

Efek larutan ekstrak biji anggur terhadap kekuatan lentur dentin saluran akar = Effect of grape seed extract solution on root canal dentin flexural strength

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Abstrak

ABSTRAK

Latar Belakang : Ekstrak Biji Anggur EBA mengandung proantosianidin sebagai pengikat silang kolagen yang menentukan sifat mekanik dentin.

Tujuan : Menganalisis pengaruh larutan EBA terhadap kekuatan lentur dentin saluran akar.

Metode : 90 lempeng dentin saluran akar dibagi menjadi 3 kelompok direndam larutan EBA, NaOCl dan aquabides. Dilakukan uji kekuatan lentur dentin dengan Universal Testing Machine.

Hasil : Kekuatan lentur tertinggi pada kelompok larutan EBA, terendah pada kelompok NaOCl. Tidak terdapat perbedaan bermakna antara kelompok larutan EBA dan aquabides ($p > 0.05$).

Kesimpulan : Nilai kekuatan lentur dentin saluran akar pada larutan EBA lebih tinggi dibandingkan dengan larutan NaOCl.

ABSTRACT

Background : Grape Seed Extract (GSE) contains proanthocyanidin as collagen crosslinking which determines the mechanical properties of dentin.

Objective: To analyze the effect of the GSE solution to the flexural strength of root canal dentin.

Methods : 90 root canal dentin slabs were divided into 3 groups, immersed in GSE solution , NaOCl and aquabidest . Dentin flexural strength test measured by Universal Testing Machine.

Results : The highest flexural strength was found in GSE solution group , the lowest in the group of NaOCl . There were no significant differences between GSE groups and aquabidest group ($p > 0.05$).

Conclusion : The value of flexural strength of root canal dentin found in GSE solution group was higher when compared with NaOCl solution.