

Efektivitas aplikasi nano silver fluoride (NSF) dan propolis fluoride (PPF) terhadap remineralisasi dentin melalui uji kristalinitas =
Effectiveness of nano silver fluoride (NSF) and propolis fluoride (PPF) application to dentin remineralization by crystallinity test

Putri Nuraisiya, author

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Abstrak

Tujuan. Menganalisis efek aplikasi NSF dan PPF terhadap remineralisasi dentin melalui uji kristalinitas.

Metode. Dentin blok dibagi dalam sembilan kelompok, yaitu kelompok kontrol positif dan negatif dan tujuh kelompok perlakuan. Kontrol negatif merupakan dentin normal dan kontrol positif merupakan dentin yang didemineralisasi. Kelompok perlakuan diaplikasikan NSF dan PPF dengan konsentrasi yang berbeda. Karakteristik kristal dari seluruh dentin blok diuji oleh X-Ray Diffraction XRD.

Hasil. Gambaran XRD memperlihatkan senyawa apatit, senyawa kalsium, dan senyawa logam dalam kelompok perlakuan lebih tinggi dibandingkan kelompok kontrol positif.

Kesimpulan. NSF dan PPF efektif terhadap remineralisasi dentin.

.....To analyze the effects of NSF and PPF application to dentin remineralization by crystallinity test.

Method. Dentin blocks were allocated to nine groups, control groups positive and negative and seven treatment groups. Control negative is sound dentin and control positive is demineralized dentin. The treatment groups were applied of NSF and PPF with different concentration. The crystal characteristics of dentin blocks were investigated by X Ray Diffraction XRD.

Result. XRD revealed precipitates of apatite compounds, calcium compounds, and metal compounds in treatment groups higher than in control positive group.

Conclusion. NSF and PPF were effective for dentin remineralization.