Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The outcomes of enhanced view of total extraperitoneal inguinal (e-TEP) hernia repair are better than Trans abdominal preperitoneal (TAPP) hernia repairs.

Protocol summary

Study aim
The objective of this study is to compare the differences in postoperative complication, surgical procedure length, duration of hospitalization, duration of return to work and relapse frequency between the enhanced view totally extraperitoneal (TEP) and transabdominal preperitoneal (TAPP) approaches for inguinal hernia repairs.

Design
Randomized control trial, non blinded, with parallel group design of 50 patient for suspected period of 6 months after approval of RCT.

Settings and conduct
This study was conducted in Sheikh Zayed Hospital Rahim Yar khan. The study was not blinded. The patient were told about the surgery. The surgery was done after informed written consent.

Participants/Inclusion and exclusion criteria
Patient with age 15 and 60 year of any gender were included. Patient with reducible inguinal hernia were included. Patient having previous history of mildline surgery and with recurrent inguinal hernia were excluded. Patient with strangulated and obstructed hernia were excluded.

Intervention groups
Two groups wer made. In one group A patients were undergone trans abdominal preperitoneal hernia repair (TAPP) and in group B total extraperitoneal hernia repair (e-TEP) was done after informed written consent.

Main outcome variables
Postoperative complication, Surgical procedure length, Duration of hospitalization, Duration of return to work and relapse frequency

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20240503061640N2**
Registration date: **2024-09-22, 1403/07/01**
Registration timing: **prospective**

Last update: **2024-09-22, 1403/07/01**
Update count: **0**

Registration date
2024-09-22, 1403/07/01

Registrant information

Name
Muhammad Ahsan Mustafa

Name of organization / entity
CPSP

Country
Pakistan

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Email address
whereisdrahsan@yahoo.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2024-10-01, 1403/07/10

Expected recruitment end date
2025-10-01, 1404/07/09

Actual recruitment start date
empty

Actual recruitment end date
empty

Trial completion date
empty

Scientific title
The outcomes of enhanced view of total extraperitoneal

inguinal (e-TEP) hernia repair are better than Trans abdominal preperitoneal (TAPP) hernia repairs.

Public title
The outcomes of enhanced view of total extraperitoneal inguinal (e-TEP) hernia repair are better than Trans abdominal preperitoneal (TAPP) hernia repairs.

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
Patient included with age between 15 and 60 years Patient with inguinal hernia were added Patient with reducible inguinal hernia were included Patient of age gender were included Patient having no previous history of surgery were included

Exclusion criteria:
Patient below age 15 and above age 60 were excluded Irreducible inguinal hernia were excluded Obstructed and strangulated inguinal hernia were excluded Patient with recurrent inguinal hernia were excluded Patient with previous midline scar were excluded

Age
From **15 years** old to **60 years** old

Gender
Both

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **50**

Randomization (investigator's opinion)
Randomized

Randomization description
I used computer generated software SPSS version 23 for randomization. First the sample size was randomized into two groups by using SPSS. Then subjects were assign to each group accordingly.

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
Institutional review board Sheikh Zayed Medical College/Hospital Rahim yar khan.

Street address
C899+333, Rahim Yar Khan, Punjab

City
Rahim Yar Kahn

Postal code
64200

Approval date
2023-08-03, 1402/05/12

Ethics committee reference number
750/IRB/SZMC/SZH

Health conditions studied

1

Description of health condition studied
Inguinal Hernia

ICD-10 code
K40

ICD-10 code description
Inguinal hernia

Primary outcomes

1

Description
Post operative pain, bleeding/seroma, return to daily work, hospital stay.

Timepoint
Post operative period and follow up (6 week)

Method of measurement
By clinical examination and ultrasonography.

Secondary outcomes

1

Description
Recurrence of hernia and re admission rate.

Timepoint
After surgery till 1 year

Method of measurement
Clinical examination and ultrasonography.

Intervention groups

1

Description
Intervention group 1: underwent TAPP surgery for hernia repair.

Category
Treatment - Surgery

2

Description
Intervention group 2: underwent e-TEP surgery for hernia repair

Category
Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center
Sheikh Zayed Medical College/Hospital Rahim Yar Khan.

Full name of responsible person
Khurram Niaz

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C899+333, Rahim Yar Khan, Punjab

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Sheikh zayed medical college

Full name of responsible person
Prof Tariq ghafoor .Director department of medical education

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Email
Tariqghafoor55@gmail.com

Grant name

Grant code / Reference number

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

Title of funding source
Sheikh zayed medical college

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
Sheikh Zayed Medical College/Hospital Rahim Yar Kahn

Full name of responsible person
Dr Khurram Niaz

Position
Assisstant Professor

Latest degree
Specialist

Other areas of specialty/work
General Surgery

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Person responsible for updating data

Contact

Name of organization / entity
Combined Military Hospital Bahawalpur

Full name of responsible person
Muhammad Ahsan Mustafa

Position
Resident surguery
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Bachelor
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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
Yes - There is a plan to make this available
Informed Consent Form
Yes - There is a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Yes - There is a plan to make this available
Data Dictionary
Yes - There is a plan to make this available
Title and more details about the data/document
The outcomes of enhanced view of total extraperitoneal inguinal (e-TEP) hernia repair are better than Trans abdominal preperitoneal (TAPP) hernia repairs.
When the data will become available and for how long
In July 2026
To whom data/document is available
Only available for the people working in academic institutions
Under which criteria data/document could be used
whereisdrahsan@yahoo.com
From where data/document is obtainable
whereisdrahsan@yahoo.com
What processes are involved for a request to access data/document
Through email id
Comments