

## AAO Foundation Award Final Report

Principal Investigator	Samir E. Bishara
Co-Investigator	John J. Warren
Secondary Investigators	Steven M. Levy, Michael J. Kanellis
Award Type	Ormco Corporate Center Award
Project Title	Iowa Center for the Longitudinal Study of Factors Affecting Growth and Development of the Dental Arches
Project Year	2005 - 2008
Institution	The University of Iowa College of Dentistry
Summary/Abstract (250 word maximum)	<p>The project was extended through December 31, 2008 to allow us sufficient time to complete the project as originally described. As of August 1, 2008, we have completed 451 dental exams on cohort children and obtained study models for 318 of them (those not currently undergoing orthodontic treatment and consenting to have impressions made.) We are assessing the models as soon as they are available and then entering the data a short time later. We anticipate obtaining a minimum of 30 to 40 additional models in the coming months. Thus, we will approach our goal of 400 models and far exceed our minimum of 240, so that statistical power will be adequate for the planned analyses. We have found a higher proportion of study children undergoing orthodontic treatment (25% instead of our anticipated 15-20%), which likely explains our slightly smaller than anticipated sample size.</p> <p>We anticipate completing the examinations and model collection in September, and assessment of the models and data entry during October 2008. We will then begin analyses of the data, and anticipate that most data analyses will be completed by the end of the extended grant-supported period (December 31, 2008).</p>
Were the original, specific aims of the proposal realized?	<p>With the extension of the project, we anticipate that Specific Aims 1, 2, 3 and 5 will be completed by the end of the grant period. Regarding Specific Aim #4, we are currently assessing how dietary factors may influence the dental arches in the primary and mixed dentition as a precursor to assessing these relationships in the permanent dentition; we anticipate completing Specific Aim #4 during the first half of 2009.</p>
Were the results published? If not, are there plans to publish? If not, why not?	The results will be published in due course following the completion of the data analysis according to the timetable presented above.
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?	Similarly, the results will be present in due course, most likely at the AAO annual session or at forthcoming AADR/IADR meetings.