

Recent Dental Therapy and Oral Health Workforce Literature in the U.S.

Title of Article & Publishing Source	Date Published	Category	Synopsis of article
Nation Wide Oral Health Research			
Dental Therapists in the United States, Health equity, advancing. <i>Medical Care</i>	October, 2021	Access, Workforce, and Economic Viability	Journal findings include: Health equity is a driving force for dental therapy adoption. Community engagement has been evident in diverse statewide coalitions. National accreditation standards for education programs that can be deployed in 3 years without an advanced degree reduces educational barriers for improving workforce diversity. Safe, high-quality care, improvements in access, and patient acceptability have been well documented for DTs in practice.
Effects of Racism on Oral Health in the United States <i>Community Dental Health</i>	June, 2021	Demographics and Access	The impact of racism on oral health in the US is rooted in the historical contexts of race and the evolution of racism in society. The common experiences of people in racial groups with morbidity and mortality from oral diseases align with historical interpersonal, institutional, and structural inequities. Additionally, the lack of effort to contextualize race and address racism in oral health minimizes its impact. It also does not allow empirical validation of racism as a determinant of poor oral health. Moving forward, there are opportunities to address racism through research, education, and dental practice.
Oregon Tribes Dental Health Aide Therapist Pilot Project. <i>Northwest Portland Area Indian Health Board</i>	2021	Access and Economic Viability	A factsheet highlighting the gains to the dental care delivery system in one Oregon tribal community. Since bringing Dental Therapists on board the clinic has been able to significantly lower the average wait time before an appointment along with a 70% increase in productivity, provided high quality care and provided professional wage jobs for dental therapists.
Projected Supply of Dentists in the United States, 2020-2040. <i>Health Policy Institute, American Dental Association</i>	May, 2021	Workforce	Research brief detailing the projected supply of dentists in the US. Projections indicate growth in the supply of dentists. The issue of provider adequacy is far more complex and further research is needed.
A Coming Surge in Oral Health Treatment Needs. Pandemic-related events appear poised to create a spike in oral disease among adults.	April, 2021	Access, Demographics, and Cost Barriers	Report highlighting that COVID-19 related job losses, hesitation to visit a dental office due to the pandemic, and a pre-existing high number of uninsured or underinsured adults pre-pandemic have set the nation on a path toward a potentially serious wave of oral disease in the near future. Communities of color were more likely to experience COVID-related loss of

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<i>CareQuest Institute for Oral Health</i>			dental insurance, underscoring that structural barriers are what drive lack of access to care.
Health Policy Institute Infographics <i>Health Policy Institute, American Dental Association</i>	April, 2021	Access, Demographics, Workforce, Cost Barriers, and Economic Viability	Current data broken into useful infographics, detailing dental care utilization among US population, cost barriers to dental care, the racial and ethnic mix of dental students and dental workforce, and dental migration across state lines.
Supply of Care by Dental Therapists and Emergency Dental Consultations in Alaska Native Communities in the Yukon Kuskokwim delta: a mixed methods evaluation. <i>Community Dental Health Journal</i>	March, 2021	Access and Demographics	A mixed method report using electronic health records and interview data to examine the relationship between the supply of care provided by dental therapists and emergency dental consultations in Alaska Native communities. Results found that Alaskan Native children, and to a lesser extent adults, in communities served more intensively by dental therapists have benefitted.
Despite COVID-19 Challenges Dental Therapy Had a Watershed 2020 and Is Poised to Grow. Midlevel providers have proved crucial to practices and patients during the pandemic. <i>The Pew Charitable Trusts</i>	January, 2021	Access, Workforce, and Economic Viability	A report highlighting gains in dental therapy during 2020, The first dental therapy education program gained accreditation and evidence supporting the benefits if dental therapy continues to grow. New research continues to demonstrate the benefits dental therapists bring to patients, practices, and underserved communities.
How Evidence-based is US Dental Workforce Policy for Rural Communities? <i>Center for Health Workforce Studies</i>	September, 2020	Workforce and Demographics	There is minimal evidence that increased reimbursement of Medicaid is an effective or widely used strategy to recruit providers to rural areas. There is growing evidence to suggest the positive impact of dental pipeline programs that provide a pathway for underrepresented and low-income students who go on to serve the rural and underserved communities they come from.
Contributions of Dental Therapists and Advanced Dental Therapists in the Dental Centers of Apple Tree Dental in Minnesota. <i>Center for Health Workforce Studies</i>	August, 2020	Access and Economic Viability	The introduction of DT's in Minnesota over a ten-year period of time shows that clinics saw more patients, provided more services, and increased gross revenue after integrating DT's into their teams.
Consumer Survey Focused on Parents' Experiences Accessing Oral Health Services for Their Children.	February, 2020	Access and Demographics	Children whose parents were from underrepresented communities or low-income households, in both rural and urban areas were significantly less likely to always receive dental care when needed than other children.

