

Perbedaan penurunan kekerasan mikro email pascapenggunaan pasta gigi pemutih studi in vitro = Difference in decrease of enamel microhardness after the use of whitening toothpaste an in vitro study

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Abstrak

Skripsi ini bertujuan untuk mengetahui pengaruh pasta gigi pemutih terhadap kekerasan mikro email. Sampel yang digunakan adalah email gigi premolar manusia dan secara acak dibagi menjadi 3 kelompok: 1-Pepsodent Whitening, 2- Formula Sparkling White, 3-Pepsodent Regular. Kekerasan mikro email diukur sebelum penyikatan, setelah penyikatan setara 1 dan 3 bulan oleh Knoop Microhardness Tester. Penyikatan dengan pasta gigi pemutih setara 1 bulan tidak menurunkan kekerasan mikro email secara signifikan, namun pada penyikatan setara 3 bulan terjadi penurunan kekerasan mikro email secara signifikan. Dapat disimpulkan bahwa penyikatan dengan pasta gigi pemutih berpotensi menurunkan ketahanan email terhadap karies setelah penggunaan jangka panjang.

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The aim of this study was to assess the effect of whitening toothpaste on enamel microhardness. Human enamel samples were obtained from premolars and randomly divided into three groups: 1-Pepsodent Whitening, 2-Formula Sparkling White, 3-Pepsodent Regular. Microhardness testing was performed with a Knoop Microhardness Tester before brushing, after brushing for one and three months. There were no significant decrease in enamel microhardness values after one month brushing with whitening toothpaste, but after three months brushing there were significant decrease in enamel microhardness. It was concluded that whitening toothpaste has a potential to decrease enamel resistance to caries after using for a prolonged time.