

Descriptive Study of the University of Washington Pediatric Dental Clinic

Jessica De Bord, DDS
Pediatric Dental Resident, R3
University of Washington
June 7, 2010

Significance

- Opening Sept 2010
- Key Areas
 - Research
 - Education
 - Health care delivery
 - Public policy
- Emphasis
 - Birth to three
 - Children with special health care needs
 - Medicaid eligible
- No baseline data existed



Significance

- Dental students typically treat children¹⁵
 - 4 years or older
 - Minimal caries
 - Good behavior
- 60% of children have Early Childhood Caries by 5, but only 11% of dentists treat < 4 years of age¹⁸
- Increased pre-doctoral pediatric experience results in greater confidence treating children after graduation⁶



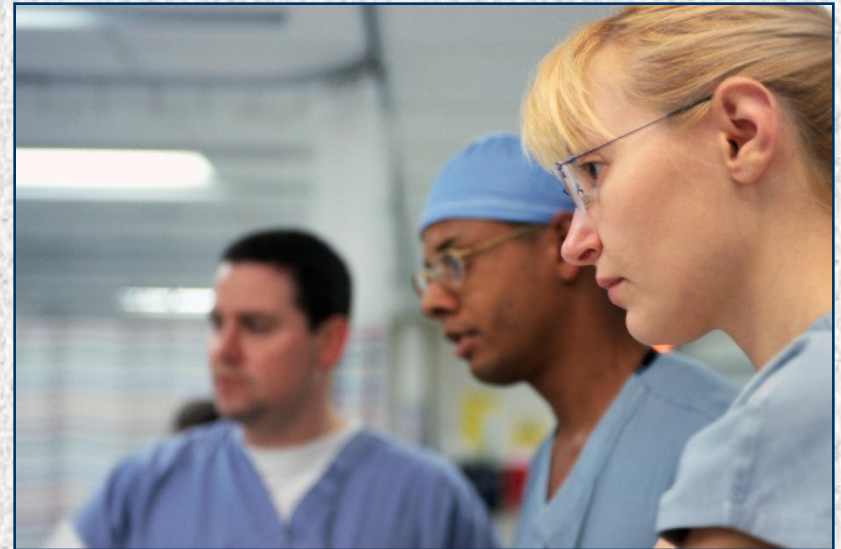
Primary Objective

- To describe patient demographics and special health care needs of the UW Pediatric Dental Clinic



Secondary Objectives

- Determine the proportion of diagnostic and preventive procedures to restorative and oral surgery procedures performed by the pre-doctoral students compared to the pediatric dental residents
- To determine the mean and median ages of the patients treated by the pre-doctoral dental students and pediatric dental residents



Objectives

- Both the pediatric dental residents and dental students have pediatric clinical experience outside of the UW Pediatric Dental Clinic



Study Design

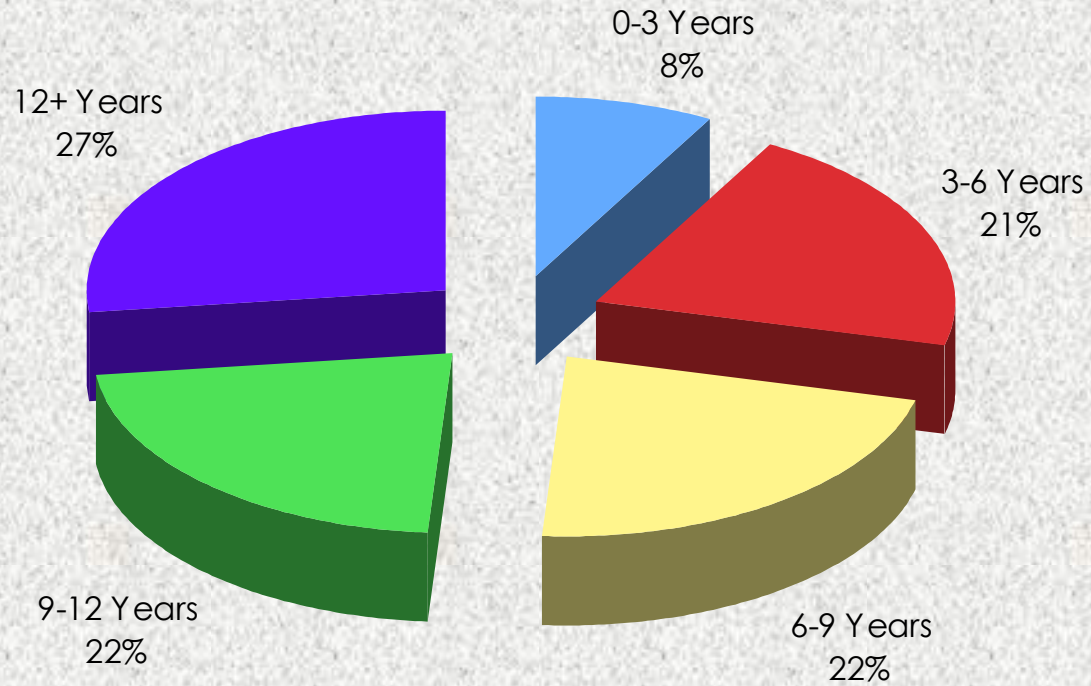
- Cross Sectional
- Chart Review
- January 1, 2008 to December 31, 2008
- Demographic data collected from patient's first visit of the year
- Procedural data collected per patient encounter
- Procedures typed by diagnostic/preventive, restorative/oral surgery, or advanced behavior management



