Reviewer's report

Title: Comparative analysis of slot dimension in lingual bracket systems

Version: 1 Date: 3 November 2009

Reviewer: Ariane Hohoff

Reviewer's report:

1. Is the question posed by the authors new and well defined?
   Yes, it is.

2. Are the methods appropriate and well described, and are sufficient details provided to replicate the work?
   It should be mentioned, which incisor and canine slots were measured, e.g. n = xx upper right canine, n = xy upper right lateral incisor etc.

3. Are the data sound and well controlled?
   Yes. It would further improve the information for the reader and practician if it could be specified which brackets were the least and the most precise for each of the three investigated systems.

4. Does the manuscript adhere to the relevant standards for reporting and data deposition?
   Yes.

5. Are the discussion and conclusions well balanced and adequately supported by the data?
   Yes.

6. Do the title and abstract accurately convey what has been found?
   Yes, but I would suggest to change "background" as follows:
   Orthodontic treatment with fixed appliances requires - among others - the correct clinical expression of torque, which depends on the precise fitting of archwire and slot. Especially in the lingual technique torque problems become clinically more evident than in labial appliances also with respect to the vertical alignment of teeth due to different distances from the center of resistance.

The purpose of the present study was to compare the preciseness of slot dimensions of different lingual bracket systems.

7. Is the writing acceptable?
   Yes.

I would suggest to insert an additional grafic explaining the importance of torque problems in the lingual technique as compared to the buccal technique.
Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.