

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Aug 2026

Comparison of buccal infiltration by 4% articaine versus inferior alveolar nerve block by 2% lidocaine in mandibular third molar surgery

Protocol summary

Summary

the aim of this study is evaluate buccal infiltration by 4% articaine (epinephrine 1:100000) for mandibular third molar surgery and compare it with inferior alveolar nerve block by 2% lidocaine (epinephrine 1:100000). Methods: the study is a double blinded clinical trial design. all patient will be 17_45 yeras old ,need to third molar surgery IN BOTH SIDE, THE same situation pederson & four point rating scale, coprative and they will be enter to study valantary & knowingly. 35(70 case) patients underwent removal of bilateral lower third molar surgery in 2 seprate appointments. the patients randomly will received mandibular buccal infiltration of 4% articaine 1/100000 or inferior alveolar nerve block of 2% lidocaine 1/100000. onset time, duration of anaesthetic effect, need to re-injectin, pain duraing and after surgery, maximum mouth opening, and complications such as dry socket ,hematoma and nerve injury will recorded and compared between the two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017050933444N4**

Registration date: **2017-07-30, 1396/05/08**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2017-07-30, 1396/05/08

Registrant information

Name

Aida Rashidi

Name of organization / entity

Hormozgan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 917 960 5228

Email address

sarafraz@kish.sharif.edu

Recruitment status

Recruitment complete

Funding source

personal

Expected recruitment start date

2017-06-22, 1396/04/01

Expected recruitment end date

2018-06-22, 1397/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of buccal infiltration by 4% articaine versus inferior alveolar nerve block by 2% lidocaine in mandibular third molar surgery

Public title

Comparison of local anastasia by 4% articaine versus inferior alveolar nerve anastasia by 2% lidocaine in mandibular third molar surgery

Purpose

Supportive

Inclusion/Exclusion criteria

INCUSION CRITERIS: 17_45 yeras old ,need to third molar surgery IN BOTH SIDE, THE same situation pederson & four point rating scale, coprative EXCLUSION: pregnant. infelamation. uncoprative. use NSAID. alergic pationt

Age

No age limit

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: 70

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**

HORMOZGAN university

Street address

chamran blv

City

bandarabbas

Postal code**Approval date**

2017-05-04, 1396/02/14

Ethics committee reference number

Hums.REC.1395.136

Health conditions studied**1****Description of health condition studied**

surgery

ICD-10 code

T81

ICD-10 code description

Complications of procedures, not elsewhere classified

Primary outcomes**1****Description**

time of numb

Timepoint

after injection

Method of measurement

ask

2**Description**

during of numb

Timepoint

after injection & surgery

Method of measurement

ask

3**Description**

measure of injection

Timepoint

after surgery

Method of measurement

carpool

4**Description**

pain

Timepoint

after surgery

Method of measurement

ask

5**Description**

Infection

Timepoint

after surgery

Method of measurement

visit

6**Description**

trismoos

Timepoint

after surgery

Method of measurement

visit

7**Description**

dry socket

Timepoint

after surgery

Method of measurement

visit

Secondary outcomes**1****Description**

pain

Timepoint

after surgery
Method of measurement
questionnaire

Intervention groups

1

Description

randomly,in one part.will be injectionin mandibular
buccal. infiltration of 4% articaine 1/100000

Category

Treatment - Drugs

2

Description

in the other side,will be injection inferior alveolar nerve
block of 2% lidocaine 1/100000

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

personal office

Full name of responsible person

Seifollah hemat

Street address

floor3-Kimiya bulding-Fatemi st

City

Bandar abbas

2

Recruitment center

Name of recruitment center

DENTAL UNIVERSITY OF HORMOZGAN

Full name of responsible person

Street address

City

bandar abbas

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

DENTAL UNIVERSITY OF HORMOZGAN

Full name of responsible person

Seifoallah hemat

Street address

Fatemiye st

City

Bandarabbas

Grant name

Grant code / Reference number

Is the source of funding the same sponsor

organization/entity?

Yes

Title of funding source

DENTAL UNIVERSITY OF HORMOZGAN

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

DENTAL UNIVERSITY OF HORMOZGAN

Full name of responsible person

Aida Rashidi

Position

student

Other areas of specialty/work

Street address

floor 4- hoursan buiding-Golshahr street

City

Bandarabbas

Postal code

Phone

+98 76 3367 6611

Fax

Email

aida_rashidi_1370@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

DENTAL UNIVERSITY OF HORMOZGAN

Full name of responsible person

Seifollah Hemat

Position

Teacher

Other areas of specialty/work

Street address

Dental clinin-Shariati hospytal -Naser blv

City

Bandarabbas

Postal code

Phone

+98 76 3322 5424

Fax

Email

aida_rashidi_1370@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

DENTISTRY university

Full name of responsible person

AIDA RASHIDI

Position

student

Other areas of specialty/work**Street address**

golshahr st

City

Bandarabbas

Postal code**Phone**

00

Fax**Email**

aida_rashidi_1370@yahoo.com

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