

Clinical Trial Protocol

Iranian Registry of Clinical Trials

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

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
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Full name of responsible person
Soraya Nik-nejadi
Position
Anesthesiology resident
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Person responsible for updating data

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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