

## عنوان مقاله:

Evaluating the effect of ceramic veneer thickness on degree of conversion in three luting resin cements

## محل انتشار:

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## خلاصه مقاله:

compare the effect of different ceramic thicknesses on degree of conversion (DC) of 3 light-cured resin cements. Methods: In this experimental in-vitro study, the degree of conversion of three light-cured resin cements, Variolink Veneer (Ivoclar, Liechtenstein), RelyX Veneer (3M ESPE, USA) and Choice2 (Bisco, USA) were evaluated beneath feldespatic ceramic discs (Vita VMK Master) with a same shade, 2m2, in different thicknesses (0.5, 1, 2 and 3 mm) using FTIR. The light curing unit used was Optilux 501, with an intensity of 600 mW/cm<sup>2</sup> and exposure duration of 40 seconds. Three specimens of each cement group were examined in each condition. The obtained data was submitted to Kolmogorov-Smirnov and also checked for absence of skewness and kurtosis for normal distribution. After that, ANOVA test was used for comparison between experimental groups (Tukey HSD). Results: In all the three used cements, DC decreased as ceramic thickness increased. This reduction was not significant when using 0.5 and 1 mm ceramic discs, however, it was significant between 1, 2, and 3mm discs ( $p < 0.05$ ). There was no difference within the cements' DC when exposed through ceramic discs of 0.5, 1, and 2mm, but the Rely X Veneer cement had a lower DC compared to Variolink Veneer and Choice2 when the thickness increased to 3mm ( $p < 0.05$ ). Conclusion: It is not advisable to use light-cured resin cements beneath 3 mm thick ceramics and the use of Rely X Veneer is not recommended as the ceramic thickness increases.

## کلمات کلیدی:

ceramic veneer thickness, degree of conversion, luting resin cements

## لینک ثابت مقاله در پایگاه سیویلیکا:

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