

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

To investigate the effect of vicryl and vicryl plus sutures on wound situation after lower jaw impacted third molars surgery

Protocol summary

Summary

The Aim is to investigate the effect of Vicryl and Vicryl plus sutures on wound situation after lower jaw impacted third molars surgery upon which to show with choosing proper suture problems will be decreased after surgery. Design: double blind clinical control trial, randomized controlled and split mouth will be done; and the double blind for patients and evaluator has been implemented. Randomization: In each patient, to suture by Vicryl or Vicryl Plus, the Coin tossing has been used to determine which side of the jaw has to be in control (Vicryl) or case (Vicryl Plus) group. All patients who have indication for impacted tooth extraction of mandible in two sides of the jaw, by declaring their agreement to cooperate with this plan, will be examined. Methods: This study will be done on 20 person (40 sample) and each side of patients' mandible will be divided into experimental group (Vicryl plus) and control group (Vicryl); in both experimental and control groups the wisdom tooth anesthetized by surgeon with two (Lidocaine 2%) carpools then the impacted wisdom tooth will be extracted; and after suturing, post-operative instructions will explained to patient orally; and also Gelofen 400 mg PO. every 6 hours will prescribed. To recorde the index of the effect of sutures on pain level with patient coordination after surgery, in different times as 12,24 and 72 hours, patient will called and the pain rate will recorded in numerical range 0 (painless) to 9 (severe pain). One week after operation will be a visit to remove the sutures by surgeon then the situation of the Operation zone will examined clinically with checking and recording the effect of the suture on the indexes of swelling, redness and dehiscence. Inclusion: Patients who have been indication for impacted tooth extraction of mandible in two side with same dormancy and express their consciously tendency to cooperation with this plan. Exclusion: Present of pericoronal acute and chronic inflammation; used tablet except considered tablet; pregnancy, having systematic problems and individuals

who have prohibition for this kind of medicine.

Interventions: One side of patient's mandible will be appointed as experimental group (vicryl plus suture) and the other side will be as control group (vicryl suture).

Main variables are the rate of pain beginning, pain rate every 12,24 and 72 hours after surgery, the number of used tablets and redness, swelling and dehiscence level .

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015092424167N1**

Registration date: **2017-11-05, 1396/08/14**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-11-05, 1396/08/14

Registrant information

Name

Esshagh Lasemi

Name of organization / entity

Oral&Maxillofacial surgery Department-Dental Branch, Islamic Azad University, Tehran

Country

Iran (Islamic Republic of)

Phone

+98 21 2256 4571

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Recruitment status

Recruitment complete

Funding source

Researcher

Expected recruitment start date

2016-12-15, 1395/09/25
Expected recruitment end date
 2017-06-21, 1396/03/31
Actual recruitment start date
 empty
Actual recruitment end date
 empty
Trial completion date
 empty

Scientific title
 To investigate the effect of vicryl and vicryl plus sutures on wound situation after lower jaw impacted third molars surgery

Public title
 To investigate the effect of vicryl and vicryl plus sutures on wound situation after lower jaw impacted third molars surgery.

Purpose
 Prevention

Inclusion/Exclusion criteria
 Inclusion criteria: Patients who have been indication for impacted tooth extraction of mandible in two side; same dormancy; express the consciously tendency to cooperate. Exclusion criteria: Present of pericoronal acute and chronic inflammation; used tablet except considered tablet; pregnant person; having systematic problems; individuals with prohibition to this used medicine.

Age
 No age limit

Gender
 Both

Phase
 N/A

Groups that have been masked
No information

Sample size
 Target sample size: 40

Randomization (investigator's opinion)
 Randomized

Randomization description

Blinding (investigator's opinion)
 Double blinded

Blinding description

Placebo
 Not used

Assignment
 Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
 Name of ethics committee

Ethics committee of Dental Branch, Islamic Azad University
Street address
 No. 4, 10th Neyestan St. , Pasdaran Ave.
City
 Tehran
Postal code
 19585175
Approval date
 2016-11-21, 1395/09/01
Ethics committee reference number
 IR.IAU.DENTAL.REC.1395,9

Health conditions studied

1

Description of health condition studied

Impacted third Molar tooth

ICD-10 code

K01.1

ICD-10 code description

Impacted teeth

Primary outcomes

1

Description

pain rate after surgery

Timepoint

12,24 and 72 hours after surgery

Method of measurement

Questionnaire

Secondary outcomes

1

Description

the Operation zone will examined clinically for the indexes of swelling, redness and dehiscence.

Timepoint

One week after surgery

Method of measurement

Clinical exam

Intervention groups

1

Description

Control: group 2: suturing with Vicryl

Category

Prevention

2

Description

Cases: group 1: suturing with Vicryl plus

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Oral&Maxillofacial surgery Department-Dental
Branch,Islamic Azad University,Tehran

Full name of responsible person

Kasra Naseri

Street address

No. 4, 10th Neyestan St. , Pasdaran Ave.

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Dental Branch,Islamic Azad University,Tehran

Full name of responsible person

Kasra Naseri

Street address

Dental Branch,Islamic Azad University,Tehran

City

Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Dental Branch,Islamic Azad University,Tehran

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 Branch,Islamic Azad University,Tehran

Full name of responsible person

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Position

Researcher

Other areas of specialty/work

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Associated professor

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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