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Coronal Leakage Inhibition in Endodontically Treated Teeth Using Resin-coating Technique

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Abstract:

The purpose of this study was to evaluate coronal leakage inhibition using a resin-coating technique after endodontic treatment. Thirty-six human incisors were cut at the cementoenamel junction, and endodontic obturations were performed. The specimens were randomly divided into three groups according to post space preparation (10 mm depth), resin coating, and temporization. For the resin coating, the dentin surface was coated with either a combination of Clearfil SE Bond and Protect Liner F (SE/ PLF) or RZII (RZ). Then, the specimens were stored in 37°C distilled water for 24 hours and placed in 1% methylene blue solution for 48 hours. After which, the specimens were sectioned faciolingually along the root canal and the length of dye penetration was measured from the cementoenamel junction. Three-way ANOVA revealed that the dye penetration scores were influenced by post space preparation, resin coating, and temporization. Resin coating

with RZ significantly reduced the dye penetration score and SE/ PLF completely eliminated dye penetration.

Key words:

Resin coating, Coronal leakage, Endodontically-treated teeth

[Image PDF (440K)] [References]



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