

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

05 Jul 2026

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

#### Protocol summary

2015-05-26, 1394/03/05

#### 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 between 20 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

#### 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

#### 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

#### 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/ب

## 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 Kazemipour

##### 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 Sciences  
**Full name of responsible person**  
Mrs Mahdiah 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 Sciences  
**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**  
Assistant 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**  
Assistant 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*