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Fracture resistance of roots restored with bioceramic endodontic sealer

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Aim: This research evaluated and compared the fracture resistance of the roots of teeth restored with bioceramic sealer against AH26 sealer, used in (Elements Free) continuous wave obturation technique.

Method: A total of 60 maxillary and mandibular anterior teeth were decoronated and distributed equally among 4 experimental groups and two control groups. Group-1 samples (n=10) were decoronated only and not prepared, Group-2 (n=10) were prepared and instrumented only, Group-3 (n=10) were prepared by laser and obturated using bioceramic sealer and elements free obturation system, Group 4 (n=10) were prepared by laser and obturated using AH26 sealer and elements free, Group-5 (n=10) were prepared manually and obturated using bioceramic sealer and elements free, Group-6 (n=10) were prepared manually and obturated using AH26 sealer and elements free.

Result: Statistical analysis of fracture resistance values using the one-way ANOVA test (SPSS Version 20.0) revealed no significant difference between all the experimental groups.

Conclusion: It can be concluded that the bioceramic sealer along with the laser preparation of the roots might have a potential in improving the fracture resistance of the roots although it was statistically non-significant.

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