

Pengaruh perendaman jus jeruk kemasan dan jus jeruk segar terhadap kekerasan email studi in vitro = The effect of immersions of the teeth in fresh orange juice and commercial orange juice to the enamel hardness in vitro study

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Abstrak

Jus jeruk memiliki pH di bawah pH kritis email dan semakin mudah dikonsumsi dengan adanya bentuk kemasan.

Tujuan: Mengetahui pengaruh lama perendaman dan jenis jus terhadap kekerasan email.

Metode: 60 gigi premolar direndam di dalam jus jeruk segar dan kemasan (masing - masing n=30) selama 30 dan 60 menit.

Hasil: Hasil analisis Repeated ANOVA, Friedman, Mann-Whitney dan Independent T-test, menunjukkan terjadinya penurunan kekerasan email yang bermakna ($p < 0,05$) di setiap waktu pengukuran, serta gigi yang direndam jus jeruk kemasan penurunan kekerasan emailnya lebih besar ($p < 0,05$).

Kesimpulan: Penurunan kekerasan email dipengaruhi pH dan kandungan asam sitrat jus jeruk serta lama perendaman.

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Orange juice has pH below enamel critical pH and is getting easier to be consumed since commercial one is provided.

Objective: to know effects of immersion time and juice types to enamel hardness.

Method: 60 premolars were immersed in fresh orange juice and commercial one (each n=30) for 30 and 60 minutes.

Result: Repeated ANOVA, Friedman, Mann-Whitney and Independent T-test results showed that enamel hardness decrease occurred ($p < 0,05$) in every measurement time and commercial juice immersion had significantly greater enamel hardness decrease ($p < 0,05$).

Conclusion: enamel hardness decrease was affected by juice pH, juice citric acid concentration, and immersion time.