

AAO Foundation Award Final Report
(a/o 5/31/2012)

Please prepare a report that addresses the following:

Type of Award: Orthodontic Faculty Development Fellowship Award

Name(s) of Principal Investigator(s): Taranpreet K. Chandhoke

Institution: University of Connecticut, Division of Orthodontics

Title of Project: Anthony A. Gianelly Teaching Fellowship Award

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

Amount of Funding: \$15,000

Summary/Abstract (250 word maximum)

Teaching:

1) Undergraduate Teaching

- Program Director of Orthodontics for 2nd, 3rd and 4th year dental students
- Further developed lab components of bracket placement, wire bending
- Problem-solving component added to the clinical rotation experience

2) Graduate Teaching

- Course Director of the Pedo-Ortho Joint Conference
- Developed the Ethics in Orthodontics Course

Research:

Title: Impact of bracket design and oral hygiene maintenance on halitosis in the orthodontic patient

Aims: The aim of this study is to evaluate the effect of bracket type on plaque accumulation and also the impact of the appliance on oral malodor. In addition, the effect of tongue scraping on halitosis will be studied in patients undergoing orthodontic treatment.

Methods: A total of 40, healthy subjects will be recruited to this study and will be randomized to receive either conventional or self-ligating brackets and further subdivided to receive either a standard oral hygiene protocol or a standard oral hygiene protocol which includes tongue scraping. Subjects are followed at three timepoints: the day of bonding (T0), 1 week after bonding (T1), and 4 to 5 weeks after bonding (T2) and will be evaluated using a halimeter device to assess the degree of halitosis. In addition, at each time point, subjects will be evaluated for plaque, gingival, and bleeding indices.

Preliminary Results: Thus far, 12 subjects have been recruited to the study and this study is ongoing and actively recruiting subjects.

Clinical/Patient Care:

- Faculty practice care
- Attending in the orthodontic residency clinic

Support from the OFDFA has been of great assistance in expanding my clinical experience in the practice setting. It has helped by providing materials such as orthodontic pliers and instruments to use in my practice. In addition, with the purchase of a clinical camera, I am able to document cases, which I am able to use for presentations and teaching student and residents.

Response to the following questions:

1. Were the original, specific aims of the proposal realized?
Yes we are currently following the proposed specific aims.
2. Were the results published? If not, are there plans to publish? If not, why not?
We are currently continuing to recruit subjects to this RCT study and plan to publish our results in an orthodontic journal as part of the resident's Masters' thesis.
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?
We are currently continuing to actively recruit subjects to this study so it is still in progress. We plan to present the progress of the study at the 2015 AAO meeting.
4. To what extent have you used, or how do you intend to use, AAOF funding to further your career?
This award has been essential for supporting my research efforts, as well as refining my skills as an educator and clinician to be successful towards achieving my career goals. I am committed to advancing the field of orthodontics through research and as an educator to future orthodontists and the *Anthony A. Gianelly Teaching Fellowship Award* has played a key role in making this possible.

Please mail hard copy to AAOF and also send electronically
(as a Word document and e-mail attachment) to
aaofevp@aaortho.org