بررسی آزمایشگاهی ریزش آنیکالی دو ماده سفید MTA و Biocalex
رتوگرید انتهای ریشه دندان

مایکل سفید جهت بر کردن حفرات

Title: An Invitro Comparative Study of Apical Microleakage of Biocalex and White MTA as Root-end Filling Materials
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Introduction: For sealing a cavity prepared in endodontic surgery, there is a need for a material to obtain an apical seal and prevent bacterial and tissue exudates. The purpose of this study was to compare the sealing ability of Biocalex and white MTA as root-end fillings.

Materials & Methods: In this invitro experimental study, 36 single-rooted extracted human adult teeth with minimum root curvature were cleaned, shaped and obturated with lateral condensation technique, 3 mm of the root apices were resected and a 3 mm deep retrograde cavity was prepared. Teeth were assigned randomly into two groups of 15 teeth each and retrofilled with Biocalex and White MTA. Three teeth served as positive and three teeth served as negative controls. All root surfaces, except the ending part, were covered with two layers of nail polish. Then the roots were resected and a 3 mm deep retrograde cavity was prepared. Teeth were assigned randomly into two groups of 15 teeth and can be used as an alternative for MTA (P<0.001).

Results: It was shown that retrofills with Biocalex had significantly less microleakage compared with white MTA.

Conclusion: The findings of this study showed that retrograde filling with Biocalex can achieve proper sealing ability and can be used as an alternative for MTA.

Key words: Biocalex, Apical microleakage, Root end filling, White MTA, Biocalex.