Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of the effect of Chlorhexidine2% gel and Calcium hydroxide on bacterial contamination of post space

Protocol summary

Summary

the purpose of this study is to compare the effect of Calcium hydroxide and Chlorhexidine 2% gel on post space bacterial contamination.this is a randomized double blinded study with control group but no placebo.inclusion criteria:Patients who don’t receive antibiotics during the last 4 weeks;non vital single teeth which need root canal treatment and post;no systemic disease;no periapical lesion. exclusion criteria:Pain or perforation during post space preparation; loss of coronal temporary restoration during 14 days follow up. calcium hydroxide and Chlorhexidine 2% gel are used as intervention for 2 weeks. change in colony forming units counts from the root canal is the consequence of this study.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017041232777N1**
Registration date: **2017-04-12, 1396/01/23**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2017-04-12, 1396/01/23

Registrant information

Name
Morteza Moattari
Name of organization / entity
Islamic Azad University, Tehran Dental Branch
Country
Iran (Islamic Republic of)
Phone
+98 21 2256 4571
Email address
mehson25@gmail.com

Recruitment status

Recruitment complete

Funding source

Islamic Azad University, Tehran Dental Branch

Expected recruitment start date

2017-05-05, 1396/02/15

Expected recruitment end date

2017-06-10, 1396/03/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of the effect of Chlorhexidine2% gel and Calcium hydroxide on bacterial contamination of post space

Public title

Comparison of the effect of Chlorhexidine and Calcium hydroxide

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:Patients who don’t receive antibiotics during the last 4 weeks;non vital single root teeth which need root canal treatment and post;no systemic disease;no periapical lesion. Exclusion criteria:Pain or perforation during post space preparation; loss of coronal temporary restoration during 14 days follow up.

Age

From **15 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **45**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Islamic Azad University, Tehran Dental Branch

Street address

No 4, Neyestan10th, Pasdaran st, Tehran

City

Tehran

Postal code

1946853314

Approval date

2017-01-28, 1395/11/09

Ethics committee reference number

IR.IAU.DENTAL.REC.1395,21

Health conditions studied

1

Description of health condition studied

Dental infection

ICD-10 code

B99

ICD-10 code description

Other and unspecified infectious diseases

Primary outcomes

1

Description

bacteria count of Streptococcus and E.feacalis

Timepoint

2 weeks after beginnig of the intervention

Method of measurement

CFU

Secondary outcomes

1

Description

other bacteria species

Timepoint

2 weeks after beginning of the intervention

Method of measurement

CFU

Intervention groups

1

Description

Chlorhexidine2% gel:for 2 weeks,intracanal injection

Category

Treatment - Drugs

2

Description

Calcium hydroxide powder: mixed with serum with creamy consistency,for 2 weeks,insertion into the canal

Category

Treatment - Drugs

3

Description

Control group:no action

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Islamic Azad University, Tehran Dental Branch

Full name of responsible person

Morteza Moattari(Resident of Endodontics)

Street address

No 4, Neyestan10th, Pasdaran st, Tehran

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University, Tehran Dental Branch

Full name of responsible person

Arash Azizi

Street address

No 4, Neyestan10th, Pasdaran st, Tehran

City

Tehran

Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Islamic Azad University, Tehran Dental Branch
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
Islamic Azad University, Tehran Dental Branch
Full name of responsible person
Morteza Moattari
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Resident of Endodontics
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty