Pengaruh penggunaan sumber sinar berbeda terhadap kekuatan tarik diametral resin komposit bulk-fill = The effect of using different light sources on diametral tensile strength of bulk fill resin composite

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Abstrak

Tujuan penelitian ini untuk mengetahui pengaruh penggunaan sumber sinar berbeda terhadap kekuatan tarik diametral resin komposit bulk-fill. Resin komposit bulk-fill Tetric N-Ceram Bulk Fill dibuat sebanyak 20 spesimen berbentuk lempeng dengan diameter 6 mm dan tebal 3 mm. Spesimen dibagi menjadi dua kelompok yaitu kelompok yang disinari dengan sumber sinar QTH dan sumber sinar LED. Uji kekuatan tarik diametral dilakukan dengan menggunakan Universal Testing Machine. Hasil penelitian menunjukkan nilai rerata kekuatan tarik diametral resin komposit bulk-fill yang disinari sumber sinar QTH dan LED sebesar 38.62 2.34 dan 42.02 3.21. Hasil uji independent sample T menunjukkan nilai rerata pada kedua kelompok berbeda bermakna.

.....This study aimed to evaluate the effect of using different light sources on the diametral tensile strength of bulk fill resin composite. Bulk fill resin composite Tetric N Ceram Bulk Fill was used to make of 20 disc shape specimens with 6 mm in diameter and 3 mm in thickness. Specimens were divided into two groups, the two groups were polymerized with using QTH and LED light source curing unit. Diametral tensile strength test was conducted by using a Universal Testing Machine Shimadzu, Japan. The results showed that diametral tensile strength mean value of bulk fill resin composite that were cured with QTH and LED light source were 38.62 2.34 and 42.02 3.21 MPa respectively. Independent sample t test results showed that the mean value of the two groups was significantly different.