

University of Baghdad

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Thesis Title	An assessment of techniques for the restoration of posterior teeth with polymering filling materials		
Year	1982		
Abstract	<p>The reported failure of polymeric composite materials used in the restoration of class II cavities may be in part due to the use of cavities designed principally for silver amalgam. Whilst some empirical modifications in cavity design have been proposed, no comprehensive study has been reported. Although certain physical properties of polymeric composite materials are inferior to those of amalgam, for example, polymerization shrinkage and low wear resistance, modifications in cavity design may compensate for, or minimize, the effects of these inherent shortcomings.</p> <p>The present study considered an ultra-conservative class II cavity design and related marginal leakage to the orientation of enamel prisms at the cavo – surface margins.</p> <p>The enamel prism orientation was observed by ground sections and by a resin replica technique in the scanning electron microscope. Two novel cavity designs were investigated; one with the entire cavo-surface margin beveled to 135° , and the other with the proximal margin only beveled. A new preformed matrix and syringe filling technique and conventional condensation filling technique were tested with both cavity designs.</p>		