

Pengaruh perendaman minuman isotonik terhadap kekerasan permukaan resin komposit bulk-fill = Effect of isotonic drink immersion on surface hardness of bulk-fill composite

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Abstrak

Penelitian ini bertujuan untuk mengetahui pengaruh perendaman minuman isotonik terhadap kekerasan permukaan resin komposit bulk-fill. Enam puluh spesimen Tetric N-Ceram Bulk-Fill berdiameter 6 mm dan tinggi 3 mm dibagi menjadi 2 kelompok perendaman yaitu dengan akuades (kontrol) dan minuman isotonik. Setiap kelompok direndam dengan lama perendaman 1 hari, 3 hari dan 7 hari. Kekerasan permukaan diuji menggunakan HMV-G Series Micro Vickers Hardness Tester.

Hasil menunjukkan terdapat perbedaan bermakna ($p < 0,05$) antara perendaman akuades dan minuman isotonik uji Independent T-Test. Hasil menunjukkan bahwa terdapat perbedaan bermakna ($p < 0,05$) antara semua kelompok perendaman minuman isotonik dengan lama perendaman 1 hari, 3 hari dan 7 hari dengan uji statistik One-Way Anova dan PostHoc Tukey HSD. Dapat disimpulkan bahwa minuman isotonik mempengaruhi kekerasan permukaan resin komposit bulk-fill.

This study aims to determine the influence of isotonic drink immersion on surface hardness of bulk-fill composite. Sixty specimens of Tetric N-Ceram Bulk-Fill, 6 mm in diameter and 3 mm height were divided into two groups of storage media; deionized water (control) and isotonic drink. Each group was for 1 day, 3 days and 7 days. The surface hardness is measured using a HMV-G Series Micro Vickers Hardness Tester.

The results showed that there were significant differences ($p < 0.05$) between immersion of control and isotonic drink with Independent T-Test. The results showed that there were significant differences ($p < 0.05$) between all isotonic drink immersion groups with immersion duration of 1 day, 3 days and 7 days with One-Way Anova Test and Post Hoc Tukey HSD. It can be concluded that isotonic drinks affect the surface hardness of bulk-fill composite.