

## AAO Foundation Award Final Report

Principal Investigator	Sheldon Baumrind, DDS, MS
Co-Investigator	Robert Boyd, DDS, MEd
Secondary Investigators	Vicki Vlaskalic, DDS TianMin Xu, DDS, PhD Roger Boero, DDS Donald Linck, DDS
Award Type	Biomedical Research
Project Title	Factors Associated with Apical Root Resorption Studied by the Case Control Method
Project Year	1995
Institution	University of California at San Francisco School of Dentistry
Summary/Abstract	<p>This investigation was intended as a companion investigation for comparison with our previous NIH study of Adult Root Resorption the results of which were published in AJODO in 1996. The removal of the principal investigator and co-investigator from UCSF to the University of the Pacific necessitated some changes in the study protocol and staffing. The most surprising finding in the study was the fact that 20% of the adolescent subjects had longer roots at the end of treatment than at the beginning. This effect was observed only after careful case by case analysis and to our knowledge had not been reported earlier. We consider it to be associated with the fact that the anterior teeth of many adolescents continue to grow during treatment. The general failure to take this phenomenon into consideration may contribute to the general impression that root resorption in growing patients is less than that in adult patients.</p> <p>Publication venues for findings from this investigation are listed below.</p> <p>1996 S Baumrind, EL Korn, RL Boyd: Investigating the correlates of apical root resorption. In: Untoward Effects of Orthodontic Treatment. <i>Monograph #31. Univ. of Michigan Craniofacial Growth Series.</i> pp 81-92.</p> <p>1997 RL Boyd, <u>S Baumrind</u>, J Ahn, T-M Xu: A Case-Control Study of Apical Root Resorption; Early Findings. <u>J. Dent. Research</u> (Special Issue) 76:18 (Abstract #0038).</p> <p>1999 RL Boyd, S Baumrind, V Vlaskalic: Intercurrent Growth</p>

	<p>Complicates the Analysis of Apical Resorption in Orthodontically-Treated Adolescents. <u>J. Dent. Research</u> (Special Issue) 78: 203 (Abstract #780)</p> <p>1999 G Vaughn, H Abarghouei, F Ty, V Vlaskalic, S Baumrind: Root Changes in Lower Incisor During Full Banded Orthodontic Treatment. <u>J. Dent. Research</u> (Special Issue) 78: 203 (Abstract #781)</p> <p>1999 R Boero, RL Boyd, K Fenn, L Harfield, V Vlaskalic, S Baumrind: Upper Incisor Root Growth and Root Resorption Associated with Three Orthodontic Treatment Strategies. <u>J. Dent. Research</u> (Special Issue) 78: 203 (Abstract #781)</p>
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