

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jul 2026

Comparison of complications and recurrence of Liechtenstein and Basini inguinal hernia repair techniques

Protocol summary

Summary

In this prospective clinical trial study, all the patients in Rouhani and Beheshti hospital, who underwent surgery due to unilateral inguinal hernia, during years 2015-2016 were enrolled to study, after obtaining informed consent, the patient age range in this study is around 18 to 80 years. Exclusion criteria are: patients younger than 18 and older than 80 years, patients with history of hernia surgery, bilateral inguinal hernia, incarcerated hernia and femoral hernia. The patients were randomly divided into two different groups: the first group are patients who underwent surgery by Liechtenstein technique with mesh, and in the second group, repaired has been done by basini technique. At first, all the patient refer for hernia repair surgery, and all of them will operate by a specified surgical team. Postoperative pain intensity is evaluated based on Visual Analog Scale(VAS). After surgery and hospital discharge patients were followed for 6 month to 1 year with phone call and questionnaire through clinic.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016042627608N1**

Registration date: **2017-02-27, 1395/12/09**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-02-27, 1395/12/09

Registrant information

Name

Emadoddin Moudi

Name of organization / entity

Babol University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research and Technology, Babol University of Medical Sciences

Expected recruitment start date

2015-03-21, 1394/01/01

Expected recruitment end date

2016-08-22, 1395/06/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of complications and recurrence of Liechtenstein and Basini inguinal hernia repair techniques

Public title

Comparison of complications and recurrence of Liechtenstein and Basini inguinal hernia repair techniques

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: unilateral inguinal hernia; candidate for for surgery under general or spinal anesthesia Exclusion criteria: Age less than 18 and older than 80 years, history of hernia surgery, bilateral inguinal hernia, incarcerated hernia, femoral hernia; increased intraabdominal

pressure due to ascites

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

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

Ethics committee of Babol University of Medical Sciences

Street address

Babol University of Medical Sciences- Ganjafrooz Street- Babol-Iran

City

Babol

Postal code

Approval date

2015-12-06, 1394/09/15

Ethics committee reference number

MUBABOL.REC.1394.213

Health conditions studied

1

Description of health condition studied

Surgical Wound Complications

ICD-10 code

T81.4

ICD-10 code description

Infection following a procedure, not elsewhere classified

Primary outcomes

1

Description

Surgical Wound Complications

Timepoint

Three months, six months to a year after surgery

Method of measurement

Examination

Secondary outcomes

1

Description

Hernia recurrence

Timepoint

3 months, 6 months and one year after surgery

Method of measurement

Examination

2

Description

pain

Timepoint

3 months, 6 months and one year after surgery

Method of measurement

Measurement of pain according to VAS scale

Intervention groups

1

Description

50 patients in the group underwent surgery by Liechtenstein technique

Category

Treatment - Surgery

2

Description

50 patients in the group underwent surgery by basini technique

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Babol Shahid Beheshti Hospital

Full name of responsible person

Dr. Emadodin Moudi

Street address

Babol University of Medical Sciences- Ganjafrooz Street- Babol-Iran

City

Babol

2

Recruitment center

Name of recruitment center

Babol Ayatollah Rohani Hospital

Full name of responsible person

Dr. Emadodin Moudi

Street address

Babol University of Medical Sciences- Ganjafrooz

Street- Babol-Iran

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for Research and Technology, Babol
University of Medical Sciences

Full name of responsible person

Dr. Aliakbar Moghaddamnia

Street address

Babol University of Medical Sciences, University
Square, Babol

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Babol

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 and Technology, Babol
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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Assistant Professor

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Web page address

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