Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the impact of pulpotomy treatment on the response to electrical pulp tester in tooth with irreversible pulpitis

Protocol summary

Summary

Objective : The aim of this experimental study is to evaluate the pulpal response to electrical pulp tester (EPT)before and after pulpotomy. Design: 60 molar and premolar teeth with irreversible pulpitis referred to the endodontic department of shahid sadoughi university of medical sciences and aged between20 to 60 yrs, are included in this survey. Setting and conduct: Before anesthesia ,teeth are tested with EPT and the responses are recorded. Major Inclusion and Exclusion criteria: Inclusion criteria: molar or premolar teeth; age between 20 to 60 yrs; absence of systemic diseases; lack of analgesic consumption 48h before the tests; history of irreversible pulpitis and spontaneous pain; lack of tenderness to percussion; lack of any other accomplished vitality tests; presence of coronal pulp and absence of excessive tooth destruction; normal apex Exclusion criteria: Moderate to severe periodontitis; non restorable teeth; lack of bleeding after access cavity preparation; systemic disease; coronal leakage; consumption of narcotic drugs; consumption of analgesics Intervention: Emergency pulpotomy treatment are accomplished. 2 to 5 days after pulpotomy, the responses to EPT are recorded again and root canal treatment was completed. Main outcome measures variables: Tooth response to the electrical pulp tester

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015031821507N1**
Registration date: **2015-05-26, 1394/03/05**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2015-05-26, 1394/03/05

Registrant information

Name
Maryam Kazemipoor
Name of organization / entity
Dental school
Country
Iran (Islamic Republic of)
Phone
+98 35 3625 5881
Email address
m.kazemipoor@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source
Shahid Sadoughi University of Medical Sciences, Yazd

Expected recruitment start date
2014-09-23, 1393/07/01
Expected recruitment end date
2014-12-22, 1393/10/01
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title

Evaluation of the impact of pulpotomy treatment on the response to electrical pulp tester in tooth with irreversible pulpitis

Public title

Evaluation of tooth neurons' response to electrical pulp tester before and after pulpotomy

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria: molar or premolar teeth; age between

20 to 60 yrs; absence of systemic diseases; lack of analgesic consumption 48h before the tests; history of irreversible pulpitis and spontaneous pain; lack of tenderness to percussion; lack of any other accomplished vitality tests; presence of coronal pulp and absence of excessive tooth destruction; normal apex Exclusion criteria: Moderate to severe periodontitis; non restorable teeth; lack of bleeding after access cavity preparation; systemic disease; coronal leakage; consumption of narcotic drugs; consumption of analgesics

Age
From **20 years** old to **60 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **60**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Shahid Sadoughi University of Medical Sciences, Yazd

Street address
Shahid Sadoughi Blv, Shahid Sadoughi University of Medical Science,Yazd

City
Yazd

Postal code

Approval date
2014-07-13, 1393/04/22

Ethics committee reference number
17/1/77713/پ

Health conditions studied

1

Description of health condition studied
Tooth with irreversible pulpitis

ICD-10 code
k04.0

ICD-10 code description
Pulpitis

Primary outcomes

1

Description
Response to EPT

Timepoint
2 to 5 days

Method of measurement
EPT apparatus

Secondary outcomes

1

Description
-

Timepoint
-

Method of measurement
-

Intervention groups

1

Description
In the first session after EPT readings pulpotomy treatment are accomplished and in the second session after EPT readings root canal treatment were completed.

Category
Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Dental school, Shahid Sadoughi University of Medical Sciences, Yazd

Full name of responsible person
Maryam Kazemipoor

Street address
Dental school, Dahe Fajr Boulevard, Emam Street, Yazd

City
Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor For reaserch,Shahid Sadoughi

University of Medical Scieces

Full name of responsible person

Mrs Mahdieh Khezri

Street address

Dental school, Dahe Fajr Blv, Emam str, Yazd

City

Yazd

Grant name

-

Grant code / Reference number

-

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice Chancellor For reaserch,Shahid Sadoughi University of Medical Scieces

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

Shahid Sadoughi University of Medical Sciences, Yazd

Full name of responsible person

Maryam Kazemipoor

Position

Assisstant professor

Other areas of specialty/work

Street address

Dental school, Dahe Fajr Boulevard, Emam Street, Yazd

City

Yazd

Postal code

Phone

+98 35 3822 9076

Fax

Email

dr.kazemipoor@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Shahid University of Medical Sciences

Full name of responsible person

Maryam Kazemipoor

Position

Assisstant professor

Other areas of specialty/work

Street address

Dental school, Dahe Fajr Boulevard, Emam Street, Yazd

City

Yazd

Postal code

Phone

+98 35 3822 9076

Fax

Email

dr.kazemipoor@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Full name of responsible person

Saman Mahmoodi

Position

Graduate student of dentistry

Other areas of specialty/work

Street address

Dental school, Dahe Fajr Boulevard, Emam Street, Yazd

City

Yazd

Postal code

Phone

00

Fax

Email

Web page address

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