

## Efek ekstrak jintan putih (*Cuminum cyminum*) terhadap viabilitas dental pulp stem cells (DPSCs) = Effect of cumin extract (*Cuminum cyminum*) on viability of dental pulp stem cells (DPSCs)

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### Abstrak

Latar Belakang: Ekstrak jintan putih *Cuminum cyminum* memiliki potensi efektivitas antibakteri dan anti jamur serta tidak toksik terhadap sel fibroblas tikus. Belum terdapat penelitian yang meneliti toksisitas ekstrak jintan putih terhadap Dental Pulp Stem Cells DPSCs . Tujuan: Mengetahui efek ekstrak jintan putih konsentrasi 0,1 mg/ml, 0,4 mg/ml, 0,7 mg/ml, dan 1,0 mg/ml terhadap viabilitas DPSCs. Metode: Menggunakan uji MTT dengan menghitung nilai absorbansi menggunakan microplate reader, dengan hasil akhir berupa nilai optical density OD yang dipersentasekan terhadap kelompok kontrol. Hasil: Terdapat perbedaan viabilitas DPSCs yang bermakna

.....Introduction The extract of cumin *Cuminum cyminum* has the potential antibacterial and antifungal activity and it was not toxic for mouse fibroblasts. However, there have been no research investigating the toxicity of cumin extract on Dental Pulp stem Cells DPSCs . Aims To compare viability DPSCs of *Cuminum cyminum* extract 0,1 mg ml, 0,4 mg ml, 0,7 mg ml, and 1.0 mg ml . Methods Cell viability was analyzed using MTT Assay by calculating absorbance value using microplate reader, with optical density OD as the final result. Results There were significant differences statistically in viability on DPSCs p