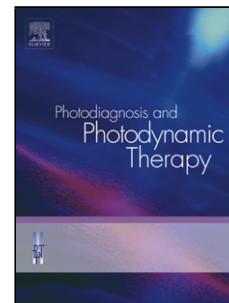


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Does supplemental photodynamic therapy optimize the disinfection of bacteria and endotoxins in one-visit and two-visit root canal therapy? a randomized clinical trial

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Highlights

- Disinfection of the root canals is one of the most important step in root canal treatment.
- PDT the photodynamic therapy optimized the disinfection of bacteria from root canals in one-visit but not for two visit treatment modality with the accomplishment of calcium hydroxide medication.

Abstract

Does supplemental photodynamic therapy optimize the disinfection of bacteria and endotoxins in one-visit and two-visit root canal therapy? A randomized clinical trial.

Aim: to evaluate the effectiveness of supplemental photodynamic therapy (PDT) in optimizing the removal of bacteria and endotoxins from primarily infected root canals after one-visit and two-visit treatments.

Methodology: Twenty-four primarily infected root canals with apical periodontitis were selected and randomly divided into one-visit (n=12) and two-visit treatment groups (n=12). Chemo-mechanical preparation (CMP) was performed by using the single-file reciprocating technique + 2.5% NaOCL and a final rinse with 17% EDTA. The photosensitizer agent

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