

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

Comparison of the Incidence of Internal Hernia and LUQ Pain Following Classic Gastric Bypass Surgery in Patients with Jejunojejunal Defect Closure Using Purse-String Versus Linear Suturing Techniques

Protocol summary

incidence of internal hernia, pain, patients' satisfaction

Study aim

To determine the incidence of internal hernia in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the purse string suture technique. To determine the incidence of internal hernia in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the linear suture technique. To determine the incidence of LUQ pain in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the purse string suture technique. To determine the incidence of LUQ pain in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the linear suture technique. To determine the operative time in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the purse string suture technique. To determine the operative time in patients undergoing classic gastric bypass surgery with closure of the jejunojejunal defect using the linear suture technique.

Design

Sample size: 102 single-blind randomized clinical trial with SPSS Multi center

Settings and conduct

Department of Surgery at Isfahan University of Medical Sciences.

Participants/Inclusion and exclusion criteria

Patients who underwent Roux-en-Y Gastric Bypass surgery in hospitals affiliated with Isfahan University of Medical Sciences between 2024 and 2025 and were diagnosed with internal hernia and followed up for at least one year will be included.

Intervention groups

Group A: the jejunojejunal defect was closed using a purse string suture technique. Group B: the jejunojejunal defect was closed using a linear suture technique.

Main outcome variables

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20260425069164N1**

Registration date: **2026-05-13, 1405/02/23**

Registration timing: **prospective**

Last update: **2026-05-13, 1405/02/23**

Update count: **0**

Registration date

2026-05-13, 1405/02/23

Registrant information

Name

Negin Alihosseini

Name of organization / entity

Country

Iran (Islamic Republic of)

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+98 31 3650 2289

Email address

iamnegin.hosseini@gmail.com

Recruitment status

recruiting

Funding source

Expected recruitment start date

2026-06-05, 1405/03/15

Expected recruitment end date

2027-06-05, 1406/03/15

Actual recruitment start date

2026-06-05, 1405/03/15

Actual recruitment end date

2027-06-05, 1406/03/15

Trial completion date
2027-07-06, 1406/04/15

Scientific title
Comparison of the Incidence of Internal Hernia and LUQ Pain Following Classic Gastric Bypass Surgery in Patients with Jejunojunal Defect Closure Using Purse-String Versus Linear Suturing Techniques

Public title
Comparison of the Incidence of Internal Hernia and LUQ Pain Following Classic Gastric Bypass Surgery in Patients with Jejunojunal Defect Closure Using Purse-String Versus Linear Suturing Techniques

Purpose
Education/Guidance

Inclusion/Exclusion criteria
Inclusion criteria:
Patients who underwent Roux-en-Y Gastric Bypass surgery in hospitals affiliated with Isfahan University of Medical Sciences between 2024 and 2025. Patients who were diagnosed with internal hernia and followed up for at least one year.
Exclusion criteria:

Age
From **18 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **102**
Actual sample size reached: **102**
Randomization (investigator's opinion)
Randomized

Randomization description
Randomization will be performed using a block randomization table generated by SPSS version 26 (block size 4) to maintain balance between the two groups over time.

Blinding (investigator's opinion)
Single blinded

Blinding description
Patients will be blinded in this study. Before the surgery the surgeon will choose a card between A and B blindly and the method of intervention will be chosen. Group A will consist of patients undergoing purse-string suturing, and Group B will consist of patients undergoing linear running suturing.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids
empty

Ethics committees

1
Ethics committee
Name of ethics committee
Ethics committee of Isfahan University of Medical Sciences
Street address
Department of Medical Ethics, Ground Floor, School of Medicine, Building No. 3, Isfahan University of Medical Sciences, Hezar Jarib Street, Isfahan, Iran.
City
Esfahan
Province
Isfahan
Postal code
8174673461
Approval date
2026-02-06, 1404/11/17
Ethics committee reference number
IR.MUI.MED.REC.1404.448

Health conditions studied

1
Description of health condition studied
Gastric Bypass Surgery
ICD-10 code
ICD-10 code description

Primary outcomes

1
Description
Incidence of internal hernia
Timepoint
In one year after the surgery
Method of measurement
Clinical judgment

Secondary outcomes

empty

Intervention groups

1
Description
Intervention group: Patients in whom the jejunojunal defect was closed using a purse-string suture technique.
Category
Treatment - Surgery

2
Description
Intervention group: Patients in whom the jejunojunal defect was closed using a linear suture technique.

Category
Treatment - Surgery

Academic

Recruitment centers

1

Recruitment center

Name of recruitment center
Sina hospital
Full name of responsible person
Hamid Melali
Street address
No 173, Shamsabadi St, Isfahan City
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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Hamid Melali
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Medical School of Isfahan University of Medical Sciences, Hezarjerib St., Isfahan City
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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

Esfahan 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

Person responsible for general inquiries

Contact

Name of organization / entity
Esfahan University of Medical Sciences
Full name of responsible person
Hamid Melali
Position
Fellowship
Latest degree
Subspecialist
Other areas of specialty/work
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Person responsible for updating data

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Latest degree

Subspecialist

Other areas of specialty/work

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Only data of the primary outcomes will be shared.

When the data will become available and for how long

After publication

To whom data/document is available

Researchers, academic institutions, journals

Under which criteria data/document could be used

All requests should be sent to the corresponding author.

From where data/document is obtainable

Email the corresponding author

What processes are involved for a request to access data/document

After contacting the corresponding author, he will process and verify the request and in case of approval, the data will be emailed to you.

Comments