Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 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

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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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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

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Person responsible for updating data

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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