

Perbandingan efek Odontocem® dan Biodentine® terhadap viabilitas sel fibroblas = The comparison of effects of Odontocem® dan Biodentine® towards cell fibroblas viabilities

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Abstrak

ABSTRAK
Odontocem® dan Biodentine®, berbahan dasar kalsium silikat. Tetapi terdapat kandungan lain yang mungkin memiliki efek pada viabilitas sel. Contohnya penambahan steroid dalam Odontocem®. Belum diketahui apakah penambahan steroid tersebut memiliki efek atau tidak terhadap viabilitas sel. Sel fibroblas yang diambil dari Telur Embrio Tertunas (TET), dipajan dengan Odontocem® dan Biodentine® dengan jumlah masing-masing kelompok sebesar 15 well. Kemudian viabilitas sel diukur selama 24 jam dan 72 jam. Hasil penelitian diuji dengan uji statistik Kruskal Wallis dengan uji post hoc Mann-Whitney. Berdasarkan hasil penelitian, didapatkan bahwa Odontocem® dan Biodentine® memiliki efek menurunkan viabilitas sel fibroblas pada pengukuran 24 jam dan 72 jam. Juga viabilitas sel fibroblas pada kelompok perlakuan Odontocem® lebih tinggi daripada Biodentine® baik pada pengukuran 24 jam maupun 72 jam.

ABSTRACT
Odontocem® and Biodentine®, both consist of calcium silicate. But there are other substances which may have an effect on cell viability. For example, addition of steroids in Odontocem®. It is not yet known whether these steroids have an effect or not on the cell viability. Fibroblasts taken from Chicken Embryo, added with Odontocem® and Biodentine® by each group of 15 wells. Then the cell viability was measured for 24 hours and 72 hours. The result were tested by Kruskal Wallis statistical test with post hoc test of Mann-Whitney. Based on this research, it was found that Odontocem® and Biodentine® have a lowering effect on the fibroblast cell viability for 24 hours and 72 hours. Thus, fibroblast cell viability the treatment group Odontocem® is higher than both the measurement Biodentine® 24 hours or 72 hours.;Odontocem® and Biodentine®, both consist of calcium silicate. But there are other substances which may have an effect on cell viability. For example, addition of steroids in Odontocem®. It is not yet known whether these steroids have an effect or not on the cell viability. Fibroblasts taken from Chicken Embryo, added with Odontocem® and Biodentine® by each group of 15 wells. Then the cell viability was measured for 24 hours and 72 hours. The result were tested by Kruskal Wallis statistical test with post hoc test of Mann-Whitney. Based on this research, it was found that Odontocem® and Biodentine® have a lowering effect on the fibroblast cell viability for 24 hours and 72 hours. Thus, fibroblast cell viability the treatment group Odontocem® is higher than both the measurement Biodentine® 24 hours or 72 hours.