

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Comparison the complications of two wound repair methods (subcuticular and mattress) in patients undergoing appendectomy

Protocol summary

Study aim

Comparison the complications of two wound repair methods (subcuticular and mattress) in patients undergoing appendectomy

Design

Randomized clinical trial with parallel groups which will be conducted on 200 patients undergoing appendectomy

Settings and conduct

This study will be conducted with the aim of comparison the complications of two wound repair methods (subcuticular and mattress) in 200 patients undergoing appendectomy. After inclusion in the study, using block randomization method with blocks of 20, the patients will be assigned into two groups; intervention group 1 undergoing subcuticular suture for the skin incision and intervention group 2 undergoing mattress suture for the skin incision. Pain severity will be measured by Visual Analog Scale (VAS) and surgical site infection will be evaluated by direct observation the signs of infection and will be compared together.

Participants/Inclusion and exclusion criteria

Inclusion criterion: age of 18-50 years old. Exclusion criteria: perforated appendicitis; immunodeficiency; body Mass Index of more than 30 kg/m².

Intervention groups

Intervention group 1: undergoing subcuticular suture for the skin incision. Intervention group 2: undergoing mattress suture for the skin incision

Main outcome variables

Surgical site infection; post-operation pain severity

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180820040840N1**

Registration date: **2018-09-10, 1397/06/19**

Registration timing: **prospective**

Last update: **2018-09-10, 1397/06/19**

Update count: **0**

Registration date

2018-09-10, 1397/06/19

Registrant information

Name

Hamidreza Haghghi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 54 3329 5715

Email address

dr.haghghi@zaums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-09-23, 1397/07/01

Expected recruitment end date

2018-11-22, 1397/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison the complications of two wound repair methods (subcuticular and mattress) in patients undergoing appendectomy

Public title

Comparison the complications of two wound repair methods (subcuticular and mattress) in patients undergoing appendectomy

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria:

Age range 18 to 50 years old Being candidate for appendectomy

Exclusion criteria:

Perforated appendicitis Immunodeficiency Body Mass Index of more than 30 kg/m²

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **200**

Randomization (investigator's opinion)

Randomized

Randomization description

Block randomization with blocks of 20 Considering the sample size of 200, 10 blocks with 20 cards (10cards for each group) will be selected; by selecting each block, 10 patients will be assigned into each group.

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

Ethics committee of Zahedan University of Medical Sciences

Street address

Zahedan University of Medical Sciences and Health Services campus, Khalije Fars Blv, Doctor Hesabi Sq, Zahedan

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9916789547

Approval date

2018-05-27, 1397/03/06

Ethics committee reference number

IR. ZAUMS. REC.1397.106

Health conditions studied

1

Description of health condition studied

Appendicitis

ICD-10 code

K35

ICD-10 code description

Acute appendicitis

Primary outcomes

1

Description

Surgical site infection

Timepoint

During the patient's hospitalization period

Method of measurement

By direct observation of the signs of infection

2

Description

Post-operation pain severity

Timepoint

0, 6, 12, 24 hours after the surgery

Method of measurement

By using the Visual Analogue Scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: undergoing subcuticular suture for the skin incision

Category

Treatment - Surgery

2

Description

Intervention group 2: undergoing mattress suture for the skin incision

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali Ebne Abi Taleb Hospital

Full name of responsible person

Hamidreza Haghighi

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Khalije Fars Blv, Zahedan
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person
Mohsen Taheri
Street address
Vice chancellor for research, Zahedan University of
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9816743463
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Dr.Taheri@zaums.ac.ir

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zahedan University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Zahedan University of Medical Sciences
Full name of responsible person
Hamidreza Haghighi
Position

Surgery resident

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Undecided - It is not yet known if there will be a plan to
make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to
make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to
make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to
make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable