

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparison of pain after surgery between two methods of hemorrhoidectomy Milligan-Morgan and Ferguson in patients with grade 3 and 4 hemorrhoid

Protocol summary

Study aim

comparison between two methods of hemorrhoidectomy including Milligan-Morgan and Ferguson in patient with hemorrhoid degree 3 or 4

Design

randomized; clinical trial with two parallel groups design of 60 patients

Settings and conduct

After selecting sixty patients with hemorrhoids, patients who are referred to the clinic of Razi Hospital and confirmed the necessity for surgery, are randomly divided into two groups of thirty patients, one of the groups will be undergoing the Ferguson hemorrhoidectomy and the other group will be undergoing Milligan-Morgan hemorrhoidectomy. These patients will be monitored for one month to check the outcomes and possible post-operative complication and they will be examined at least once

Participants/Inclusion and exclusion criteria

inclusion criteria: patient's age between 18 to 60; patients with internal hemorrhoid (third or fourth grade) or complex hemorrhoid; exclusion criteria: thrombosed hemorrhoid; addiction; history of anorectal surgery; anal fissure or fistula

Intervention groups

including two groups that one group operates by Milligan-Morgan method and the other one operates by Ferguson method

Main outcome variables

pain in first, second and third day after surgery, length of stay in the hospital, amount of bleeding, infection, time to back to work

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180516039681N1**

Registration date: **2018-10-26, 1397/08/04**

Registration timing: **registered_while_recruiting**

Last update: **2018-10-26, 1397/08/04**

Update count: **0**

Registration date

2018-10-26, 1397/08/04

Registrant information

Name

Soroosh Aghaei

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 71 3732 5872

Email address

sorooshaghaee@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-23, 1397/05/01

Expected recruitment end date

2019-04-21, 1398/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of pain after surgery between two methods of hemorrhoidectomy Milligan-Morgan and Ferguson in

patients with grade 3 and 4 hemorrhoid

Public title

Comparison between open and closed hemorrhoidectomy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Internal hemorrhoid grade 3 or 4 Internal hemorrhoid or complex Age between 18 to 60

Exclusion criteria:

History of previous anorectal surgery Thrombosed hemorrhoid Addictoin Anal fissure or fistula

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization was done by random number table

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

ethic committee of ahvaz university of medical sciences

Street address

ahvaz jundishapur university of medical sciences;golestan blvd

City

ahvaz

Province

Khouzestan

Postal code

6137515794

Approval date

2017-12-24, 1396/10/03

Ethics committee reference number

IR.AJUMS.REC.1397.105

Health conditions studied

1

Description of health condition studied

methods of hemorrhoidectomy

ICD-10 code

K64.9

ICD-10 code description

Unspecified hemorrhoids

Primary outcomes

1

Description

pain

Timepoint

pain in first,second and third day after surgery

Method of measurement

visual analog scale

2

Description

length of stay in the hospital

Timepoint

after the surgery

Method of measurement

counting length of stay

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: undergoing Ferguson hemorrhoidectomy, in which the skin and mucus are completely closed by suturing.

Category

Treatment - Surgery

2

Description

Intervention group: Undergoing Miligan-Morgan hemorrhoidectomy in which skin ulcer is left open

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

razi hospital

Full name of responsible person

neda najibpour
Street address
razi hospital,felestin st,amanie ave,
City
ahvaz
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Postal code
6196514941
Phone
+98 61 3333 5935
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nnajibpour@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Ahvaz University of Medical Sciences

Full name of responsible person
mohammad badavi

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Ahvaz jundishapur medical science, Golestan Blvd,

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itc@ajums.ac.ir

Grant name

Grant code / Reference number

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

Title of funding source

Ahvaz 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
Ahvaz University of Medical Sciences

Full name of responsible person
neda najibpour

Position

associate professor

Latest degree

Subspecialist

Other areas of specialty/work

General Surgery

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Latest degree

Subspecialist

Other areas of specialty/work

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Person responsible for updating data

Contact

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Full name of responsible person

Soroosh Aghaei

Position

Medical student

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

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

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

Not applicable