Influence of intraradicular restoration technique on the biomechanical behavior of upper canines

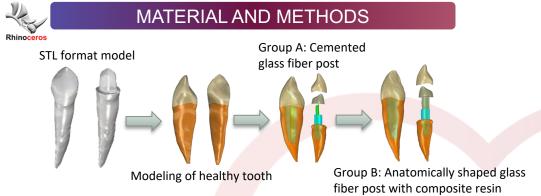
Gomes APA.¹, Barbosa CGC.¹, Melo-Silva CL.¹, Andreatta filho OD.¹, Grassi EDA.¹, Borges ALS.¹ Department of Dental Materials and Prosthodontics – Institute of Science and Technology of São José dos Campos

The authors declared no conflict of interest | ana.p.gomes@unesp.br



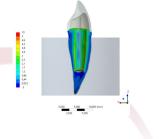
PURPOSE

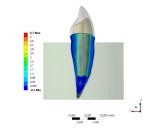
To assess stress distribution in endodontically treated upper canines subjected to cementation of two types of intraradicular retainers: cemented glass fiber post and anatomically shaped glass fiber post.



RESULTS

Polymerization shrinkage of both groups respectively - A and B





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Nodes and elements

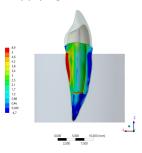


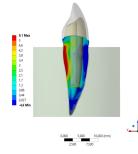


Application of a 100N force on the palatal surface above the cingulum region.

Group A Group B

After applying the load in both groups respectively - A and B





CONCLUSION

There was a numerical difference between the two groups, where the anatomically shaped post technique showed the lowest stress peaks, indicating that prefabricated anatomically shaped glass fiber posts with composite resin are a viable rehabilitation option for endodontically treated teeth.



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