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Effect of a Resin-based Desensitizing Agent and a Self-etching Dentin Adhesive on Marginal Leakage of Amalgam Restorations

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Abstract

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Aim: The purpose of this study was to compare the marginal leakage of Class II amalgam restorations whose preparations were lined with a resin-based desensitizing agent, a self-etching adhesive system, and copal varnish. **Methods and Materials:** Fifty-six freshly extracted human premolar teeth were divided into four groups. A Class II preparation was prepared with only a proximal box on the mesial and distal surfaces of each tooth. The cavities in one group were lined with a desensitizing agent (VivaSens™) and a second group with an adhesive (Clearfil S³ Bond™). A third group was lined with copal varnish (Copalite™) and a fourth group was used as the control without any cavity liner. Spherical high copper amalgam was hand-condensed into each preparation, specimens were thermocycled, stained, and sectioned. Microleakage was graded using a stereomicroscope. Microleakage scores were calculated and analyzed using the Kruskal Wallis and the Mann-Whitney tests ($\alpha=0.05$). **Results:** Less microleakage was indicated with the VivaSens™ liner when compared with the other groups ($P<0.05$). Clearfil S³ Bond™ showed less microleakage than the control group ($P<0.05$), but the leakage with copal varnish and Clearfil S³ Bond™ was similar ($P>0.05$). **Conclusion:** VivaSens™ reduced the microleakage of Class II high copper amalgam restorations significantly more than the Clearfil S³ Bond™ and copal varnish.

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Author keywords

Amalgam; Cavity varnish; Resin-based desensitizing agent; Self-etching adhesive system

Indexed Keywords

EMTREE drug terms: Clearfil S3 Bond; copalite; dental alloy; dentin bonding agent; plant resin; resin; resin cement; unclassified drug; VivaSens Liner

EMTREE medical terms: article; comparative study; dental surgery; dentin sensitivity; human; nonparametric test; premolar tooth; tooth disease

MeSH: Bicuspid; Composite Resins; Dental Amalgam; Dental Cavity Lining; Dental Leakage; Dental Restoration, Permanent; Dentin Sensitivity; Dentin-Bonding Agents; Humans; Resin Cements; Resins, Plant; Statistics, Nonparametric

Medline is the source for the MeSH terms of this document.

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