

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparing of appendectomy incision closure with and without the use of sutures in the subcutaneous tissue

Protocol summary

Summary

The main objective of this study is to compare wound infection after appendectomy incision closure with or without the use of sutures in the subcutaneous tissues. This study is performed for one year through a randomized clinical trial in general surgery ward of Imam Reza Hospital in Kermanshah. They study patients with clinical diagnosis of appendicitis who will be operated. inclusion criteria: patients are who were operated with clinical diagnosis of appendicitis. exclusion criteria :Patients with complicated appendicitis (perforated and peritonitis); The underlying diseases (diabetes mellitus, acquired or intrinsic Immunodeficiency); immunosuppressive drugs; inability to follow patients. The number of samples is 208 which are divided into two groups of A and B with 103 and 105 patients respectively. The classifying method for each of the groups A and B is simple random also the patients are randomly assigned to each of the two groups. The operation sites are shaved in all patients before surgery and are operated through appendectomy with Mcburny cut under general anesthesia .In group A, Appendectomy incision closure is performed through separately Subcutaneous suture technique using Vicryl thread and Skin healing with nylon sutures in a vertical mattress and in group B with no subcutaneous sutures and skin closing just like the first group. Patients refer to the clinic four times after operation: third and seventh day, one and three months after to follow up. In the visits, the surgeon will examine the patient for signs of infection, Presence of purulent discharge from the wound, the pain at the wound site, warmth, swelling or erythema and fever.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013082814333N4**

Registration date: **2013-09-23, 1392/07/01**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2013-09-23, 1392/07/01

Registrant information

Name

Feizollah Foroughi

Name of organization / entity

kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 83 1821 4653

Email address

fforoughi@kums.ac.ir

Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2013-06-22, 1392/04/01

Expected recruitment end date

2013-12-21, 1392/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing of appendectomy incision closure with and without the use of sutures in the subcutaneous tissue

Public title

Comparing of appendectomy incision closure with the

use of sutures in the subcutaneous tissue

Purpose
Treatment

Inclusion/Exclusion criteria
The inclusion criteria: patients are who were operated with clinical diagnosis of appendicitis by surgeons.
exclusion criteria: Patients with complicated appendicitis (perforated and peritonitis); The underlying diseases (diabetes mellitus, acquired or intrinsic Immunodeficiency); immunosuppressive drugs; inability to follow patients.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **208**

Randomization (investigator's opinion)
N/A

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 Chancellor for Research Affairs, Kermanshah University of Medical Sciences

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

City

Kermanshah

Postal code

Approval date

2013-05-06, 1392/02/16

Ethics committee reference number

5393/7/420/پ

Health conditions studied

1

Description of health condition studied

Acute Appendicitis

ICD-10 code

k35

ICD-10 code description

acute appendicitis

Primary outcomes

1

Description

Purulent discharge of the wound

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

visual secretion

2

Description

Pain at the wound site

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

asking the patient

3

Description

warmth in the wound

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

Visual examination of the patient

4

Description

Swelling at the wound site

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

Visual observation of inflation

5

Description

Erythema (redness) at the wound site

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

erythema

6

Description

presence of fever

Timepoint

3,7 days, one month and three months after surgery

Method of measurement

By Thermometers

Secondary outcomes

empty

Intervention groups

1

Description

Appendectomy wound healing is performed through separately Subcutaneous suture technique using Vicryl thread and Skin healing with nylon sutures in a vertical mattress in control group

Category

Treatment - Surgery

2

Description

Appendectomy wound healing without use of subcutaneous sutures and just closing the skin only in intervention Group.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza hospital

Full name of responsible person

Dr.Saba Mesbahi

Street address

Dep.surgery,Emam Reza Hospital,Razi
Boulevard,Sorkhleje

City

Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Korosh Hamzehee

Street address

Building No.2, Shahid Beheshti, Vice Chancellor for
Research Affairs, Kermanshah University of Medical
Sciences

City

Kermanshah

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Kermanshah 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Seyed Mohamad Ali Hesami

Position

thorasic surgeon

Other areas of specialty/work

Street address

Dep.surgery,Emam Reza Hospital,Razi
Boulevard,Sorkheleje

City

Kermanshah

Postal code

Phone

+98 83 1427 6309

Fax

Email

mahessami@hotmail.com

Web page address

Person responsible for updating data

Contact

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