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<i>Center for Health Workforce Studies</i>			Additionally, many of these children’s parents reported needing to travel 30 minutes or more to see a dental provider.
Oral Health Status Has Improved for Children, but Some Gaps in Treatment Access Persist.	February, 2020	Access and Demographics	Children and Adolescents in the US have made substantial oral health gains in recent years, while the prevalence of dental disease for adults has remained fairly constant. Regardless of improvements for overall oral health, significant oral health disparities have persisted or widened between white and other racial/ethnic groups and between higher and lower income groups of all ages.
<i>The Pew Charitable Trusts</i>			
Oral Health Surveillance Report.	2019	Access and Demographics	Disparities in oral health remain by race or ethnicity and poverty. While improvements have been made to access for children and adolescents, adults and older adults’ rates remained stagnant with no detectable changes since the last report from 1999-2004.
<i>Center for Disease Control (CDC)</i>			
National Model Act for Licensing or Certification of Dental Therapists.	January, 2019	Policy Guidance	Report outlining evidence-based policies for licensing or certification of Dental Therapists to establish national standard for the emerging profession.
<i>National Dental Therapy Standards Consortium</i>			
Main Barriers to Getting Needed Dental Care All Relate to Affordability.	April, 2019	Access	Research brief with data collected from 2013-2016, approximately 15.2% of the U.S. population needed dental care but did not obtain it. Financial reasons stemming from cost and insurance coverage, were among the top barriers cited, and were more frequently reported among low-income working age adults and seniors, as well as high-income working-age adults.
<i>Health Policy Institute, American Dental Association</i>			
Dental Therapy Seen as a Best Practice for Boosting Access to Care.	June, 2019	Access	According to the Association of State and Territorial Dental Directors, Dental Therapy should be considered a best practice when assessing how to boost access to oral healthcare for underserved populations.
<i>The Pew Charitable Trusts</i>			
Provider and Community Perspectives of Dental Therapists in Alaska’s Yukon-Kuskokwim Delta: A qualitative program evaluation.	August, 2019	Access and Demographics	A qualitative program evaluation examining the health providers and community members experiences with dental therapy in Alaska Native communities. Findings indicate that Dental Therapists have contributed to the dental care delivery system, particularly for children, but that opportunities remain to strengthen the dental care delivery system in this community.
<i>Community Dentistry and Oral Epidemiology</i>			

