

Pengaruh ph minuman dalam kemasan terhadap gaya regang power chain ortodontik = Effect of ph from softdrinks toward force decay of orthodontic power chain / Martyn Suprayugo

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Abstrak

ABSTRAK

Tujuan penelitian ini untuk mengetahui pengaruh pH minuman kemasan terhadap gaya regang power chain. Digunakan 28 power chain merk ormco, tipe tertutup, bening, yang diregangkan pada 2 titik berjarak 40 mm pada plat akrilik dan direndam dalam larutan teh botol, buavita, coca cola dan aquades. Gaya regang (grf) power chain diukur menggunakan force gauge dan dicatat gaya awal, setelah 1 jam, 24 jam, 48 jam, 72 jam, 168 jam dan 336 jam perendaman. Terjadi penurunan gaya regang power chain yang signifikan, namun tidak terdapat perbedaan signifikan terhadap setiap waktu perendaman dalam perbedaan pH larutan teh botol, buavita, coca cola dan aquades.

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ABSTRACT

The aim of the study was to evaluate the effect of teh botol, Buavita, coca cola and distilled water toward force decay of orthodontic power chain. Twenty eight power chains (Ormo, closed type, tranparant) were fixed on acrylic framework (40 mm of distance) and immersed in teh botol, buavita, coca cola and distilled water. Force decay were measured using tension gauge (grf) and recorded at initial force, 1 hour, 24 hour, 42 hour, 72 hour, 168 hour and 336 hours of immersion. There was a decrease of force, however acidity did not influence force degradation of power chain statistically.