

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Comparision The effect of premedication with Acifen and Dexamethasone on the success of inferior alveolar nerve block for first and second molar teeth with symptomatic irreversible pulpitis

Protocol summary

Summary

Aim of this study is comparision the effect of premedication with Acifen and Dexamethasone on the success of inferior alveolar nerve block for first and second molar teeth of mandible with symptomatic irreversible pulpitis. Inclusion criteria: patient with first or second molar teeth of mandible with symptomatic irreversible pulpitis, non systematic disease, non allergic patient to Lidocaine with 1:80000 Epinephrine, non allergic patient to NSAIDs, non allergic patient to Caffeine, non periapical radiolucency, non analgesic drug consumption 12 hours before treatment, non tooth with full crown Exclusion criteria: non numles of lower lip, partial necrose of tooth In this randomize double blind clinical trial study population are patients will be refer to General Endodontic Department of Dentistry School of Qazvin University of Medical Science of Iran. The patients will be divide into 3 groups and random assignment. Patients will receive randomly one identical capsules contain .5 mg demamethasone or acifen or placebo 45 minutes before administration of a conventional IAN block. Access will begin 15 minutes after complation of IAN block for patient with lower lip numbness. success will define as no or mild pain according to visual analogue scale recordings on access cavity Sample size: 150

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014082618941N1**

Registration date: **2014-10-25, 1393/08/03**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-10-25, 1393/08/03

Registrant information

Name

Ehsan Kamani

Name of organization / entity

University

Country

Iran (Islamic Republic of)

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Email address

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Recruitment status

Recruitment complete

Funding source

General Endodontic Department of Dentistry School of Qazvin University Medical Science of Iran

Expected recruitment start date

2014-11-01, 1393/08/10

Expected recruitment end date

2014-12-31, 1393/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparision The effect of premedication with Acifen and Dexamethasone on the success of inferior alveolar nerve block for first and second molar teeth with symptomatic irreversible pulpitis

Public title

Comparision The effect of premedication with Acifen and

Dexamethasone on the success of mandible nerve block in first and second molar teeth of mandible with symptomatic irreversible pulpitis

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: patient with first or second molar teeth of mandible with symptomatic irreversible pulpitis, non systematic disease, non allergic patient to Lidocaine with 1:80000 Epinephrine, non allergic patient to NSAIDs, non allergic patient to Caffeine, non periapical radiolucency, non analgesic drug consumption 12 hours before treatment, non tooth with full crown Exclusion criteria: non numles of lower lip, partial necrose of tooth

Age

From **15 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **150**

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

Dentistry School of Qazvin University of Medical Science

Street address

University of Medical Science, Shahid Bahonar st

City

Qazvin

Postal code

Approval date

2014-09-15, 1393/06/24

Ethics committee reference number

28/20/9176

Health conditions studied

1

Description of health condition studied

Irrevesible pulpitis

ICD-10 code

K04.0

ICD-10 code description

Pulpitis

Primary outcomes

1

Description

Pain

Timepoint

45 minutse before access cavity preparation and during access cavity preparation

Method of measurement

visual analog scale

Secondary outcomes

empty

Intervention groups

1

Description

Dexamethasone group: .5 mg oral dexamethasone 30 minute before injection

Category

Treatment - Drugs

2

Description

Acifen group: Acifen capsul contain 200 mg Iboprofen , 325 mg Acetaminophen, 40mg cofein 30 minute befor injection

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

General Endodontics Department of Dentistry School of Qazvin University Medical Science

Full name of responsible person

Ehsan kamani

Street address

Bahonar St, Qazvin University of Medical Scinces

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

Fateme Sefidi

Street address

bahonar st University of Medical Sciences, Dentistry School

City

qazvin

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Qazvin University of Medical Sciences

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**

University of Medical Science

Full name of responsible person

فاطمه سفیدی

Position

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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