

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Evaluation of complications, and safety of ligamentous hemorrhoidectomy in comparison with conventional hemorrhoidectomy

Protocol summary

Study aim

Comparison of the side effects and safety of hemorrhoidectomy with Ligasure compared to conventional hemorrhoidectomy

Design

Clinical trial with control group, with parallel group;
Double blind, randomized

Settings and conduct

This study is being performed at Imam Reza Hospital in Birjand, South Khorasan Province. 54 patients are randomly divided into two groups: Ligasure surgery and Ferguson method. Then the amount of pain in patients in two groups in the hours of 24, 12, 6 and 0 after surgery, postoperative complications in patients including: urinary retention, the amount of postoperative bleeding, The duration of hospitalization in the ward will be incontinence and defecation, nausea and vomiting, which will be examined by the nurse without surgery and one day after the operation without the patient's knowledge of the type of surgery.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Lack of Disease of liver, kidney, bronchial asthma, gestational hypertension, preeclampsia, and coagulation disorders

Intervention groups

Patients who are candidates for hemorrhoid surgery are divided into two groups: Ferguson with 27 patients or the Ligasure group with 27 patients.

Main outcome variables

the pain Complications after surgery Bleeding

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190618043934N3**

Registration date: **2020-05-04, 1399/02/15**

Registration timing: **registered_while_recruiting**

Last update: **2020-05-04, 1399/02/15**

Update count: **0**

Registration date

2020-05-04, 1399/02/15

Registrant information

Name

Zabihullah Mohaghegh

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 56 3232 3232

Email address

oabstudent@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-03-20, 1399/01/01

Expected recruitment end date

2020-06-19, 1399/03/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of complications, and safety of ligamentous hemorrhoidectomy in comparison with conventional hemorrhoidectomy

Public title

Comparison of the effects of hemorrhoidectomy with Ligasure method with Ferguson method

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Lack of Disease of liver
 Lack of Disease kidney
 Lack of Disease of bronchial asthma
 Lack of Disease of gestational hypertension
 Lack of Disease of preeclampsia
 Lack of Disease of coagulation disorders

Exclusion criteria:

Dissatisfaction with participating in the study
 concurrent hemorrhoids with other pre-anal problems
 any other unpredictable event for patients

Age

No age limit

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: 27

Randomization (investigator's opinion)

Randomized

Randomization description

Blocking method of Simple random sampling

Blinding (investigator's opinion)

Double blinded

Blinding description

Participants in the study interferer

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics Committee of Birjand University of Medical Sciences

Street address

Moallem BLV

City

Birjand

Province

South Khorasan

Postal code

9717811674

Approval date

2020-01-27, 1398/11/07

Ethics committee reference number

lr.bums.REC.1398.336

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

Hemorrhoid Disease

ICD-10 code

K64

ICD-10 code description

Hemorrhoids and perianal venous thrombosis

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

Pain

Timepoint

0, 6, 12 and 24 hours after surgery

Method of measurement

Using the VAS ruler

Secondary outcomes

empty

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

Intervention group 1: Ligasure surgery is performed by general surgery.

Category

Treatment - Surgery

2**Description**

Intervention group 2: Ferguson surgery is performed by general surgery.

Category

Treatment - Surgery

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

Imam Reza Hospital_Birjand

Full name of responsible person

Mohammad Yaser Dadpour Rodi

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Dr. Tooba Kazemi

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Ghaffari Str

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Birjand University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Zabihullah Mohaghegh

Position

Student

Latest degree

Bachelor

Other areas of specialty/work

General Practitioner

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Birjand University of Medical Sciences

Full name of responsible person

Mohsen Najmaddini

Position

Member of the Faculty

Latest degree

Specialist

Other areas of specialty/work

General Surgery

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no need to publish individual patient information

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available