

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jul 2026

Effect of dexamethasone as a supplemental buccal infiltration of the posterior teeth after an inferior alveolar nerve block (lidocaine 2% with 0.00001 epinephrine), on during and post treatment pain, in patients with symptomatic irreversible pulpitis

Protocol summary

Summary

aim: Effect of dexamethasone as a supplemental buccal infiltration of the posterior teeth after an inferior alveolar nerve block, on during and post treatment pain, in patients with symptomatic irreversible pulpitis, Study design: Randomized, double-blind, placebo-controlled main criteria for inclusion: a lack of medication to work, the tooth in response to cold and electrical tests have long-term positive response, radiographic signs of any the presence of radiolucent not have, exclusion criteria: pregnancy or lactation, age less than 18 years, having any kind of infectious disease or endocrine disease, allergy to dexamethasone sample size: 60 patients studied interventions: dexamethasone, normal saline, The main outcome variable: reducing pain and discomfort

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015103124798N1**
Registration date: **2016-05-08, 1395/02/19**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-05-08, 1395/02/19

Registrant information

Name

Sina Shirkavand

Name of organization / entity

Islamic Azad University of Isfahan (Khorasgan), Dental

School

Country

Iran (Islamic Republic of)

Phone

+98 31 3656 2350

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Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2015-10-02, 1394/07/10

Expected recruitment end date

2016-02-20, 1394/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of dexamethasone as a supplemental buccal infiltration of the posterior teeth after an inferior alveolar nerve block (lidocaine 2% with 0.00001 epinephrine), on during and post treatment pain, in patients with symptomatic irreversible pulpitis

Public title

Effect of dexamethasone as a supplemental buccal infiltration of the posterior teeth after an inferior alveolar nerve block (lidocaine 2% with 0.00001 epinephrine), on during and post treatment pain, in patients with symptomatic irreversible pulpitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: lack of medication to work. Tooth in response to cold and electrical tests have long-term positive response and radiographic signs of the presence of radiolucent not have any. During vital pulp coronal access cavity preparation should be there. Exclusion criteria: pregnancy or lactation, age less than 18 years, having any kind of infectious disease or endocrine disease, moderate to advanced periodontal disease, tooth non-living, allergy to dexamethasone

Age

From **74 years** old to **43 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double 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 Islamic Azad University of Isfahan (Khorasgan), Dental School

Street address

Islamic Azad University of Isfahan (Khorasgan), Jay Street

City

Isfahan

Postal code

Approval date

2015-12-26, 1394/10/05

Ethics committee reference number

IR.mui.rec.1395.4.13

Health conditions studied

1

Description of health condition studied

toothache

ICD-10 code

G50-10

ICD-10 code description

atypical facial pain

Primary outcomes

1

Description

pain

Timepoint

4, 6, 12, 24, 48 hours

Method of measurement

visual analog scale (V.A.S)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention: dexamethasone(daroupakhsh co), 1 cc per injection, local injection

Category

Treatment - Drugs

2

Description

control: Normal saline (Shahid Ghazi Serum Company)

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Islamic Azad University of Isfahan (Khorasgan), Dental School

Full name of responsible person

Sina Shirkavand

Street address

City

Isfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Islamic Azad University Isfahan (Khorasgan)

Full name of responsible person

Sina Shirkavand

Street address

Islamic Azad University of Isfahan (Khorasgan), Dental School
City
 Isfahan
Grant name
 -
Grant code / Reference number
 -
Is the source of funding the same sponsor organization/entity?
 Yes
Title of funding source
 Vice Chancellor for research of Islamic Azad University Isfahan (Khorasgan)
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
 Islamic Azad University of Isfahan (Khorasgan), Dental School
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Web page address

Person responsible for updating data

Contact

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