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Abstract

[OKIDA, Ricardo Coelho](#); [MARTINS, Thiago Marchi](#) and [BRISO, Andr?Luiz Fraga](#). *In vitro* evaluation of marginal leakage in bonded restorations, with mechanical or chemical-mechanical (Carisolv) removal of carious tissue. *Braz. oral res.* [online]. 2007, vol.21, n.2, pp. 176-181. ISSN 1806-8324. doi: 10.1590/S1806-83242007000200014.

This study carried out an *in vitro* evaluation and comparison of the occurrence of marginal leakage in bonded restorations using mechanical or chemical-mechanical (Carisolv) removal of carious tissue. For that purpose, 40 extracted decayed human molars were divided into 4 groups: GI (burs + Prime & Bond NT + TPH), GII (Carisolv + Prime & Bond NT + TPH), GIII (burs + SBMP + Z100) and GIV (Carisolv + SBMP + Z100). After accomplishment of the restorations and thermal cycling, the teeth were exposed to dye, sectioned and qualitatively evaluated. The results demonstrated that the system of removal of carious tissue did not influence the results of microleakage at any of the cavity margins. At dentinal margins, use of the Prime & Bond NT + TPH restorative system allowed the occurrence of less microleakage than the SBMP + Z100 system.

Keywords : Dental leakage; Dental caries; Dental restoration, permanent.

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