Pengaruh lama penyinaran dengan Led Curing Unit Ultra High Intensity terhadap kekuatan tarik diametral Resin komposit Packable = The effect of the curing time of Ultra High Intensity Led Curing Unitt on diametral tensile strength of packable composite resin / Anisa Nurlatifah

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Abstrak

ABSTRAK
Penelitian ini bertujuan mengevaluasi pengaruh lama penyinaran LED curing unit dengan waktu 1,3 detik dari LED curing unit ultra high intensity (Flash Max P3, intensitas 4000 mW/cm2) dan 20 detik dari LED konvensional (Ledmax 450, intensitas 450 mW/cm2) terhadap kekuatan tarikan diametral resin komposit packable. Uji kekuatan tarik diametral menggunakan Universal Testing Machine. Hasil uji kekuatan tarik diametral diperoleh 31,1±6,84 MPa; 42,9±8,26 MPa dan 52,5±7,52 MPa. Analisa statistik independent t-test menunjukkan perbedaan bermakna (p<0,05). Dapat disimpulkan, lama penyinaran dari LED curing unit ultra high intensity mempengaruhi kekuatan tarik diametral resin komposit packable.
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ABSTRACT
That aim of study to evaluate the influence of the curing time of LED curing unit on diametral tensile strength composite resin packable with 1,3 second from ultra high intensity LED curing unit (Flash Max, intensity 4000 mW/cm2) and 20 seconds from convensional LED (Ledmax 450, intensity 450 mW/cm2). Universal Testing Machine was used and the results showed diametral tensile strength of 31,1±6,84 MPa; 42,9±8,264 MPa; 52,5±7,52 MPa. The result was independent ttest statistically significant (p<0,05). In conclusion, curing time of ultra high intensity LED curing unit influences the diametral tensile strength of packable composite resin.