

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.

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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.