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Minnesota's Dental Therapists Workforce. <i>Minnesota Department of Health</i>	September, 2019	Workforce	A report highlighting the workforce distribution of Minnesota's dental therapists. Focus areas include demographics, education, employment, and geographic distribution.
Dental Therapy in Minnesota Issue Brief <i>Minnesota Dept. of Health and Board of Dentistry</i>	June, 2018	Access and Economic Viability	An issue brief examining the impacts of authorizing dental therapy statewide in Minnesota, highlighting the success in increasing access to care. Data includes access to care, financial viability and education, certification, licensure and practice.
An Advanced Dental Therapist in Rural Minnesota: Jodi Hager's case study. <i>Apple Tree Dental</i>	February, 2018	Access, Work Force, and Economic Viability	This case study examines and evaluates the work of Jodi Hager, an advanced dental therapist in Minnesota from 2014-2016. The analysis reports on the productivity and cost effectiveness of employing a dental therapist in a rural dental practice and results strongly suggest that other rural dental practices could benefit from adding a dental therapist to their dental care team.
A Dental Therapist in Long-Term Care: Heather Luebben's story. <i>Apple Tree Dental</i>	February, 2018	Access and Economic Viability	This report provides an analysis of the productivity and cost effectiveness of an advanced dental therapist with the focus on the appropriateness and potential benefit of using dental therapists to serve institutionalized elderly. Findings suggest that dental programs that provide care to this population can use this model successfully.
Grand Marais Family Dentistry: Dental Therapists Case Study and Addendum: Dental Therapists Production and Revenues. <i>Wilder Research</i>	May, 2017	Access and Economic Viability	This mixed methods case study examines the experience of adding dental therapists to one private, for-profit clinic setting in Minnesota and how that contributes to health care's triple aim of increasing access to care, providing quality care, and increasing cost effectiveness. Results found that adding dental therapists in this setting both benefited the clinic and presented some potential challenges.
Midwest Dental: Dental Therapist Case Study and Addendum: Dental Therapists Production and Revenues <i>Wilder Research</i>	May, 2017	Access and Economic Viability	This mixed methods case study examines the experience of adding dental therapists to one private, for-profit clinic setting in Minnesota and how that contributes to health care's triple aim of increasing access to care, providing quality care, and increasing cost effectiveness. Results found that adding dental therapists in this setting both benefited the clinic and presented some potential challenges.
Dental Utilization for Communities Served by Dental Therapists in Alaska's Yukon Kuskokwim Delta: Findings from an Observational Quantitative Study.	August, 2017	Access and Demographics	Increased DT treatment days were significantly associated with increased rates of preventative care and decreased rates of extractions for children and adults. Communities with the highest number of DT treatment days exhibited higher rates of preventative care and lower rates of invasive

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<i>University of Washington School of Dentistry</i>			dental treatments for children and adults compared to communities with no treatment days.
Examining Oral Health Care Utilization and Expenditures for Low-Income Adults.	November, 2017	Access	Despite more preventative services use in states with more generous adult dental benefits, rates of utilization were low across the board, suggesting persistent barriers other than a state's benefit level. Other barriers to consider may include: An inadequate provider network; logistical barriers to appointments, such as transportation and difficulty taking time off from work; low rates of oral health literacy; and lack of knowledge about Medicaid dental benefits and how to access them. Increasing the number of providers in a region is an important building block to access.
<i>Center for Health Care Strategies, Inc</i>			
How Dental Therapists Can Address the Social and Racial Disparities in Access to Care	June, 2017	Access and Demographics	There is mounting evidence linking poor oral health to poor overall health outcomes. There are myriad systemic barriers to accessing dental services, particularly among the vulnerable, underserved, and communities of color. An alternative model of dental care delivery that could address racial and social disparities in access to care is dental therapy.
<i>American Journal of Public Health</i>			
Improving Dental Care Access in Rural America.	November, 2015	Workforce and Access	Dental health professional shortage areas remain a large-scale issue in rural America. One way to address this access issue would be to authorize midlevel providers like Dental Therapists. Rural communities benefit from programs that lower costs and improve health.
<i>The Pew Charitable Trusts</i>			
Safety Net Care and Midlevel Dental Practitioners: A case study of the portion of care that might be performed under various setting and scope of practice assumptions.	September, 2015	Workforce and Access	Much of the oral health need among vulnerable populations is well within the scope of work of midlevel providers, suggesting that their needs are not too complicated for these practitioners. Overall findings indicate that adding this type of midlevel dental provider to a dental team, where providers practice at the top of their scope of work, does indeed have potential to alleviate much of the large and growing burden currently placed on the dental safety nets.
<i>American Journal of Public Health</i>			
Expanding the Dental Team: Increasing access to care in public settings.	June, 2014	Access and Economic Viability	Nonprofits can stretch their dollars to reach more underserved populations by utilizing midlevel providers to deliver routine restorative care. Utilizing dental therapists resulted in more care for underserved populations.
<i>The Pew Charitable Trusts</i>			
Expanding the Dental Team: Studies of two private practices.	February, 2014	Access, Workforce, and Economic Viability	Significant numbers of underserved patients were able to get care and the two private practices employing dental therapists continued generating profits. Dentists were able to focus on more complex procedures that generate higher revenue by using dental therapists to perform routine restorative procedure.
<i>The Pew Charitable Trusts</i>			

