

Pediatric Dental Workforce in 2016 and Beyond



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Why Did We Do The Study?

Quick review

- * The number of pediatric dentists has grown, yet disparities continue
- * New national evidence suggests that more treatment is being provided to young children, and those from underrepresented groups and we see those kids
- * Previous studies show that pediatric dentists fill a niche in the oral care system for special needs
- * Like all of dentistry, our demographics are changing with: (1) more women, (2) more indebtedness, and (3) more employee arrangements, among other things



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Dental Demand



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Child Population Projections

- * Number of children ages 0–17 in the US in 2017: 73.6 million
- * 23% of the total population (325 million)
- * Number of children ages 0–17 in the US projected for 2050: 77 million
- * 20% of the total population (388 million)

Source: US Census, United States Population Projections: 2000 to 2050



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Demographic Projections

US Population by Race and Hispanic Origin

	2015	2050
White, Non-Hispanic	203,208	203,347
Hispanic	57,711	132,792
Black	42,137	56,944
Asian	16,527	34,399
Two or more races	6,435	16,183
American/Alaska Native	3,472	5,462
Hawaiian/Pacific Islander	662	1,222



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Market Share

Age Group	Current Share
Under 2	43%
2 to 4	40%
5 to 12	23%
13 to 17	
All Under 17	26%



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Dental Visits by Age

Age	Dental Visit
Children birth to age 20	48%
Children under age 6	25%
Children ages 6 – 12	59%

Source: Manski RJ and Rohde F. Research Findings No. 38. Dental Services: Use, Expenses, Source of Payment, Coverage and Procedure Type, 1996–2015. Rockville, MD: Agency for Healthcare Research and Quality. November 2017.



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Dental Visits by Race and Ethnicity

Race and Ethnicity	Dental Visit
Non-Hispanic Black	30%
Hispanic	33%
Other	40%
Non-Hispanic White	49%

Source: Manski RJ and Rohde F. Research Findings No. 38. Dental Services: Use, Expenses, Source of Payment, Coverage and Procedure Type, 1996–2015. Rockville, MD: Agency for Healthcare Research and Quality. November 2017.



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Dental Caries by Age

Age of Child	Total Caries	Untreated Caries
2 – 5	18%	9%
6 – 11	45%	15%
12 – 19	54%	13%

Source: Fleming E, Afful J. Prevalence of Total and Untreated Dental Caries Among Youth: United States, 2015-2016. NCHS Data Brief. 2018;(307):1-8.



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Dental Caries by Race and Ethnicity

Race and Ethnicity	Total Caries	Untreated Caries
Hispanic	52%	14%
Non-Hispanic Black	44%	17%
Asian	43%	11%
Non-Hispanic White	39%	12%

Source: Fleming E, Afful J. Prevalence of Total and Untreated Dental Caries Among Youth: United States, 2015-2016. NCHS Data Brief. 2018;(307):1-8.



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Dental Market Supply



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Professionally Active Dentists in the U.S.

