Clinical Trial Protocol
Iranian Registry of Clinical Trials

25 Nov 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, between2018-2020 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 willexcluded.

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

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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
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Province
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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

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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
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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
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Position
associate professor
Latest degree
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Other areas of specialty/work
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Person responsible for updating data

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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