Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Comparison treatment outcome of surgical repair in primary inguinal hernia with conventional and sutureless mesh

Protocol summary

Summary

Usually the mesh is used in inguinal hernia repair surgery to strengthen the posterior wall of the inguinal canal. The purpose of this study was to compare the outcomes of primary inguinal hernia repair in two types of mesh fixation. Methods. Double-blind clinical trial was done in patients with non emergent unilateral primary inguinal hernia who were admitted in Sina hospital, Tehran, Iran at 2012-13. The patients were randomly divided into two groups: propylene and Progrip mesh were used in the first and second groups, respectively. All therapeutic interventions expect of mesh kind were similar in both groups before and after surgery. Foreign body sensation, stiffness and numbness in the groin, hernia recurrence, duration of hospital stay and return to normal function, 1, 3, 6 and 12 months after surgery were compared between the two groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050811560N8**
Registration date: **2014-05-11, 1393/02/21**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-05-11, 1393/02/21

Registrant information

Name

Tayeb Ramim

Name of organization / entity

Sina Trauma and Surgery Research Center, Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Deputy of Research, Tehran University of Medical Sciences

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2014-03-21, 1393/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison treatment outcome of surgical repair in primary inguinal hernia with conventional and sutureless mesh

Public title

Comparison treatment outcomes use of two types of mesh in inguinal hernia repair

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age between 18-80 years old; non emergent unilateral primary inguinal hernia. Exclusion criteria: drug abusers; pregnancy; history of Diabetes mellitus; history of uncontrolled hypertension; history of psychological disorders and use of psychoactive drugs.

Age

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

Gender

Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **150**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double 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 Tehran University of Medical Sciences
Street address
Central building of Tehran University of Medical sciences, Ghods st, Keshavarz blv.
City
Tehran
Postal code
6652418542
Approval date
2012-12-27, 1391/10/07
Ethics committee reference number
113-124-91-د

Health conditions studied

1

Description of health condition studied
Inguinal hernia
ICD-10 code
K40
ICD-10 code description
Inguinal hernia

Primary outcomes

1

Description
Pain
Timepoint
1-3-6-12 months after surgery
Method of measurement
Visual Analogue Scale

Secondary outcomes

1

Description
Hernia recurrence
Timepoint
1-3-6-12 months after surgery
Method of measurement
Physical Examination

Intervention groups

1

Description
Inguinal hernia repair with propylene mesh
Category
Treatment - Surgery

2

Description
Inguinal hernia repair with progrip mesh
Category
Treatment - Surgery

Recruitment centers

1

Recruitment center
Name of recruitment center
Sina Hospital
Full name of responsible person
Tayeb Ramim
Street address
Sina Hospital, Imam Khomeini St, Hasan Abad Sq
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Deputy of Research,Tehran University of Medical Sciences
Full name of responsible person
Dr. Masood Younesian
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Central building of Tehran University of Medical sciences, Ghods st., Keshavarz blv.
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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

Deputy of Research,Tehran 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

Sina trauma and Surgery Research Center

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Position

Research Assistant

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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