

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 Jun 2026

A comparison of open hemorrhoidectomy vs closed in patients admitted in Imam Khomeini hospital, Sari, Iran 2008-2009

Protocol summary

Summary

The aim of this randomized clinical trial is to compare between two surgical methods for hemorrhoidectomy those are named Milligan -morgan (Open=group A) and Ferguson (Close=group B) regarding postoperative signs, symptoms and long term result in Imam Khomeini hospital of Sari, Iran. A total of 100 patients with third or fourth degree hemorrhoid hemorrhoidectomy and meeting eligibility criteria are randomly allocated into two groups. In 50 patients milligan -morgan(open) method is used; in this method after resection the hemorrhoid and ligation the pedicle wounds are not closed and in other 50 patient Ferguson (close) method is used; in this method after hemorrhoidectomy wounds are closed. Details of operations, post operative complications and length of postoperative stay are recorded. Pain is assessed from a Visual Analogue Scale and by registration of postoperative analgesic medication. Follow-up is done at hours 6 and 24 and days 14 and 28. Wound healing duration, postoperative bleeding, wound hematoma, abscess, fistula formation and anal stricture are followed by visits or telephone interview by surgeon once a week for one month and once a month for six months and result are compared.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201202041786N2**
Registration date: **2012-02-27, 1390/12/08**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-02-27, 1390/12/08

Registrant information

Name

Nasrin Rahmani

Name of organization / entity

Mazandaran University of Medical Sciences

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Iran (Islamic Republic of)

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+98 15 1226 1700

Email address

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Recruitment status

Recruitment complete

Funding source

Mazandaran University of Medical Sciences

Expected recruitment start date

2010-09-23, 1389/07/01

Expected recruitment end date

2011-09-23, 1390/07/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

A comparison of open hemorrhoidectomy vs closed in patients admitted in Imam Khomeini hospital, Sari, Iran 2008-2009

Public title

Comparison between two surgical methods for hemorrhoid treatment

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criterion: all patients with third and fourth degree hemorrhoid suitable for hemorrhoidectomy
Exclusion criteria: patients with other anorectal diseases like fissure

or fistula; patients who have contraindication for anesthesia; every patient with wound healing problem and high risk for infection like diabetes mellitus.

Age

No age limit

Gender

Both

Phase

N/A

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**

Mazandaran university of medical sciences

Street address

Moallem square, Building NO 2

City

Sari

Postal code**Approval date**

2010-09-08, 1389/06/17

Ethics committee reference number

89-67

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

hemorrhoid

ICD-10 code

I84.8, I84.

ICD-10 code description

hemorrhoids with complication_hemorrhoids without complication

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

Pain severity

Timepoint

Hours 6 and 24 and days 14 and 28 postoperative

Method of measurement

Visual Analogus Scale

2**Description**

Bleeding and hematoma

Timepoint

Every week for one month and every month for 6 months

Method of measurement

Physical examination

3**Description**

Post operative hospital stay

Timepoint

Hospital stay

Method of measurement

Medical file

4**Description**

Duration of operation

Timepoint

Record in the operative room at the time of operation

Method of measurement

Medical file

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

Abcess and fistula formation

Timepoint

Every week for one month and every month for 6 months

Method of measurement

Visit or telephone interview

2**Description**

Anal stricture

Timepoint

Month sixth

Method of measurement

visit

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

Closing the wound after resection of the hemorrhoids and ligation of the vascular pedicle (Ferguson method)

Category

Treatment - Surgery

2**Description**

Wounds are not closed after hemorrhoid resection and ligator of pedicle(Milligan-Morgan)

Category

Treatment - Surgery

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

Imam Khomeini general Hospital

Full name of responsible person

Dr Nasrin Rahmani Boeeni

Street address

Amir Mazandarani Bulvar,Emam Khomaini Hospital

City

Sari

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Mazandaran University of Medical Sciences

Full name of responsible person

Ahmad Ali Enayati

Street address

Moallem Square-Bulding NO 2

City

Sari

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Mazandaran 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**

Surgery ward- Imam Khomeini Hospital

Full name of responsible person

Dr Nasrin Rahmani Boeeni

Position

Assistant Professor

Other areas of specialty/work**Street address**

Amia Mazandarani Bulv.

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nrahmani@mazums.ac.ir; drrahmani124@gmail.com

Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Mazandaran University of Medical Sciences

Full name of responsible person

Dr Nasrin Rahmani Boeeni

Position

Assistant Professor, General Surgeon

Other areas of specialty/work**Street address**

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Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Imam Khomeini Hospital

Full name of responsible person

Dr Nasrin Rahmani Boeeni

Position

Assistant Professor

Other areas of specialty/work**Street address**

Amir Mazandarani Bulvar, Imam Khomeini hospital

City

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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