

Kekerasan Dentin Setelah Pengaplikasian Varnish Propolis Fluoride dan Silver Diamine Fluoride = Dentin Microhardness After Propolis Fluoride and Silver Diamine Fluoride Application

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Abstrak

Latar Belakang: Silver Diamine Fluoride (SDF) dan Propolis Fluoride (PPF) merupakan varnish yang memiliki sifat antibakteri dan dapat mencegah demineralisasi dan memicu remineralisasi
Tujuan: Penelitian ini bertujuan untuk menganalisis kekerasan dentin setelah aplikasi varnish SDF dan PPF selama 30 hari dan 60 hari.
Metode: Enam spesimen dentin gigi premolar dengan ukuran 4x4x2 mm diaplikasikan varnish SDF (38%) dan PPF (10%) kemudian setiap spesimen direndam dalam tube berisi aquadem lalu dikocok dengan kecepatan 45 rpm selama 30 menit setiap hari. Dan dilakukan uji kekerasan menggunakan Vickers microhardness tester setelah 30 dan 60 hari.
Hasil: Nilai kekerasan dentin setelah 30 hari aplikasi SDF ialah $67 \pm 2,83$ VHN dan PPF ialah $61,00 \pm 2,44$ VHN. Sedangkan nilai kekerasan dentin setelah 60 hari aplikasi SDF ialah $69,00 \pm 2,82$ VHN dan PPF ialah $73,25 \pm 1,71$ VHN.
Kesimpulan: Varnish SDF dan PPF efektif meningkatkan kekerasan dentin.

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Background: Silver Diamine Fluoride (SDF) and Propolis Fluoride (PPF) had antibacterial properties on silver and propolis contents. The fluoride content present in both varnishes could inhibit demineralization and promote remineralization
Objective: This study analyzed the dentin microhardness after 30 and 60 days application of Sodium diamine fluoride (SDF) and propolis fluoride (PPF).
Methods: Six dentin blocks were allocated and divided into control groups and treatment groups with SDF (38%) and PPF (10%). Each dentin block in the treatment group received a topical application of various fluoridebased varnishes and was submerged in aquadem and shaken for 30 minutes at 45 rpm every day. The dentin hardness was analyzed by a Vickers microhardness tester.
Results: Dentin microhardness after 30 days application of SDF varnish was $67 \pm 2,83$ VHN and PPF varnish was $61,00 \pm 2,44$ VHN. While, Dentin microhardness after 60 days application of SDF varnish was $69,00 \pm 2,82$ VHN and PPF varnish was $73,25 \pm 1,71$ VHN
Conclusion: SDF and PPF were effective for dentin remineralization and increase dentin microhardness.