Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

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

Protocol summary

Study aim
comparison between two methods of hemorrhoidectomy including Miligan-Morgan and Ferguson in patient with hemorrhoeid degree 3 or 4

Design
randomized;clinical trial with two parallel groups design of 60 pateits

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
inclusions criteria: pateint’s age berween 18 to 60; pateints 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 them operate by Miligan-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

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Iran (Islamic Republic of)

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+98 71 3732 5872

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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 surgury between two methods of hemorrhoidectomy Miligan-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 heamorrhoid grade 3 or 4 Internal heamorrhoid or coplex Age between 18 to 60
Exclusion criteria:
History of previous anorectal surgery Thrombosed hemorrhoid Addictoin Anal fissture 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,
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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
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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