Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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)
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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 committe 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
Ṡina 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

Full name of responsible person

Sina Shirkavand

Position

endodontics/phd

Other areas of specialty/work

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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