Oral Health: An Evidence and Data-Driven Approach to Achieve Better Health, Equity, and Fiscal Responsibility

Natalia I. Chalmers DDS, MHSc, PhD

Diplomate, American Board of Pediatric Dentistry

Chief Dental Officer, Office of the Administrator

Centers For Medicare & Medicaid Services



"You're Not Healthy Without Good Oral Health."

- Surgeon General C. Everett Koop





Oral Health, Equity, Fiscal Responsibility and Inflammation (Clinical Outcomes)







Fiscal Responsibility



Inflammation (Clinical Outcomes)



CMS Vision Statement and Strategic Pillars

CMS serves the public as a trusted partner and steward, dedicated to advancing health equity, expanding coverage, and improving health outcomes

ADVANCE EQUITY

Advance
health equity
by addressing
the health
disparities that
underlie our
health system



EXPAND ACCESS

Build on the Affordable Care Act and expand access to quality, affordable health coverage and care



ENGAGE PARTNERS

Engage our partners and the communities we serve throughout the policymaking and implementation process



DRIVE INNOVATION

Drive Innovation to tackle our health system challenges and promote valuebased, personcentered care



PROTECT PROGRAMS

Protect our programs' sustainability for future generations by serving as a responsible steward of public funds



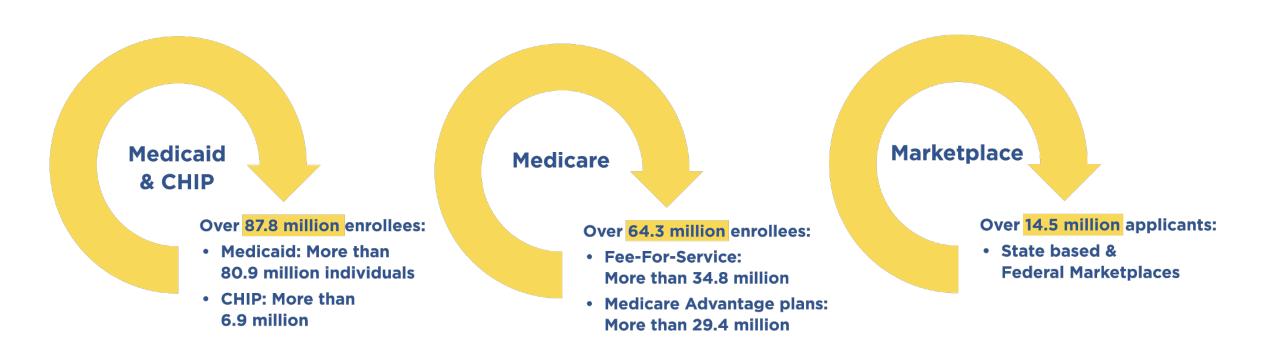
FOSTER EXCELLENCE

Foster a positive and inclusive workplace and workforce, and promote excellence in all aspects of CMS's operations





Every day, CMS ensures that 154.7 million* people in the U.S. have health coverage that works.





^{*}Subtotal: 166.6 million. Adjust for Medicare/Medicaid dual eligibles (-11.9 million).

2022 STRATEGY



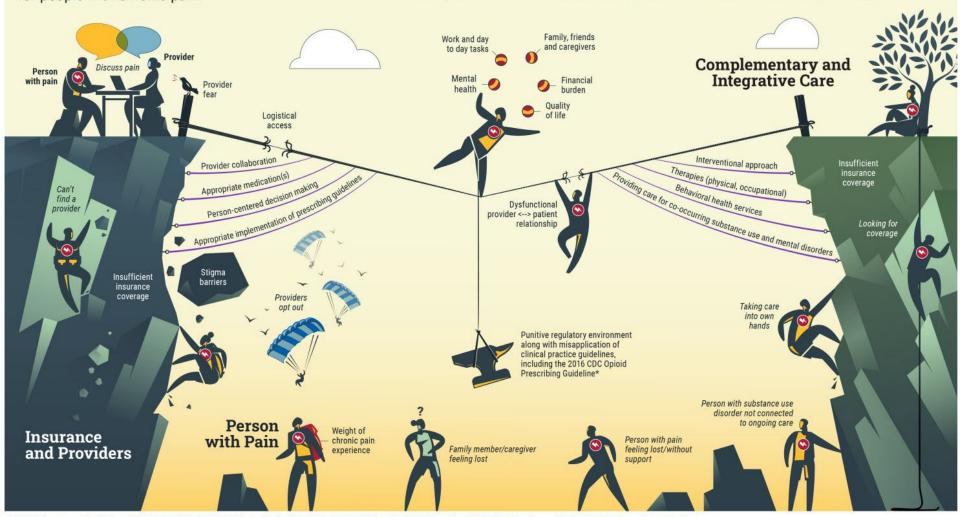
CMS defines health equity as the attainment of the highest level of health for all people, where everyone has a fair and just opportunity to attain their optimal health regardless of race, ethnicity, disability, sexual orientation, gender identity, socioeconomic status, geography, preferred language, and other factors that affect access to care and health outcomes.



Chronic Pain Experience

Understand access to covered treatment and services for people with chronic pain.

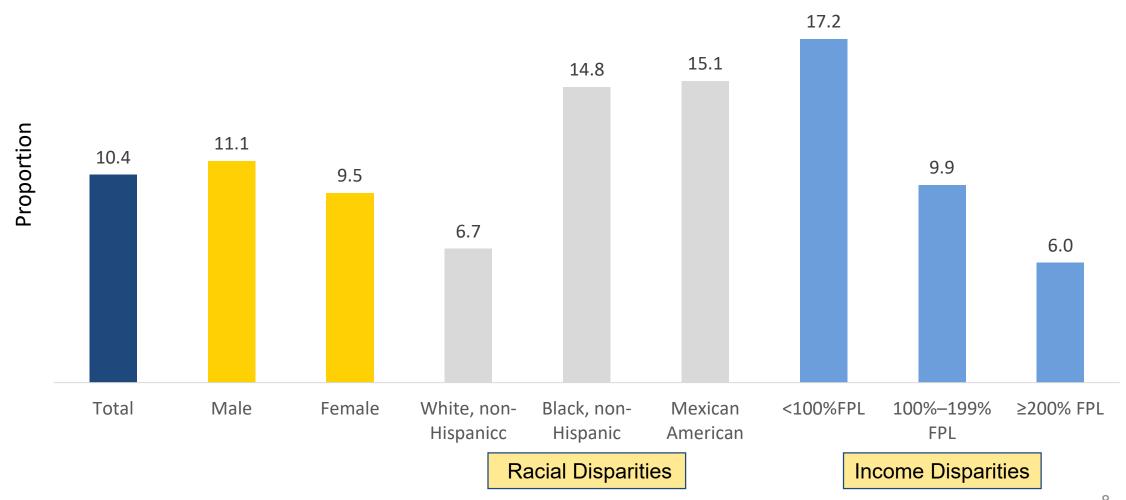
This visual is derived from stakeholder interviews focusing on the experiences of those living with and treating chronic pain. Its intent is to highlight the most prominent barriers experienced by people accessing care and the influencers acting on providers, ultimately affecting the person with chronic pain, their quality of care, and their quality of life. These sentiments were derived from requests for information (RFIs) conducted by CMS and CDC, including as part of CDC's efforts to understand and integrate the lived experiences of patients and providers into their update to the 2016 opioid prescribing guideline.



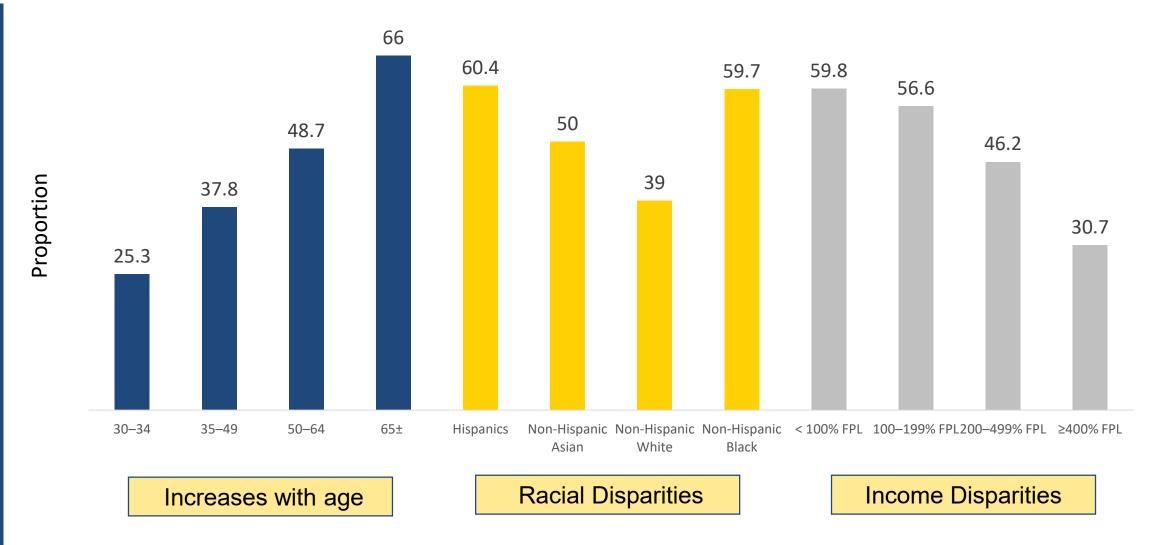
^{*} CDC is in the process of updating the 2016 CDC Guideline for Prescribing Opioids for Chronic Pain. The goal of the revised clinical practice guideline is to help advance effective, individualized, patient-centered care. The revision was designed with a focus on ensuring appropriate use as a clinical tool and to avoid misapplication of the guideline itself.



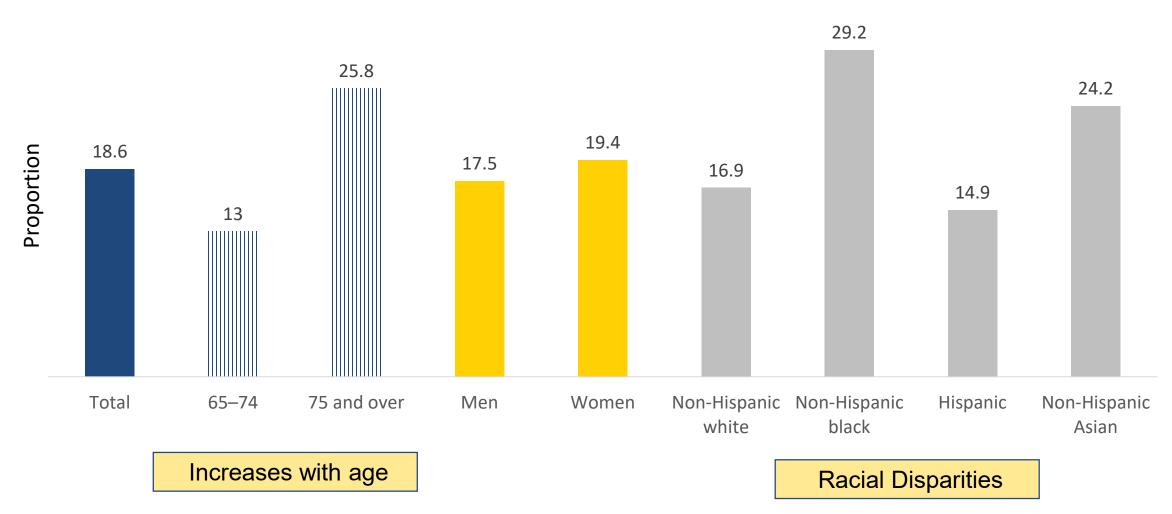
Prevalence of Untreated Tooth Decay In Primary Teeth Among Children Aged 2–5 Years



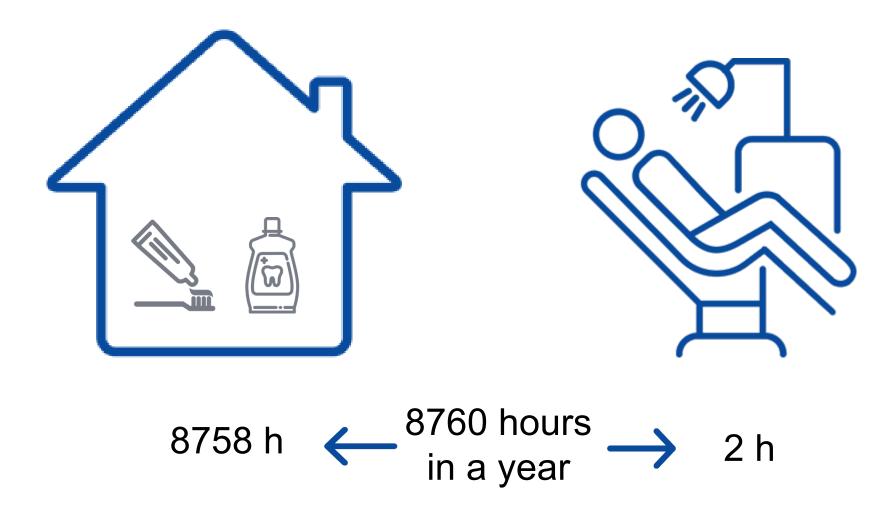
Prevalence of Periodontitis in Adults



Prevalence of Complete Tooth Loss (Edentulism) among Adults Aged 65 and Over



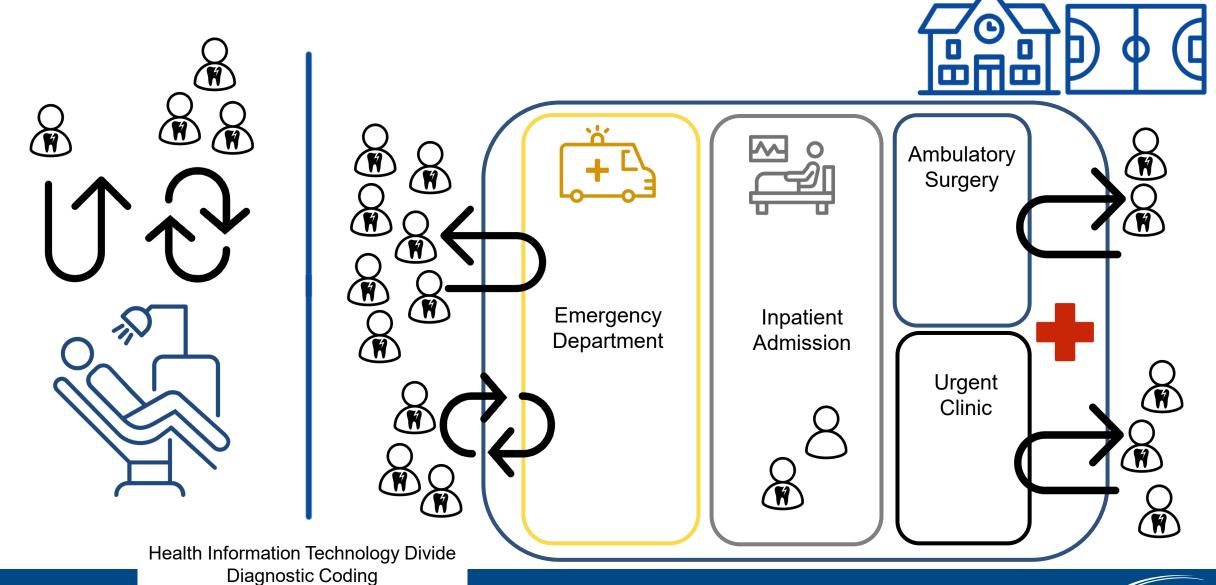
Where People Manage Oral Health



People spend more hours managing their oral health at home than in a clinical setting.



