

# Pengaruh Aplikasi Pasta Gigi yang Mengandung Charcoal terhadap Kekasaran Permukaan Resin Komposit Nanohibrida = The Effect of Charcoal in Toothpaste on Surface Roughness of Nanohybrid Composite Resin

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## Abstrak

Penelitian ini bertujuan untuk mengetahui pengaruh pasta gigi yang mengandung charcoal terhadap kekasaran permukaan resin komposit nanohibrida. 24 spesimen resin komposit nanohibrida dikelompokkan menjadi 3 kelompok (n=8), masing-masing kelompok disikat dengan medium akuades, pasta gigi Formula Strong®, dan pasta gigi Formula Charcoal®. Penyikatan dilakukan sebanyak 5.000 putaran kemudian dilanjutkan mencapai 10.000 putaran. Ra diukur dengan Surface Roughness Tester. Data yang diperoleh dianalisa menggunakan Uji Repeated ANOVA dan One Way ANOVA. Ra setelah penyikatan dengan medium pasta gigi Formula Strong® dan Formula Charcoal® tidak menunjukkan perbedaan yang bermakna. Dapat disimpulkan, tidak ada pengaruh kandungan charcoal terhadap peningkatan Ra resin komposit nanohibrida.

.....This study verified the influence of toothpaste contains charcoal on the surface roughness of nanohybrid composite resin. Twenty-four specimens of nanohybrid composite resin are divided into three group (n=8) brushed with distilled water, Formula Strong®, and Formula Charcoal® toothpaste. Brushing were performed for 5.000rotates and continued until 10000rotates. Ra were determined by Surface Roughness Tester. The results were statistically analized using Repeated ANOVA and One Way ANOVA test. The roughness mean values after brushing with Formula Strong® and Formula Charcoal® showed no statistically significant difference. These result suggest that no effect of charcoal on surface roughness of nanohybrid composite resin.