

Pengaruh aplikasi hidrogen peroksida 40 terhadap kerentanan perubahan warna resin komposit nanohibrida oleh minuman berkarbonasi = The effect of 40 hydrogen peroxide application on nanohybrid composite resin staining susceptibility by carbonated drinks

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Abstrak

Penelitian ini bertujuan untuk mengetahui pengaruh aplikasi hidrogen peroksida 40 terhadap kerentanan perubahan warna resin komposit nanohibrida oleh minuman berkarbonasi. Tiga puluh spesimen resin komposit nanohibrida berbentuk silinder diameter 6mm x ketebalan 2mm dibagi menjadi tiga kelompok; Coca-Cola, Fanta Strawberry, dan Sprite n=10. Seluruh spesimen direndam dalam minuman masing-masing selama 7 hari, diaplikasikan hidrogen peroksida 40, dan direndam kembali selama 7 hari. Pengukuran warna dilakukan sebanyak empat kali dengan Colorimeter. Nilai perubahan warna kemudian dihitung. Data dianalisis menggunakan uji statistik Paired-Samples T Test dan One-Way ANOVA.

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This study aims to analyze the effect of 40 hydrogen peroxide application on nanohybrid composite resin staining susceptibility by carbonated drinks. Thirty cylindrical specimens 6mm diameter x 2mm depth of nanohybrid composite resin were divided into 3 groups Coca Cola, Fanta Strawberry, and Sprite n 10. All specimens were immersed in each drinks for 7 days, bleached with 40 hydrogen peroxide, and re immersed for 7 days. Color measurement was done four times using a Colorimeter. Color differences between each measurement were calculated. Data were analyzed statistically by Paired Samples T Test and One Way ANOVA.