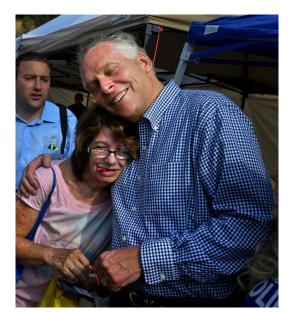
Where Patients Present with Oral Health Needs |





Integration and Coordination of Care

Charity and Oral Health







Virginia Remote Area Medical



New Mexico Mission of Mercy



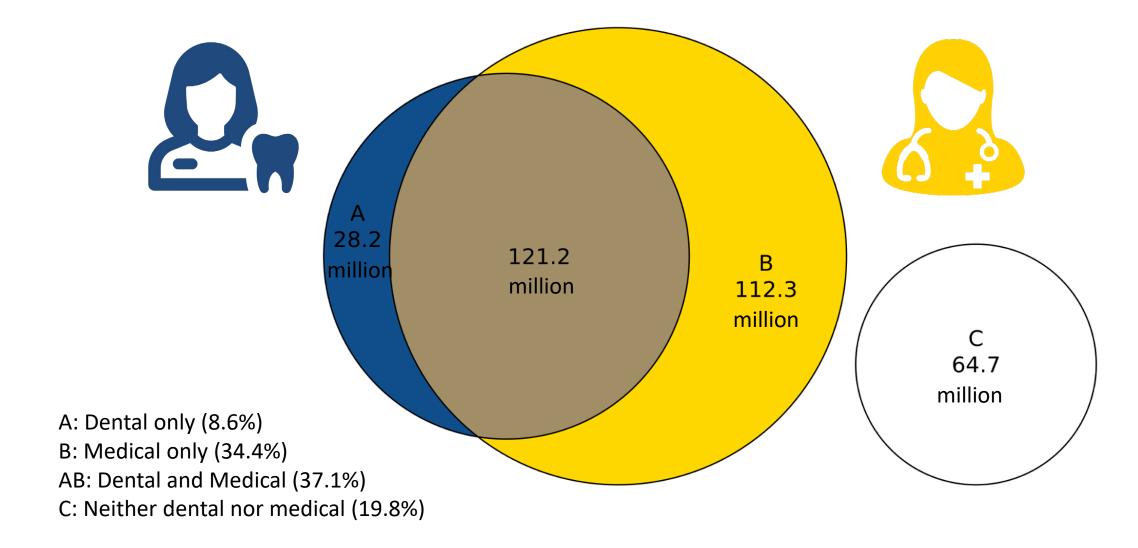
Oklahoma Mission of Mercy



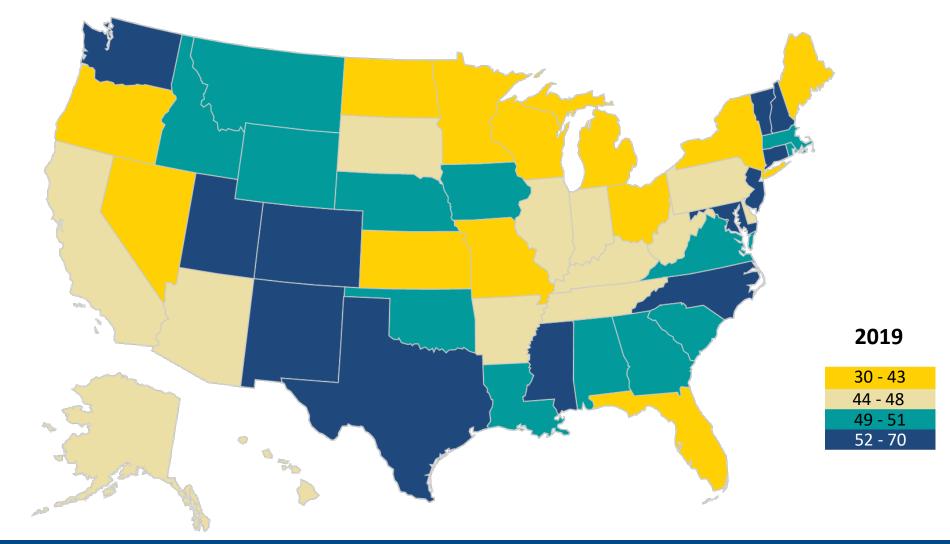
Maryland Mission of Mercy



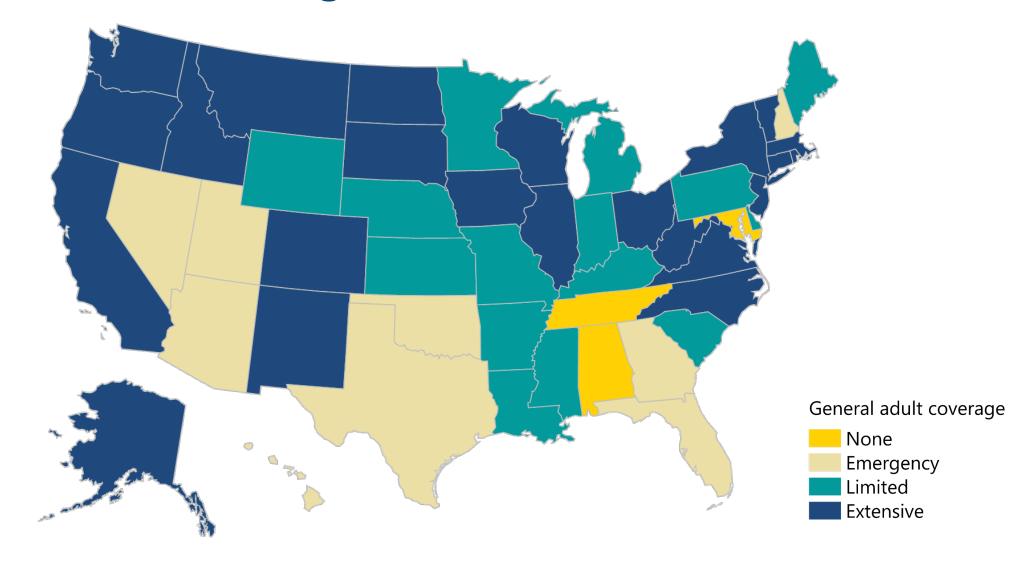
Population with Any Dental and Medical Visits



Percentage of Medicaid Eligibles Ages 1 to 20 Who Received Preventive Dental Services

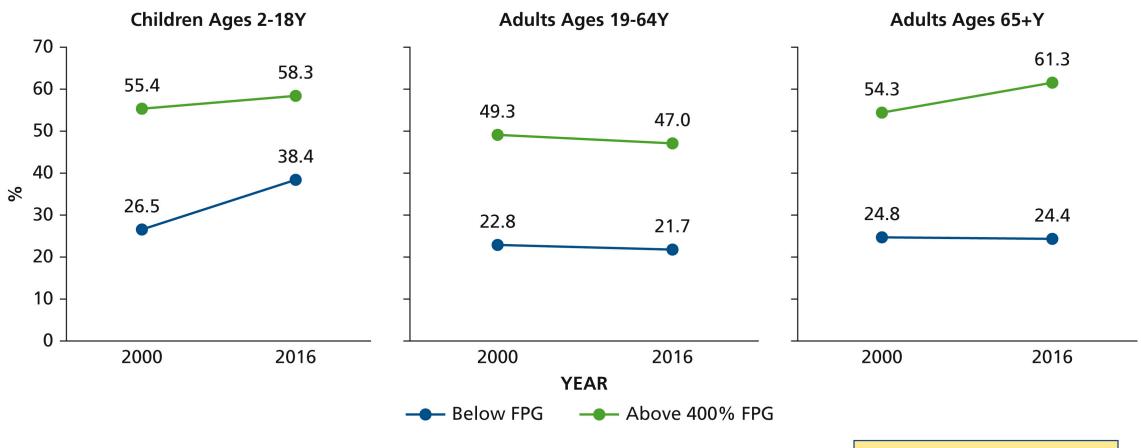


State Medicaid Coverage of Adult Dental Services





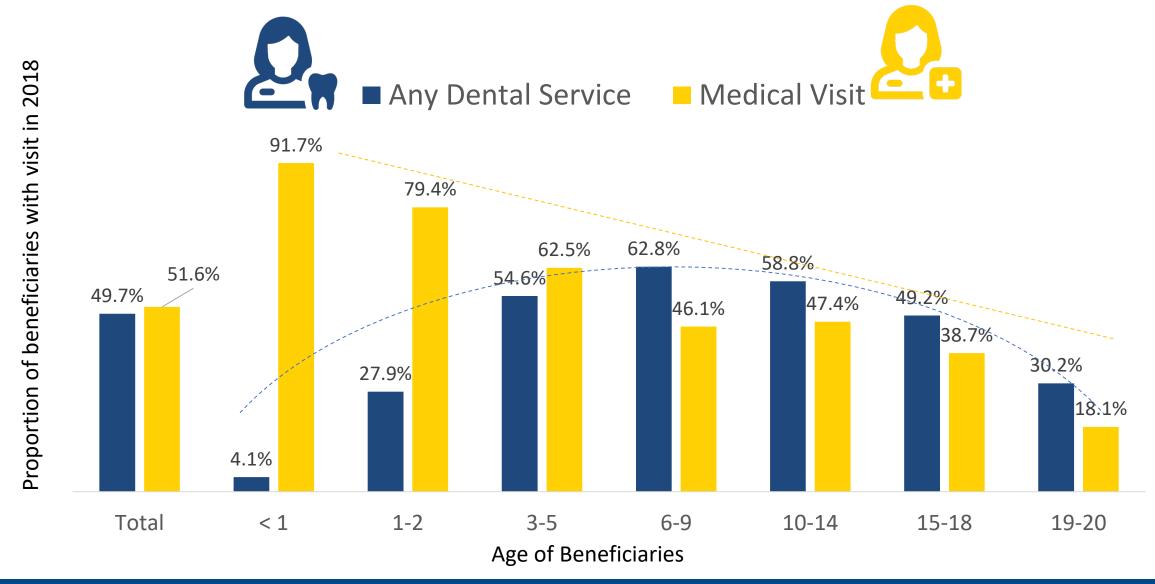
Dental Visit in the Past Year By Poverty



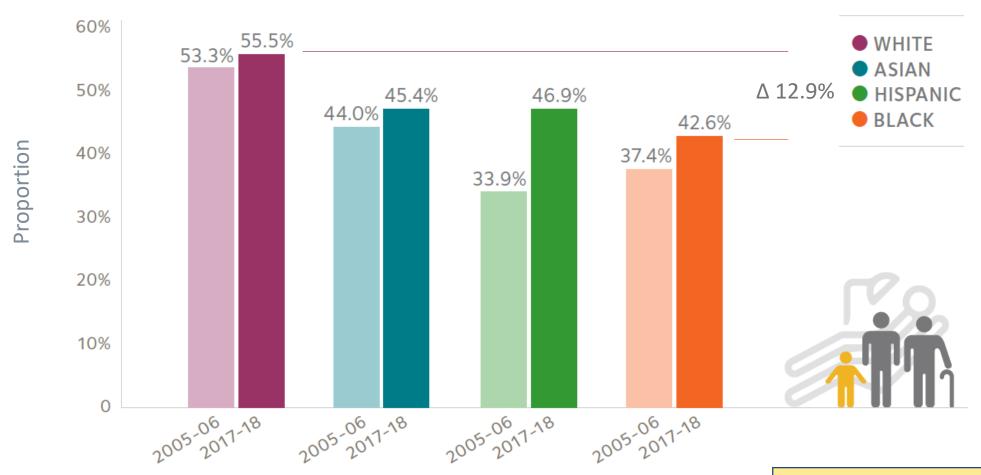
Income Disparities



Annual Dental or Medical Visits



Children With A Dental Visit In The Past Year



Racial Disparities



The Effect of Poor Dental Health on Children

Severe Early Childhood Caries





Joanna Douglass, BDS, DDS

Source: smilesforlifeoralhealth.org



Poor academic performance



Emergency Department Use



School attendance, i.e. student absenteeism



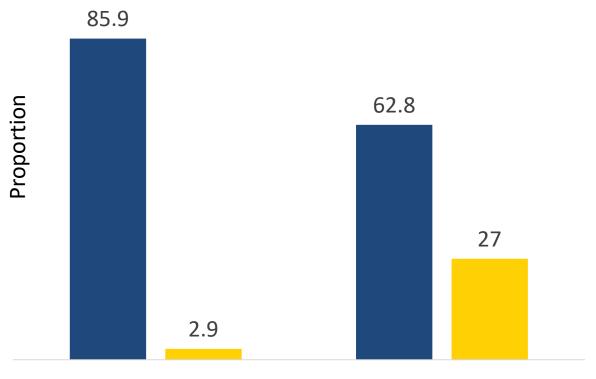
Pain and Infection

Source: Ruff et al. Journal of the American Dental Association 2019



Parents Dental Care Experience is Key to Coverage and Access

■ Child with Dental Visit ■ Child without Dental Visit



Parent with Dental Visit

Parent without Dental Visit

By Brandy J. Lipton, Tracy L. Finlayson, Sandra L. Decker, Richard J. Manski, and Mingan Yang

The Association Between Medicaid **Adult Dental Coverage And** Children's Oral Health

ABSTRACT Although all state Medicaid programs cover children's dental care, Medicaid-eligible children are more likely to experience tooth decay than children in higher-income families. Using data from the 1999-2016 National Health and Nutrition Examination Survey and the 2003, 2007, and 2011-12 waves of the National Survey of Children's Health, we examined the association between Medicaid adult dental coverage (an optional benefit) and children's oral health. Adult dental coverage was associated with a statistically significant 5-percentage-point reduction in the prevalence of untreated caries among children after Medicaid-enrolled adults had access to coverage for at least one year. These policies were also associated with a reduction in parent-reported fair or poor child oral health with a two-year lag between the onset of the policy and the effect. Effects were concentrated among children younger than age twelve. We estimated declines in poor oral health among all racial and ethnic subgroups, although there was some evidence that non-Hispanic Black children experienced larger and more persistent effects than non-Hispanic White children. Future assessments of the costs and benefits of offering adult dental coverage may consider potential effects on the

tooth decay compared with children in higher- mation about recommended dental care or denincome families but are less likely to visit the tal benefits available to publicly insured children dentist annually (29 percent versus 55 percent).2 when a parent has a dental visit. As many general All state Medicaid programs cover a comprehen- dentists treat both adults and children,7 families sive set of preventive and restorative dental services for children under the Early and Periodic may cluster their appointments when both parents and children have dental coverage, reducing Screening, Diagnostic, and Treatment benefit.

