Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 2026

The effect of Acupuncture on the success of Inferior Alveolar Nerve block anesthesia for teeth with Irreversible Pulpitis

Protocol summary

Summary

The purpose is to evaluate the effect of acupuncture on the success of Inferior alveolar nerve block injection for teeth with irreversible pulpitis in a placebo controlled ,triple blind randomized clinical trials study. 40 Patients with spontaneous or nightly pain in first or second mandibular molars that rate their pain 54 mm or more on VAS, randomly are divided into two groups (case or control) of 20 patient each. 15 minutes after acupuncture (in case group) or schema acupuncture (in control group), Inferior alveolar nerve block injection is administered by an endodontist. In case of no lip numbness, the patient will be excluded from the study. 15 minutes later, access cavity preparation is initiated and if there is pain, supplemental anaesthesia will be administered and recorded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013121615814N1**

Registration date: **2014-06-04, 1393/03/14**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-06-04, 1393/03/14

Registrant information

Name

Shahrzad Jalali

Name of organization / entity

Qazvin University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Email address

jalali.shahrzad@gmail.com

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Qazvin University of Medical Sciences

Expected recruitment start date

2014-05-31, 1393/03/10

Expected recruitment end date

2014-08-01, 1393/05/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Acupuncture on the success of Inferior Alveolar Nerve block anesthesia for teeth with Irreversible Pulpitis

Public title

The effect of Acupuncture on dental anaesthesia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: Complete healthy or controlled mild systemic disorders(ASA I, II); Patients with spontaneous or nightly pain in first or second mandibular molars that rate their pain 54 mm or more on VAS. Exclusion Criteria: Patients with contraindication or sensitivity to lidocaine or epinephrine; Taking medication for chronic pain; History of acupuncture; Coagulation disorders; Lactation; Pregnancy; Using any type of analgesic medication in the preceding 6 hours before the treatment; Teeth with extensive caries; Casting coronal restoration; Advanced periodontal disease.

Age
No age limit
Gender
Both

Phase
2-3
Groups that have been masked
No information
Sample size
Target sample size: **40**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Triple 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 Qazvin University of Medical Sciences
Street address
Shahid Bahonar Boulevard
City
Qazvin
Postal code
3418-5745
Approval date
2014-05-12, 1393/02/22
Ethics committee reference number
28/20/8739

Health conditions studied

1

Description of health condition studied
Irreversible Pulpitis
ICD-10 code
k04.0
ICD-10 code description
Pulpitis

Primary outcomes

1

Description
The need for supplemental anaesthesia
Timepoint
30 to 45 minutes after intervention
Method of measurement
Administering or not

Secondary outcomes

1

Description
Pain
Timepoint
Before intervention and 30 to 45 minutes after intervention
Method of measurement
Visual Analogue Scale

Intervention groups

1

Description
Intervention group: Acupuncture, needle insertion on Hegu point on the hand
Category
Treatment - Other

2

Description
Control group: Painful stimulation without Acupuncture specific needle insertion
Category
Treatment - Other

Recruitment centers

1

Recruitment center
Name of recruitment center
Qazvin Dental Faculty
Full name of responsible person
Shahrzad Jalali
Street address
Dental Faculty; Shahid Bahonar Boulevard
City
Qazvin

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice chancellor for research, Qazvin University of Medical Sciences
Full name of responsible person
Mehri Mashatan
Street address

Shahid Bahonar Boulevard

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Qazvin

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, 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

Qazvin Univesity of Medical Sciences

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Shahrzad Jalali

Position

Assistant Professor

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Fax

Email

Web page address

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