

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Investigating the effect of adductor canal block in comparison with femoral nerve block for pain control in anterior cruciate ligament repair patients.

Protocol summary

Study aim

Determining the effect of adductor canal block in comparison with femoral nerve block for pain control in anterior cruciate ligament repair patients.

Design

Clinical trial with two groups, the first group: femoral nerve block, the second group: adductor canal block It was double-blind and randomized by phase 3 lottery method on 84 patients

Settings and conduct

This study will be conducted on all patients who are candidates for elective arthroscopic knee surgery visiting Imam Khomeini Hospital in Urmia in 2023. Then these patients will be randomly divided into 2 groups with equal numbers by lottery method. First, the level of pain and satisfaction of the patients in two groups at zero hour, i.e. during recovery, was recorded by a pain level control questionnaire, and then the level of pain and satisfaction of the patients at 3 hours, and also at 6, 12, and 24 hours after the block by a single person. will be done

Participants/Inclusion and exclusion criteria

Inclusion criteria: patients with the classification of the Society of Anesthesiology with ASA I, II, age between 20 and 60 years. Non-entry criteria: drug addiction, previous neuropathy

Intervention groups

First group: femoral nerve block, second group: adductor canal block

Main outcome variables

Pain

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20221126056613N6**

Registration date: **2023-11-27, 1402/09/06**

Registration timing: **registered_while_recruiting**

Last update: **2023-11-27, 1402/09/06**

Update count: **0**

Registration date

2023-11-27, 1402/09/06

Registrant information

Name

aliakbar nasiri

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 44 3346 9931

Email address

nasiriali7@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-06-02, 1402/03/12

Expected recruitment end date

2023-12-31, 1402/10/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Investigating the effect of adductor canal block in comparison with femoral nerve block for pain control in anterior cruciate ligament repair patients.

Public title

Investigating the effect of adductor canal block in comparison with femoral nerve block for pain control

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Candidate patients for knee anterior cruciate ligament repair Patients with the classification of the Society of Anesthesia with ASA I, II No drug addiction

Exclusion criteria:

Coagulation disorders Injection site infection Neurological disorders

Age

No age limit

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Care provider
- Investigator
- Outcome assessor
- Data analyser
- Data and Safety Monitoring Board

Sample size

Target sample size: **84**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients will be divided into two groups in a simple random manner using the numbers given by "Random Allocation" computer software. The randomization method is such that each patient is given a code and then the codes are written on a piece of paper, and after mixing the pieces of paper together, a piece of paper is randomly taken out each time and the code is related to the patient. In a list, the first 40 codes will be in the case group and the second 40 will be in the control group.

Blinding (investigator's opinion)

Double blinded

Blinding description

The procedure will be performed blindly and without the knowledge of the patients and the surgeon, so the study will be double-blind. Also, with the advice of a pharmaceuticals expert, the pharmaceutical forms of the two groups will be designed the same.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Urmia University of Medical Sciences

Street address

Urmia, Resalat Boulevard, Emergency Alley

City

Urmia

Province

West Azarbaijan

Postal code

5714783734

Approval date

2023-01-15, 1401/10/25

Ethics committee reference number

IR.UMSU.HIMAM.REC.1402.019

Health conditions studied

1

Description of health condition studied

Damage to the anterior cruciate ligament of the knee

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Pain

Timepoint

0.24,48,72 hour

Method of measurement

Visual Analog Scale for Pain (VAS)

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: femoral nerve block, in this group, 10 ml of bupivacaine 0.125% will be used for the block

Category

Treatment - Drugs

2

Description

Intervention group: adductor canal block, 10 ml of bupivacaine 0.125% will be used in the intervention group.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Khomeini Hospital Urmia

Full name of responsible person

Farzaneh Ebrahimi

Street address

Urmia, Resalat Boulevard, Emergency Alley

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Phone

+98 914 139 0408

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farzanehebrahimi1377@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Urmia University of Medical Sciences

Full name of responsible person

Saber Qolizadeh

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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

Urmia 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

Oroumia University of Medical Sciences

Full name of responsible person

Farzaneh Ebrahimi

Position

Student

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Ali nasiri

Position

Professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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Person responsible for updating data

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

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Position

Student

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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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

A part of the data that is not confidential and personal

When the data will become available and for how long

Access starts from the beginning of 2023

To whom data/document is available

Researchers working in institutions

Under which criteria data/document could be used

Type of analysis

From where data/document is obtainable

Farzaneh Ebrahimi

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

Please provide me with the data related to anterior cruciate ligament repair patients

Comments