Although financial barriers are frequently reoff work. Parent dental coverage may also reduce ported as the reason for not receiving needed out-of-pocket health care spending,8 which dental care among both adults and children,3 could increase available resources for children's noncost barriers may also play an important role in explaining income-based disparities in chil-

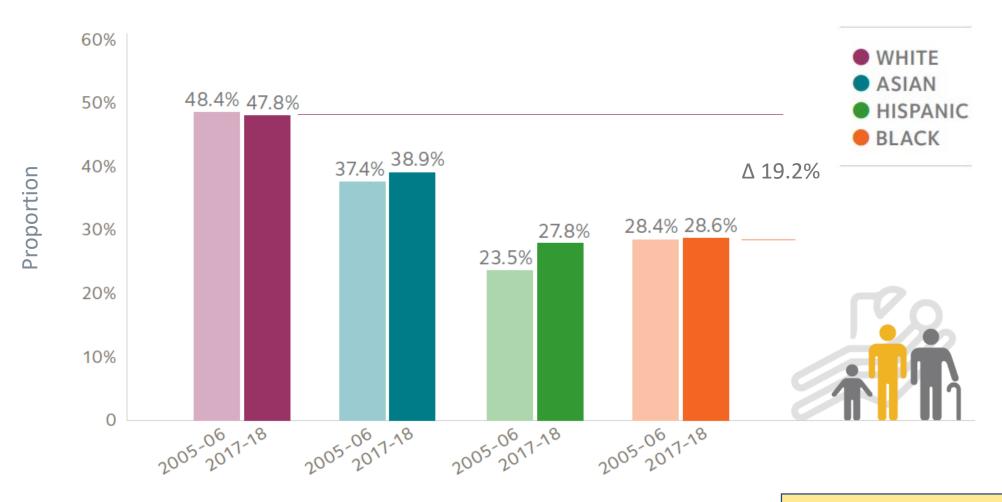
Children are more likely to have regular dental tooth decay remains the most visits when their parents have dental coverage or ommon childhood chronic dis- a recent dental visit.⁴⁻⁶ Parental dental coverage ease.1 Medicaid-eligible children may facilitate children's dental care use in sever

In contrast to the requirements for children states are not required to provide any level of

Mingan Yang is an associat professor in the School of Public Health, San Diego State University.



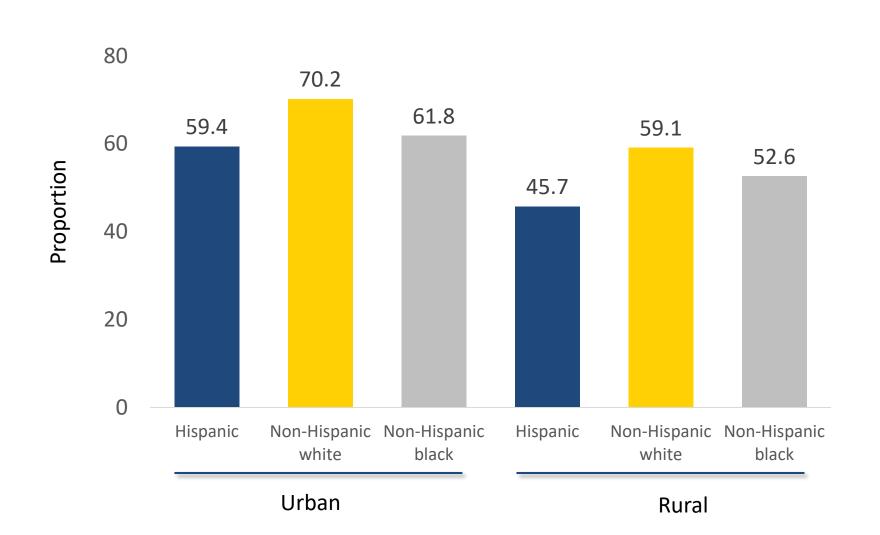
Adults With A Dental Visit In The Past Year



Racial Disparities



Urban-Rural Differences in Dental Care Use Among Adults Aged 18–64

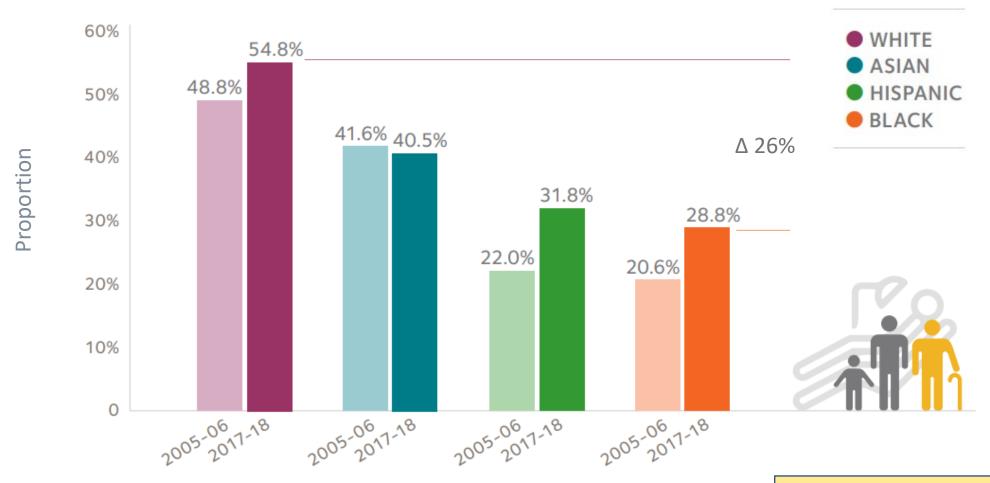








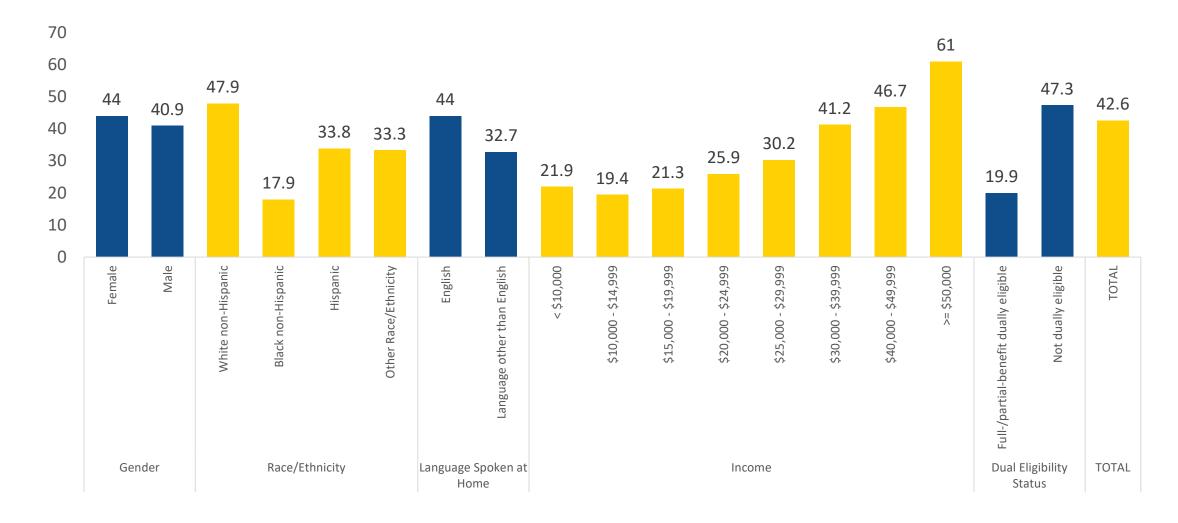
Seniors With A Dental Visit In The Past Year



Racial Disparities



Percentage of Medicare Beneficiaries Living Only in the Community Who Had at Least One Dental Exam in 2019

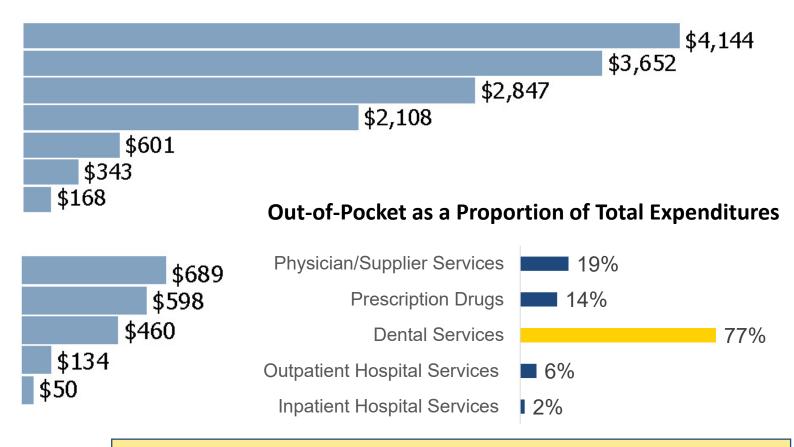




Health Care Service Expenditures per Capita for Selected Service Types Among Medicare Beneficiaries Living Only in the Community, in Dollars, 2018

Prescription Drugs
Physician/Supplier Services
Inpatient Hospital Services
Outpatient Hospital Services
Dental Services
Medicare Home Health Services
Medicare Hospice Services

Physician/Supplier Services
Prescription Drugs
Dental Services
Outpatient Hospital Services
Inpatient Hospital Services



Dental services have the highest out-of-pocket proportion.



Poor Oral Health, Infection and Inflammation

Total inflammation surfaces are approximately the same.



Fitzgerald Arch Dis Child 2005

Chronic periodontal disease



Nonhealing Ulcer over the Ulnar Aspect of the Left Forearm



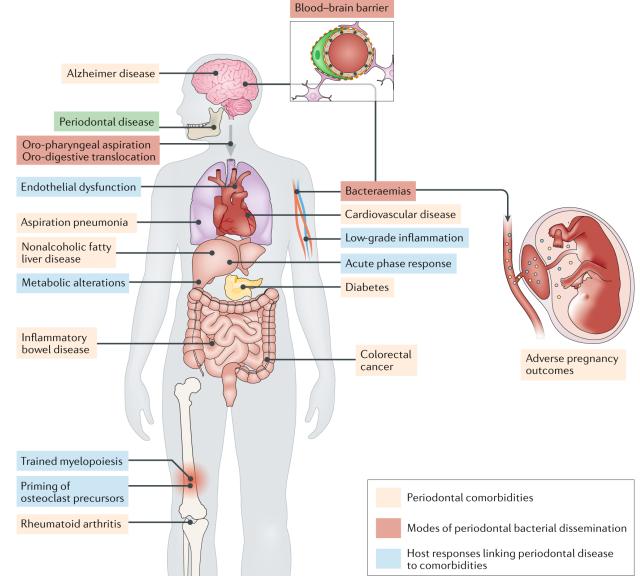
Periodontal Disease and Associated Inflammatory Comorbidities

Periodontitis Inflammatory Comorbidities

- Cardiovascular disease
- Type 2 diabetes mellitus
- Rheumatoid arthritis
- Inflammatory bowel disease
- Alzheimer disease
- Nonalcoholic fatty liver disease
- Cancers

Dissemination

- Bacteremia, hematogenous
- Oro-pharyngeal dissemination
- Oro-digestive dissemination





Association Between Maternal Periodontal Disease and Adverse Pregnancy Outcomes









Maternal periodontal disease increases the odds of low birthweight by

Maternal periodontal disease increases the odds of preterm birth by

Maternal periodontal disease increases the odds of spontaneous abortion by

Maternal periodontitis increases the odds of any maternal complications by

10%

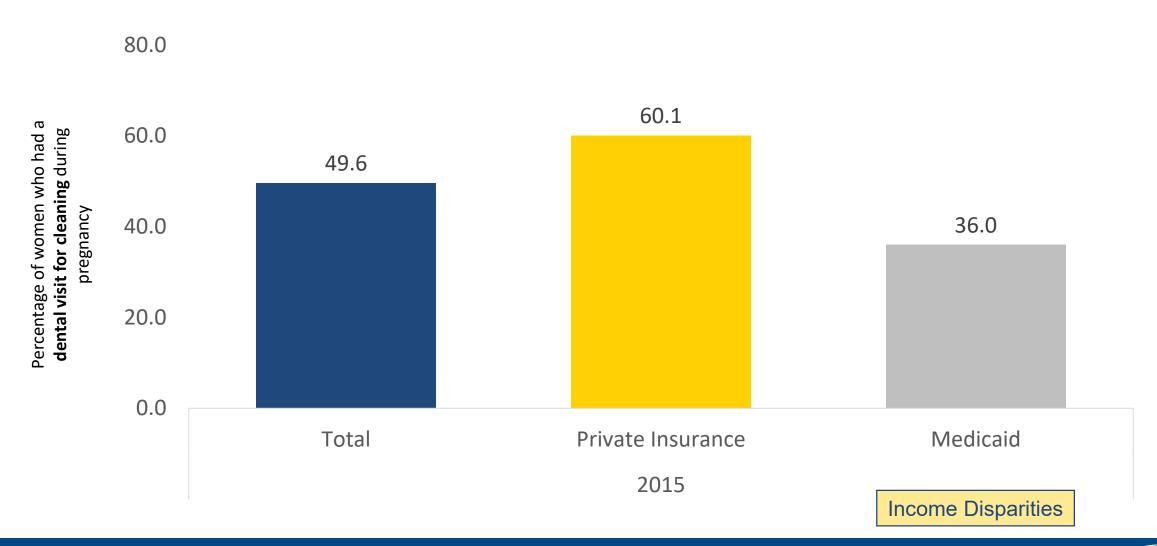
15%

34%

19%

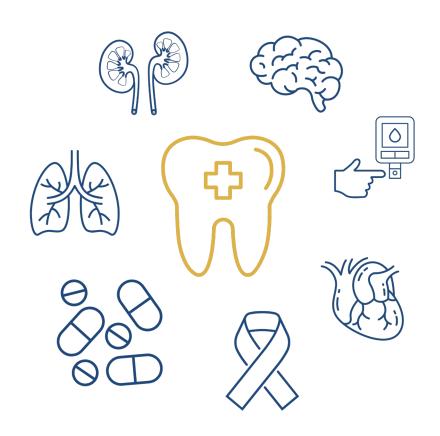


Dental Visit During Pregnancy

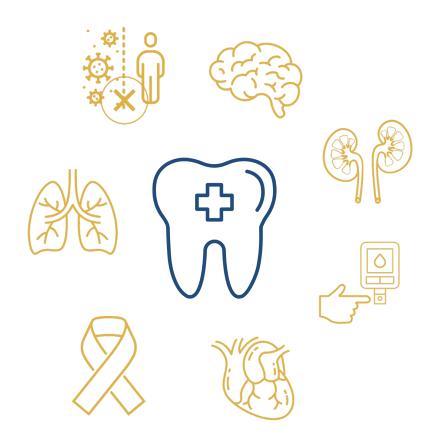




The Science of Oral-systemic Interrelationship



Increased Risk to Oral Health Caused by the Medical Condition or its Treatment.