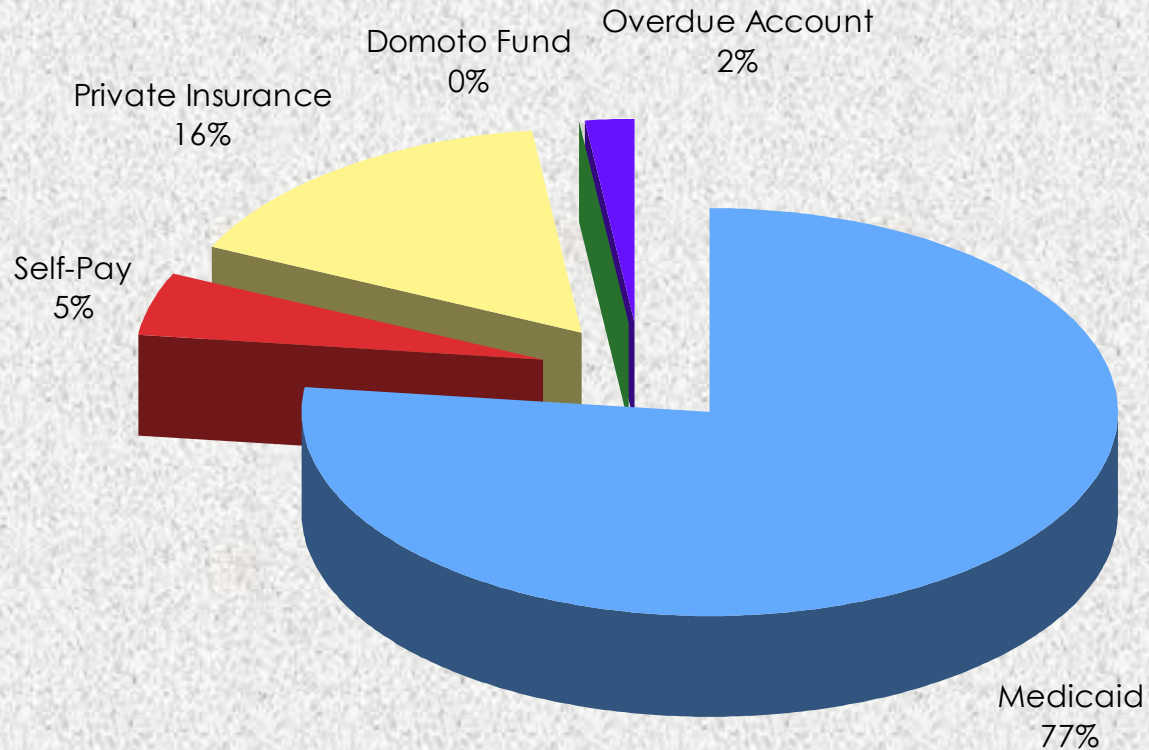
Results

- Mean
 - 9.2 years
- Median
 - 8.9 years

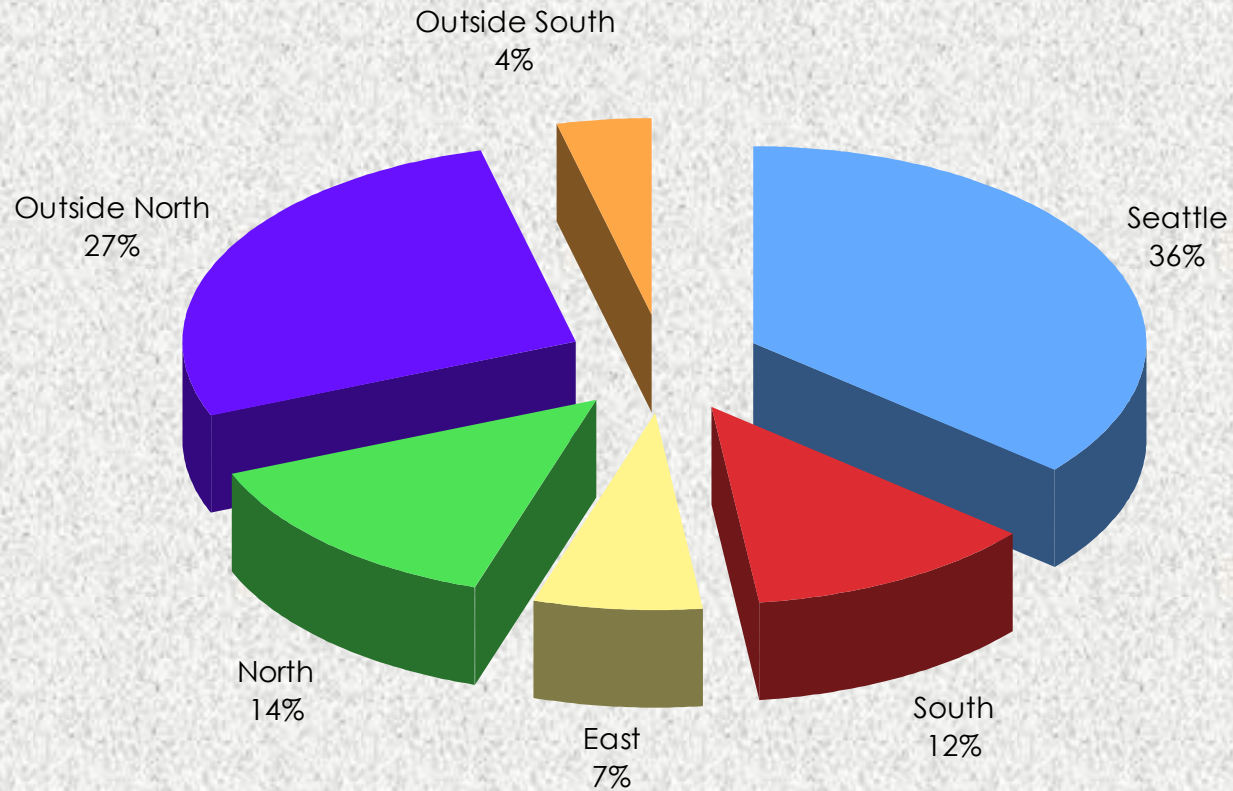
Patient Age



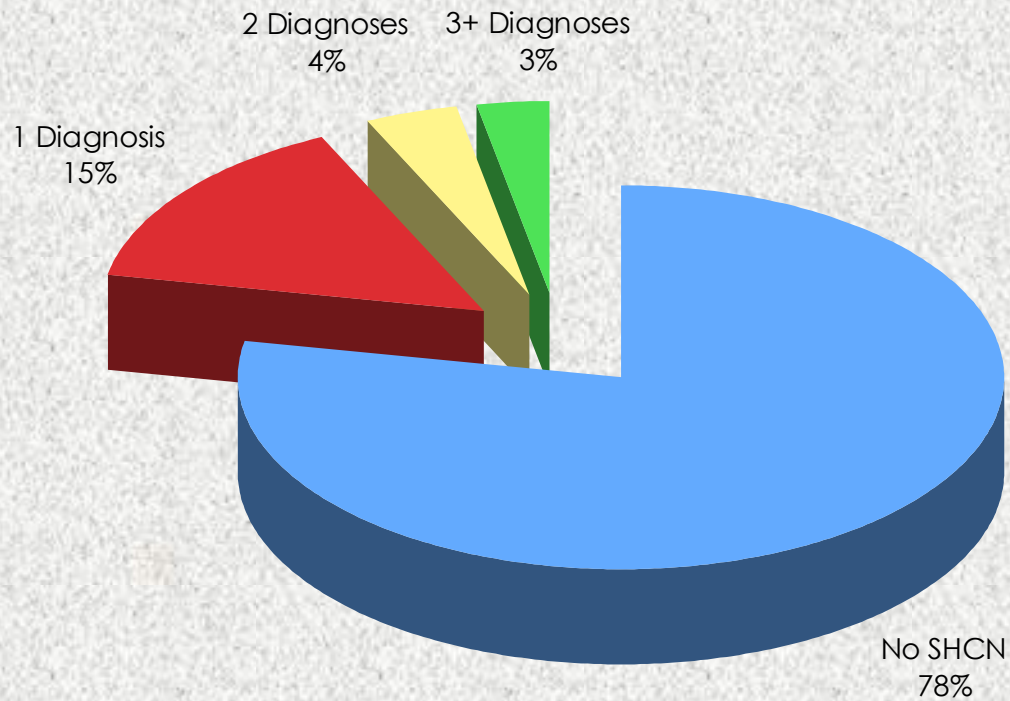
Patient Funding Source