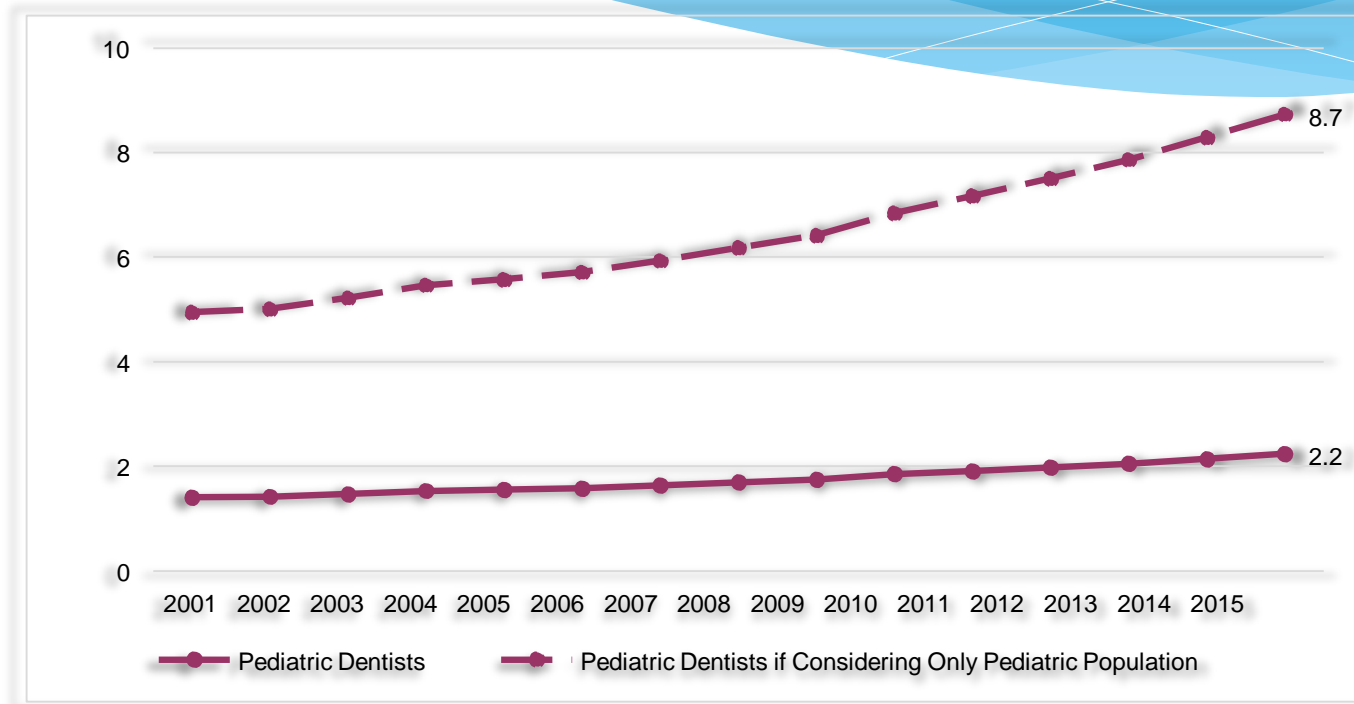
* General Dentist	156,992
* Orthodontist	10,658
* Pediatric Dentist	7,778
* Oral Surgeon	7,546
* Periodontist	5,790
* Endodontist	5,664
* Prosthodontist	3,708
* Public Health	827
* Oral Radiology	466



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Supply of Pediatric Dentists