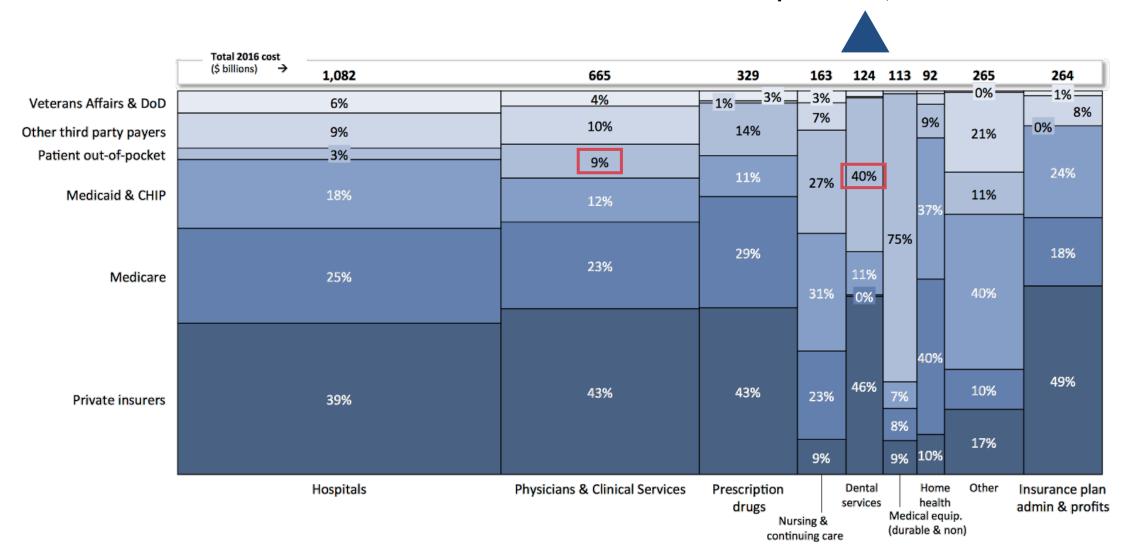


Increased Risk to Systemic Health Related to Poor Oral Health.



National Health Expenditure

Dental is 4% of all Health **Expenditures, \$124 Billion**



Medicaid and Medicare Dental Spending

- In 2019, \$15.5 billion was spent on dental services by **Medicaid and CHIP**, representing 2.1% of Medicaid and CHIP expenditures for all services.
- In 2019, \$1.9 billion was spent on dental services by Medicare, representing 0.2% of Medicare expenditures for all services.
- U.S. Health Care Spending Reach \$4.1 Trillion In 2020, 19.7% Gross Domestic Product (GDP)

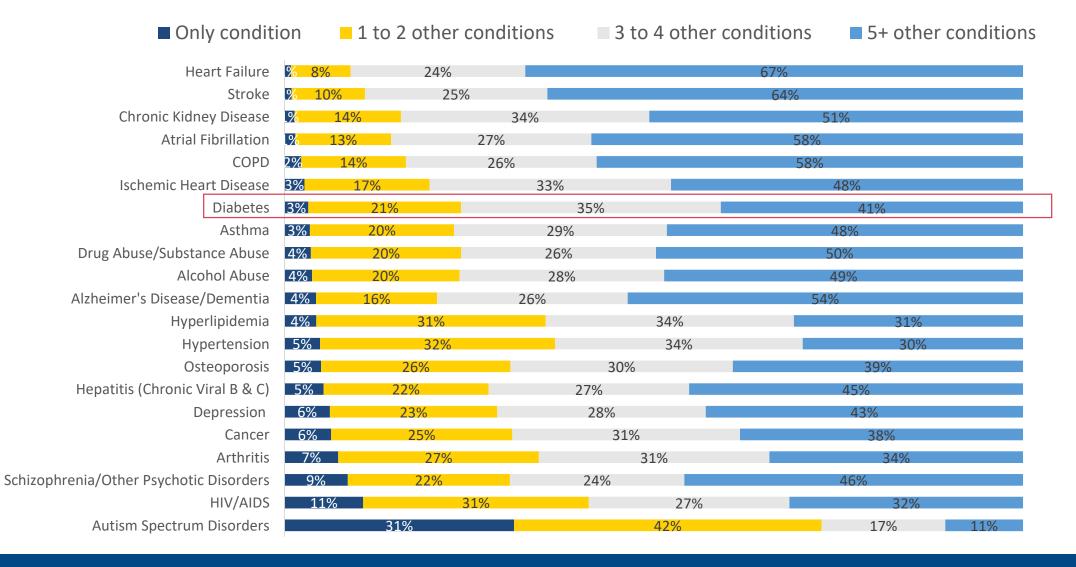


2016 Health Care Spending

Public insurance Private insurance Out-of-pocket payments 1 Diabetes (\$55.4 billion) 1 Low back and neck pain (\$76.9 billion) 1 Oral disorders (\$30.5 billion) 2 Ischemic heart disease (\$48.2 billion) 2 Other musculoskeletal disorders (\$73.3 billion) 2 Well dental (\$21.1 billion) 3 Other musculoskeletal disorders (\$46.9 billion) 3 Pregnancy and postpartum care (\$52.8 billion) 3 Dementias (\$19.4 billion) 4 Skin and subcutaneous diseases (\$49.3 billion) 4 Low back and neck pain (\$12.4 billion) 4 Low back and neck pain (\$45.3 billion) 5 Hypertension (\$44.9 billion) 5 Diabetes (\$49.1 billion) 5 Falls (\$11.9 billion) 8 Ischemic heart disease (\$37.9 billion) 6 Other musculoskeletal disorders (\$9.7 billion) 6 Dementias (\$44.4 billion) 8 Falls (\$40.7 billion) 9 Falls (\$34.8 billion) 8 Diabetes (\$6.7 billion) 11 Skin and subcutaneous diseases (\$29.8 billion) 11 Oral disorders (\$34.4 billion) 11 Skin and subcutaneous diseases (\$6.0 billion) 23 Pregnancy and postpartum care (\$14.9 billion) 12 Well dental (\$32.9 billion) 12 Hypertension (\$5.2 billion) 19 Pregnancy and postpartum care (\$3.6 billion) 34 Oral disorders (\$11.5 billion) 15 Hypertension (\$28.9 billion) 47 Well dental (\$6.5 billion) 29 Dementias (\$15.4 billion) 21 Ischemic heart disease (\$3.2 billion)



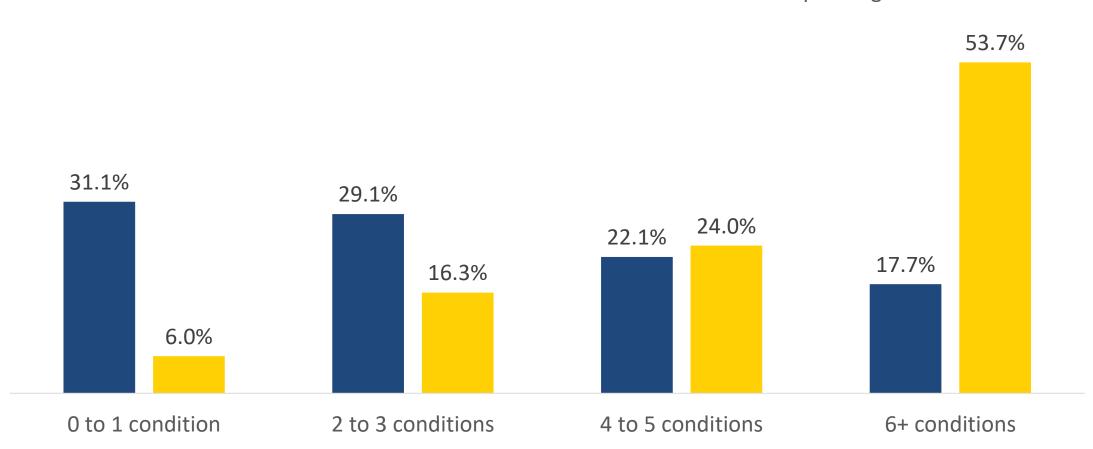
Percentage of Medicare FFS Beneficiaries with the 21 Selected Chronic Conditions: 2018





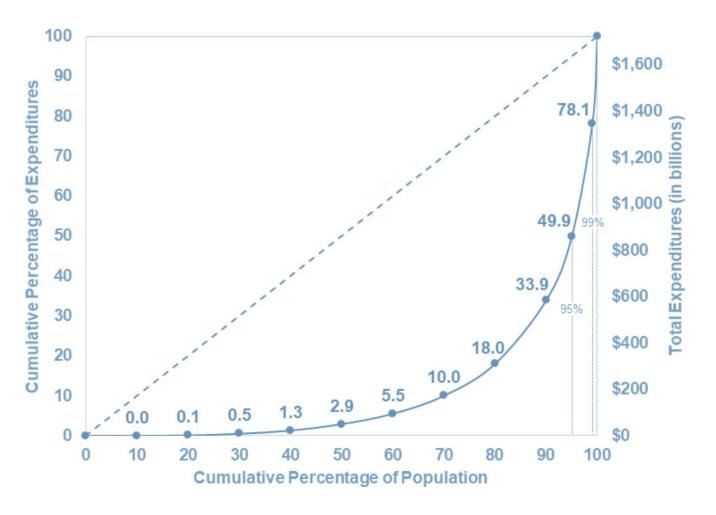
Distribution of Medicare FFS Beneficiaries by Number of Chronic Conditions and Total Medicare Spending: 2018

Percent of Beneficiaries
Percent of Total Medicare Spending



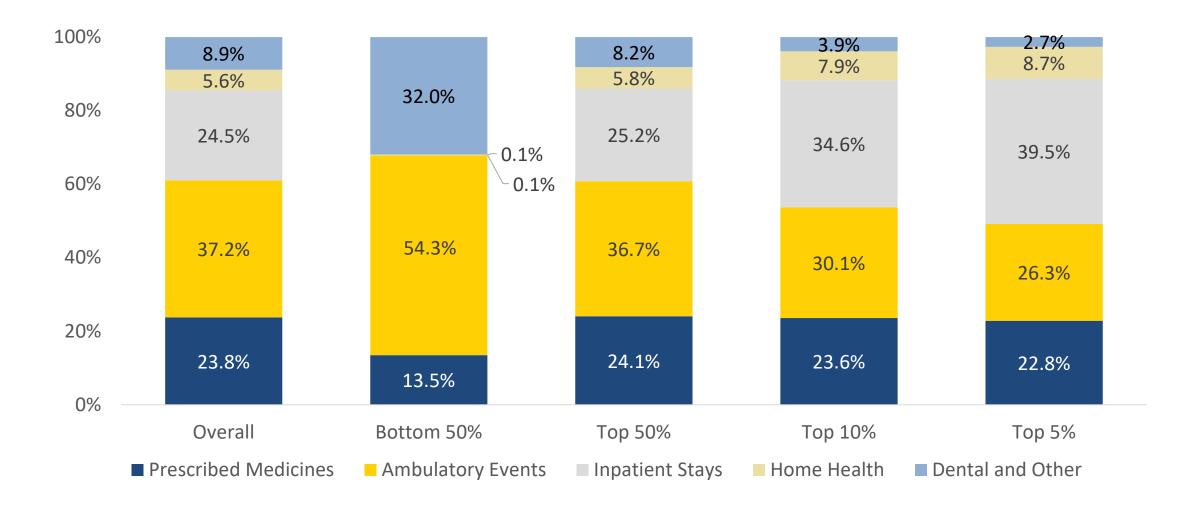


Concentration Curve of Health Care Expenditures, U.S. Civilian Noninstitutionalized Population, 2017



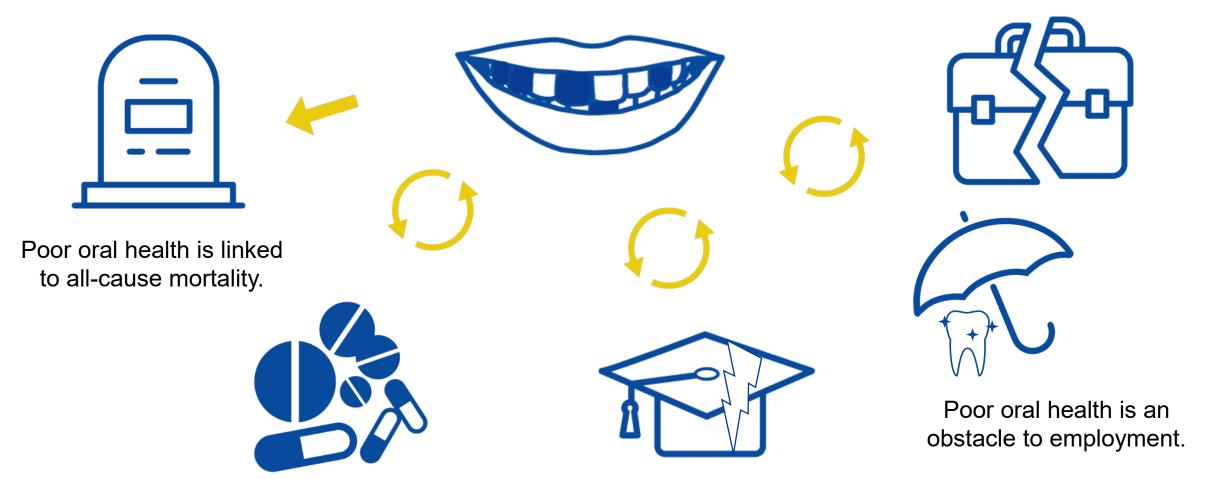
	Total Medicaid Medicare					
100 people		\$100				
50	\$3	\$3	\$5			
5	\$50	\$55	\$40			
1	\$22	\$26	\$15			

Percentage of Persons by Type of Service and Percentile of Spending, 2017, All Payers





Poor Oral Health Has Impacts Beyond Healthcare



Poor oral health is linked to substance use disorders.

Poor oral health impacts children's school attendance and performance.



