

**AAO Foundation Final Report Form**

**Type of Award:** Orthodontic Faculty Development Fellowship Award (OFDFA)

**Name of Principal Investigator:** Vesna-Lea Ferrer, D.M.D., Ph.D.

**Title of Project:** Curriculum Content in Clinical Skills Development in Orthodontics for Predoctoral and Advanced Education Programs

**Period of AAOF Support:** 07-01-17 to 12-31-18

**Amount of Funding:** \$20,000.00 (\$6,808.50 as UMKC institutional award; \$13,191.50 as direct award to Dr. Vesna Ferrer)

**Summary/Abstract of Completed Project:**

The 2017 AAOF-OFDFA proposal of Dr. Vesna-Lea Ferrer was designed to enhance her development as an academic orthodontist. The proposal focused on her four developmental plans including her research plan with the aims: (1) to arrive at a consensus among orthodontic education experts on the curriculum content and assessment and instructional strategies in Clinical Skills Development for predoctoral and advanced education programs in orthodontics and dentofacial orthopedics; and, (2) from the consensus, to draft a recommendation for use as frameworks in these programs.

**Responses to the questions:**

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

RESEARCH: Yes. Through expert consensus, the topics necessary for clinical skills development in orthodontics at predoctoral and advanced education level were identified. The results suggest that, to develop learner competence, these topics are necessary in didactic instruction for orthodontic clinical skills development at predoctoral and advanced education levels.

The paper entitled "*Expert Consensus on Growth and Development Curricula for Predoctoral and Advanced Education Orthodontic Programs*", which was supported by 2016 AAOF-OFDF Award, has been accepted for publication in Journal of Dental Education.

EDUCATION: Yes. I participated in University of Missouri-Kansas City (UMKC) School of Dentistry (SOD) Seminars and Faculty Retreats. I presented in UMKC SOD Lunchtime Learning in fall 2017, spring 2018, and fall 2018 the following seminars: "*Developing Student Competence in Orthodontics*", "*Using Top Hat in the Dental School*", "*UMKC Online Bootcamp: tools for online and in-class teaching effectiveness*", and "*Developing Student Competence in Orthodontics: an Update*". I attended 2018 AAO Winter Meeting in Phoenix, AZ, 2018 Society of Orthodontic Educators (SOE) Meeting and American Association of Orthodontists (AAO) Annual Session in Washington, DC, where I was a session moderator. I also attended 2018 American Dental Education Association (ADEA) Annual Meeting in Orlando, FL. At ADEA, I presented a poster on "*Expert Consensus on Growth and Development Orthodontic Curricula*"

and led a session workshop on *"Vision the Future Using the Delphi Method for Curriculum Development"*.

**TEACHING:** Yes. As predoctoral orthodontic program director, I was course director of four predoctoral orthodontic courses and director of the predoctoral orthodontic clinic. In these practical experience components, my UMKC SOD colleagues recognized me with *2017 Robert Menchetti Junior Faculty Award*. In fall 2018, I was course director of ORTHOD5726 (Advanced Education Cephalometrics I). For the didactic component of my teaching plan, I participated in UMKC Faculty Center for Excellence in Teaching (FaCET) Symposium in fall of 2017. As recipient of American Association of Orthodontists Scholarship, I participated in 2017 American Dental Education Association/Academy of Academic Leadership Institute for Teaching and Learning in Atlanta, GA. I received UMKC Online Teaching certification in August 2017. These pedagogical trainings led to course improvements, such as the institution of Peer Assessment in D6538 (Orthodontics II)'s Group Case Report in fall 2018 and the conversion of my spring 2019 course, D6526 (Orthodontics I), from a face-to-face course to an online one. These trainings also equipped me in my national and international presentations on interceptive orthodontics, student competence, and curriculum development.

**CLINICAL:** Yes. I engaged in an Independent Study Course that allowed me to treat orthodontic patients in UMKC SOD Department of Orthodontics and Dentofacial Orthopedics. Also, I was an assessor in UMKC orthodontic residents' clinical examinations.

## **2. Were the results published?**

a) If so, was AAOF support acknowledged?

b) If not, are there plans to publish?

Yes. A manuscript will be written and submitted to Journal of Dental Education. The support of AAOF will be acknowledged.

## **3. Have the results of this proposal been presented? Was AAOF support acknowledged?**

a) If so, when and where?

An abstract on *"Consensus on Topics Necessary for Clinical Skills Development in Orthodontics"* was submitted for IADR/AADR/CDR General Session & Exhibition in Vancouver, BC, CA in June 2019. The support of AAOF will be acknowledged.

### Invited oral presentations:

*Predocutorial Orthodontic Education - Best Practices*. 2019 Society of Orthodontic Educators Meeting and American Association of Orthodontists Annual Session, Los Angeles, CA. The support of AAOF will be acknowledged.

*Interceptive Orthodontics for General Dentists*. Iwersen Symposium at 2020 Midwest Dental Conference, Kansas City, Missouri. The support of AAOF will be acknowledged.

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

The AAOF funding supported my attendance in orthodontic and dental meetings, and paid annual fees to maintain my dental license and membership in several orthodontic associations. The funding will be used for registration and travel to attend the 2019 IADR/AADR/CDR General Session & Exhibition, for attendance in 2019 Society of Orthodontic Educators Meeting and American Association of Orthodontists Annual Session, and for continuing my research in orthodontic curriculum development.