

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Comparison of "Read-Rives" and "Lichtenstein" repair for treatment of unilateral inguinal hernia.

Protocol summary

Summary

"Lichtenstein" tension-free mesh repair is the most common surgical techniques used for inguinal hernia repair." Read-Rives" method is tension-free, too, but here prosthesis is placed just over the peritoneum, and there is not any weak area. The aim of this study was to compare the results of "Read-Rives" and Lichtenstein method in the hernioplasty. In this prospective randomized clinical trial, 126 patients who had unilateral inguinal hernia were included. 64 patients were operated by Lichtenstein and 62 patients were operated Rives method. Early post-operative complications, duration of surgery and hospital stay, return to normal activity, and recurrence of hernia were compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201102085783N1**

Registration date: **2011-05-10, 1390/02/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-05-10, 1390/02/20

Registrant information

Name

Shaban Mehrvarz

Name of organization / entity

Baqiyatallah University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Baqiyatallah University of Medical Sciences

Expected recruitment start date

2002-04-04, 1381/01/15

Expected recruitment end date

2004-03-01, 1382/12/11

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of "Read-Rives" and "Lichtenstein" repair for treatment of unilateral inguinal hernia.

Public title

Comparison of "Read-Rives" and "Lichtenstein" repair for treatment of unilateral inguinal hernia.

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria: Presence of type III and IV (Nyhus classification) Exclusion criteria: Morbidly obese patients, presence of incarcerated or strangulated hernias

Age

No age limit

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: **126**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Single blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Baqiyatallah University of Medical Sciences

Street address

Mollasadra Ave, Vanak Square,

City

Tehran

Postal code**Approval date**

2004-04-26, 1383/02/07

Ethics committee reference number

4508-22/240

Health conditions studied**1****Description of health condition studied**

inguinal hernia

ICD-10 code

K40.9

ICD-10 code description

Unilateral or unspecified inguinal hernia, without obstruction or gangrene

Primary outcomes**1****Description**

early post-operative complications (i.e. infection, hematoma, unusual pain),

Timepoint

weekly

Method of measurement

visit and telephone

2**Description**

post op pain

Timepoint

first postoperative day

Method of measurement

Visual Analog Scale(VAS)

3**Description**

Return to normal activity

Timepoint

weekly

Method of measurement

Questionnaire

Secondary outcomes**1****Description**

Recurrence Rate

Timepoint

weekly

Method of measurement

visit

Intervention groups**1****Description**

Rives procedures were done through the longitudinal opening in the transversalis fascia in the inguinal floor, at the first, the preperitoneal space was dissected and the spermatic cord was parietalized, after that, a 10×15cm of mesh was implanted in front of the peritoneum, and the mesh was held in place with 2/0 nylon sutures to pubic tubercle, cooper ligament, and psoas muscle. Finally the fascia was closed over the mesh.

Category

Treatment - Surgery

2**Description**

In the Lichtenstein repair for large direct hernias the sac was reduced into the preperitoneal space with purse string over it. We preferred using of a 10×15cm polypropylene (proline) mesh prosthesis for all the patients. In the Lichtenstein repair, the mesh was placed over the transversalis fascia and secured with 2/0 nylon sutures to pubic tubercle, inguinal ligament, and anterior rectus sheet.

Category

Treatment - Surgery

Recruitment centers**1****Recruitment center****Name of recruitment center**

Baqiyatallah (a.s) hospital

Full name of responsible person

Shaban Mehrvarz
Street address
Baqiyatallah University of Medical Sciences,
City
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Baqiyatallah University of Medical Sciences,
Full name of responsible person
Dr. Shaban Mehrvarz
Street address
Mollasadra Ave, Vanak Square,
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Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Baqiyatallah 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
Dept. of Surgery, Baqiyatallah University of Medical Sciences
Full name of responsible person
Jamal Akhavan Moghaddam
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Person responsible for updating data

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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