EMERGENCY DEPARTMENT VISITS FOR DENTAL CONDITIONS













Equity

Fiscal Responsibility

Readmissions

Mortality

Opioids

Antibiotics

Poor Oral Health in Top 10 First-listed Diagnoses Among Treat-and-release ED visits, 2018

First-listed diagnosis	Medicare		Private insurance		Medicaid		Self-pay/ No charge*	
	Number	Rank	Number	Rank	Number	Rank	Number	Rank
Total treat-and-release ED visits	24,073,000	•	35,544,500	-	42,701,500	-	16,168,800	•
Nonspecific chest pain	1,371,900	1	1,841,700	2	1,228,200	6	622,500	5
Abdominal pain, diarrhea, and other digestive symptoms	1,081,700	2	2,137,400	1	2,219,700	2	823,300	1
Superficial injury; contusion	1,026,600	3	1,433,900	4	1,601,800	3	629,800	4
Musculoskeletal pain, not low back pain	1,025,800	4	1,158,300	6	1,334,200	4	590,600	6
Urinary tract infections	858,100	5	794,600	9	1,025,700	9	463,300	8
Respiratory signs and symptoms	717,100	6	683,200	10				
Sprains and strains	546,900	7	1,637,900	3	1,318,800	5	671,700	3
Skin and subcutaneous tissue infections	458,100	8		20	1,014,100	10	522,800	7
Open wounds to limbs	447,800	9	901,900	8			426,000	10
Chronic obstructive pulmonary disease and bronchiectasis	442,100	10		24 24				
Acute upper respiratory infection and other upper respiratory infections [†]			1,398,900	5	3,286,000	1	737,600	2
Pregnancy-related nausea, vomiting, and other pregnancy complications [‡]					1,158,200	7		
Otitis media					1,062,700	8		
Headache; including migraine			1,034,900	7				
Disorders of teeth and gingiva			21	St	,		433,200	9

At home all day - not well. Still indisposed with an aching tooth and swelled and inflamed gum.

George Washington

Having some teeth which are very troublesome to me at times and of which I wish to be eased ... by a man of skill.



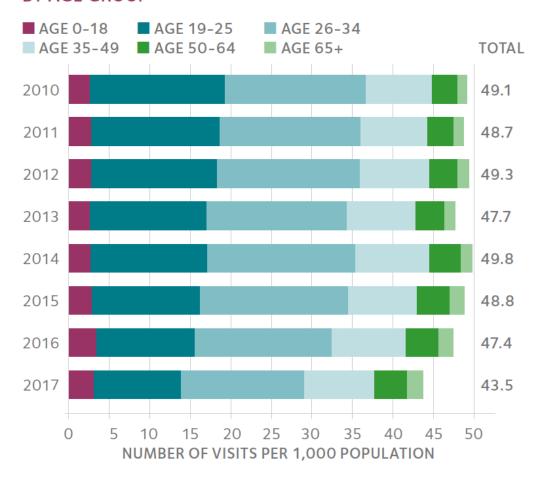
- George Washington in a letter inquiring about a prospective dentist 1783



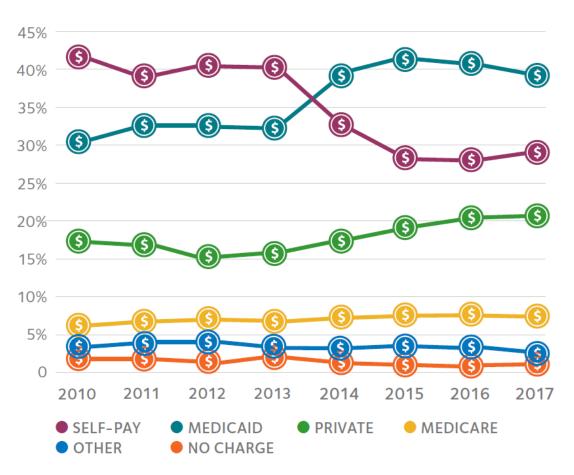
Charles Willson Peale, George Washington 1776 The scar on Washington's left check was a result of an abscessed tooth

Emergency Department Visits for Dental Conditions



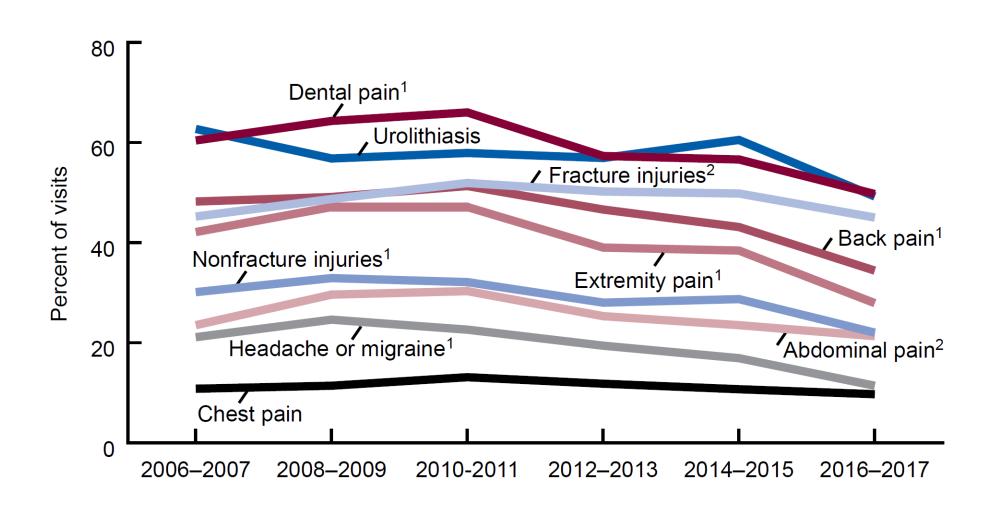


EMERGENCY DEPARTMENT VISITS FOR DENTAL CONDITIONS AMONG ADULTS BY PAYER



Source: ADA Health Policy Institute

Percentage of Emergency Department Visits by Adults at which Opioids were Prescribed





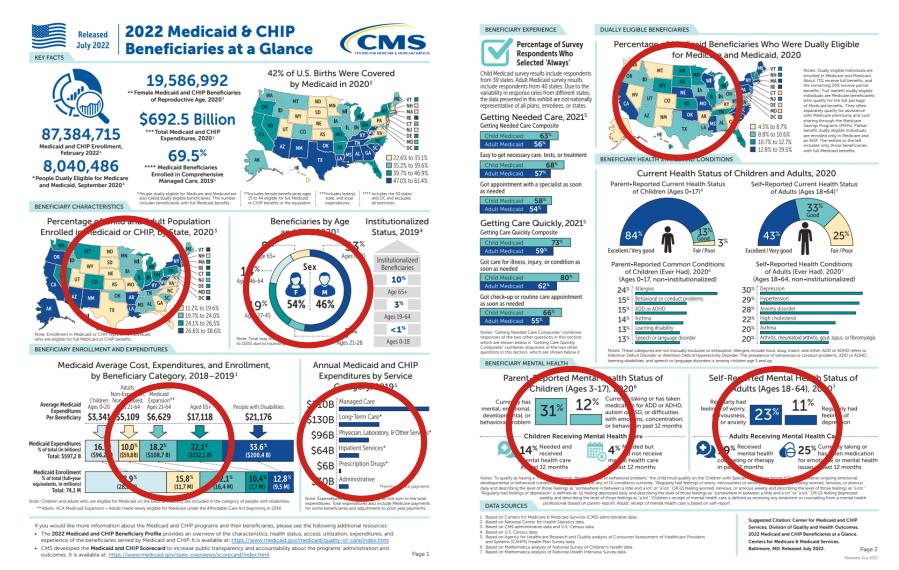
Medicaid Adult Beneficiaries Emergency Department Visits for Non-Traumatic Dental Conditions



https://www.medicaid.gov/medicaid/benefits/downloads/adult-non-trauma-dental-ed-visits.pdf

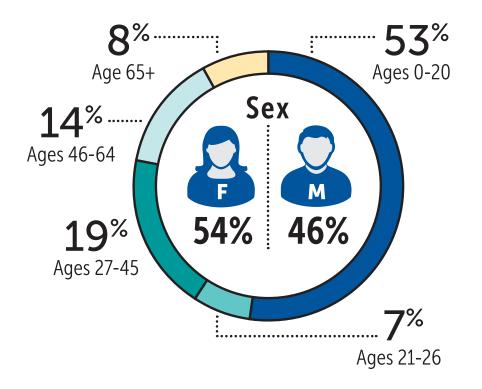
Center for Medicaid and CHIP Services

2022 Medicaid and CHIP Beneficiaries at a Glance

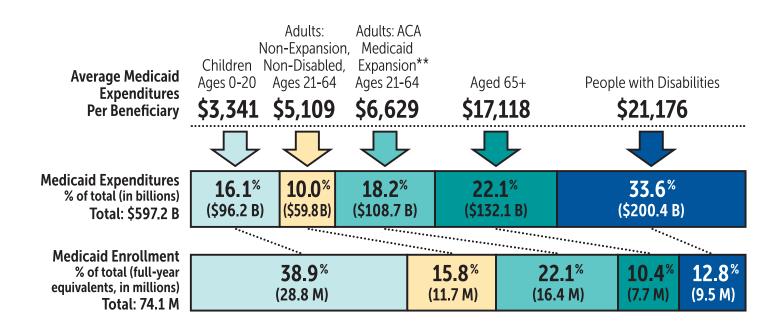




Beneficiaries by Age and Sex, 2020



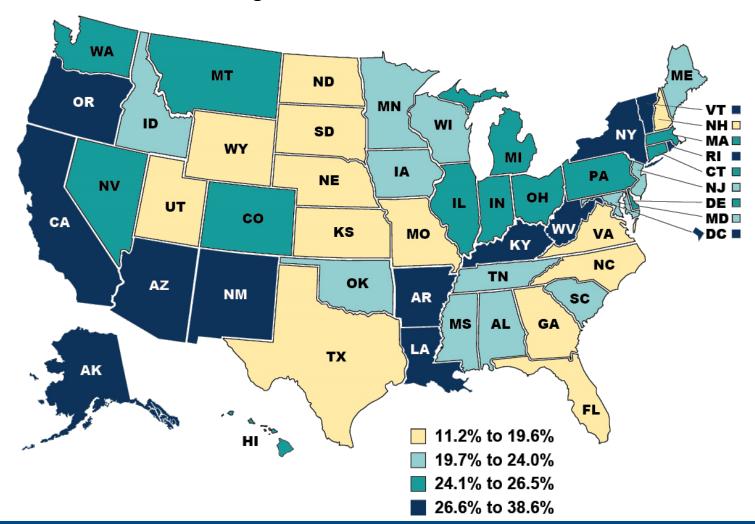
Medicaid Average Cost, Expenditures, and Enrollment, by Beneficiary Category, 2018–2019





Percentage of Child and Adult Population Enrolled in Medicaid or CHIP, by State, December 2020

Population: Beneficiaries of all ages with full Medicaid or CHIP benefits



Notes:

Enrollment in Medicaid or CHIP represents individuals who are eligible for full Medicaid or CHIP benefits and excludes individuals who are eligible only for restricted benefits, such as Medicare cost-sharing, family planning only benefits, and emergency services due to alien status. The percentage of each state's population enrolled in Medicaid or CHIP was calculated by dividing administrative, monthly point-in-time counts of Medicaid and CHIP enrollment by annual estimates of each state's resident population. Results were rounded to one decimal place, and then states were assigned to quartiles.

Sources:

CMS. Updated December 2020 Applications, Eligibility, and Enrollment Data (as of November 10, 2021).

Available at:

https://www.medicaid.gov/medicaid/program -information/medicaid-and-chip-enrollmentdata/monthly-reports/index.html

U.S. Census Bureau, 2020 Census Redistricting Data (Public Law 94-171). Table P1.

Available at:

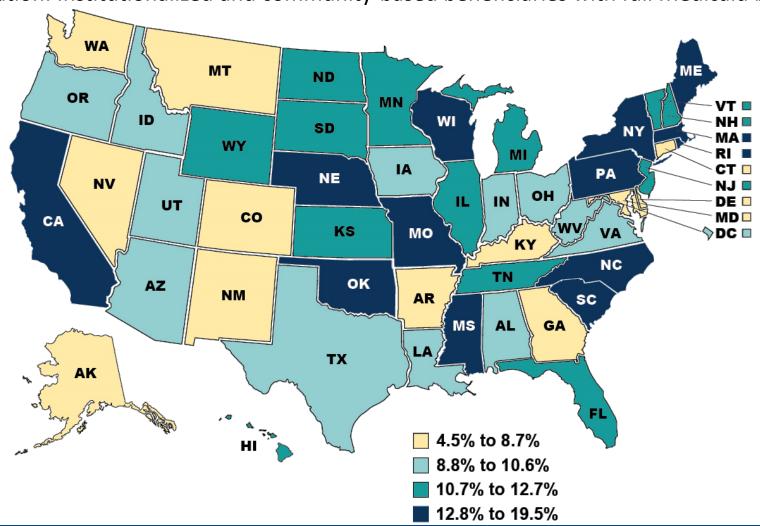
https://data.census.gov/cedsci/all?q=&y=20 20&d=DEC%20Redistricting%20Data%20% 28PL%2094-171%29

See Appendix for more information on each data source.



Percentage of Medicaid Beneficiaries Who Were Dually Eligible for Medicare and Medicaid, 2020

Population: Institutionalized and community-based beneficiaries with full Medicaid benefits



Nationally, 11.3% of Medicaid beneficiaries (8 million people) are dually eligible for Medicare and receive full Medicaid benefits.

Notes:

The percentage of the Medicaid population that is dually eligible by state was calculated by dividing total, full-benefit, dual-eligible enrollment by total Medicaid enrollment. Results were rounded to one decimal place. and then states were assigned to quartiles. The national percentage was calculated by dividing the sum of the state totals.

Sources:

CMS Medicare-Medicaid Coordination Office Quarterly Enrollment Snapshot (September 2020 data, as of July 15, 2021).

Available at:

https://www.cms.gov/Medicare-Medicaid-Coordination/Medicare-and-Medicaid-Coordination/Medicare-Medicaid-Coordination-Office/Analytics

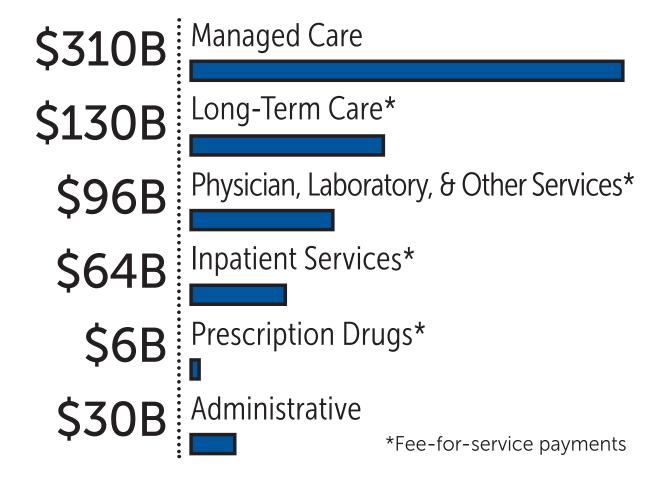
CMS. Updated September 2020 Applications, Eligibility Determinations, and Enrollment Data (as of December 21, 2021).

