Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of anti-pain effect of the absorbable scaffold containing slow releasing lidocaine in alveolar socket of surgical extracted impacted third molars

Protocol summary

Summary

This study is a clinical trials. This study was designed to evaluate the effects of anesthetics of this substance and the control of pain and the duration of its effectiveness. The population of this study is all individuals who refer to Tabriz University of Medical Sciences for the treatment of impacted third molar teeth. Examples of this study are two groups that are used in one group of lidocaine as topical anesthetic and in the other group of placebo.Therefore, according to the studies and the corresponding formula, 72 people will be selected.Twenty-four individuals randomly selected for each group of lidocaine in the form of a slow-releasing scaffold, and in the other group with the same title, but without being aware of themselves and the therapist, are used as scaffolds (placebo), and in the other group, these scaffolds are not used, but the patient receives routine treatments (acetagel) after surgery and will only be reported as the control group.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201705063018N3**
Registration date: **2017-11-08, 1396/08/17**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-11-08, 1396/08/17

Registrant information

Name
Ali Hossein Mesgarzadeh
Name of organization / entity
Tabriz university of medical sciences
Country
Iran (Islamic Republic of)
Phone
+98 41 1333 6813
Email address
mesgarzadeha@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2014-12-31, 1393/10/10

Expected recruitment end date

2017-11-21, 1396/08/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of anti-pain effect of the absorbable scaffold containing slow releasing lidocaine in alveolar socket of surgical extracted impacted third molars

Public title

Using of the absorbable scaffold containing slow releasing lidocaine in surgery area.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: third molars teeth surgery in patients with bone impaction. Exclusion criteria: for patients with sinoatrial bluck heart disease and those who have adams stokes syndrom and wolff parkinson white syndrom; those taking the following drugs: quinidine, disopiramid,

procainamide Amiodarone hydrochloride and are treated with caution in these patients: elderly patients; porphyrya; hepatic failure; bradycardia.

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **72**

Randomization (investigator's opinion)

N/A

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

Tabriz Univercity of Medical Sciences

Street address

East Azerbaijan Province, Tabriz, Univesity Main St

City

Tabriz

Postal code

Approval date

2017-02-06, 1395/11/18

Ethics committee reference number

IR.TBZMED.REC.1395.1181

Health conditions studied

1

Description of health condition studied

Impacted teeth

ICD-10 code

K01.1

ICD-10 code description

An impacted tooth is a tooth that has failed to erupt because of obstruction by another tooth.

Primary outcomes

1

Description

Determination and comparison of pain levels in the control and placebo groups of slow-releasing lidocain as scaffolds in the surgical area of the impacted wisdom teeth

Timepoint

Immediately after surgical intervention

Method of measurement

visual analog scale way

Secondary outcomes

1

Description

Determination and comparison of the onset time of pain in the control and placebo groups of the slow-releasing lidocaine as a scaffold in the surgical area of the impacted wisdom teeth.

Timepoint

Immediately after surgical intervention

Method of measurement

In the checklist, the time of the onset of pain and the duration of the pain are asked verbally from the patient and within a few hours the patient's response will be recorded.

Intervention groups

1

Description

In the 24 patients of the intervention group, will used absorbable scaffold of lidocaine in the surgery area.

Category

Treatment - Surgery

2

Description

24 other patients of the placebo group will be usining empty scaffolds without lidocaine.

Category

Placebo

3

Description

In 24 of the control group, post-operative routine analgesic treatments (staggel 500 mg and 400 mg jelly) are used and no other therapeutic intervention will be taken.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center
Faculty of Dentistry
Full name of responsible person
Street address
Tabriz University of Medical Sciences
City
Tabriz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research Vice-chancellor Tabriz Univercity of Medical Sciences
Full name of responsible person
Dr. Mohammadreza Rashidi
Street address
East Azerbaijan Province, Tabriz, Univesity Main St.
City
Tabriz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Research Vice-chancellor Tabriz Univercity 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
Tabriz University of Medical Sciences
Full name of responsible person
Nadiyeh Abdolahyazar
Position
Doctorate of dentistry
Other areas of specialty/work
Street address
West Azarbaijan, Omiyah, Sheikh Tapeh Street, 22nd Street, Building 21
City
Oromiyeh
Postal code
Phone
+98 44 4422 7533
Fax
Email
n.abdolahyazar@yahoo.com
Web page address

Person responsible for scientific inquiries

Contact
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Dr. Ali Hossein Mesgarzadeh
Position
Associate Professor in Oral and Maxillofacial Surgery Department
Other areas of specialty/work
Street address
East Azerbaijan Province, Tabriz, Univesity Main St.
City
Tabriz
Postal code
Phone
+98 41 3335 5965
Fax
Email
mesgarcu@hotmail.com
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Dr. Ali Hossein Mesgarzadeh
Position
Associate Professor in Oral and Maxillofacial Surgery Department
Other areas of specialty/work
Street address
East Azerbaijan Province, Tabriz, Univesity Main St
City
Tabriz
Postal code
Phone
+98 41 3335 5965
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