

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of laparoscopic appendectomy and open appendectomy for Incidence of inguinal hernia

Protocol summary

Study aim

The aim of this study was to evaluate the incidence of right inguinal hernia in laparoscopic appendectomy.

Design

Patients are randomly will divide into two groups under treatment with open appendectomy and laparoscopic appendectomy

Settings and conduct

Patients with acute appendicitis referred to Modarres Hospital are divided into two groups, treated by open appendectomy and laparoscopic appendectomy, by matching between age and sex variables. One year after surgery, they undergo inguinal ultrasougraphy

Participants/Inclusion and exclusion criteria

This prospective study is performed in Modarres Hospital, Tehran, between 2018-2020. Patients with a clinical diagnosis of acute appendicitis who candidate for appendectomy on the basis of the Alvarado are enrolled. Patients who could not under gone laparoscopic surgery will be excluded.

Intervention groups

groups under treatment with open appendectomy and group laparoscopic appendectomy

Main outcome variables

Incidence of inguinal hernias

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160803029181N7**

Registration date: **2019-11-11, 1398/08/20**

Registration timing: **registered_while_recruiting**

Last update: **2019-11-11, 1398/08/20**

Update count: **0**

Registration date

2019-11-11, 1398/08/20

Registrant information

Name

Nasser Malekpour Alamdari

Name of organization / entity

Shaid Behesht University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2207 4089

Email address

nassermalekpour@sbm.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-09-23, 1398/07/01

Expected recruitment end date

2020-03-20, 1399/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of laparoscopic appendectomy and open appendectomy for Incidence of inguinal hernia

Public title

Laparoscopic appendectomy versus open appendectomy for inguinal hernia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with Clinical Diagnosis of Acute Appendicitis who Candidate for Appendectomy based on the Alvarado

Exclusion criteria:
Patients who could not undergone laparoscopic surgery will excluded.

Age
No age limit

Gender
Both

Phase
N/A

Groups that have been masked

- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

Sample size
Target sample size: **150**

Randomization (investigator's opinion)
Randomized

Randomization description
Patients are randomly will divide into two groups under treatment with open appendectomy and laparoscopic appendectomy.

Blinding (investigator's opinion)
Single blinded

Blinding description
The data analyzer does not know the intervention type

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
International Affairs Department

Street address
13th Floor,Block A,the Ministry of Health and Medical Education,between South Flamak and Zarafshan, Iran
Sima AveQods Town (West),,

City
tehran

Province
Tehran

Postal code
۱۴۱۹۹۴۳۴۷۱

Approval date
2019-10-12, 1398/07/20

Ethics committee reference number
IR.SBMU.MSP.REC.1398.740

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
inguinal hernia

Timepoint
after 1 year

Method of measurement
sonography

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group 1: Group will treat with laparoscopic appendectomy after confirm diagnosis with three ports method(Olympus Keymed, UK)

Category
Treatment - Surgery

2

Description
Intervention group 2: Group will treated with open appendectomy with McBurney's incision after confirm

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Modarres Hospital

Full name of responsible person
Nasser Malekpour

Street address
Modarres Hospital;Kaj Sq;Saadat Abad;

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shahid Beheshti University of Medical Sciences

Full name of responsible person
Seyyed Ali Ziai

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aliziai@sbmu.ac.ir

Grant name

Grant code / Reference number

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

No

Title of funding source

Shahid Beheshti 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
Shahid Beheshti University of Medical Sciences

Full name of responsible person
Nasser Malekpour Alamdari

Position
associate professor

Latest degree
Subspecialist

Other areas of specialty/work
General Surgery

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

No more information

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available