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Economic Viability of Dental Therapists.	May, 2013	Access and Economic Viability	Dental therapists are productive in various clinic settings, there is potential that they can be cost-effective members of dental teams and improve access to care, especially for traditionally hard to reach and underserved populations.
<i>Community Catalyst</i>			
A review of the Global Literature on Dental Therapists.	2013	Economic Viability and Workforce	Evidence indicates that dental therapists provide effective, quality, and safe care for children in an economical manner and are generally accepted both by the public and where their use is established by the dental profession.
<i>National Library of Medicine</i>			
Washington Specific Data			
Access to Dental Care Dashboard	September, 2020	Access	Interactive dashboard summarizes the dental utilization and access to care in Washington state. An in-depth look at statewide trends, county by county summaries, Apple Health utilization by age, senior access to care, percentage of licensed dentists, dental insurance break down, Apple Health dental providers, and preventative care.
<i>Arcora Foundation</i>			
Oral Health Dashboard Shows Health Disparities Examples	July, 2020	Access and Demographics	Interactive dashboard detailing oral health disparities in dental disease in Washington state. An in-depth look at disparities in oral health for children, youth, adults, and older adults, along with fluoridation information, county and statewide summaries and trends.
<i>Arcora Foundation</i>			
State of Washington's Kids 2020: Ensuring All Kids Experience Optimal Oral Health	February, 2020	Access and Demographics	A report highlighting the state of oral health for children in Washington. Findings highlight that systemic inequities continue to create division in oral health outcomes for children who grow up in low income households and from communities of color.
<i>Kids Count Washington</i>			
Medicaid Dental Data	February, 2019	Access, Demographics, and Cost Barriers	Comprehensive data reports, including useful area maps, broken down by age group and by county, detailing dental service utilization and eligible users, annual expenditures, dental payments by service type, cost and utilization, and provider caseload. Reports span across time 2008-2019.
<i>Washington State Health Care Authority</i>			
Assessing the Impact of Washington State's Oral Health Workforce on Patient Access to Care	November, 2017	Workforce	Washington continues to have stark regional oral health workforce disparities, while oral health access remains segregated in other ways, place bound underserved groups, low-income, uninsured, and adult (elderly and non-elderly), populations, as well as patients with limited English proficiency. Both expanding the oral healthcare workforce and intervening earlier are needed to effectively prevent and treat oral health disease.
<i>Center for Health Workforce Studies - University of Washington.</i>			

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Washington State Smile Survey <i>Washington State Department of Health</i>	2015-2016	Access, Demographics, and Cost Barriers	A comprehensive report examining the burden of oral health issues related to tooth decay for children enrolled in Head Start and ECEAP Preschool Programs and elementary school aged children. Report examines disparities in children based on race/ethnicity and income.
Access to Education			
Diversity, College Costs, and Postsecondary Opportunity: An examination of the financial nexus between college choice and persistence for African Americans and Whites. <i>Journal of Higher Education</i>	September, 2005	Access, Demographics, and Cost Barriers	Black students are more likely to choose a college with lower tuition and are more concerned about finances than White students when making college choices.
Social Class and College Choice: Examining the financial nexus between college choice and persistence. <i>Journal of Higher Education</i>	March, 2002	Access, Demographics, and Cost Barriers	Low income students are less likely attend a 4-year college. Poor and working students are less likely to continue in an educational program when the tuition is higher.
Difference in the Decision to Attend College Among African Americans, Hispanics, and Whites <i>Journal of Higher Education</i>	March, 2000	Access, Demographics, and Cost Barriers	Hispanic and Black populations generally have lower rates of enrollment in 4-year colleges than White population, however when cost of education is taken into account, enrollment rates are similar or higher. This suggests that cost and other external factors are key barriers to college enrollment for students of color.
Education Pays: The benefits of higher education for individuals and society. <i>College Board</i>	2013	Access, Demographics, and Cost Barriers	Students from low- and middle-income homes are more likely to attend 2-year programs than 4-year programs.