

Pengaruh aplikasi gel apf terhadap kekasaran permukaan resin sealant = Effect of apf gel application on the surface roughness of resin sealant / Deryana Avidhianita

Deryana Avidhianita, author

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Abstrak

ABSTRAK

Latar Belakang: Gel APF yang bersifat asam dapat meningkatkan kekasaran permukaan bahan restorasi, yang menyebabkan adhesi bakteri dan karies sekunder.

Tujuan: Menganalisis pengaruh aplikasi gel APF terhadap kekasaran permukaan resin sealant. Metode: Tiga puluh enam spesimen resin sealant dibagi secara acak ke dalam enam kelompok, yaitu aplikasi gel APF dan akuades selama tiga puluh menit sebanyak satu, dua dan tiga kali. Nilai kekasaran permukaan rerata diukur dengan surface roughness tester Mitutoyo SJ201. Hasil: Kekasaran permukaan meningkat bermakna setelah satu kali aplikasi, dan menurun bermakna setelah dua kali aplikasi. ($p < 0,05$) Kesimpulan: Gel APF menurunkan kekasaran permukaan resin sealant setelah dua kali aplikasi.

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ABSTRACT

Background: Acidity of APF gel could increase restorative material surface roughness, leading to increased bacterial adhesion and secondary caries. Aim: To analyze the effect of APF gel application on the surface roughness of resin sealant. Method: Thirty six resin sealant specimens were randomly divided into six groups, APF gel and aquadest one, two and three times application for thirty minutes each. Mean roughness was measured by Mitutoyo SJ201 surface roughness tester. Result: Surface roughness was significantly increased after one time gel application, and decreased significantly after twice gel application. ($p < 0,05$) Conclusion: APF gel decreased resin sealant surface roughness after second application.