

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 May 2026

Comparison of infection incidence between appendectomy skin incisions sutured by Nylon and Polyglactine (Vicryl)

Protocol summary

Summary

Patients who undergo surgery for appendicitis will be divided in two groups: first group skin will be sewed by conventional method that is Nylon sutures. Second group skin will be sewed by Polyglactine (Vicryl). The incidence of complications and wound infections in both groups will be compared. Patients in the second and tenth days after surgery are examined and infections of skin incision and wound healing in the two groups will be recorded. The quality of wound healing will be compared with steriotactics software in both groups after 10th days of surgery. In the absence of significant difference between the two groups in the incidence of wound infections, surgeons and assistants can freely choose the suturing materials with a better cosmetic and comfort results. We can use absorbable suture strings that had been remained from suturing of subcutaneous tissue and this method is economically excusable and we will not impose extra costs for extra sutures for skin. Proving the safety and absence of higher risk of infection in applying polyfilament absorbable sutures can open or broader prospective for similar studies in future that imply kinds of sutures in different surgeries.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201501179936N10**

Registration date: **2015-03-08, 1393/12/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-03-08, 1393/12/17

Registrant information

Name

Leila Ghahramani

Name of organization / entity

Shiraz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 1623 5586

Email address

lghahraman@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice-Chancellery for Research and Technology, Shiraz University of Medical Sciences, Shiraz, Iran

Expected recruitment start date

2015-01-10, 1393/10/20

Expected recruitment end date

2016-08-04, 1395/05/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of infection incidence between appendectomy skin incisions sutured by Nylon and Polyglactine (Vicryl)

Public title

Comparison of infection incidence between appendectomy skin incisions sutured by Nylon and Polyglactine (Vicryl)

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criterion: all patient with diagnosed appendicitis whom are underwent surgery Exclusion criteria: patients

with perforated appendicitis; patients with history of scar and colloid formation in their wounds; patients who have diabetes and immune deficiencies; BMI>40; patients with exposure to steroids.

Age

From **18 years** old to **45 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **140**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Vice-Chancellery of Research and Technology, Shiraz University of Medical Sciences, Shiraz, Iran

Street address

Shiraz University of Medical Sciences, Shiraz, Iran

City

Shiraz

Postal code**Approval date**

2015-01-06, 1393/10/16

Ethics committee reference number

CT-P-9371-7161

Health conditions studied**1****Description of health condition studied**

Appendicitis

ICD-10 code

K35.2

ICD-10 code description

Acute appendicitis with generalized peritonitis

Primary outcomes**1****Description**

Wound infection rate

Timepoint

Second post operation day and then one week later

Method of measurement

Clinical diagnosis

Secondary outcomes**1****Description**

Wound dehiscence

Timepoint

One week after surgery

Method of measurement

Clinical diagnosis

Intervention groups**1****Description**

Control Group: using Nylon (conventional method)

Category

Treatment - Other

2**Description**

Trial Group: using vicryl sutures

Category

Treatment - Other

Recruitment centers**1****Recruitment center****Name of recruitment center**

Surgery clinic, Shahid Faghihi hospital, Shiraz University of Medical Sciences

Full name of responsible person

Leila Ghahramani. MD

Street address**City**

Shiraz

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Shiraz University of Medical Sciences

Full name of responsible person

Dr. Seyed Basir Hashemi

Street address

Shiraz University of Medical Sciences, Shiraz, Iran

City

Shiraz

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Shiraz 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**

Colorectal Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

Full name of responsible person

Alireza Golchini. MD

Position

Resident of general surgery

Other areas of specialty/work**Street address**

Colorectal Research Center, Shiraz University of Medical Sciences, Shiraz, Iran

City

Shiraz

Postal code**Phone**

+98 71 3628 1453

Fax**Email**

sgholchini@yahoo.com; siamakgolchini@gmail.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Colorectal Research Center, Shiraz university of medical sciences, Shiraz, Iran

Full name of responsible person

Leila Ghahramani. MD

Position

Colorectal flowship, assistant professor

Other areas of specialty/work**Street address**

Colorectal Research Center, Shiraz university of Medical Sciences, Shiraz, Iran

City

Shiraz

Postal code**Phone**

+98 71 3628 1453

Fax**Email**leila_ghahramani@yahoo.com;
colorectal2@sums.ac.ir**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Colorectal Research Center, Shiraz university of medical sciences, Shiraz, Iran

Full name of responsible person

Leila Ghahramani. MD

Position

Colorectal flowship, assistant professor

Other areas of specialty/work**Street address**

Colorectal Research Center, Shiraz university of medical sciences, Shiraz, Iran

City

Shiraz

Postal code**Phone**

+98 71 3628 1453

Fax**Email**leila_ghahramani@yahoo.com;
colorectal2@sums.ac.ir**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*