Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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
Assisstant Professor
Country
Iran (Islamic Republic of)
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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 Hamadan University of Medical Sciences and Health Servic
Full name of responsible person
Dr. Zandi
Street address
Dental Faqulty, 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 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

Person responsible for general inquiries

Contact
Name of organization / entity
Endodontic Departement of Dental Faqulty
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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