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

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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
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Sponsors / Funding sources

1

Sponsor
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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

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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