Federal University
of
Santa Catarina

December 14th, 2017

To: Brazilian Dental Science Editorial Board.

Dear Dr. Sergio E. P. Gonçalves, Editor-in-Chief

We would like to submit our manuscript entitled ***"Effect of glide path on transportation promoted by NiTi and M-Wire instruments"*** to appreciation in your Journal.

Biomechanical preparation is one of the most critical stages of endodontic therapy. Atretic root canals and those with severe curvature degrees favor the appearance of undesirable accidents during the operating procedures. Several instruments have been developed over the last few years, with the objective of diminishing the morphological changes caused during root canal preparation, such as zip formation and apical transportation. Rotary systems that use a reduced number of instruments, such as Revo-S and ProTaper Next - fabricated of conventional NiTi and M-Wire, respectively, are the last innovations. The aim of these systems is to simplify endodontic treatment, as few instruments are required for performing root canal preparation. However, due to the reduced number of instruments used, a proper glide path must be created prior to rotary instruments action, to ensure their free advance along the entire length of the root canal. Therefore, the objective of our study was to evaluate the effect of the glide path creation on transportation promoted by NiTi (Revo-S) and M-Wire (ProTaper Next) instruments in simulated root canals.

The findings of our study demonstrated that none of the systems were capable of maintaining the original trajectory of the simulated root canal, and the glide path had no effect on the transportation promoted by instruments. Based on these results, we believe that our paper will be of great interest to your readers.

Also, we would like to inform that the current paper was submitted to this periodical only and all of the named authors were involved in the work leading to the publication of the paper.

The undersigned author warrants that the article is original, is not under consideration for publication by another journal and has not been previously published. I sign for and accept responsibility for releasing this material on behalf of any and all co-authors.

Sincerely,

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