

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Evaluation of the effect of local dexamethasone injection to reduce inter appointment pain in endodontics treatment

#### Protocol summary

##### Summary

The aim of this study was to determine the effect of local Dexamethasone injection to reduce inter appointment pain in endodontic treatment. Sixty patient referred to endodontic department of dental faculty of Hamadan University with need to root canal therapy in posterior teeth randomly divided to two groups. At the end of first treatment session, in group one, 2cc of dexamethasone (Alborz Co) and in group two 2cc of ringer serum were injected in buccal vestibule of teeth. The post operative pain in two groups were measured and compared.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138805062252N1**  
Registration date: **2010-01-21, 1388/11/01**  
Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2010-01-21, 1388/11/01

##### Registrant information

##### Name

Seyed Mohsen Jalalzadeh

##### Name of organization / entity

Assistant Professor

##### Country

Iran (Islamic Republic of)

##### Phone

+98 81 1835 1719

##### Email address

jalalzadeh@umsha.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice-chancellor for Education, Hamadan University of Medical Sciences and Health Services

##### Expected recruitment start date

2000-09-22, 1379/07/01

##### Expected recruitment end date

2001-03-19, 1379/12/29

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluation of the effect of local dexamethasone injection to reduce inter appointment pain in endodontics treatment

##### Public title

Evaluation of the effect of local dexamethasone injection to reduce inter appointment pain in endodontics treatment

##### Purpose

Supportive

##### Inclusion/Exclusion criteria

Inclusion factors: - Need to endodontic treatment in posterior teeth - Without any systemic disease Exclusion criteria: - Use of any systemic drugs - Pregnancy - Need to prophylactic use of antibiotics

##### Age

From **18 years** old to **60 years** old

##### Gender

Both

##### Phase

2-3

##### Groups that have been masked

*No information*

##### Sample size

Target sample size: **60**

## 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

Vice-chancellor for Education, Hamadan University of Medical Sciences and Health Services

##### Street address

Dental Faculty, Shahid Fahmideh Blvd.

##### City

Hamadan

##### Postal code

##### Approval date

2009-09-12, 1388/06/21

##### Ethics committee reference number

16/71/2/103125

## Health conditions studied

### 1

#### Description of health condition studied

post endodontic pain

#### ICD-10 code

K00, K14

#### ICD-10 code description

Diseases of oral cavity, salivary glands and jaws

## Primary outcomes

### 1

#### Description

post treatment pain

#### Timepoint

before treatment and 4, 8, 24, 48 hours after treatment

#### Method of measurement

visual analogue scale (VAS) model

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

Injection of one dose of 2 mg dexamethasone in buccal Vestibul of root canal treated teeth at the end of the first session

#### Category

Treatment - Drugs

### 2

#### Description

Injection of one dose of 2 mg ringer serum in buccal Vestibul of root canal treated teeth at the end of the first session

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Endodontic Departement of Dental Faculty of Hamadan University of Medical Sciences and Health Servic

##### Full name of responsible person

Seyed Mohsen Jalalzadeh

##### Street address

Endodontic Department of Dental Faculty, Blv Shahid Fahmideh, Hamadan

##### City

Hamadan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Endodontic Departement of Dental Faculty of Hamadan University of Medical Sciences and Health Servic

##### Full name of responsible person

Dr. Zandi

##### Street address

Dental Faculty, Blv. Shahid Fahmideh, Hamadan

##### City

Hamadan

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Endodontic Departement of Dental Faculty of Hamadan University of Medical Sciences and Health Servic

##### 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**

Endodontic Department of Dental Faculty

**Full name of responsible person**

Seyed Mohsen Jalalzadeh

**Position**

Assistant Professor

**Other areas of specialty/work****Street address**

Dental Faculty, Shahid Fahmideh Blvd.

**City**

Hamadan

**Postal code****Phone**

+98 81 1835 4016

**Fax****Email**

jalalzadeh@umsha.ac.ir

**Web page address****Postal code****Phone**

+98 81 1835 4016

**Fax****Email**

jalalzadeh@umsha.ac.ir

**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Dental Faculty

**Full name of responsible person**

Seyed Mohsen Jalalzadeh

**Position**

Assistant Professor

**Other areas of specialty/work****Street address**

Endodontic Department of Dental Faculty, Blv Shahid Fahmideh, Hamadan, Iran

**City**

Hamadan

**Postal code****Phone**

+98 81 1835 1719

**Fax**

+98 81 1835 4220

**Email**

jalalzadeh@umsha.ac.ir

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Hamadan University of Medical Sciences

**Full name of responsible person**

Seyed Mohsen Jalalzadeh

**Position**

Assistant Professore

**Other areas of specialty/work****Street address**

Endodontic Department of Hamadan Dental Faculty, Shahid Fahmideh Blvd.

**City**

Hamadan

**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*