

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

20 Jun 2026

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

#### Protocol summary

Registration timing: **registered\_while\_recruiting**

#### 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.

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

#### General information

#### Scientific title

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

#### Acronym

#### IRCT registration information

IRCT registration number: **IRCT2013082814333N4**

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

#### 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*