

## Pengaruh jarak penyinaran terhadap depth of cure resin komposit serat sebagai substruktur = Effect of light curing distance on the depth of cure of fiber reinforced composite as substructure

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### Abstrak

Penelitian ini bertujuan untuk menganalisis pengaruh jarak penyinaran terhadap depth of cure DOC resin komposit serat sebagai substruktur. Delapan belas spesimen EverX Posterior warna A3 berbentuk silinder diameter 6 mm dan tebal 4 mm dibagi menjadi 3 kelompok jarak penyinaran 0, 2, dan 4 mm yang dipolimerisasi dengan LED Litex 695, irradiansi 800 mW/cm<sup>2</sup>, selama 20 detik. Pengukuran DOC dilakukan melalui rasio kekerasan Vickers. Analisis data dilakukan menggunakan uji ANOVA satu arah. Hasil penelitian menunjukkan DOC pada jarak penyinaran 0, 2, dan 4 mm sebesar 79 0,7, 77 0,6, dan 75 0,8. Disimpulkan terdapat perbedaan bermakna pada nilai DOC pada seluruh jarak penyinaran.

*This study aims to analyze the effect of light curing distance on the depth of cure DOC of fiber reinforced composite as substructure. Eighteen specimens consist of EverX Posterior shade A3, formed into a cylindrical shape 6 mm in diameter and 4 mm thickness divided into 3 groups according to light curing distance 0, 2, and 4 mm which were polymerized with LED Litex 695, irradiance 800 mW cm<sup>2</sup>, for 20s. Measurement of DOC was carried out by Vickers hardness ratio of specimens. Data were analyzed statistically by one way ANOVA test. The result showed the DOC at a light curing distances of 0, 2, and 4 mm was 79 0,7, 77 0,6, and 75 0,8. It was concluded that there is a significant difference in DOC among the light curing distance.*