

Pengaruh durasi penyinaran dan warna terhadap kekuatan tarik diametral resin komposit bulk-fill = Influence of different exposure time and color shade on diametral tensile strength of bulk fill composite

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Abstrak

Penelitian ini bertujuan untuk mengevaluasi pengaruh durasi penyinaran terhadap kekuatan tarik diametral resin komposit bulk-fill. Enam puluh spesimen Tetric N-Ceram Bulk-Fill ketebalan 3 mm dan diameter 6 mm; warna IVA dan IVW dibagi ke dalam 3 kelompok berdasarkan durasi penyinaran 10 detik, 15 detik, dan 20 detik untuk setiap warna. Spesimen dipolimerisasi dengan LED curing unit Bluephase Style, 1.280 mW/cm² dan diuji kekuatan tarik diametralnya menggunakan uji statistik Universal Testing Machine. Data yang diperoleh dianalisis menggunakan One-Way ANOVA dan Post-Hoc Tukey HSD. Hasil menunjukkan adanya perbedaan bermakna.

.....This study was conducted to evaluate the influence of different exposure time and bulk fill composite shade on its diametral tensile strength. Sixty disc shaped specimens of Tetric N Ceram Bulk Fill 3 mm of thickness x 6 mm of diameter shade IVA and IVW were divided into 3 subgroups for each shade according to exposure times 10 s, 15 s, and 20 s . All specimens were polymerized using LED curing unit Bluephase Style, 1.280 mW cm² and tested using Universal Testing Machine to determine its diametral tensile strength. Data were statistically analyzed using One Way ANOVA dan Post Hoc Tukey test. The result showed a significant differences in all groups.