

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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 (Lichtenstein 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

Name

Hamid Reza Hemmati

Name of organization / entity

Semnan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 3343 7822

Email address

dr.hahemmati@semums.ac.ir

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-Mimemin 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

City

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

Person responsible for general inquiries

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr. Hamidreza Hemmati

Position

Torasic Surgeon/ Assistant Professor

Other areas of specialty/work

Street address

Imam Hussein square

City

Semnan

Postal code

Phone

+98 23 3343 7822

Fax

Email

dr.hahemmati@semums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Semnan University of medical Sciences

Full name of responsible person

Dr Hamidreza Hemmati

Position

Torax Surgeon/ Assistant Professor

Other areas of specialty/work

Street address

Imam Hussein Square

City

Semnan

Postal code

Phone

+98 23 3343 7822

Fax

Email

dr.hhemmati@semums.ac.ir

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Mehrdad Zahmatkesh

Position

Nurse BSN, Resarch Expert

Other areas of specialty/work

Street address

Basidj Boulevard, Amin Ave., Kowsar Hospital

City

Semnan

Postal code

Phone

+98 23 3343 7822

Fax

Email

mehrdadzahmatkesh@semums.ac.ir

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