Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Assessing the effect of closed suction drainage by using of prosthesis (Lichtenstein technique) in preventing wound complications following inguinal hernioplasty in Amir-Al-Momenin hospital, Semnan, 2013

Protocol summary

Summary

Aims There are several methods to prevent or to drain seroma. We aimed to assess effects of closed suction drainage system insertion in preventing of wound complications.. Design of the study: In a clinical trial, 42 patients with primary inguinal hernia candidate for hernioplasty by using of prosthetic who underwent surgery to repair for first time were enrolled and randomly divided into two groups. The main inclusion and exclusion criteria: Inclusion criteria: Patients with primary inguinal hernia, having good condition for surgery under general anesthesia. Exclusion criteria: Recurrent hernia. Sample size: 42 patients with primary inguinal hernia who divided into two groups. Interventions: 21 patients underwent hernia surgery without drains and 21 others with closed suction drainage system. In the first group after hernia repair with prosthesis (Liechtenstein technique) do not used any drains, and in other group closed suction drainage was established. Patients were evaluated 24 hours after surgery in the hospital, and 4-7 days and 10-15 days after surgery in clinic for complications including the formation of seroma, hematoma and wound infection or other complications. Time of intervention: In the end of surgery in operating room. Study outcomes: Decreasing of wound complications.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014120118168N2**
Registration date: **2014-12-19, 1393/09/28**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2014-12-19, 1393/09/28

Registrant information

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Recruitment status

Recruitment complete

Funding source

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

Expected recruitment start date

2013-03-21, 1392/01/01

Expected recruitment end date

2014-03-20, 1392/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessing the effect of closed suction drainage by using of prosthesis (Lichtenstein technique) in preventing wound complications following inguinal hernioplasty in Amir-Al-Momenin hospital, Semnan, 2013

Public title

Assessing the effect of closed suction drainage in

preventing wound complications following inguinal hernioplasty by using of prosthesis.

Purpose
Treatment

Inclusion/Exclusion criteria
Inclusion criteria: Patients with primary inguinal hernia, Having good condition for surgery under general anesthesia. Exclusion criteria: Recurrent hernia.

Age
No age limit

Gender
Both

Phase
3

Groups that have been masked
No information

Sample size
Target sample size: **42**

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 Committee, Semnan University of Medical Sciences

Street address
Basidj Boulevard

City
Semnan

Postal code

Approval date
2014-03-08, 1392/12/17

Ethics committee reference number
93/564791 Date:16/12/1392

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
24 Hours, 4-7 days and 10-15 days after surgery

Method of measurement
Examination, Inspection and drainage culture

Secondary outcomes

1

Description
Fever and tenderness around the surgical wound

Timepoint
24 hours, 4-7 and 10-15 days after surgery

Method of measurement
Examination and Inspection

Intervention groups

1

Description
21 patients as control group were undergoing hernia surgery that repair with prosthesis (Liechtenstein technique) without insertinf of drains.

Category
Treatment - Surgery

2

Description
21 patients as intervention group underwent hernia surgery with prosthesis (Liechtenstein technique) and closed suction drainage system was established after at the incision

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Amir-Al-Mimenin Hospital

Full name of responsible person
Dr. Hamidreza Hemmati

Street address
Imam Hussein square

City
Semnan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Vice Chancellor for Research and Technology, Semnan University of Medical Sciences
Full name of responsible person
Mohammadreza Asgari
Street address
Basidj Boulevard
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Semnan
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, Semnan 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

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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