

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**

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Dental Faculty

Full name of responsible person

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Hamadan University of Medical Sciences

Full name of responsible person

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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