Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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

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Shiraz University of Medical Sciences
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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

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Person responsible for updating data

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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