

Brazilian Oral Research

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Abstract








[PEREIRA, Cecilia Luiz](#); [CENCI, Maximiliano Sérgio](#) and [DEMARCO, Flávio Fernando](#). Sealing ability of MTA, Super EBA, Vitremer and amalgam as root-end filling materials. *Braz. oral res.* [online]. 2004, vol.18, n.4, pp. 317-321. ISSN 1806-8324. doi: 10.1590/S1806-83242004000400008.

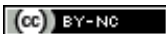
This study evaluated the root-end sealing ability of mineral trioxide aggregate (MTA Angelus), reinforced zinc oxide-eugenol cement (Super EBA), resin-modified glass ionomer (Vitremer) and zinc-free amalgam (GS-80) (control). The root canals of eighty human lower molars were accessed, cleansed, shaped and obturated. Apexes were resected and cavities were prepared. Teeth were divided into 4 groups of 40 cavities, root-end filled with the materials, and immersed in methylene blue for 72 h at 37°C. Roots were then sectioned transversally at each millimeter and evaluated under magnification, observing the dye penetration in each section. Data were evaluated using Kruskal-Wallis test at a 5% level of significance, showing the differences among all materials ($p < 0.001$). The crescent order of microleakage was MTA < Vitremer < Super EBA < amalgam. Higher leakage levels were observed in the first millimeter sections of amalgam, Vitremer and MTA, when compared with the third millimeter section ($p < 0.05$).

Keywords : Dental leakage; Glass ionomer cements; Zinc oxide-eugenol cement.

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Sociedade Brasileira de Pesquisa Odontológica

Av. Lineu Prestes, 2227
Caixa Postal 8216
05508-900 São Paulo SP - Brazil
Tel./Fax: +55 11 3091-7810



bor@sbpgo.org.br