

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparative evaluation of postoperative pain in molar teeth with symptomatic irreversible pulpitis under going pulpotomy procedure after using MTA and Dexamethasone as pulp dressing agents.

Protocol summary

Summary

This study designed to evaluate post operative pain in patients who need an urgent procedure for pain relief related to a symptomatic/vital molar tooth. after routine examination, voluntaries who have atleast one painful molar tooth will be included the trial and patients with other pulp statuses except irreversible pulpitis will be excluded. 72 patients randomly divided in 3 groups; after preparation a standard access cavity in painful tooth, one of the material(MTA or Dexamethasone) will be choosed randomly or a small dry cotton pellet also will be used as placebo or control group. a Visual Analog pain Scale(VAS) will be used for evaluation of post-treatment pain in a 7 days period.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013030512708N1**

Registration date: **2013-06-03, 1392/03/13**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-06-03, 1392/03/13

Registrant information

Name

Hassan Shahabinejad

Name of organization / entity

Kerman University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 34 1211 9028

Email address

shahabi1386@gmail.com

Recruitment status

Recruitment complete

Funding source

Kerman University of Medical Sciences

Expected recruitment start date

2013-02-01, 1391/11/13

Expected recruitment end date

2013-06-01, 1392/03/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative evaluation of postoperative pain in molar teeth with symptomatic irreversible pulpitis under going pulpotomy procedure after using MTA and Dexamethasone as pulp dressing agents.

Public title

Effect of MTA and Dexamethasone as pulp dressing agents on post-pulpotomy pain.

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion Criteria: painful and vital molar teeth; normal periapical status exclusion Criteria: previously endodontic treatment on painful tooth; usage of antibiotics or analgesics befor procedure; pain in percussion or palpation; pulp necrosis after access cavity preparation

Age

From **18 years** old

Gender

Both

Phase
1

Groups that have been masked
No information

Sample size
Target sample size: 72

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Kerman University of Medical Sciences

Street address

Jomhuri Eslami BOL.

City

Kerman

Postal code

Approval date

2012-01-25, 1390/11/05

Ethics committee reference number

k/90/321

Health conditions studied

1

Description of health condition studied

symptomatic irreversible pulpitis

ICD-10 code

k04.0

ICD-10 code description

pulpitis(irreversible)

Primary outcomes

1

Description

post pulpotomy pain

Timepoint

6-12-18-24 hours and 2-3-4-5-6-7 days after treatment

Method of measurement

Visual Analog Pain Scale

Secondary outcomes

1

Description

number of Analgesics

Timepoint

7 days period

Method of measurement

number of analgesics will be used by patient for pain relief

Intervention groups

1

Description

intervention group (A) : a cotton pellet soaked with diluted MTA will be used as pulp dressing agent.

Category

Treatment - Other

2

Description

intervention group(B) : a small cotton pellet soaked with Dexamethasone will be used as pulp dressing agent.

Category

Treatment - Other

3

Description

control group: a small dry cotton pellet will be used as pulp dressing agent.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Endodontics Department Of Kerman Dental School

Full name of responsible person

Dr. Hassan Shahabinejad

Street address

Kerman Dental School, Shafa street

City

Kerman

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Oral Diseases Research CenterOf Kerman Dental

School
Full name of responsible person
 Dr.Arash Shahravan
Street address
 Oral Diseases Research Center, Kovsar BOL.
City
 Kerman
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Oral Diseases Research CenterOf Kerman Dental School
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
 Kerman Dental School
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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