

Pengaruh aplikasi sik diatas mta flow dan biodentine terhadap pembentukan interface layer = The Influence of glass ionomer application to mta flow and biodentine towards interface layer

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Abstrak

Latar belakang: Biodentine trade; dan MTA Flow trade; adalah material berbasis kalsium silikat dengan setting time yang cepat, dalam aplikasi klinisnya SIK dikembangkan sebagai pelindung material berbasis kalsium silikat selama proses hidrasi.

Tujuan: Membandingkan bentuk interface layer antara SIK dengan Biodentine trade; dan MTA Flow trade;.

Metode: Sepuluh sampel pada tiap kelompok, MTA Flow dan Biodentine ditumpat segera dengan SIK pada cetakan silinder plastik 5x5mm, diinkubasi selama 24 jam dalam suhu 370C dan kelembaban 100 , kemudian sampel dipotong dalam arah vertikal dengan diamond disc dan interface layer diamati dengan uji scanning electron microscope SEM dan diuji statistik dengan Mann Whitney Test

Hasil: Terdapat perbedaan bentuk interface layer yang bermakna antara kelompok Biodentine trade; dan MTA Flow trade.

.....Background: Biodentine trade and MTA Flow trade are calcium silicate cement material with improved setting time. In many clinical situations, glass ionomer cement GIC has been developed to cover calcium silicate cements during hydration.

Objective: To compare the interface layer between Biodentine trade and MTA Flow trade off GIC.

Methods: 10 samples from every group are filled with GIC immediately in a plastic mold, and after that all of the specimens were stored at 370C and 100 humidity for 24 hours to encourage setting. The specimens were then sectioned vertically with diamond disc and examined using a scanning electron microscope magnification 50 200x. Statistical analysis was done using Mann Whitney Test.

Result: It showed that the interface layer between Biodentine and MTA Flow are significantly different.