Available at:

https://www.medicaid.gov/medicaid/program -information/medicaid-and-chip-enrollmentdata/monthly-reports/index.html



Annual Medicaid and CHIP Expenditures by Service Category, 2019





Parent-Reported Mental Health Status of Children (Ages 3-17), 2020

Currently has mental, emotional, developmental, or behavioral problem



12%

Currently taking or has taken medication for ADD or ADHD, autism or ASD, or difficulties with emotions, concentration, or behavior in past 12 months

..... Children Receiving Mental Health Care



14% Needed and received mental health care in past 12 months

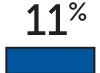


4% Needed but did not receive mental health care in past 12 months

Self-Reported Mental Health Status of Adults (Ages 18-64), 2020

Regularly had feelings of worry, nervousness, or anxiety





Regularly had feelings of depression

----- Adults Receiving Mental Health Care -----



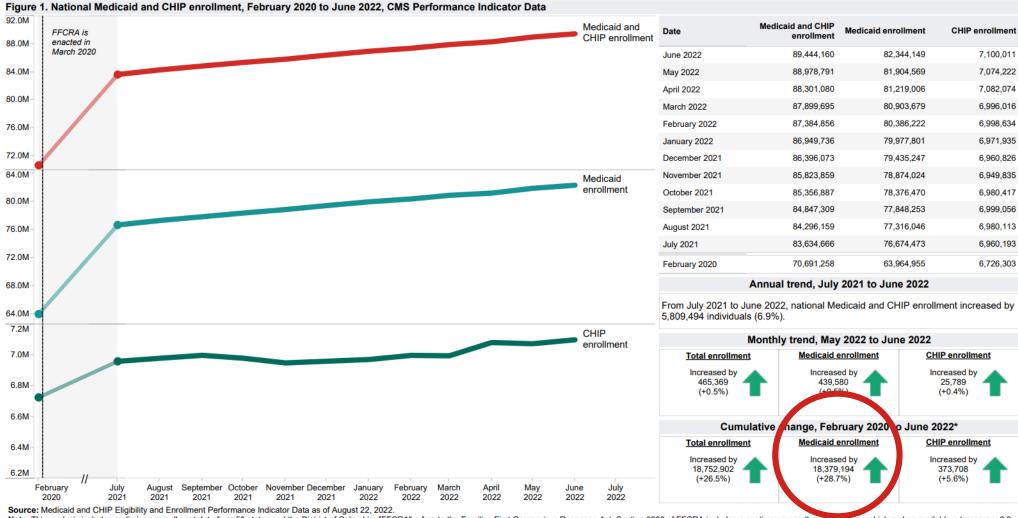
19% Received mental health counseling or therapy in past 12 months



25% Currently taking or has taken medication for emotional or mental health issues in past 12 months



Medicaid and CHIP Enrollment Trends Snapshot



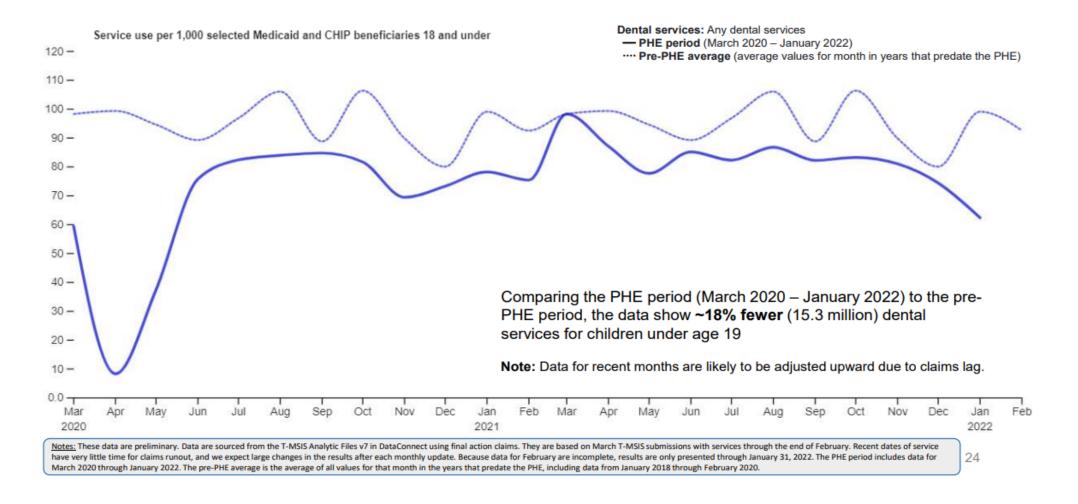
Note: This analysis includes preliminary enrollment data from 50 states and the District of Columbia. "FFCRA" refers to the Families First Coronavirus Response Act. Section 6008 of FFCRA includes a continuous enrollment condition, which makes available a temporary 6.2 percentage point increase to each state or territory's federal medical assistance percentage (FMAP) during the national public health emergency. As a condition of receiving the FMAP increase, states must meet several requirements pertaining to eligibility and maintenance feared leading to the condition of receiving the FMAP increase.



^{*}The cumulative change compares the most recent enrollment data to February 2020, which serves as a baseline of enrollment prior to the impacts of the COVID-19 pandemic and FFCRA's continuous enrollment condition. For additional information on Medicaid and CHIP enrollment from December 2019 to June 2022, please see Appendix A.

Rate of Dental Services for Children During the PHE

After an initial steep decline, remained slightly below pre-PHE levels





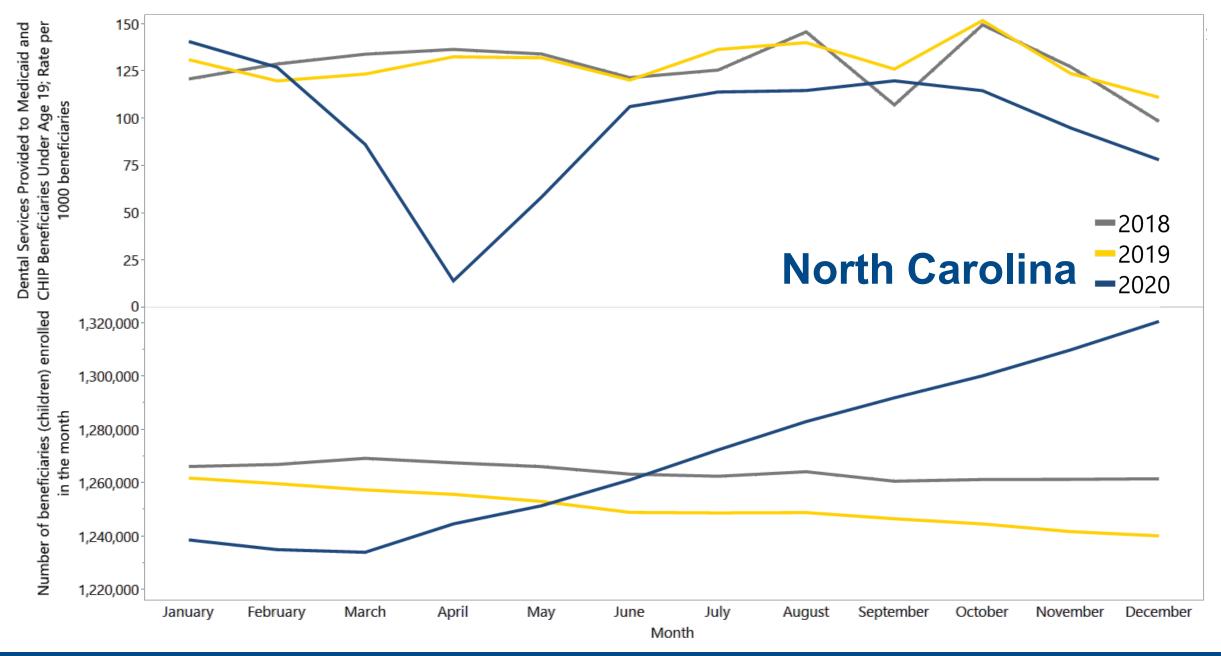
Public Enrollment and Service Use Data

The Centers for Medicare & Medicaid Services (CMS) released the Medicaid and Children's Health Program (CHIP) Enrollment and Service Use Data Tables for the first time to the public.

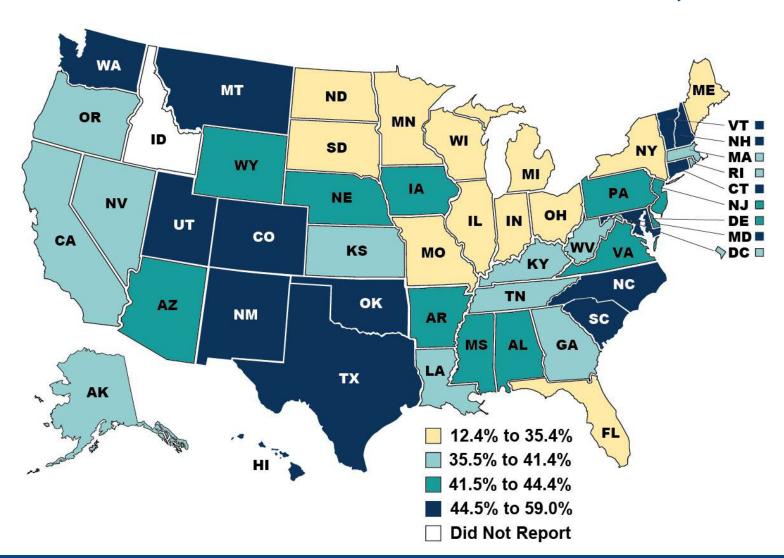
The first set of data tables includes monthly and annual counts of Medicaid and CHIP beneficiaries by the following enrollment characteristics: (1) program type, (2) scope of benefits, (3) dual eligibility status, (4) eligibility groups, and (5) managed care plan participation.

The second set of data tables include monthly counts and rates of services use in the following categories: (1) acute care, (2) behavioral health, (3) blood lead screening, (4) child screening, (5) services for COVID-related conditions, (6) contraceptive care, (7) COVID-19 testing, (8) dental care, (9) perinatal care, (10) pregnancy outcomes, (11) provision of services via telehealth, and (12) vaccinations. These files include information for the 50 states, Washington, DC, Puerto Rico, and the US Virgin Islands.

taf/index.html



Percentage of Medicaid Beneficiaries Ages 1 to 20 Who Received Preventive Dental Services, FFY 2020



Population: Beneficiaries ages 1 to 20 enrolled in Medicaid or Medicaid expansion CHIP programs for at least 90 continuous days and eligible for EPSDT services

Notes:

This measure shows the percentage of children ages 1 to 20 who are enrolled in Medicaid or Medicaid expansion CHIP programs for at least 90 continuous days, are eligible for Early and Periodic Screening, Diagnostic, and Treatment (EPSDT) services, and who received at least one preventive dental service during the measurement period (October 2019 to September 2020).

Source:

Mathematica analysis of Form CMS- 416 reports (annual EPSDT report). Lines 1b and 12b, for the FFY 2020 reporting cycle as of July 2, 2021.

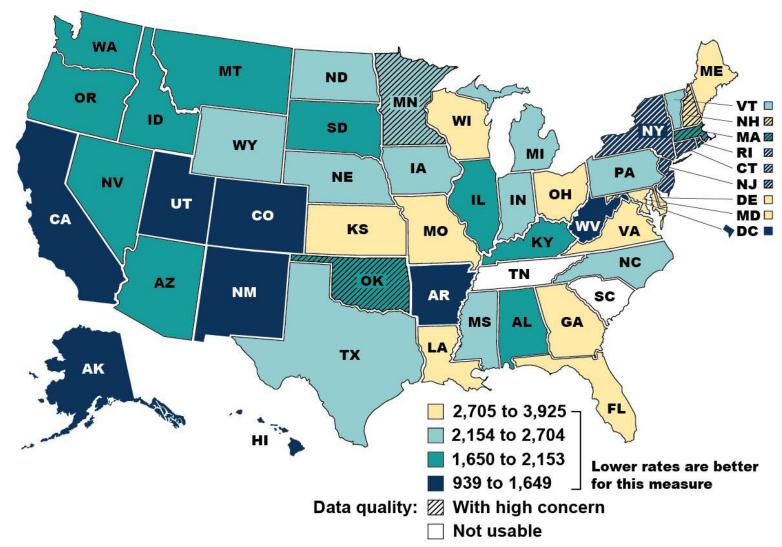
Starting with FFY 2020, some states calculated and submitted their Form CMS-416 reports, while others chose to have CMS produce their Form CMS- 416 reports using Transformed Medicaid Statistical Information System (T-MSIS) data. The FFY 2020 reporting cycle includes services provided between October 2019 and September 2020.

Additional information available at:

https://www.medicaid.gov/medicaid/qua lity-ofcare/downloads/performance- measurement/2021child-chart-pack.pdf



Emergency Department Visits for Non-Traumatic Dental Conditions per 100,000 Adult Beneficiaries, by State, 2019



Population: Medicaid and CHIP beneficiaries ages 21 to 64 with full Medicaid or CHIP benefits and not dually eligible for Medicare

Non-traumatic dental conditions (NTDCs) are dental conditions such as cavities or dental abscesses that might have been prevented with regular dental care. Emergency Department (ED) visits for NTDCs may indicate a lack of access to more appropriate sources of medical and dental care. CMS assessed state-level data quality in the 2019 TAF file using the following metrics: total enrollment, inpatient (IP) and other services (OT) claims volume: completeness of diagnosis code (IP file); completeness of procedure code (OT and IP files); and expected type of bill code (IP file). States with an unusable data quality assessment (TN, SC) are shown in white.

Results for remaining states were rounded to whole numbers, and then states were assigned to quartiles. States with a high concern data quality assessment are shown with a hatched overlay. For additional information regarding state variability in data quality, please refer to the Medicaid DQ Atlas, available at: https://www.medicaid.gov/dg-atlas/welcome.

Source:

CMS analysis of calendar year 2019 T-MSIS Analytic Files. v 5.0.

