Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 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 by4٪ 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 surgry 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

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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 anestasia by 4% articaine versus inferior alveolar nerveanestasia by 2%lidocaine in mandibular third molar surgery

Purpose

Supportive

Inclusion/Exclusion criteria

INCUSION CRITERIS: 17_45 yeras old ,need to third molar surgry 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 &surgury
Method of measurement
ask

3

Description
measure of injection
Timepoint
after surgury
Method of measurement
carpool

4

Description
pain
Timepoint
after surgury
Method of measurement
ask

5

Description
Infection
Timepoint
after surgury
Method of measurement
visit

6

Description
trismoos
Timepoint
after surgury
Method of measurement
visit

7

Description
dry socket
Timepoint
after surgury
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

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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

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Person responsible for scientific inquiries

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student

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00

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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