Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Comparing the effect of supplementary buccal and/or lingual articaine infiltration on inferior alveolar nerve block success rate in symptomatic irreversible pulpitis.

Protocol summary

Summary

 Objectives,the aim of this study will comparing the effect of supplementary buccal and/or lingual articaine infiltration after inferior alveolar nerve block success rate in symptomatic irriversible pulpitis (2) Design (study groups and phase, sample size, blinding, randomization, single or multi center: randomized clinical trial,double blind,160 samples,single center (3) Setting and conduct:these samples will randomly divided to 4 groups(3 intervention, one control). (4) Participants including major eligibility criteria:healthy patients between 18 to 65 years old,male or female have one molar with irriversible pulpitis included in this study(totally 160 person). (5) Intervention:endodontic access preparation will initiate after injections and pain during treatment will record. (6) main outcome measures (primary and secondary outcome variables): intensity of pain(0-170)will record.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015112715782N3**
Registration date: **2016-04-26, 1395/02/07**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-04-26, 1395/02/07

Registrant information

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Recruitment status

Recruitment complete

Funding source

Investigator.

Expected recruitment start date

2015-11-22, 1394/09/01

Expected recruitment end date

2016-01-21, 1394/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of supplementary buccal and/or lingual articaine infiltration on inferior alveolar nerve block success rate in symptomatic irreversible pulpitis.

Public title

Comparing the effect of supplementary injection on inferior alveolar nerve block success rate

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:patients between 18 to 65 years old; without any systematic disease or drug using; no allergic reaction to the anesthetic; no smoking; not using analgesic 24 hours ago; no pregnant or breastfeeding and they must have one molar with irreversible pulpitis.

Exclusion criteria: pulp necrosis; periapical radioluscency.

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **160**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Table of random numbers will use for randomization.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Tehran Medical Science Branch,Islamic Azad University

Street address

No.4,Neyestan 10 Alley,Pasdaran Street

City

Tehran

Postal code

19585/175

Approval date

2015-06-14, 1394/03/24

Ethics committee reference number

AZadUMS-94/P/166/D

Health conditions studied

1

Description of health condition studied

irriversible pulpitis

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

pain

Timepoint

15 minute after injection

Method of measurement

Heft Parker visual analog scale

Secondary outcomes

empty

Intervention groups

1

Description

intervention group 1: block injection with articaine buccal infiltration

Category

Treatment - Other

2

Description

intervention group 2: block injection with articaine lingual infiltration

Category

Treatment - Other

3

Description

intervention group 3: block injection with articaine buccal and lingual infiltration

Category

Treatment - Other

4

Description

control group: block injectin without any supplementary injectoin

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Tehran Medical Science branch,Islamic Azad University

Full name of responsible person

Peyman Mervarzfar

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Sponsors / Funding sources

1

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Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
investigator
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
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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