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Evaluation of the Antibacterial efficacy of Allium Sativum Gel as Intracanal Medicament Versus Calcium Hydroxide Paste Against Enterococcas faccalis in Single Rooted Teeth (A Comparative In-Vitro Study)

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Protocol status: In development
We are still developing and optimizing this protocol

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Abstract

Objectives
The aim of this study is to evaluate the antimicrobial efficiency of garlic extract as an intracanal medicament in comparison to calcium hydroxide paste against Enterococcus faecalis viability developed in single rooted root canals by bacterial DNA extraction method using real time PCR.
Research Question
Will application of intracanal medicament of garlic extract differ from calcium hydroxide paste in reduction of E. Faecalis count when used in single rooted teeth?
Null Hypothesis
There is no difference between the antimicrobial efficacy of garlic extract and calcium hydroxide paste in reduction of E. faecalis count in single rooted teeth.
PICO elements
P: Population
Single rooted human freshly extracted teeth with single canals.
I: Intervention
Garlic extract used as intracanal medication.
C: Control
Calcium hydroxide paste used as intracanal medication.
O: Outcome
Bacterial load reduction determined by using real time PCR technique after root canal preparation.
Time of sampling
Sample 1 (S1): after inoculation of root
canals& before instrumentation.
Sample 2 (S2): after instrumentation.
Sample 3 (S3): after intracanal medicament placement for 1 week.
Sample 4 (S4): after intracanal medicament placement for 2 weeks.

Attachments

PDF

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