Additional information available at:

https://www.medicaid.gov/medicaid/benefits/ downloads/adult-non-trauma-dental-ed -visits.pdf and

https://www.medicaid.gov/medicaid/benefits/ dentalcare/index.html



Nursing Homes

THE WHITE HOUSE



BRIEFING ROOM

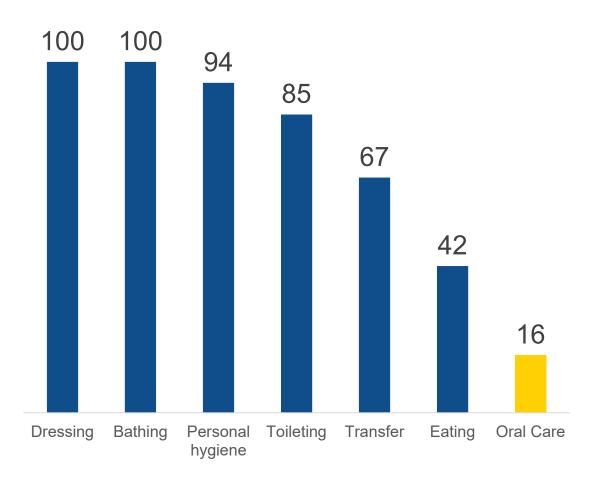
FACT SHEET: Protecting Seniors by Improving Safety and Quality of Care in the Nation's Nursing Homes

FEBRUARY 28, 2022 • STATEMENTS AND RELEASES

All people deserve to be treated with dignity and respect and to have access to quality medical care. The President is committed to ensuring that all Americans, including older Americans and people with disabilities, live in a society that is accessible, inclusive, and equitable. To accomplish that goal, the Administration continues to be committed to home- and community-based services and ensuring that in no case should a health care facility be causing a patient harm. The President believes we must improve the quality of our nursing homes so that seniors, people with disabilities, and others living in nursing homes get the reliable, high-quality care they deserve. That's why he is announcing a set of reforms—developed by and implemented through the Department of Health and Human Services (HHS)—that will improve the safety and quality of nursing home care, hold nursing homes accountable for the care they provide, and make



Oral Care in Nursing Homes



	Care	
Oral Care Provided During Direct Observation*	%	
Teeth were brushed with a toothbrush and toothpaste.	16.4	
Teeth were brushed a minimum of 2 minutes.	0.0	
Mouth was rinsed with water.	16.4	
Mouth was rinsed with mouthwash.	0.0	
Tongue was brushed with a moistened toothbrush.	1.5	
Teeth were flossed.	0.0	
Mouth problems/concerns were assessed.	0.0	
Clean gloves were worn while providing oral care.	0.0	



Oral Care in Nursing Homes



RCT Effectiveness of a Mouth Care Program Provided by Nursing Home Staff on Reducing Pneumonia Incidence

POPULATION

871 Men 1281 Women



All residents of nursing homes with proportionately high rehospitalization rates for pneumonia

Mean (SD) age, 79.4 (12.4) y

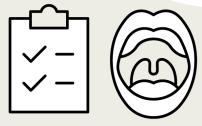
SETTINGS/LOCATIONS



14 nursing homes in North Carolina

INTERVENTION

14 Nursing homes randomized



7 Mouth Care Without a Battle

Nursing homes with 1219 residents received 3 trainings with monthly support visits for 2 years

7 Control

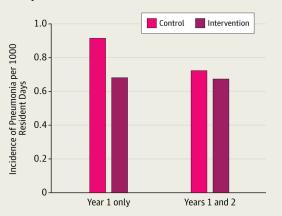
Nursing homes with 933 residents performed standard mouth care

PRIMARY OUTCOME

Incidence rate ratio (IRR) of pneumonia at 2 years based on diagnosis of pneumonia recorded in nurse or provider note

FINDINGS

Compared with standard care, a mouth care program did not reduce pneumonia incidence at 2 years, but a significant reduction was seen in the first year



Year 1 only: adjusted IRR, 0.74; upper bound of 1-sided 95% CI, 0.99; *P*=.03

Years 1 and 2: adjusted IRR, 0.92; upper bound of 1-sided 95% CI, 1.27; *P*= .30

Zimmerman S, Sloane PD, Ward K, et al. Effectiveness of a mouth care program provided by nursing home staff vs standard care on reducing pneumonia incidence: a cluster randomized trial. *JAMA Netw Open*. 2020;3(6):e204321. doi:10.1001/jamanetworkopen.2020.4321

© AMA



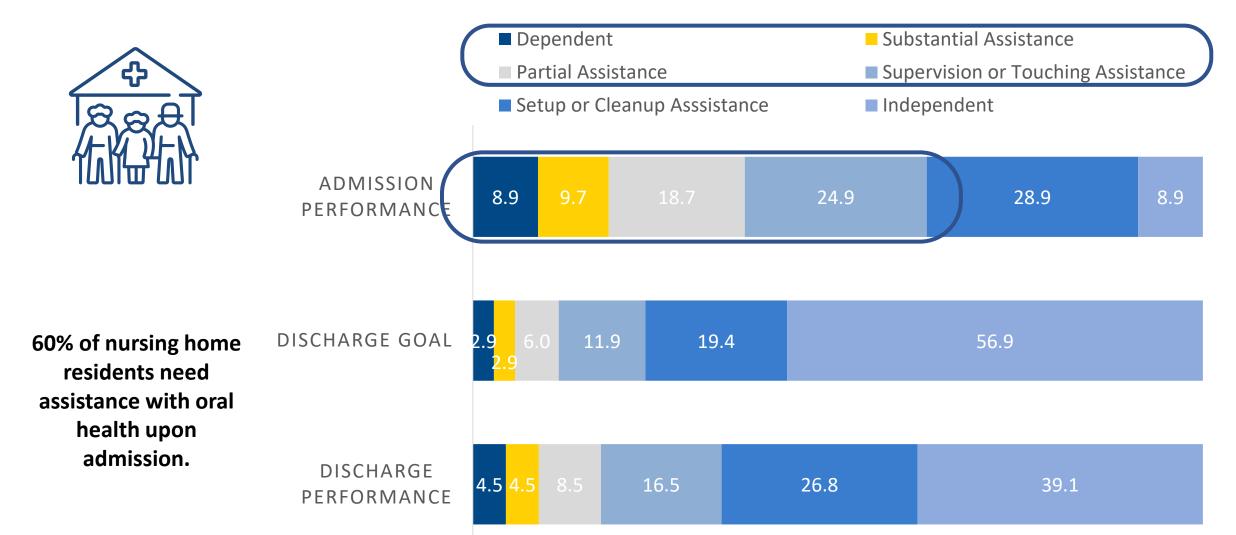
Resident Assessment and Care Screening Minimum Data Set

Resident		Identifier	Date	Resident	Identifier	Date
Section GG	Functional Abilities and	Goals - Admission (Start	of SNF PPS Stay)	Section GG	Functional Abilities and Goals - Discharge (End	l of SNF PPS Stay)
GG0130. Self-Care (Asses Complete only if A0310B =	sment period is days 1 through 3 of the	SNF PPS Stay starting with A2400B)		e (Assessment period is the last 3 days of the SNF PPS Stay ending on A2400C) 0310G is not = 2 and A0310H = 1 and A2400C minus A2400B is greater than 2 a 1	nd A2100 is not = 03
the start of the SNF PPS stay	erformance at the start of the SNF PPS stay ,, code the reason. Code the patient's end				usual performance at the end of the SNF PPS stay for each activity using the 6-point FPPS stay, code the reason.	t scale. If an activity was not attempted
unsafe or of poor quality, sco Activities may be completed w 06. Independent - Reside 05. Setup or clean-up as assists only prior to or 04. Supervision or touch assistance as resident intermittently. 03. Partial/moderate as: supports trunk or limi 02. Substantial/maxima trunk or limbs and pr	rmance - If helper assistance is required becare according to amount of assistance provide the or without assistive devices. ent completes the activity by him/herself with sistance - Helper SETS UP or CLEANS UP; restrolled to the complete strictly. Ining assistance - Helper provides VERBAL CL trompletes activity. Assistance may be provided to complete activity. Assistance may be provided to the complete set in the effort. It assistance - Helper does MORE THAN HALF ovides more than half the effort. It assistance - Helper does MORE THAN HALF ovides more than half the effort.	h no assistance from a helper. ident completes activity. Helper JES or TOUCHING/STEADYING ded throughout the activity or effort. Helper lifts, holds, or the effort. Helper lifts or holds f the effort to complete the activity.	If activity was not attempted, code reason: 07. Resident refused. 09. Not applicable. 88. Not attempted due to medical condition or safety concerns.	Safety and Quality unsafe or of poor quality unsafe or of poor quality unsafe or of poor quality or of poor quality or of poor quality of the poor	of Performance - If helper assistance is required because resident's performance is ality, score according to amount of assistance provided. In pleted with or without assistive devices. It - Resident completes the activity by him/herself with no assistance from a helper. In an-up assistance - Helper SETS UP or CLEANS UP; resident completes activity. Helper orior to or following the activity. In tour touching assistance - Helper provides VERBAL CUES or TOUCHING/STEADYING are resident completes activity. Assistance may be provided throughout the activity or by. In assistance - Helper does LESS THAN HALF the effort. Helper lifts, holds, or not or in the complete in the second of the effort. In assistance - Helper does MORE THAN HALF the effort. Helper lifts or holds as and provides more than half the effort. Helper does ALL of the effort. Resident does none of the effort to complete the activity.	If activity was not attempted, code reason: 07. Resident refused. 09. Not applicable. 88. Not attempted due to medical condition or safety concerns.
1. Admission Performance Lenter Codes in Boxes	A. Cating: The ability to use suitable utensions presented on a table/tray. Includes mode and the place dentures from and to the mouth commode, bedpan, or urinal. If managing the place dentures from a place denture from a place	dified food consistency. It items to clean teeth. [Dentures (if apply), and manage equipment for soaking ain perineal hygiene, adjust clothes be	plicable): The ability to remove and and rinsing them.]	Enter Code Enter Code C. T	ating: The ability to use suitable utensils to bring food to the mouth and swallow food or ray. Includes modified food consistency. The ability to use suitable items to clean teeth. [Dentures (if applicable): The lentures from and to the mouth, and manage equipment for soaking and rinsing them.] The ability to maintain perineal hygiene, adjust clothes before and after urinal. If managing an ostomy, include wiping the opening but not managing equipment.	e ability to remove and replace

Source: https://www.cms.gov/Medicare/Quality-Initiatives-Patient-Assessment-Instruments/NursingHomeQualityInits/Downloads/Archive-Draft-of-the-MDS-30-Nursing-Home-Comprehensive-NC-Version-1140.pdf



Oral Health in Nursing Homes, Malnutrition and Patient Safety





CMS Oral Health Vision



Improve beneficiaries' health by **integrating oral health** and transforming the health care system to advance health equity, expand coverage and improve health outcomes.

Oral Health Strategy Fundamental Principles







Evidence Empowered



Data Driven



Integration Centered



Stakeholder Engagement



Innovation Focused



CMS Commitment to Enhance the Oral Health for All Beneficiaries Reflected in Proposed Rules and RFIs



CMCS RFI on Access to Care and Coverage

Biden-Harris Administration Announces Request for Information on Access to Care and Coverage for People Enrolled in Medicaid and CHIP

Feb 17, 2022 Medicaid & CHIP

Share







As part of the Biden-Harris Administration's work to advance health equity and reduce health disparities, the Centers for Medicare & Medicaid Services (CMS) is seeking feedback on topics related to health care access, such as enrolling in and maintaining coverage, accessing health care services and supports, and ensuring adequate provider payment rates to encourage provider availability and quality. This Request for Information (RFI) is one of many actions CMS is taking to develop a more comprehensive access

Objective 5: Payment rates in Medicaid and CHIP are sufficient to enlist and retain enough providers so that services are accessible. Section 1902(a)(30)(A) of the Social Security Act (the "Act") requires that Medicaid state plans "assure that payments are consistent with efficiency, economy, and quality of care and are sufficient to enlist enough providers so that care and services are available under the plan at least to the extent that such care and services are available to the general population in the geographic area." Section 1932 of the Act includes additional provisions related to managed care. Section 2101(a) of the Act requires that child health assistance be provided by States "in an effective and efficient manner...." CMS is interested in leveraging existing and new access standards to assure Medicaid and CHIP payments are sufficient to enlist enough providers to ensure that beneficiaries have adequate access to services that is comparable to the general population within the same geographic area and comparable across Medicaid and CHIP beneficiary groups, delivery systems, and programs. CMS also wants to address provider types with historically low participation rates in Medicaid and CHIP programs (e.g., behavioral health, dental, etc.). In addition, CMS is interested in non-financial policies that could help reduce provider burden and promote provider participation.

The comment period closed on February 17, 2022



CMMI ACO REACH Model

Accountable Care Organization (ACO) Realizing Equity, Access, and Community Health (REACH) Model

Feb 24, 2022 | Innovation models, Medicare Parts A & B

Share









Overview

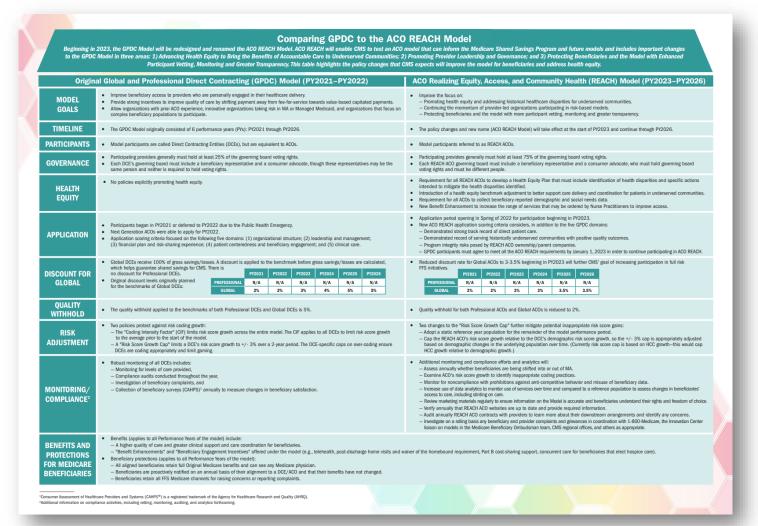
The Centers for Medicare & Medicaid Services (CMS) has redesigned the Global and Professional Direct Contracting Model (GPDC) Model to advance Administration priorities, including our commitment to advancing health equity, and in response to stakeholder feedback and participant experience. The Center for Medicare and Medicaid Innovation (Innovation Center) is releasing a Request for Applications (RFA) to solicit a cohort of participants for the Accountable Care Organization (ACO) Realizing Equity, Access, and Community Health (REACH) Model. The GPDC model will be renamed the ACO REACH model to better align the model's name with its purpose: to encourage health care providers to coordinate care to improve the care offered to people with Medicare – especially those from underserved communities, a priority of the Biden-Harris Administration.

Additional examples of in-kind incentives that ACOs could consider offering might include but are not limited to:

• Vouchers for dental care services, for example, prior to jaw surgery to reduce the risk of infection.



Comparing GPDC to the ACO REACH Model



HEALTH EQUITY

GPDC

No policies explicitly promoting health equity.

ACO REACH

- Requirement for all REACH ACOs to develop a
 Health Equity Plan that must include identification
 of health disparities and specific actions
 intended to mitigate the health disparities
 identified.
- Introduction of a health equity benchmark adjustment to better support care delivery and coordination for patients in underserved communities.
- Requirement for all ACOs to collect beneficiaryreported demographic and social needs data.
- New Benefit Enhancement to increase the range of services that may be ordered by Nurse
 Practitioners to improve access



Medicare Advantage RFI

CMS Seeks Public Feedback to Improve Medicare Advantage

Jul 28, 2022

Medicare Part D

Share









Today, the Centers for Medicare & Medicaid Services (CMS) released a Request for Information seeking public comment on the Medicare Advantage program. CMS is asking for input on ways to achieve the agency's vision so that all parts of Medicare are working towards a future where people with Medicare receive more equitable, high quality, and person-centered care that is affordable and sustainable.

