

Pengaruh shelf life terhadap kuat tekan semen ionomer kaca modifikasi resin = The influence of shelf life on compressive strength of resin modified glass ionomer cement

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Abstrak

[Latar Belakang : Semen Ionomer Kaca Modifikasi Resin (SIKMR) merupakan salah satu material restorasi yang terdiri dari bubuk dan cairan yang kestabilannya dipengaruhi oleh shelf life. Hal ini masih belum diperhatikan oleh pengguna maupun penjual. Tujuan : Mengetahui pengaruh shelf life terhadap nilai kuat tekan SIKMR. Metode : 30 spesimen berbentuk silinder ($d=4\text{mm}$ dan $t=6\text{mm}$) SIKMR (Fuji II LC dari GC, Tokyo) dibagi menjadi tiga kelompok berdasarkan lama penyimpanan dan dilakukan uji kuat tekan dengan universal testing machine. Data kemudian dianalisis statistik dengan uji One-Way ANOVA. Hasil : Terdapat perbedaan bermakna ($p<0,05$) antara ketiga kelompok SIKMR. Kesimpulan : Terdapat penurunan nilai kuat tekan seiring dengan lamanya penyimpanan, Background : Resin Modified Glass Ionomer Cement (RMGIC) is one of restoration materials composed by powder and liquid that their stability is affected by shelf life. This thing hasn't been taken as a consideration by customers or sellers. Objective : To observe the influence of shelf life on compressive strength of RMGIC. Methods: 30 cylindrical ($d = 4\text{mm}$ and $t = 6\text{mm}$) specimens RMGIC (Fuji II LC of GC, Tokyo) are divided into three groups with different storage time and compressive strength tested with universal testing machine. Results were statistically analyzed with One-Way ANOVA test. Results: There are significant differences ($p < 0.05$) between three groups of RMGIC. Conclusion: There is a decrease in compressive strength value along with the length of storage time]