

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jul 2026

Evaluation of postoperative pain after inguinal hernia repair among patients treated with Pethidine compared to ilioinguinal nerve block.

Protocol summary

Study aim

Evaluation of postoperative pain after inguinal hernia repair among patients treated with pethidine compared to ilioinguinal nerve block.

Design

A randomized, single blinded clinical trial with a parallel group design, consisted of 100 patients, enrollment between February 2020 and February 2021.

Settings and conduct

The current study was a single centered clinical trial that occurred at Ali Ibn Abitaleb Hospital in Zahedan. Participants were divided into two groups according to the permissive block randomization method.

Participants/Inclusion and exclusion criteria

Inclusion criterion: patients with inguinal hernia
Non-inclusion criterion: Patients younger than 10 and older than 70 years old

Intervention groups

Intervention group 1: Inguinal nerve will be blocked during operation. Intervention group 2: After finishing operation and before removal of endotracheal tube (Extubation) 1mg/kg Pethedin will be adminstrated.

Main outcome variables

Measure of pain intensity; Requesting pain reliever

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120817010617N4**
Registration date: **2020-03-20, 1399/01/01**
Registration timing: **registered_while_recruiting**

Last update: **2020-03-20, 1399/01/01**

Update count: **0**

Registration date

2020-03-20, 1399/01/01

Registrant information

Name

morteza Sedaghat Kia

Name of organization / entity

zaums

Country

Iran (Islamic Republic of)

Phone

+98 54 1244 9540

Email address

morimedico@yahoo.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-01-21, 1398/11/01

Expected recruitment end date

2020-04-20, 1399/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of postoperative pain after inguinal hernia repair among patients treated with Pethidine compared to ilioinguinal nerve block.

Public title

The effect of Pethidine and ilioinguinal nerve block on pain after inguinal hernia repair surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patients with inguinal hernia

Exclusion criteria:

Patients younger than 10 and older than 70 years old

Age

From **10 years** old to **70 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **100**

Randomization (investigator's opinion)

Randomized

Randomization description

The randomization will be done using random permuted blocks (block randomization method).

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

Ethics Committee of Zahedan University of Medical Sciences

Street address

Ethics Committee of Zahedan University of Medical Sciences, Zahedan University of Medical Sciences, Dr.Hesabi Square, Zahedan

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743463

Approval date

2018-09-23, 1397/07/01

Ethics committee reference number

IR.ZAUMS.REC.1398.008

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

Measure of pain intensity

Timepoint

Pain intensity will be evaluated at 1, 2, 6, 12 and 24 hours post operation.

Method of measurement

By using Visual Analog Scale for Pain (VAS Pain)

2

Description

Requesting pain reliefer

Timepoint

In first 24 hours post operation.

Method of measurement

Patient's document (By patient`s asking and physician prescription)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group 1: Inguinal nerve will be blocked during operation.

Category

Treatment - Other

2

Description

Intervention group 2: After finishing operation and before removal of endotracheal tube (Extubation) 1mg/kg Pethedin will be adminstrated.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Ali-ebn Abi Taleb Hospital, Zahedan

Full name of responsible person

Alireza Marashi

Street address

Operation room, Zahedan Ali-ebn Abi Talib Hospital, Salamat boulevard, Dr.Hesabi square, Zahedan

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743111

Phone

+98 54 3329 5570

Email

ali_marash@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Dr. Nour Mohammad Bakhshani

Street address

Dr Hesabi square

City

Zahedan

Province

Sistan-va-Balouchestan

Postal code

9816743463

Phone

+98 54 3329 5744

Email

zaums.research@gmail.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Zahedan 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

Zahedan University of Medical Sciences

Full name of responsible person

Alireza Marashi

Position

Surgery Resident

Latest degree

Medical doctor

Other areas of specialty/work

General Surgery

Street address

Ali-ebn Abi Talib Hospital, Salamat boulevard,
Dr.Hesabi square, Zahedan

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Zahedan University of Medical Sciences

Full name of responsible person

Dr. Abdulbaset Maleknejad

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

General Surgery

Street address

Operation room, Zahedan Ali-ebn Abi Talib Hospital,
Salamat Blvd, Dr.Hesabi Sq., Zahedan

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Person responsible for updating data

Contact

Name of organization / entity

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Full name of responsible person

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Position

Surgery Resident

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

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