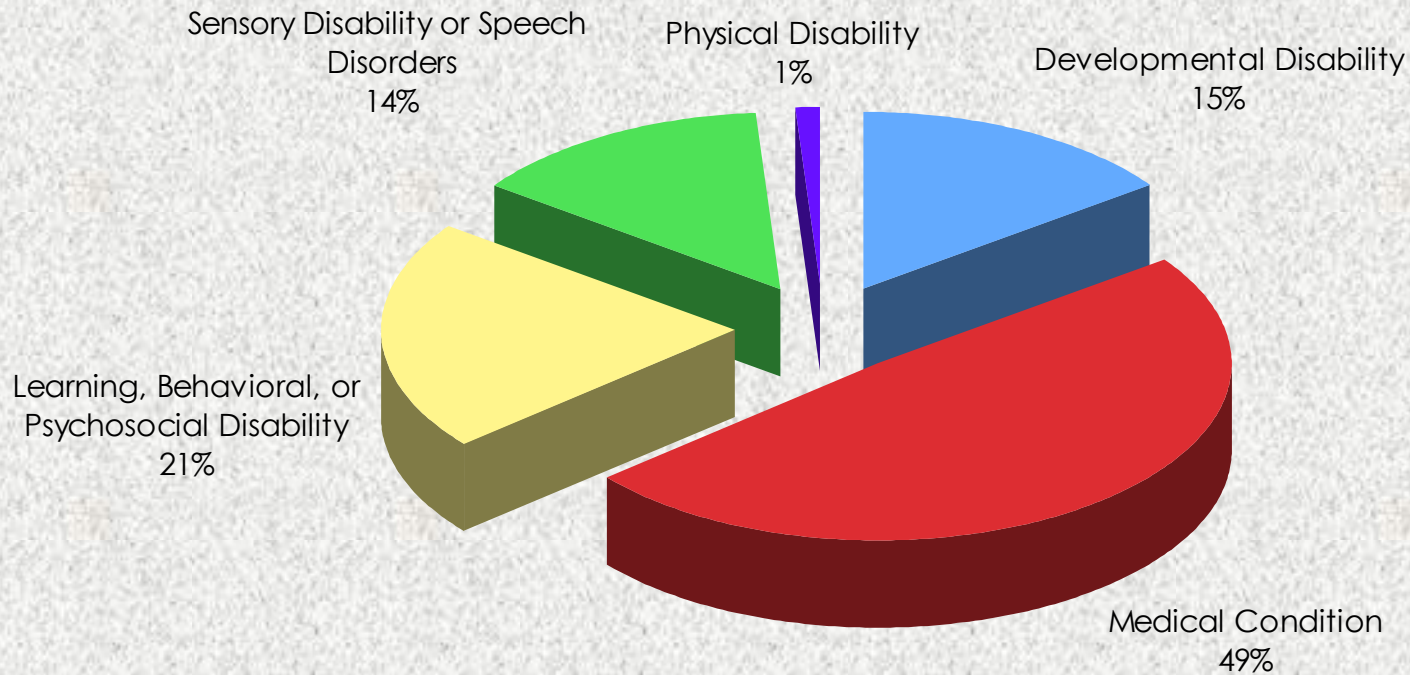
Patient Zip Code



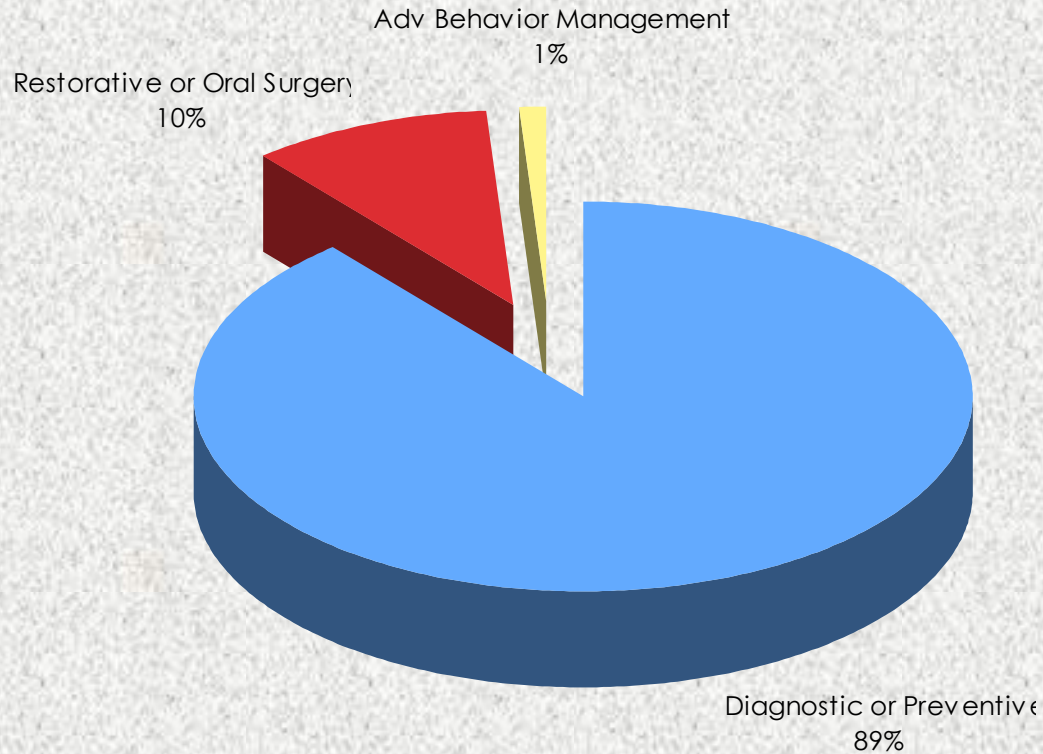
Special Health Care Needs



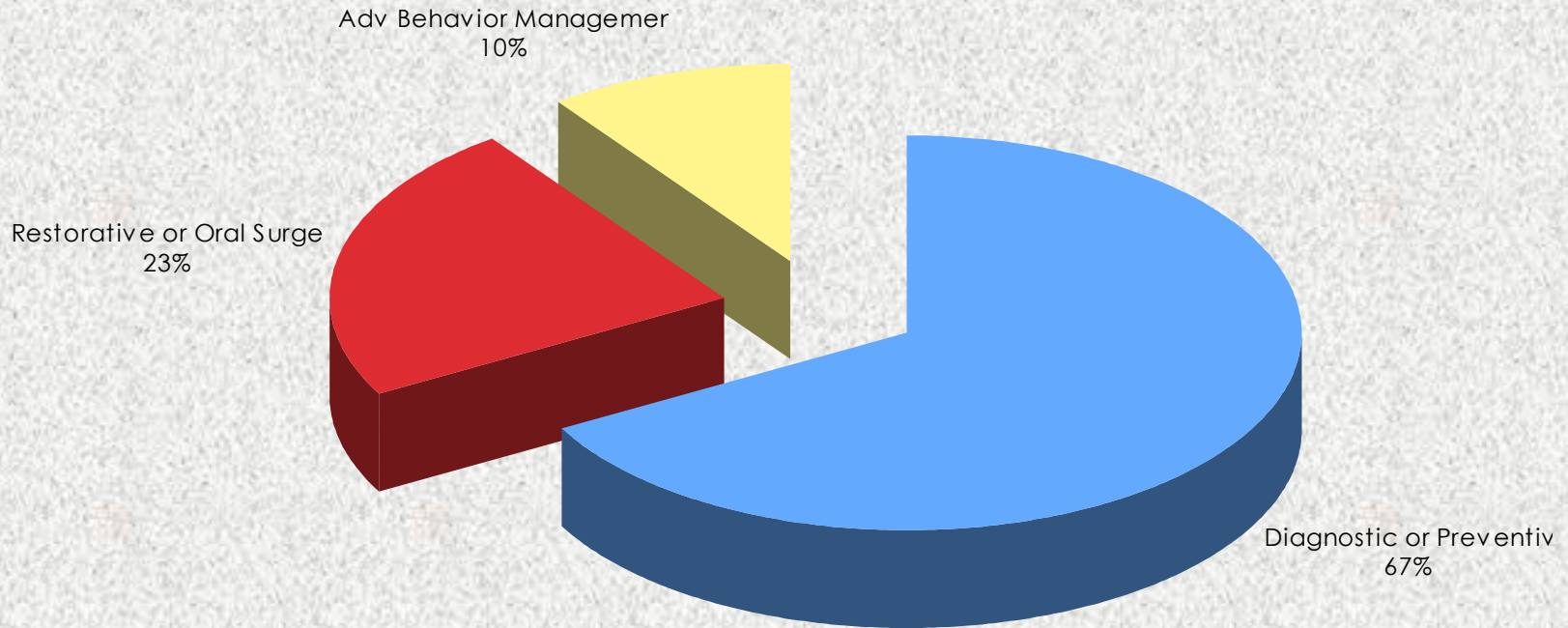
Diagnoses



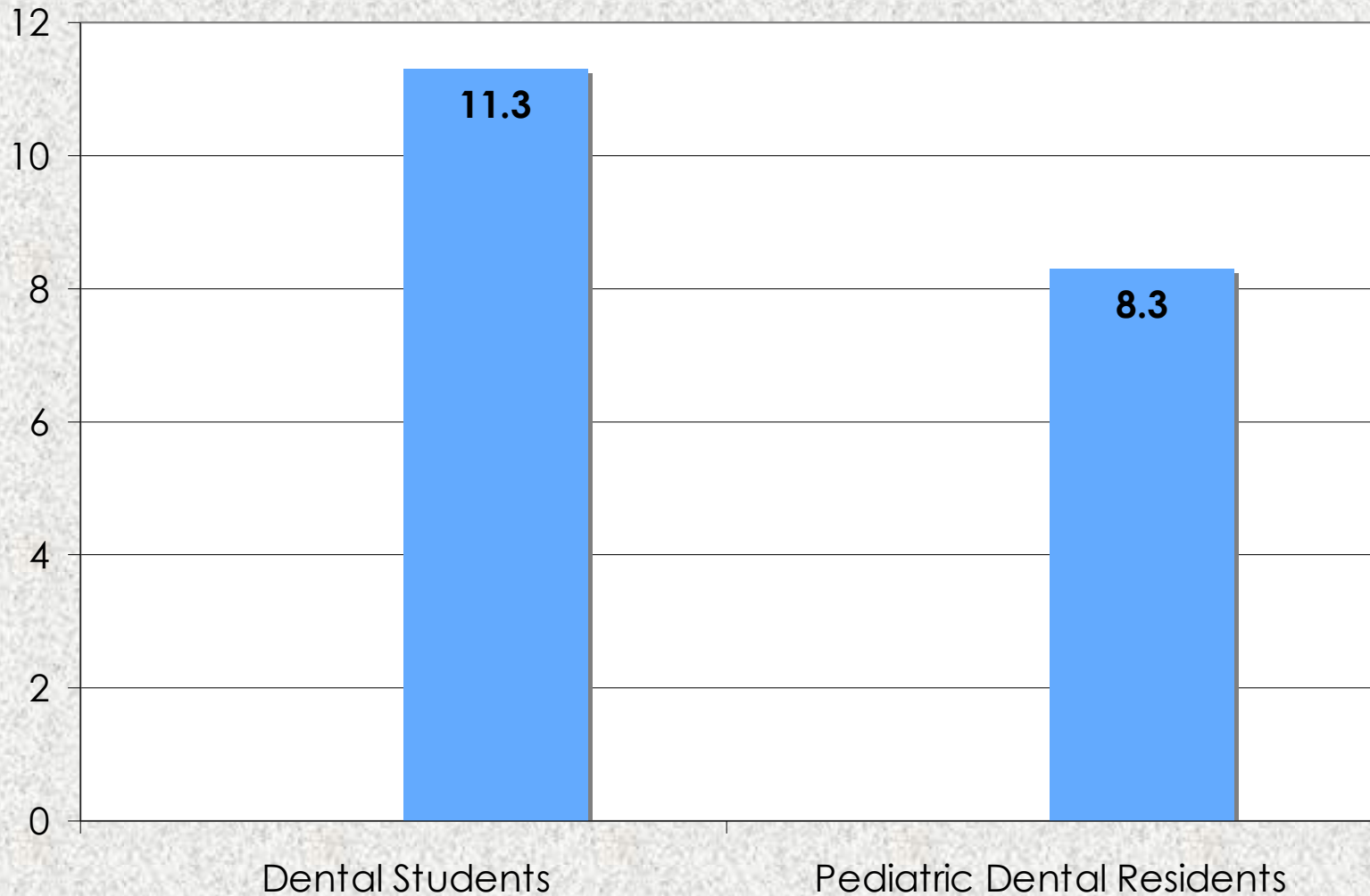
