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Original Article

Efficacy of ceramic repair material on the bond strength of composite resin to zirconia ceramic

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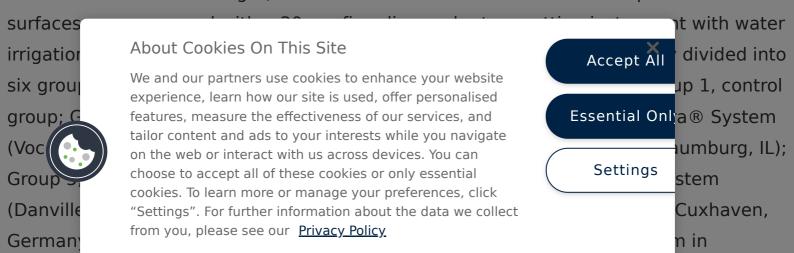
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Abstract

Objective. The aim of this study was to evaluate the shear bond strength of composite resin in five different repair systems. Materials and methods. Sixty specimens (7 mm in diameter and 3 mm in height) of zirconia ceramic were fabricated. All specimen

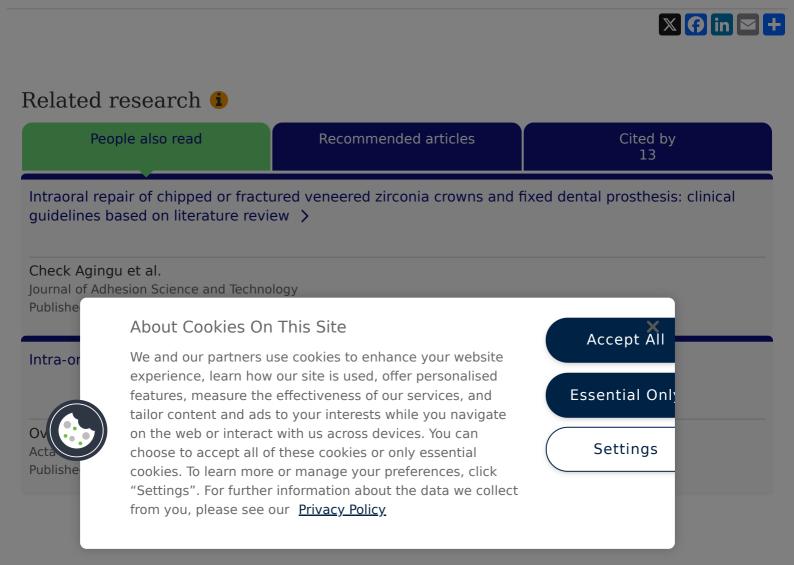


diameter and 3 mm in length) and incrementally filled up, according to the

manufacturer's instructions of each intra-oral system. Each specimen was subjected to a shear load at a crosshead speed of 1 mm/min until fracture. One-way analysis of variance (ANOVA) and Tukey post-hoc tests were used to analyze the bond strength values. Results. There were significant differences between Groups 2–6 and Group 1. The highest bond strength values were obtained with Group 2 (17.26 \pm 3.22) and Group 3 (17.31 \pm 3.62), while the lowest values were observed with Group 1 (8.96 \pm 1.62) and Group 6 (12.85 \pm 3.95). Conclusion. All repair systems tested increased the bond strength values between zirconia and composite resin that used surface grinding with a diamond bur.

Q Key Words: zirconia repair composite resin sear bond strength Y-TZP

Declaration of interest: The authors have no declared financial interests in any company manufacturing the types of products mentioned in this article. The authors alone are responsible for the content and writing of the paper.



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