

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

A survey of wound probing effectiveness on surgical site infection in patients with perforated appendicitis

Protocol summary

Summary

This single-blind clinical trial is designed to evaluate the effect of probing of contaminated surgical wounds. People between 12-60 years who underwent surgery for perforated appendicitis via Mc-Burney incision, after obtaining informed consent are placed in control or intervention group randomly (a total of 114 patients). Antibiotic prophylaxis and surgical techniques and postoperative care will be the same in both groups. Just a simple daily dressing is performed in the control group. In the intervention group, probing the wound by dipping a sterile dry cotton-tipped swab between the stitches down to the external oblique fascia is done and then simple dressing is performed. Probing only done once a day during hospitalization for wound drainage. During hospitalization all patients are assessed and examined daily of vital signs, white blood cell count, and any signs of wound infection (purulent or abnormal discharge, redness, swelling, pain). The examiner is unaware of the type of intervention (single-blinded). In case of infection, wound is opened and washing the wound twice daily is performed with normal saline. All patients are examined one week and three weeks after discharge to follow wound infection and wound healing process.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014082618939N1**
Registration date: **2014-10-06, 1393/07/14**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-10-06, 1393/07/14

Registrant information

Name

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Name of organization / entity

Kermanshah University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2014-10-07, 1393/07/15

Expected recruitment end date

2015-03-06, 1393/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A survey of wound probing effectiveness on surgical site infection in patients with perforated appendicitis

Public title

probing effect in contaminated surgical wounds

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 1. Ages between 12-60 years old;
2. Operation via Mc-Burney incision due to acute appendicitis; 3. Evidences of perforated appendicitis e.g., a hole, fecalith, abscess or puss observed by surgeon.
Exclusion criteria: 1. Non perforated appendicitis;

2.Incision other than Mc-Burney; 3.Pregnancy; 4.Ages less than 12 years old and more than 60 years old; 5.Severe sepsis and Immunodeficiency, diabetes, cardiovascular or renal or respiratory or hepatic insufficiency; 6.Body mass index higher than 30.

Age

From **12 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **114**

Randomization (investigator's opinion)

Randomized

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

Single blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features

In this survey, after obtaining informed consent and based on inclusion and exclusion criteria, patients are entered in study. A number is granted to each patient in order of entering to study; (from 1 to 114). To randomization, odd numbers are placed in the intervention group and even numbers in the control group.

Secondary Ids

empty

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

Ethics committee of Kermanshah University of Medical Sciences

Street address

Vice Chancellor for Research, Building No.2, Shahid Beheshty Blvd.

City

Kermanshah

Postal code**Approval date**

2014-06-07, 1393/03/17

Ethics committee reference number

9596

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

Perforated acute appendicitis

ICD-10 code

K35.0

ICD-10 code description

Acute appendicitis with perforation

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

Wound infection

Timepoint

Daily during hospitalization, one week and three weeks after discharge

Method of measurement

Based on clinical examination

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

Hospitalization time period

Timepoint

At the time of discharge

Method of measurement

Calculating days of hospitalization

2**Description**

Wound healing

Timepoint

Three weeks after discharge

Method of measurement

Based on clinical examination

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

Just a simple dressing is done daily.

Category

Other

2**Description**

Surgical wound probing is done only once a day during hospitalization until the wound is impenetrable. Probing is done with a cotton-tipped, sterile dry swab between stitches to depth of external oblique fascia. Simple dressing is applied after wound probing. Swabs are purchased from Bistoon-Teb company and become sterile in Imam Reza Hospital. Cotton-tipped swab contains no antiseptic or antibiotics.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital

Full name of responsible person

Amir Hosein Parniaei

Street address

Imam Reza Hospital, Parastar Blvd.

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Kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Kermanshah University of Medical Sciences

Full name of responsible person

Farid Najafi

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Kermanshah University of Medical Sciences, Building no.2, Shahid Beheshti Blvd.

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, 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

Name of organization / entity

Kermanshah University of Medical Sciences

Full name of responsible person

Amir Hosein Parniaei

Position

Resident of general surgery/Executive colleague

Other areas of specialty/work

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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