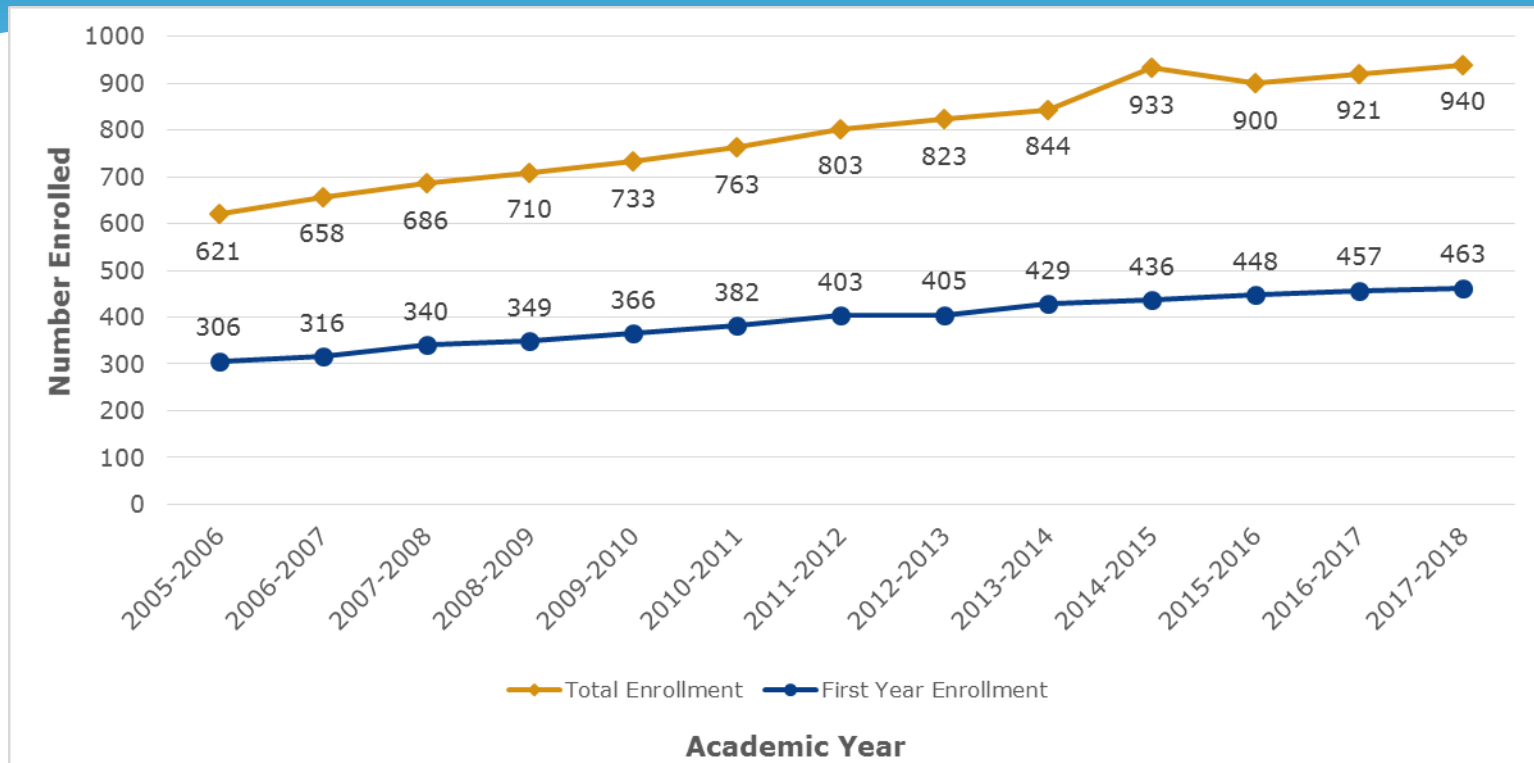
Source: ADA Health Policy Institute, 2001-2015; U.S. Census Bureau



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Pediatric Dental Program Enrollment



Source: American Dental Association, Health Policy Institute, *Survey of Advanced Dental Education*, 2016-2017



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Projected Supply of FTE Pediatric Dentists, 2016-2030

