640	\$9,595	\$9,318	\$9,362
Total	\$594	\$677	\$799	\$770	\$751	\$846	\$790

CareQuest Institute for Oral Health

CareQuest Institute for Oral Health is a national nonprofit championing a more equitable future where every person can reach their full potential through excellent health. We do this through our work in grantmaking, research, health improvement programs, policy and advocacy and education as well as our leadership in dental benefits, care delivery and innovation advancements. We collaborate with thought leaders, health care providers, patients and local, state and federal stakeholders, to accelerate oral health care transformation and create a system designed for everyone. To learn more, visit <u>carequest.org</u>.

Maryland Dental Action Coalition

The Maryland Dental Action Coalition (MDAC), the state's leading non-governmental oral health policy and advocacy organization, works to improve the oral health of all Marylanders through increased oral health promotion, disease prevention, education, advocacy, and access to oral health care. MDAC leads the development of the five-year Maryland Oral Health Plan and partners with individuals and organizations working to develop and implement initiatives to improve the oral health of all Marylanders.

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