Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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 appendicitiss. 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 Boulvard,Sorkhleje
City
Kermanshah

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Kermanshah University of Medical Sciences
Full name of responsible person
Koroush 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 Boulvard,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