Dental Student Procedures



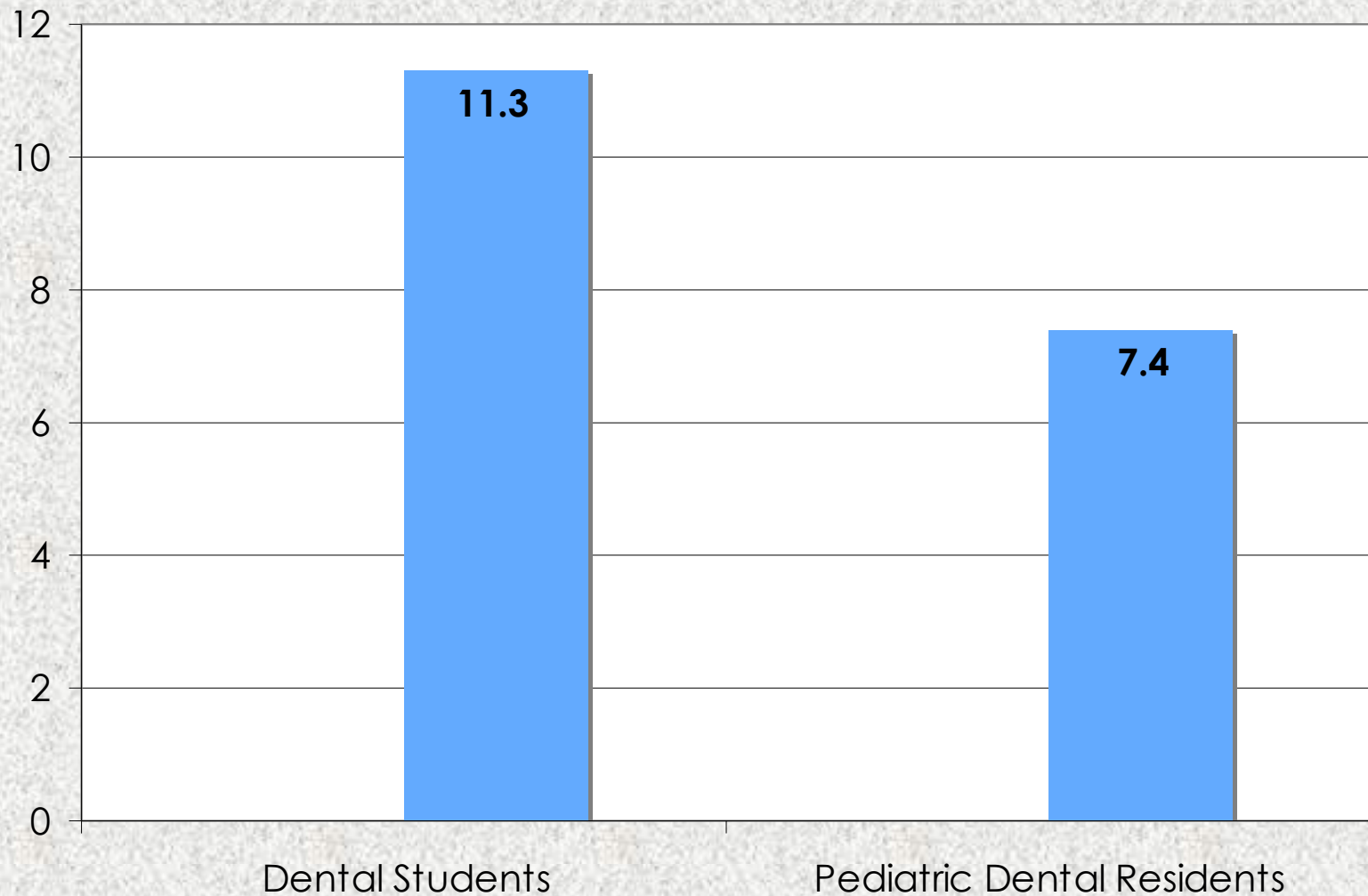
Resident Procedures



Mean Patient Age



Median Patient Age



Procedures

- Dental students more diagnostic and preventive procedures than the residents ($p < 0.0001$)
- The mean patient age is greater for the dental students than the residents ($p < 0.0001$)



Limitations

- Health history by parent report
- Ethnicity / language not recorded
- Funding source for patients with outstanding balances not available
- Possibility of provider error in entering billing codes



Conclusions

- UW Pediatric Dental Clinic cares for
 - Greater proportions of children with Medicaid and special health care needs than average
 - Fewer children 0 - 3 years than any other age group
- Dental students at the UW Pediatric Dental Clinic
 - Typically treat patients who are in or near permanent dentition
 - Typically provide diagnostic/preventive care



