

Daya antibakteri fotodinamik dengan biru toluidin terhadap enterococcus faecalis dalam biofilm = Antibacterial activity of photodynamic using toluidin blue against enterococcus faecalis biofilms

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Abstrak

[Latar Belakang: Enterococcus faecalis merupakan penyebab infeksi persisten pasca perawatan saluran akar. Terdapat bahan disinfeksi baru yang efektif terhadap biofilm E.faecalis.

Tujuan: Menganalisis daya antibakteri fotodinamik dengan biru toluidin terhadap biofilm Enterococcus faecalis

Metode: Fotodinamik dengan biru toluidin, NaOCl 2,5%, CHX dan kontrol dipaparkan pada biofilm E.faecalis. Jumlah E.faecalis yang hidup dilihat dengan menggunakan Real-time PCR Hasil: Terdapat perbedaan bermakna diantara bahan uji dibandingkan dengan kontrol. Tidak terdapat perbedaan bermakna antara biru toluidin dengan sinar dan NaOCl 2,5% Kesimpulan: Fotodinamik dengan biru toluidin mempunyai daya antibakteri terhadap E.faecalis. , Background: E.faecalis is known as a persistent bacteria in root canal after endodontic treatment. A new antibacterial agent was introduced to be effective againts E.faecalis biofilm. Aim. To analyze antibacterial efficacy of photodynamic using toluidine blue againts E. faecalis biofilm. Methods. Photodynamic using toluidine blue, naocl 2.5%, chx and control groups were exposed to e faecalis biofilm. The number of viable E. faecalis was determined by using real-time PCR. Result. There were significant differences statistically between all antibacterial groups tested and control groups. But there was no significant differences statistically between photodynamic group and NaOCl 2,5%, CHX 2% group. Conclusion. Photodynamic using toluidine blue was effective againts E. faecalis biofilm.]