

AAO Foundation Award Final Report

Principal Investigator	Maria Fernanda Orellana
Co-Investigator	
Secondary Investigators	
Award Type	Orthodontic Faculty Development Fellowship Award
Project Title	Clinically-determined need for, and receipt of, orthodontic treatment, in children and adolescents in San Francisco, California.
Project Year	2011-2012
Institution	University of California San Francisco
Summary/Abstract (250 word maximum)	<p>Objective: In the U.S., disparities exist with regard to orthodontic treatment to correct malocclusion. However, the extent and underlying reasons for these disparities are not well known.</p> <p>Method: For this cross-sectional study, 280 high school (14-16 YO), 240 middle school (12 YO) and 170 elementary school students (8-10 YO) were assessed to determine the clinically-determined need for, and receipt of, orthodontic treatment.</p> <p>Results: More than half of the students examined (+50%) were Latino, 40% Asian or Pacific Islanders, 8 % African-American and 2% Caucasian. The majority of the students were from immigrant families that spoke Spanish or Chinese at home. Four students were new immigrants from Russia and did not speak English. Almost 75% of the students presented with different degrees of malocclusion with only 3% reporting having received treatment or being in treatment. We are still analyzing the remainder of the data to report the prevalence of the different types of malocclusion according to age, gender and ethnicity.</p> <p>Conclusion: From the data analyzed thus far, we can conclude that there are disparities in access to orthodontic care in children and adolescents from immigrant minority families.</p>
Were the original, specific aims of the proposal realized?	<p>Yes, Aim #1: <i>To conduct a cross-sectional, epidemiologic study to examine 1000 Latino and non-Hispanic White high school students to assess their orthodontic need and receipt of orthodontic treatment.</i></p> <p>This Aim was modified as we included other minorities groups such as Asian/Pacific Islanders and African-Americans.</p> <p>The sample size was also decreased to almost 700, as the original number of a 1000 was difficult to achieve.</p>

	<p>Aims #2 and #3: Due to the limited resources for this project, these two aims are still pending. However, this project has provided substantial preliminary data upon which I have developed a proposed study based on Aims #2 and # 3 that is to be submitted as an NIH R21 grant application this coming February.</p>
<p>Were the results published? If not, are there plans to publish? If not, why not?</p>	<p>Yes, results that have been and are currently being analyzed will be presented at national meetings (i.e. IADR, AAO, Hispanic Dental Association) and manuscripts will be submitted to orthodontic and dental public health specialty journals.</p>
<p>Have the results of this proposal been presented? If so, when and where? If not, are there plans to do so? If not, why not?</p>	
<p>To what extent have you used, or how do you intend to use, AAOF funding to further your career?</p>	<p>This study, supported by AAOF, has provided preliminary data to develop other studies with further funding opportunities. For example: I just submitted a University of California Pacific Rim pre-proposal, based on the data obtained from this study. I am also submitting a proposal for an AAOF Center Award that is intended to bring together researchers from different countries with a common interest in access to orthodontic care and the impact of malocclusion on oral health-related quality of life.</p> <p>As I mentioned before, a project to further develop and fulfill the aims outlined in this initial study will be submitted as an NIH R21 grant application in February 2013.</p>