Year	Pediatric Dentists
2016	6,530
2020	7,620
2025	9,090
2030	10,560



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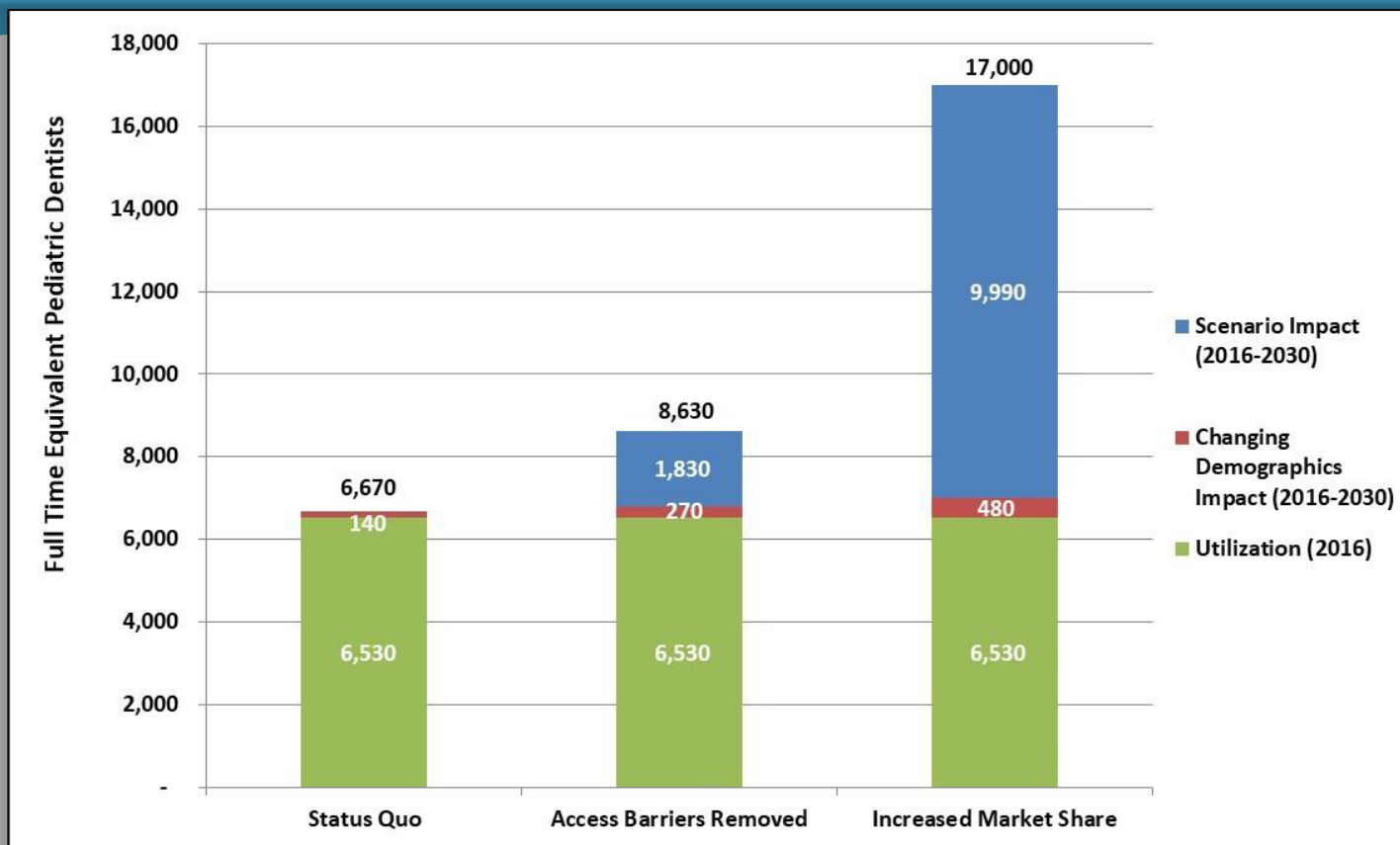
Projected Supply of FTE Pediatric Dentists, 2016-2030



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Pediatric Dentist Supply in 2016 Projected Demand in 2030



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Market Share

Age Group	Current Share	Scenario Share
Under 2	43%	100%
2 to 4	40%	
5 to 12	23%	80%
13 to 17		20%
Under 17	26%	62%



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Our Growth & Access to Care

- * Over 70% of us see Medicaid children, the most in dentistry
- * 100% of us see special patients
- * We and oral surgeons are most likely to be in hospitals and interdisciplinary teams
- * We are most likely to do case management
- * We are most likely to treat very young children
- * We are most likely to see infants
- * We are the only ones managing behaviors



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Pediatric Dentist Distribution



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Supply of Full-Time Equivalent Pediatric Dentists by Region, 2016

