

Pengaruh penyikatan menggunakan pasta gigi nano calcium carbonate terhadap kekasaran permukaan resin komposit nanofil = Effect of brushing with toothpaste containing nano calcium carbonate towards nanofill composite resin surface roughness / Alviani Martha Ramadhani

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Abstrak

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Penelitian ini bertujuan untuk mengetahui pengaruh penyikatan menggunakan pasta gigi nano calcium carbonate terhadap kekasaran permukaan resin komposit nanofil. Penyikatan menggunakan 3 jenis bahan penyikat dengan lama penyikatan 10, 20, dan 30 menit. Kekasaran permukaan diuji menggunakan surface roughness tester dan hasil dianalisis dengan uji repeated ANOVA dan one way ANOVA. Morfologi permukaan setelah disikat selama 30 menit diamati menggunakan SEM. Nilai kekasaran permukaan resin komposit nanofil meningkat secara bermakna ( $p < 0.005$ ) setelah dilakukan penyikatan dengan pasta gigi nano calcium carbonate tetapi peningkatan nilai tidak setinggi penyikatan dengan pasta gigi lainnya.

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**ABSTRACT**

This study aimed to determine the effect of brushing using toothpaste containing nano calcium carbonate on the surface roughness of composite resin nanofill. Brushing use 3 types of materials with brushing period within 10, 20, and 30 minutes. Surface roughness measured using surface roughness tester and the results were analyzed by repeated ANOVA and one way ANOVA test. Surface morphology after brushing for 30 minutes was observed using SEM. Nanofill Composite resin surface roughness value increased significantly after brushing with toothpaste containing nano calcium carbonate but the increase was not as high as the value of brushing with other toothpastes.