References

1. Academy of General Dentistry (2002). AGD Policies on Pediatric Dentistry. Academy of General Dentistry Policies, Guidelines, Position Statements, and Fact Sheets, 22, H-7.
2. American Academy of Pediatric Dentistry (2008). Reference Manual. *Pediatric Dentistry*, 30, 4-5 & 15.
3. American Community Survey US Census Bureau, 2003. Retrieved November 11, 2009, from www.census.gov/acs/www/Products/Profiles/Single/2003/ACS/Tabular/050/05000US530331.htm
4. Fein, J.E., Quinonez, R.B., & Phillips, C. (2009). Introducing infant oral health into dental curricula: A clinical intervention. *Journal of Dental Education*, 73, 1171-1177.
5. Geographic Sub-Regions Map, 2007. Retrieved November 11, 2009 from www.agingkingcounty.org/service-providers/sub-regions.htm
6. Lekic, P., Sanche, N., Odlum, O., deVries, J., & Wiltshire, W (2005). Increasing general dentists' provision of care to child patients through changes in the undergraduate pediatric dentistry program. *Journal of Dental Education*, 69, 371-377.
7. Medicaid State Fact Sheet, 2008. Retrieved October 20, 2009 from www.statehealthfacts.org/mfs.jsp?rgn=49&rgn=1
8. Morris, P., Freed, J., Nguyen, A., Duperon, D., Freed, B., & Dickmeyer, J. (2004). Pediatric dentists' participation in the California medicaid program. *Pediatric Dentistry*, 26, 79-86.
9. Okunseri, C., Bajorunaitė, R., Matthew, R., & Iacopino, A. (2007). Racial and ethnic variation in the provision of dental procedures. *Journal of Public Health Dentistry*, 67, 20-27.
10. Pettinato, F., Farrington, F., Mourino, A., Best, A., & Brickhouse, T. (2004). Rural versus urban analysis of dental procedures to Virginia medicaid recipients. *Pediatric Dentistry*, 26, 440-444.
11. Riter, D. (personal communication regarding the number of children enrolled in Medicaid in 2008, November 4, 2009).
12. Savage, M., Lee, J., Kotch, J., & Vann, W. (2004). Early preventive dental visits: Effects on subsequent utilization and costs. *Pediatrics*, 114, 418-423.
13. Schroth, R., & Cheba, V. (2007). Determining the prevalence and risk factors for early childhood caries in a community dental health clinic. *Pediatric Dentistry*, 29, 387-396.
14. Seale, N., & Casamassimo, P. (2003). U.S. predoctoral education in pediatric dentistry: Its impact on access to dental care. *Journal of Dental Education*, 63, 23-30.
15. Seddon, R. (2004). Undergraduate experience of clinical procedures in paediatric dentistry in a UK dental school during 1997 – 2001. *European Journal of Dental Education*, 8, 172-176.
16. Stapleton, M., Sheller, B., Williams, B., & Mancl, L. (2007). Combining procedures under general anesthesia. *Pediatric Dentistry*, 29, 397-402.
17. The National Center for Medical Home Initiatives for Children with Special Health Care Needs, 2008. Retrieved October 22, 2009 www.medicalhomeinfo.org/about/def_cshcn.html
18. Thikkurissy, S., Rowland, M., Bean, C., Kuman, A., Levings, K., & Casamassimo, P (2008). Rethinking the role of community-based clinical education in pediatric dentistry. *Journal of Dental Education*, 72: 662-668.
19. University of Washington Department of Pediatric Dentistry Mission Statement. Retrieved February 5, 2009 from www.dental.washington.edu/departments/ped/index.php
20. University of Washington Early Childhood Oral Health Fact Sheet, 2009. Retrieved November 11, 2009 from http://www.dental.washington.edu/departments/ped/documents/ecoh_fact_sheet_summer_2009.pdf
21. University of Washington School of Dentistry Mission Statement, 2009. Retrieved February 5, 2009 from www.dental.washington.edu/about/about.php
22. Washington State Department of Health, Office of Maternal and Child Health, Children with Special Health Care Needs Section, 2009. Retrieved November 22, 2009 from <http://www.doh.wa.gov/CFH/mch/documents/CSHCNFS.pdf>
23. Zeng, Y., Sheller, B., & Milgrom, P. (1994). Epidemiology of dental emergency visits to an urban children's hospital. *Pediatric Dentistry*, 16, 419-423.