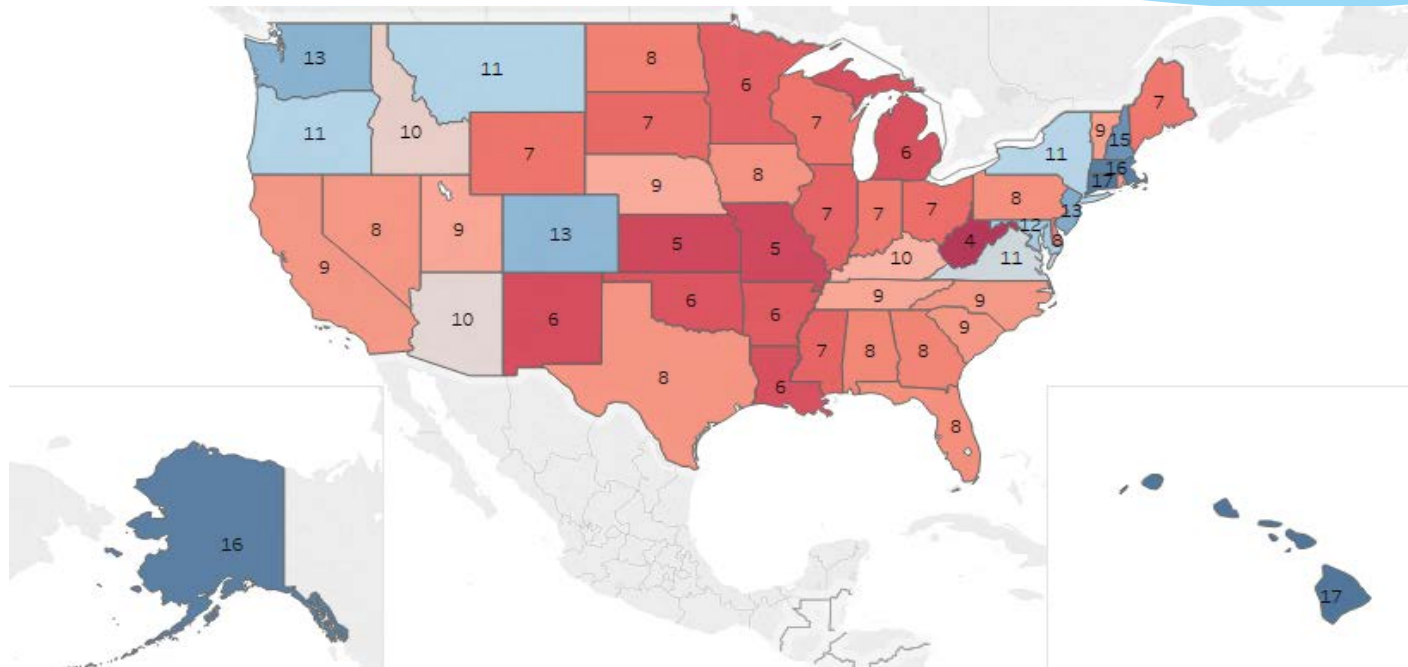
Region	Full Time Equivalents	FTEs per 100,000 Children
Northeast	1,378	12
Midwest	1,037	7
South	2,376	8
West	1,742	12
Nationwide	6,533	9



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Supply of Pediatric Dentists by State, 2016



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What's Next for Us?

What Are the Policy and Other Implications?

- * Are there too many pediatric dentists or not enough?
- * Are we in the right places to help children?
- * What do the results mean for access to care?
- * Should we be doing more about attitudes than access?
- * How about some policy recommendations?



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The Great Unknown....

...and Known

- * Caries rate in the future – will it improve?
- * True population growth and where – likely to grow in poorer segments of society
- * Economy – will we see oral health become a luxury rather than a value or vice versa
- * Practice size and ownership – will business models drive workforce?
- * Payment mechanisms – will we see pay for performance replace fee-for-service?
- * Will others do pediatric dentistry?



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The Great Unknown....

...and Known

- * Healthcare reform – will oral health be a mandate?
- * Gender mix of specialty – does it make a difference?
- * General dentist engagement – will highly indebted GPs refer more kids or fewer?
- * Will demand increase?
- * Will the look of pediatric dental practice change?



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Do We Need A PR Campaign?

- * Last century saw an AAPD dues supplement/assessment
- * Other specialties have and continue to market
- * Pediatricians captured the market – how?
- * Market to public or profession(s) or both?



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Policy Dreaming....

- * Reorient Title VII to get pediatric dentists into lower population areas
- * Prioritize funding for Pediatric Dentistry/MPH programs
- * In health care reform, build in pay-for-performance to acknowledge early prevention and unique treatment abilities
- * Work for a meaningful mandate in healthcare reform
- * Add differentials for case management, behavior guidance and prevention



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Going Forward....

Building on the Workforce Study

- * Numbers tell only a part of the story, but are a solid beginning in effecting change
- * More research is needed into successful integration of pediatric dentistry in small and underserved communities
- * Workforce/workplace models need to be studied: groups, embedded pediatric dentists, hospital-based care
- * Pediatric dentistry remains a solid career choice and sorely needed specialty



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Look for More from AAPD

- * Our work is just beginning and we need feedback on this study's findings
- * Our plan is to disseminate findings to and solicit responses from a broad community interested in children's oral health
- * We encourage comments and suggestions on this study and directions for the future



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