In the Medicare Advantage program – also known as Medicare Part C – Medicare contracts with private insurers that must offer all Traditional Medicare services to people with Medicare and may offer added supplemental benefits, such as vision or dental benefits. Most Medicare Advantage Plans also include prescription drug coverage (Part D).

The comment period closed on August 31, 2022



2023 Medicare Physician Fee Schedule Proposed Rule

CMS Proposes Physician Payment Rule to Expand Access to High-Quality Care

Jul 07, 2022 Medicare Parts A & B

Share







The Centers for Medicare & Medicaid Services (CMS) today issued the Calendar Year 2023 Physician Fee Schedule (PFS) proposed rule, which would significantly expand access to behavioral health services, Accountable Care Organizations (ACOs), cancer screening, and dental care — particularly in rural and underserved areas. These proposed changes play a key role in the Biden-Harris Administration's Unity Agenda — especially its priorities to tackle our nation's mental health crisis, beat the overdose and opioid epidemic, and end cancer as we know it through the Cancer Moonshot — and ensure CMS continues to deliver on its goals of advancing health equity, driving high-quality, whole-person care, and ensuring the sustainability of the Medicare program for future generations.

2023 Medicare Physician Fee Schedule Proposed Rule: **Dental services that are inextricably linked to, substantially related to, and integral to the clinical success of covered medical.**

The comment period closed on September 6, 2022



2023 Medicare OPPS Proposed Rule

Fact sheet

CY 2023 Medicare Hospital Outpatient Prospective Payment System and Ambulatory Surgical Center Payment System Proposed Rule (CMS 1772-P)

Jul 15, 2022 | Ambulatory surgical centers, Hospitals

Share









On July 15, 2022, the Centers for Medicare & Medicaid Services (CMS) proposed Medicare payment rates for hospital outpatient and Ambulatory Surgical Center (ASC) services. The calendar year (CY) 2023 Hospital Outpatient Prospective Payment System (OPPS) and ASC Payment System Proposed Rule is published annually and will have a 60-day comment period, which will end on September 13, 2022. The final rule will be issued in early November.

The comment period closed on September 13, 2022

In calendar year (CY) 2022, CPT code 41899 was assigned to APC 5161 (Level 1 ENT Procedures) with a payment rate of **\$216.07**. In the proposed rule, CMS proposed to reassign CPT code 41899 to clinical APC 5871 (Dental Procedures). This proposed change, if finalized, would increase the payment rate for dental procedures described by CPT 41899 to more closely align with the cost of the dental procedures described by this code than with its current APC assignment. The proposed CY 2023 payment rate for CPT 41899 is **\$1,956.32.**



HHS Announces Proposed Rule to Strengthen Nondiscrimination in Health Care

FOR IMMEDIATE RELEASE July 25, 2022 Contact: HHS Press Office 202-690-6343 media@hhs.gov

HHS Announces Proposed Rule to Strengthen Nondiscrimination in Health Care

The proposed rule affirms protections consistent with President Biden's executive orders on nondiscrimination based on sexual orientation and gender identity, and on protecting access to reproductive health care.

Today, the U.S. Department of Health and Human Services (HHS) announced a proposed rule implementing Section 1557 of the Affordable Care Act (ACA)(Section 1557) that prohibits discrimination on the basis of race, color, national origin, sex, age, and disability in certain health programs and activities. This proposed rule restores and strengthens civil rights protections for patients and consumers in certain federally funded health programs and HHS programs after the 2020 version of the rule limited its scope and power to cover fewer programs and services.

The proposed rule affirms protections against discrimination on the basis of sex, including sexual orientation and gender identity consistent with the U.S. Supreme Court's holding in *Bostock v. Clayton County*, and reiterates protections from discrimination for seeking reproductive health care services. Strengthening this rule is part of the Biden-Harris Administration's commitment to advancing gender and health equity and civil rights, as laid out in President Biden's executive orders on <u>Preventing and Combatting Discrimination on the Basis of Gender Identity or Sexual Orientation, Protecting Access to Reproductive Healthcare Services, and Advancing Racial Equity and Support for Underserved Communities.</u>

- ... Compared to individuals without disabilities, people with disabilities are more likely to have unmet medical, dental, and prescription medication needs—especially women with disabilities and individuals with disabilities who have lower incomes. Individuals with disabilities are also less likely to receive preventive health care services, such as routine teeth cleanings and cancer screenings. ...
- ... The third category of health care staff that the Department assumes will receive training comprises non-degreed medical assistants (Occupation code 31– 0000), and includes psychiatric and home health aides, orderlies, dental assistants, and phlebotomists. ...

The comment period closes on October 3, 2022



OBRHI Make your Voice Heard RFI

Make Your Voice Heard Request for Information Seeks Public Comment to Promote Efficiency, Reduce Burden, and Advance Equity within CMS Programs

Sep 06, 2022 Initiatives, Partnerships, Quality

Share







Today, the Centers for Medicare & Medicaid Services (CMS) released a Request For Information (RFI) seeking public input on accessing healthcare and related challenges, understanding provider experiences, advancing health equity, and assessing the impact of waivers and flexibilities provided in response to the COVID-19 Public Health Emergency.

The comment period closes on November 4, 2022



Example responses may include, but are not limited to:

- Challenges accessing comprehensive and timely healthcare services and medication, including primary care, long-term care, home and community-based services, mental health and substance use disorder services:
- Challenges in accessing care in underserved areas, including rural areas;
- Receiving culturally and linguistically appropriate care (e.g., tailoring services to an individual's culture and language preferences);
- Challenges with health plan enrollment;
- Challenges of accessing reproductive health services;
- · Challenges of accessing maternal health services;
- Challenges of accessing oral health services and the impact on overall health;
- Understanding coverage options, and/or technology to support access to coverage; and,
- Perspectives on how CMS can better communicate quality standards and accessibility information to individuals, particularly those with social risk factors.



CMCS Streamlining Eligibility & Enrollment

Streamlining Eligibility & Enrollment Notice of Propose Rulemaking (NPRM)

Aug 31, 2022 Medicaid & CHIP

Share









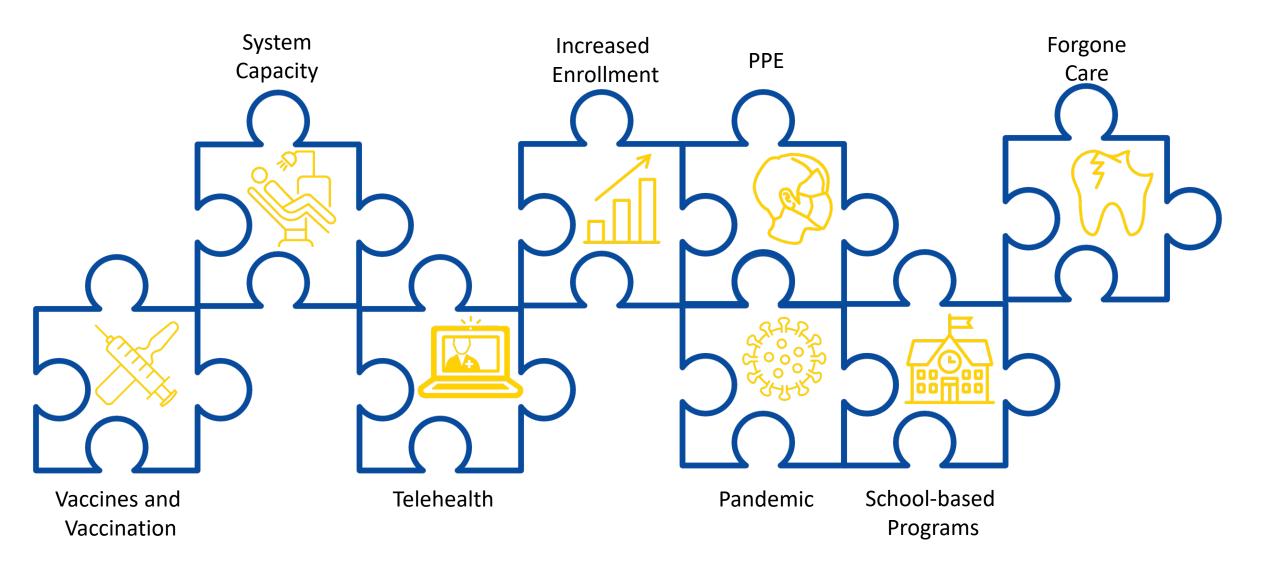
The Centers for Medicare & Medicaid Services' (CMS') new proposed rule would make it easier for millions of eligible people to enroll in and retain their Medicaid coverage. The rule would reduce red tape and simplify applications, verifications, enrollment, and renewals for health care coverage through Medicaid and the Children's Health Insurance Program (CHIP). The proposed rule responds to President Biden's January 2021 and April 2022 Executive Orders to strengthen Medicaid and access to affordable, quality health coverage.

The CMCS Proposed Rule: We propose to redesignate current paragraphs (a) and (b) of § 457.480, as paragraphs (b) and (c) respectively, and to add a new paragraph (a) to prohibit annual and lifetime dollar limits in the provision of all CHIP medical and dental benefits.

The comment period closes on November 7, 2022



Oral Health: Challenges and Opportunities





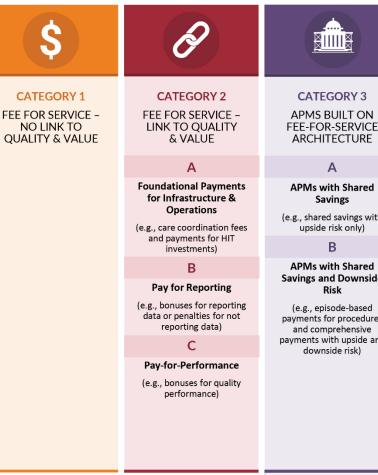
Appendix



LAN APM Framework

The Health Care Payment Learning & Action Network (HCPLAN or LAN)

- First published in 2016 and then refreshed in 2017, the APM Framework established a common vocabulary and pathway for measuring and sharing successful payment models
- 4 Categories & 8 Subcategories
- Has become the foundation for implementing APMs





Α

(e.g., shared savings with upside risk only)

Α

APMs with Shared Savings and Downside Risk

(e.g., episode-based payments for procedures and comprehensive payments with upside and downside risk)

Condition-Specific Population-Based Payment

(e.g., per member per month payments, payments for specialty services, such as oncology or mental health)

Comprehensive Population-Based Payment

(e.g., global budgets or full/percent of premium payments)

Integrated Finance & Delivery System

(e.g., global budgets or full/percent of premium payments in integrated systems)

3N Risk Based Payments NOT Linked to Quality

4N **Capitated Payments** NOT Linked to Quality

Accountable Care Definition



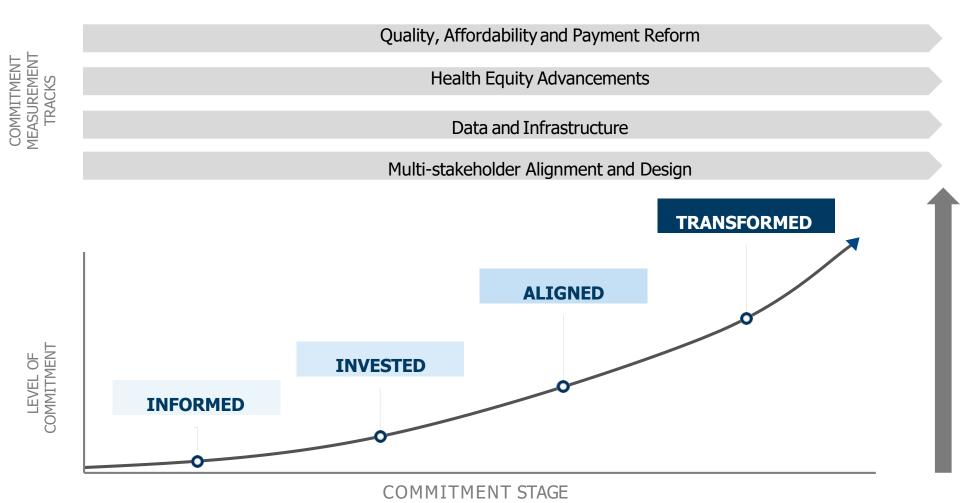
Accountable Care

"Accountable care" aligns care teams to help realize the best achievable health outcomes for all through comprehensive, high-value, affordable, longitudinal, person-centered care.

Encouraging Greater Commitment



The Accountable Care Commitment Curve will inform a tailored approach to enhance stakeholder capabilities to drive accountable care.



The LAN will pursue targeted tactics to leverage stakeholder progress along the curve. By understanding key priorities for each stakeholder and opportunities to help them accelerate overall progress, the LAN can tailor its engagement activities to have the greatest impact.

Moving Along the Commitment Curve – Implementing Person-Centered Care*



COMMITMENT TRACKS	INFORMED	INVESTED	ALIGNED	TRANSFORMED
Payment Reform and Care Quality & Affordability		 Participates in, administers, or covers shared savings arrangements (Category 3A) 	Grows participation in downside risk arrangement(s) that support accountable care, with links to quality, affordability, and well-coordinated specialized care (CMMI model, Category 3B)	Population-based payment or shared savings options that support accountable care with downside risk arrangements (Category 3B or 4), to strengthen primary care and well-coordinated specialized care
Health Equity Advancements	 Engages with LAN: Signed up for the LAN listserv Attended LAN Summit or other LAN event(s) 	 Commits to improving equity (e.g., publicly announcing equity goals or commitment, commitment to HEAT guidance) Develops a plan for health equity 	 Significantly invests in equity (e.g., measures or targets initiatives to improve equity, industry equity accreditation or similar, implementation of HEAT recommendations) Measures and reports outcomes disparities 	 Embeds accountability for improving equity in organizational mission, through governance/op model (e.g., payments to support equity) and sustained investments Measurable reduction in disparities, improved outcomes across populations
Data and Infrastructure	other Exivevent(s)	Invests in improved data/infrastructure (e.g., interoperability, advanced EMRs, modernized systems, participation in APM Measurement Effort)	Significantly invests in data sharing that enables measurable progress on payment reform, quality, affordability, and equity (e.g., participation in HIE)	Implements advanced data sharing infrastructure, activities (interoperable data collection, use, and sharing) to measure progress on payment reform, quality, affordability, and equity
Multi- stakeholder Alignment and Design			Participates in multi-stakeholder efforts to advance accountable care or multi- stakeholder models/arrangements for measurable progress in system-wide regional, state, or national goals	Leads multi-stakeholder efforts to advance accountable care or multi- stakeholder models/arrangements for measurable progress in system-wide regional, state, or national goals



= criteria is required for stakeholder to move to Commitment Curve stage that star is located in

Dependencies/Relationship Between Social Risk Adjustment and Other APM Design Elements

