

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparative Study of pain rate in buccal infiltration with Mepivacaine and Articaine with epinephrine injection in upper premolars region in patients that refer to the surgical department of dental school

Protocol summary

Summary

This study will be done with aim to comparative study of pain rate in buccal infiltration with Mepivacaine and Articaine with epinephrine injection in upper premolars region. This study is a single blind clinical trial, only the researcher knows which injection is done in what part of the jaw and blinding is for patients. A total of 30 patients that will admitted to the surgical department of dental School of Kermanshah will be selected as samples in available method and will assigned in experimental group of 30 persons. In the experimental group two injections for each person will be done in two-sided (upper right jaw and upper left jaw) and tandem, One injection contain Mepivacaine and one injection contain of Articaine with epinephrine. During the injection and in 5, 15, 30 and 45 seconds, the amount of pain by visual analogue scale on each side will measure and the pain of two sides will compare. Inclusion criteria: lack of sensitivity to inject; lack of sensitivity to Mepivacaine and Articaine; no pregnancy for women Exclusion criteria: Unbearable pain

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016062914333N53**
Registration date: **2016-08-10, 1395/05/20**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-08-10, 1395/05/20

Registrant information

Name

Feizollah Foroughi

Name of organization / entity

kermanshah University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

Expected recruitment start date

2016-08-05, 1395/05/15

Expected recruitment end date

2016-11-05, 1395/08/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative Study of pain rate in buccal infiltration with Mepivacaine and Articaine with epinephrine injection in upper premolars region in patients that refer to the surgical department of dental school

Public title

Comparison of pain rate in buccal infiltration with Mepivacaine and Articaine with epinephrine injection in upper premolars region

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: lack of sensitivity to inject; lack of sensitivity to Mepivacaine and Articaine; No pregnancy for women
Exclusion criteria: Unbearable pain

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomly by tossing coin

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kermanshah University of Medical Sciences

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

City

Kermanshah

Postal code

Approval date

2016-07-13, 1395/04/23

Ethics committee reference number

kums.rec.1395.260

Health conditions studied

1

Description of health condition studied

Acute pain

ICD-10 code

R52.0

ICD-10 code description

Pain, not elsewhere classified

Primary outcomes

1

Description

The intensity of pain

Timepoint

In 5, 15, 30 and 45 seconds during injection

Method of measurement

Based on the visual analogue scale (VAS)

Secondary outcomes

empty

Intervention groups

1

Description

In the experimental group, the intervention will be carried out on the upper right jaw and Mepivacaine will be injected.

Category

Treatment - Drugs

2

Description

In the experimental group, second intervention will be carried out on the upper right jaw without time interval and Articaine with epinephrine will be injected. Then during the injection and in 5, 15, 30 and 45 seconds, the amount of pain by visual analogue scale on each side will be measured and the pain of two sides will be compared.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Dentistry

Full name of responsible person

Marjan Kamali

Street address

Shariati street, above the streets of the Shora, the post office

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences, Kermanshah University

Full name of responsible person

Koroush Hamzehee

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for
Research Affairs, Kermanshah University of Medical
Sciences

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Kermanshah

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 Affairs, Kermanshah
University of Medical Sciences , Kermanshah Univers

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

**Person responsible for scientific
inquiries**

Contact

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Hesamodin Nazari

Position

Ph.D in Oral and Maxillofacial Surgery

Other areas of specialty/work

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Person responsible for updating data

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Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Marjan Kamali

Position

Ph.D Student in General Dentistry

Other areas of specialty/work

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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