

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

11 Sep 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 Faqulty of  
Hamadan University of Medical Sciences and Health  
Servic

**Full name of responsible person**

Seyed Mohsen Jalalzadeh

**Street address**

Endodontic Department of Dental Faqulty, Blv Shahid  
Fahmideh, Hamadan

**City**

Hamadan

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Endodontic Departement of Dental Faqulty of  
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**Full name of responsible person**

Dr. Zandi

**Street address**

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**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 Faqulty 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***Postal code****Phone**

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

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**Position**

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

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**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*