

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Assessment of clinical inflammatory indicator in two types of suture (Vicryl and Chromic Catgut)

Protocol summary

Study aim

To evaluation clinical inflammatory indicator in two types of suture (Vicryl and Chromic Catgut)

Design

This study is a prospective, single-blind clinical trial.

Settings and conduct

Candidate Patients for Impacted Third Molar Surgery Referred to Surgery Department of Shahid Sadoughi Dental School, Yazd, Iran. After removal of the third molar to the mesial side of the incision is sutured by Vicryl 4-0(Supa, Iran) and in the distal and the distal side is sutured by Chromic Catgut suture 4-0 (Supa, Iran) one month after the first surgery. In all people the suture technique is the same and simple.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Patients referred to Oral and Maxillofacial Surgery Department of Dental School in Yazd, Were the candidate to third molar extraction .
Absence of systemic diseases; Exclusion criteria: Patients who do not refer for dental surgery on both sides.

Intervention groups

Vicryl suture: one side (mesial) is sutured with Vicryl suture. Chromic Catgut suture: one side (distal) is sutured with Chromic Catgut.

Main outcome variables

Inflammation index; Gingival index

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20191014045101N2**
Registration date: **2020-03-03, 1398/12/13**
Registration timing: **retrospective**

Last update: **2020-03-03, 1398/12/13**

Update count: **0**

Registration date

2020-03-03, 1398/12/13

Registrant information

Name

Mostafa Gavahi

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 35 3625 6975

Email address

mgdds@ssu.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-04-06, 1398/01/17

Expected recruitment end date

2019-10-09, 1398/07/17

Actual recruitment start date

2019-04-25, 1398/02/05

Actual recruitment end date

2019-12-06, 1398/09/15

Trial completion date

2019-12-17, 1398/09/26

Scientific title

Assessment of clinical inflammatory indicator in two types of suture (Vicryl and Chromic Catgut)

Public title

Comparison of Tissue Reaction to two types of Suture

Purpose

Diagnostic

Inclusion/Exclusion criteria

Inclusion criteria:

Patients referred to Oral and Maxillofacial Surgery Department of Dental School in Yazd, Were the candidate to third molar extraction
Absence of systemic

diseases

Exclusion criteria:

Patients who do not refer for dental surgery on both sides

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Outcome assessor

Sample size

Target sample size: **70**

Actual sample size reached: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization: The coin was randomly sutured mesial by Vicryl suture and distal by Chromic Catgut suture.

Blinding (investigator's opinion)

Single blinded

Blinding description

Blindness: This study is single-blind because the histological examination of the specimens is performed by other than the therapist.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee in Shahid Sadoughi University of Medical Sciences Yazd

Street address

Bahonar Square., Central Building of University

City

Yazd

Province

Yazd

Postal code

8916978477

Approval date

2019-03-09, 1397/12/18

Ethics committee reference number

IR.SSU.REC.1397.174

Health conditions studied

1

Description of health condition studied

Foreign body reaction

ICD-10 code

K06.9

ICD-10 code description

Disorder of gingiva and edentulous alveolar ridge, unspecified

Primary outcomes

1

Description

Histologic inflammation of the gingiva

Timepoint

Third, fifth and seventh days

Method of measurement

Gingival Index

Secondary outcomes

1

Description

Clinical Inflammation of the gingiva

Timepoint

Third, fifth and seventh days

Method of measurement

Inflammation index

Intervention groups

1

Description

Intervention group: Vicryl suture 4-0 (Supa, Iran)

Category

Treatment - Surgery

2

Description

Intervention group: Chromic Catgut suture 0-4 (Supa, Iran)

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Department of Surgery, Shahid Sadoughi Dental School, Yazd, Iran

Full name of responsible person

Mostafa Gavahi

Street address

Dental School, Dahe Fajr Blvd, Yazd

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Yazd University of Medical Sciences
Full name of responsible person
Masuood Mirzaee
Street address
Deputy for research., Central Building of Shahid
Sadoughi University of Medical Sciences., Bahonar
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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
Yazd University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Yazd University of Medical Sciences
Full name of responsible person
Mostafa Gavahi
Position
Assistant Professor
Latest degree

Specialist
Other areas of specialty/work
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Person responsible for updating data

Contact

Name of organization / entity
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

The primary outcome data is shared

When the data will become available and for how long

Start of access period 6 months after printing results

To whom data/document is available

Researchers working in academic and scientific institutions

Under which criteria data/document could be used

Perform meta-analysis and systematic review

From where data/document is obtainable

Dr Mostafa Gavahi, Dental School, Dahe Fajr Blvd, Yazd, postal code: 8914881167

What processes are involved for a request to access data/document

Send email to Zahra Nouri Shadkam by email: Zahransh1373@yahoo.com

Comments