

Clinical Trial Protocol

Iranian Registry of Clinical Trials

05 Jul 2026

Comparative of the effect of silk suture versus poliglactin 910 suture on the amount of local microbial plaque aggregation in patients who are candidate for oral surgery: a randomized clinical trial

Protocol summary

Summary

Objectives: To compare the effect of silk suture versus poliglactin 910 suture on the amount of local microbial plaque aggregation in patients who are candidate for oral surgery. Design: A randomized clinical trial. Setting and conduct: The eligible patients who are candidate for oral surgery and will refer to Dentistry School during the study period will be enrolled into the trial. Inclusion criteria: candidate for oral surgery; having bilateral impacted third molar teeth. Exclusion criteria: history of previous surgery of third molar teeth. Intervention group: Suturing the surgical location of the third molar using poliglactin 910 suture. Control group: Suturing the surgical location of the third molar using silk suture. Primary outcome: Measuring local microbial plaque aggregation on the suture on the third and seventh days after surgery using microbiological testing. Secondary outcome: Nothing. Randomization: Suturing randomly the surgical location of the third molar on one side by poliglactin 910 suture and the other side by silk suture. Blinding: Not blinded.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201607049014N105**
Registration date: **2016-07-06, 1395/04/16**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-07-06, 1395/04/16

Registrant information

Name

Jalal Poorolajal

Name of organization / entity

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University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice-chancellor for Research the Technology, Hamadan
University of Medical Sciences

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2016-06-20, 1395/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparative of the effect of silk suture versus poliglactin 910 suture on the amount of local microbial plaque aggregation in patients who are candidate for oral surgery: a randomized clinical trial

Public title

Comparative of the effect of silk suture versus poliglactin 910 suture on the amount of local microbial plaque aggregation in patients who are candidate for oral surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: candidate for oral surgery; having bilateral impacted third molar teeth. Exclusion criteria: history of previous surgery of third molar teeth.

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomization: Suturing randomly the surgical location of the third molar on one side by poliglactin 910 suture and the other side by silk suture. Blinding: Not blinded.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences, Shahid Fahmideh Ave

City

Hamadan

Postal code

6517838695

Approval date

2016-04-13, 1395/01/25

Ethics committee reference number

IR.UMSHA.REC.1395.6

Health conditions studied

1

Description of health condition studied

Impacted teeth

ICD-10 code

K01.1

ICD-10 code description

Impacted teeth

Primary outcomes

1

Description

Measuring local microbial plaque aggregation on the suture

Timepoint

on the third and seventh days after surgery

Method of measurement

using microbiological testing

Secondary outcomes

1

Description

Nothing

Timepoint

Nothing

Method of measurement

Nothing

Intervention groups

1

Description

Suturing the surgical location of the third molar using poliglactin 910 suture

Category

Treatment - Surgery

2

Description

Suturing the surgical location of the third molar using silk suture

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Dentistry

Full name of responsible person

Azin Khodabakhshi

Street address

School of Dentistry, Hamadan University of Medical Sciences, Shahid Fahmideh Ave.

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice-chancellor for Research the Technology,
Hamadan University of Medical Sciences

Full name of responsible person

Dr Saeid Bashirian

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Hamadan University of Medical Sciences, Shahid
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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

Vice-chancellor for Research the Technology, Hamadan
University 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**

School of Dentistry

Full name of responsible person

Azin Khodabakhshi

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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