

# Analisa efek perendaman susu dan natrium fluoride 0,2% terhadap email gigi menggunakan micro computed tomography = The effect of milk and sodium fluoride 0,2% on dental enamel a micro computed tomography analysis

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## Abstrak

Tujuan : Menganalisa efek susu dan NaF 0,2% terhadap demineralisasi email gigi.

Metode : Mahkota 30 gigi premolar dibentuk kubus gigi. Grup A-susu dan NaF 0,2% ; Grup B-susu ; Grup C-akuabides. Setelah 3 hari perendaman dalam larutan demineralisasi, gigi di scan menggunakan micro computed tomography (micro-CT).

Hasil : MGV antara ketiga kelompok berbeda bermakna ( $p < 0.05$ ), kecuali antara grup A dan B. Kesimpulan: Aplikasi menggunakan susu saja menunjukkan efek protektif yang lebih tinggi terhadap demineralisasi dibandingkan dengan aplikasi susu dan NaF 0,2%.

.....Objective : This study is aimed to analyze the effect of milk and tea on tooth enamel demineralization.

Methods : The coronal parts of 30 extracted sound premolars were prepared into tooth blocks (6mm<sup>3</sup>).

Group A- milk and sodium fluoride 0,2% ; Group B-milk ; and Group C- deionized water. After 3 days immersion in a buffered demineralization solution at pH 4.4 , micro-Computed Tomography scans were taken.

Result : The mean grey value between the three groups were statistically significant at  $p < 0.05$ , except between group A and B. Conclusion: Intervention with milk only showed higher protective effect againts demineralization compared to the applplication using milk and NaF 0,2%.