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

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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



A2 1ry sign Rania MS...

465KB

