

AAO Foundation Award Final Report

Type of Award: Orthodontic Faculty Development Fellowship Award

Name(s) of Principal Investigator(s): Raquel T. Capote

Title of Project: Orhan C. Tuncay Teaching Fellowship Award

Period of AAOF Support: 07-01-13 to 06-30-14

Amount of Funding: \$15,000

Summary/Abstract:

I enjoyed a productive fellowship year of education, research, teaching, and clinical practice activities available through my KL2 and faculty appointments.

Education: I continued as a candidate for the MPH degree at the University of Washington School of Public Health and excelled in its curriculum. I completed extensive study in epidemiologic methods, applied biostatistics, research ethics, and health services and policy, and I mastered critically important skills to facilitate my ability to design studies, analyze data, and interpret results.

Research: I collaborated with Dr. Hannah Tully, neurologist and fellow KL2 Scholar, and Dr. Babette Saltzman, epidemiologist at Seattle Children's Craniofacial Center. We conducted a case-control study of 1,748 children with hydrocephalus. Three mutually exclusive, nonexhaustive subgroups were identified: hydrocephalus associated with a neural tube defect; prenatal-onset hydrocephalus; and hydrocephalus associated with intracranial hemorrhage. Within each group, we examined associations with maternal age, race/ethnicity, parity, diabetes and hypertension, and infant sex and gestation. We determined whether differences in etiology would be evidenced by risk profiles that varied by subgroup. The manuscript which I co-first authored was accepted for publication in the peer-reviewed journal, *Pediatric Neurology*.

Teaching: I engaged in pre-doctoral instruction and co-directed the summer preclinical course, which I restructured, updated, and integrated with Canvas (an interactive web-based learning management system). I expanded access to support mobile learners, developed real-time tracking of student progress, and collected, analyzed and used student feedback to improve content delivery and enhance the learning experience.

Service & Clinical Practice: I served on two faculty committees: a selection committee to interview and recruit new residents and the graduate orthodontic curriculum revision committee. I also mentored UW Summer Medical and Dental Education Program students, volunteered at community outreach events, and worked twice weekly as the sole faculty practitioner in the department's intramural orthodontic practice.

Response to the following questions:

1. *Were the original, specific aims of the proposal realized?*

Yes. The chief goal-- to develop as an academician-- was realized. I learned the benefit of remaining flexible in the research arena, conducting a study on hydrocephalus rather than characterizing the TheraMon® microelectric sensor.

2. *Were the results published? If not, are there plans to publish? If not, why not?*

Capote RT*, Tully HM*, Saltzman B. Maternal and Infant Factors Associated With Infancy-Onset Hydrocephalus in Washington State. Pediatric Neurology, In Press, Epub 2014 Nov 10. *Co-first authors

3. *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?*

Yes. Presented to the UW School of Public Health EPI 514: Application Of Epidemiologic Methods.

4. *To what extent have you used, or how do you intend to use, AAOF funding to further your career?*

The AAOF Orthodontic Faculty Development Fellowship facilitated the achievement of my goals by providing the needed financial security to pursue an academic career in the face of substantial student loan principal and compounding interest. Thank you to the AAOF and all who generously contribute to the Foundation. Support of the profession's junior faculty members remains essential to the future of orthodontic education and research.

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