Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Copmarison of ultrasound-guided transabdominus plane block and ilioinguinal-iliohypogastric nerve blocks to control the pain of patients undergoing open inguinal hernia surgery

Protocol summary

Summary

Objectives: Pain after inguinal hernia surgery can be reduced by injection of local anesthetic at the surgical site. Transabdominus plane block is an effective method in reducing pain and morphine administration in the lower abdominal surgeries. Ilioinguinal-iliohypogastric nerve block is also used to reduce the pain after inguinal hernia surgery. Design: Block randomization, without placebo, single center, trial phase 2, including 54 patients under open inguinal hernia surgery. Setting and conduct: Bupivacaine 0.5%, 3 cc (15 mg), injection into the subdural space to induce spinal anesthesia. Participants including major eligibility criteria: All patients who are supposed to undergo undergoing open inguinal hernia surgery. Intervention: Bupivacaine 0.2%, 15 cc (30 mg), ultrasound-guided, injection in 2 cm above the highest point of right iliac crest. Bupivacaine 0.2%, 15 cc (30 mg), ultrasound-guided, nerve block at 2 cm above and 2 cm interior the anterior-superior iliac crest. Main outcome measures: Pain intensity, sedation level, need for additional opioid.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014030816888N1**
Registration date: **2014-12-25, 1393/10/04**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2014-12-25, 1393/10/04

Registrant information

Name

Soraya Nik-nejadi

Name of organization / entity

Iran University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences, Vice Chancellor for Research

Expected recruitment start date

2014-08-23, 1393/06/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Copmarison of ultrasound-guided transabdominus plane block and ilioinguinal-iliohypogastric nerve blocks to control the pain of patients undergoing open inguinal hernia surgery

Public title

Copmarison of two ultrasound-guided nerve block methods control the pain of patients undergoing hernia surgery

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: 1. Men between 20 to 70 years old 2. Elective surgery Exclusion criteria: 1. Infection in surgery site 2. Sensitivity to study medications 3. Chronic use of non steroidal anti inflammatory drugs

Age
From **20 years** old to **70 years** old

Gender
Male

Phase
2

Groups that have been masked
No information

Sample size
Target sample size: **54**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double 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 Iran University of Medical Sciences

Street address
Headquarters building, 5th floor, intersection of Sheikh Fazl-Allah Noori and Shahid Chamran, Western Hemmat highway, Tehran, Iran

City
Tehran

Postal code

Approval date
2013-01-29, 1391/11/10

Ethics committee reference number
23098

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
Sedation level

Timepoint
Immediately after recovery and in hours 4, 8, 12, and 24 after surgery

Method of measurement
Ramsay score

2

Description
Pain intensity

Timepoint
Immediately after recovery and in hours 4, 8, 12, and 24 after surgery

Method of measurement
Visual analogue scale

3

Description
Need for additional opioid

Timepoint
Immediately after recovery and in hours 4, 8, 12, and 24 after surgery

Method of measurement
Yes or no

Secondary outcomes

empty

Intervention groups

1

Description
Bupivacaine 0.2%, 15 cc (30 mg), made in MYLAN; Saint-priest France. Ultrasound-guided, injection in 2 cm above the highest point of right iliac crest.

Category
Treatment - Drugs

2

Description
Bupivacaine 0.2%, 15 cc (30 mg), MYLAN; Saint-priest France. Ultrasound-guided, nerve block at 2 cm above and 2 cm interior the anterior-superior iliac crest.

Category
Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasool-e Akram hospital

Full name of responsible person

Soraya Nik-nejadi

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences, Vice Chancellor for Research

Full name of responsible person

Dr Seyed Ali Javad Mousavi

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Headquarters building, 2nd floor, intersection of Sheikh Fazl-Allah Noori and Shahid Chamran, Western Hemmat highway, Tehran, Iran

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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

Iran University of Medical Sciences, Vice Chancellor for Research

Proportion provided by this source

100

Public or private sector

empty

Domestic or foreign origin

empty

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

empty

Person responsible for general inquiries

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Soraya Nik-nejadi

Position

Anesthesiology resident

Other areas of specialty/work

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty