

EVALUATION OF MARGINAL FIT OF COMPUTER AIDED CERAMIC INLAYS (CEREC) COMPARED TO LABORATORY PROCESSED ONE

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ABSTRACT

The purpose of this in vitro study was to evaluate the marginal fit of computer aided ceramic inlays (CEREC) compared to laboratory made ceramic inlays. Twenty extracted human teeth were randomly assigned into two equal groups. Standardized MOD cavities without bevels were prepared. A CAD-CAM processed ceramic inlays (CEREC), and laboratory made ceramic inlays, were fabricated according to the manufacturers instructions. After acid etching and treatment with bonding agent. The inlays were silanized and cemented with appropriate dual curing resin composite luting materials. Next to finishing, the restored teeth were thermal cycled. The marginal fit of the cemented inlays was then measured, and the data obtained were subjected to statistical analysis SEM observation was performed to visualize the marginal accuracy.