

Brazilian Oral Research

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Abstract




[VOGT, Beatriz Farias](#); [XAVIER, Cristina Braga](#); [DEMARCO, Flávio Fernando](#) and [PADILHA, Marcio Schuster](#). Dentin penetrability evaluation of three different dyes in root-end cavities filled with mineral trioxide aggregate (MTA). *Braz. oral res.* [online]. 2006, vol.20, n.2, pp. 132-136. ISSN 1806-8324. doi: 10.1590/S1806-83242006000200008.

The purpose of this study was to evaluate the penetration of three dyes in MTA root-end fillings. In 30 single-rooted teeth, cavities for retrofilling were prepared with an ultrasound appliance and filled with MTA. The specimens were randomly assigned to three groups (n = 10) and immersed in the following solutions: 2% methylene blue (MET), 50% silver nitrate (NIT) and 0.2% rhodamine B (ROD). Two transversal slices (1 mm) of the retrofilling region were obtained and evaluated using the Image Tool 3.0 software to obtain a quantitative evaluation (in mm²) of the dye penetration around the retrofillings. Data were submitted to statistical analysis using Students *t*-test. The lowest degree of dye penetration was observed for the NIT group, in both slices (p < 0.05). Dye penetration was significantly larger in the ROD group when compared to the NIT group, in both slices (p < 0.05), and to the MET group, only in slice 1 (p < 0.05). Within the limitations of this study, it was concluded that the choice of dye could influence the penetration evaluation in root-end filling studies, and that the NIT had the lowest penetration capacity in the apical dentine.

Keywords : Dental leakage; Dyes; Retrograde obturation.

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