

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Compare between obturator nerve block with femoral nerve block to relieve pain after elective surgery arthroscopic ACL reconstruction of the knee

Protocol summary

Summary

Arthroscopy is a surgical treatment that was common decades ago, and today it is used on several occasions by orthopedic specialists such as ACL reconstruction surgery. Blocks are used to control postoperative pain such as the femoral nerve block has been used to occasionally fail. Maybe because it requires that innervation of obturator nerve in the knee. In this study, the target population consists of all patients undergoing elective knee arthroscopy surgery to repair ACL referred to Rasool Akram. Then the patients were randomly divided into two groups obturator and femoral blocks. Then all patients undergoing general anesthesia are the same technique. Before waking patients given 1 gr Apotel. In the recovery unit under ultrasound-guided obturator block or femoral block the local anesthetic injection. After that for unification of the management of pain in both groups PCA pumps is used for patients, time of the first dose and the overall dose will be calculated. After the block, the pain by using VAS and sedation score nerve block with standard Ramsay Score and The satisfaction rate, by a third person evaluated who does not know how to block patient.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015042121878N1**
Registration date: **2015-12-23, 1394/10/02**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-12-23, 1394/10/02

Registrant information

Name

Zahra Esfandiari

Name of organization / entity

Iran University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research, Iran University of Medical Sciences

Expected recruitment start date

2014-10-22, 1393/07/30

Expected recruitment end date

2015-10-22, 1394/07/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Compare between obturator nerve block with femoral nerve block to relieve pain after elective surgery arthroscopic ACL reconstruction of the knee

Public title

Compare between obturator nerve block with femoral nerve block to relieve pain after elective surgery arthroscopic ACL reconstruction of the knee

Purpose

Treatment

Inclusion/Exclusion criteria

All patients undergoing elective knee arthroscopy surgery to reconstruction ACL referred to Rasool Akram; age from 18 to 50 yearsold; ASA 1 and 2; no coagulation disorders; absence of infection at the injection site; no neurological damage in the lower limb; insensitivity to local anesthetics; BMI <35; having mental disorders patient acceptance and no drug addiction.

Age

From **18 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **58**

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

Iran university of medical sciences, Hemmat Highway

City

Tehran

Postal code

Approval date

2015-03-16, 1393/12/25

Ethics committee reference number

105/6248/93/3

Health conditions studied

1

Description of health condition studied

Post arthroscopic for acl reconstruction pain

ICD-10 code

T85.8

ICD-10 code description

Pain due to devices, implants and grafts

Primary outcomes

1

Description

Post operative pain

Timepoint

Immediately after block in the recovery unit, 3 hours, 6 hours, 12 hours and 24 hours later

Method of measurement

VAS Score

Secondary outcomes

1

Description

Amount of IV analgesic

Timepoint

The total dose 24 hours after the blockage

Method of measurement

Mililiter(cc)

Intervention groups

1

Description

The control group femoral is performed nerve block under ultrasound guidance

Category

Treatment - Other

2

Description

In the intervention group obturator nerve block is performed under ultrasound guidance

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat Rasool Akram Hospital

Full name of responsible person

Dr Zahra Esfandiari

Street address

Hazrat Rasool Akram Hospital, Satarkhan St

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Iran university of medical sciences

Full name of responsible person

Dr. Morteza Naserbakht

Street address

Floor 5, central building, Iran university of medical sciences, Shahid Hemmat Highway

City

Tehran

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Vice chancellor for research, Iran university of medical sciences

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**

Department of Anesthesiology and Critical Care, Iran University of Medical Sciences

Full name of responsible person

Dr. Zahra Esfandiari

Position

Resident of Anesthesiology

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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