

ABSTRAK

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Judul : Perbedaan Efektivitas Pelarut *Orange Oil* Terhadap *Sealer*
Berbasis *Resin* dan *Zinc Oxide Eugenol*

Pelarut berperan melarutkan dan membantu mengeluarkan bahan pengisi saluran akar dengan lebih cepat pada perawatan ulang. Penelitian ini bertujuan untuk mengetahui perbedaan efektivitas pelarut *orange oil* terhadap *sealer* berbasis *resin* dan *zinc oxide eugenol*. Sampel adalah *sealer* berbasis resin dan *sealer* berbasis *zinc oxide eugenol* yang dicetak dalam sebuah cetakan silindris aluminium dengan diameter 10 mm dan tinggi 3 mm. Besar sampel sebanyak 60 sampel yang dibagi menjadi 4 kelompok (*sealer* berbasis resin waktu perendaman 2 menit dan 5 menit, *sealer* berbasis *zinc oxide eugenol* waktu perendaman 2 menit dan 5 menit), dilakukan penimbangan sampel sebelum dan sesudah direndam *orange oil* selama 2 menit dan 5 menit. Analisis data menggunakan uji T berpasangan dan Uji Normalitas *Kolmogorov Smirnov*. Hasil penelitian menunjukkan bahwa efektivitas pelarut *orange oil* terhadap *sealer* berbasis resin dan *zinc oxide eugenol* tidak memiliki perbedaan yang signifikan pada waktu perendaman 2 menit dan 5 menit ($p > 0,05$). Berdasarkan hasil penelitian dapat disimpulkan bahwa efektivitas pelarut *orange oil* terhadap *sealer* berbasis resin dan *zinc oxide eugenol* tidak memiliki perbedaan yang signifikan.

Kata kunci:

Pelarut *orange oil*, *sealer resin*, *sealer zinc oxide eugenol*.

ABSTRACT

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Title :*The Difference of Orange Oil Solvent Effectiveness Against Sealers Based on Eugenol Resin And Zinc Oxide*

The solvent helps to dissolve and remove the root canal filling material on re-treatment more efficiently. This study aims to determine the differences in the effectiveness of orange oil solvent against resin-based sealers and zinc oxide eugenol. The samples were resin based sealers and zinc oxide eugenol based sealers molded in an aluminum cylindrical mold with a diameter of 10 mm and a height of 3 mm. The sample size was 60 samples which were divided into 4 groups (resin-based sealer soaking time of 2 minutes and 5 minutes, sealer based on zinc oxide eugenol, immersion time of 2 minutes and 5 minutes), weighing the samples before and after soaking in orange oil for 2 minutes and 5 minutes. . Data analysis used paired T test and Kolmogorov Smirnov normality test. The results showed that the effectiveness of the orange oil solvent against resin-based sealers and zinc oxide eugenol did not have a significant difference in the immersion time of 2 minutes and 5 minutes ($p > 0.05$). Based on the research results, it can be concluded that the effectiveness of orange oil solvent against resin-based sealers and zinc oxide eugenol does not have a significant difference.

Keywords:

Orange Oil solvent, resin sealer, Zinc Oxide Eugenol sealer.