Clinical Trial Protocol
Iranian Registry of Clinical Trials

27 May 2026

Comparison of inguinal hernia recurrence rate in surgery by Liechtenstein method with bassini method with mesh embedded

Protocol summary

Summary

Aim of study: Comparison of inguinal hernia recurrence rate in surgery by Liechtenstein method with bassini method with mesh embedded. In a prospective clinical trial study, patients aged from 18 to 70 years who underwent unilateral inguinal hernia surgery at Velayat and Rajaee hospitals of Qazvin during years of 2015-2016, are entered to the study after obtaining informed consent. Exclusion criteria are as patients with history of hernia surgery, bilateral inguinal hernia, incarcerated hernia and femoral hernia. The patients are randomly (using closed envelopes and choose A or B cards) divided into two groups: the first group is underwent surgery by Liechtenstein technique with mesh; and the second group is repaired by basini technique. All patients refer for the first time for hernia repair surgery, and all of them are operated by a given surgical team. Postoperative pain intensity is evaluated based on Visual Analog Scale (VAS). Patients are followed for inguinal hernia recurrence immediately, 48 hours, 3 month, 6 month and one year after surgery by using phone call and questionnaire through clinic

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017052834175N1**
Registration date: **2017-08-26, 1396/06/04**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-08-26, 1396/06/04

Registrant information

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Name of organization / entity

Qazvin University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for research, Qazvin University of Medical Sciences

Expected recruitment start date

2017-06-05, 1396/03/15

Expected recruitment end date

2017-09-21, 1396/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of inguinal hernia recurrence rate in surgery by Liechtenstein method with bassini method with mesh embedded

Public title

Comparison the recurrence of groin hernia surgery by two different surgical method.

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: unilateral inguinal hernia; candidate for surgery under general or spinal anesthesia. Exclusion criteria: patients younger than 18 and older than 70 years; patients with history of hernia surgery; bilateral

inguinal hernia; incarcerated hernia and femoral hernia.

Age
From **18 years** old to **70 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **80**

Randomization (investigator's opinion)
Randomized

Randomization description

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
Ethical Comitte of Qazvin University of Medical Sciences

Street address
Qazvin, Shahid Bahonar Blvd

City
Qazvin

Postal code

Approval date
2017-04-08, 1396/01/19

Ethics committee reference number
IR.QUMS.REC.1396.59

Health conditions studied

1

Description of health condition studied
inguinal hernia, Surgical Wound Complications

ICD-10 code
K40.9

ICD-10 code description
Unilateral or unspecified inguinal hernia

2

Description of health condition studied
Complications of procedures

ICD-10 code
T81

ICD-10 code description
Complications of procedures, not elsewhere classified

Primary outcomes

1

Description
recurrence of inguinal hernia

Timepoint
48 hour, 3 month, 6 month and one year after surgery

Method of measurement
Examination

Secondary outcomes

1

Description
Surgical wound complications

Timepoint
48 hours, 3 month, 6 month and one year after surgery

Method of measurement
Examination

2

Description
Postoperative inguinal pain

Timepoint
immediately, 48 hours, 3 month, 6 month and one year after surgery

Method of measurement
Measurement of pain according to VAS scal

Intervention groups

1

Description
surgery by Liechtenstein technique

Category
Treatment - Surgery

2

Description
surgery by basini technique

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Velayat hospital

Full name of responsible person

Street address

City

Qazvin

2

Recruitment center
Name of recruitment center
Rajaee hospital
Full name of responsible person
Street address
City
Qazvin

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for research, Qazvin University of Medical Sciences
Full name of responsible person
Dr. Amir Peymani
Street address
Qazvin, Shahid Bahonar Blvd.
City
Qazvin
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, Qazvin 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
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Full name of responsible person
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Person responsible for updating data

Contact
Name of organization / entity
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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