

# 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)

###### Phone

+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

**City**

Yazd  
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8914881167  
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**Email**  
pajoheshdentyazd@gmail.com

## 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  
Square  
**City**  
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**Province**  
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+98 35 3724 0171  
**Email**  
mmirzaei@ssu.ac.ir  
**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**  
Dentistry  
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Dental School., Dahe Fajr Blvd.,Yazd  
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## Person responsible for scientific inquiries

#### Contact

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## Person responsible for updating data

#### Contact

**Name of organization / entity**  
Yazd University of Medical Sciences  
**Full name of responsible person**  
Zahra Nouri Shadkam  
**Position**  
Student  
**Latest degree**  
A Level or less  
**Other areas of specialty/work**  
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**Email**

Zahransh1373@yahoo.com

## 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**