

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

Femoral nerve block at the adductor canal entrance interventional performance and compare it with the classical method for analgesia after knee surgery in patients who have elective knee surgery

Protocol summary

Summary

1- The Goals: 1-1- The main goals: 1-1-1- Determine the efficiency of ultrasound- assisted femoral nerve block at the adductor canal analgesia after elective knee surgery. 1-1-2- Determine the efficiency of ultrasound- assisted femoral nerve block at inguinal canal for analgesia after elective knee surgery. 1-2-The subsidiary goals: 1-2-1- Determine the VAS pain scale after femoral nerve block in patients with adductor canal and compare them with the classic method. 1-2-2- Determine the immobilization of the knee after femoral nerve block at the adductor canal for analgesia after surgery and compare them with classic method. 1-2-3- Determine the satisfaction of each methods and compare them. 2- Designing: Patients seeking elective knee surgery were randomly assigned to two groups are. For postoperative analgesia after surgery for a knee blocks is done through the classical method, and the second block on the knee adductor canal is done by comparing the results of analgesia in both groups. 3- Methods: Patients are randomized to two groups, in one group after surgery Femoral block for inguinal region with the help of ultrasound twenty cc of local anesthetic, under name classic method. in the second group, after surgery femoral nerve block with ultrasound of the adductor canal, with ten cc local anesthetic. Patients remained under observation for 24h and follow up the presence and intensity of pain. 4- Participants: Patients undergoing elective surgery like arthroscopy. The inclusion main criteria: patients without disease of uncontrolled entrance; the absence of coagulopathy; the absence of addiction; the absence of neuropathy; age 15-70 y; body mass index less than 35; elective knee surgery. The exclusion main criteria: discontent of patients; complications related to the block. 5- Interventions: Femoral nerve block using both classical and adductor canal methods. 6- The main variable and outcome: Analgesia and immobilization.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT2014111219924N1**

Registration date: **2015-01-07, 1393/10/17**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-01-07, 1393/10/17

Registrant information

Name

Armaghan Abbasi Baharanchi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 936 687 9814

Email address

feiz.hr@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Investigator

Expected recruitment start date

2012-01-21, 1390/11/01

Expected recruitment end date

2014-01-21, 1392/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Femoral nerve block at the adductor canal entrance interventional performance and compare it with the classical method for analgesia after knee surgery in patients who have elective knee surgery

Public title

Comparison of two types of block for analgesia after knee surgery

Purpose

Supportive

Inclusion/Exclusion criteria

The inclusion main criteria: The absence of coagulopathy; ASA 1-2; Elective knee surgery; Age 15-70 y; The absence of opium addiction; The absence of neuropathy; BMI less than 35. The exclusion main criteria: Lack of consent; Creates block side effects.

Age

From **15 years** old to **70 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **96**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

1

Registry name

-

Secondary trial Id

-

Registration date

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Iran University of Medical Sciences Ethics Committee

Street address

Iran University of Medical Sciences Ethics Committee,

Iran University of Medical Sciences, Between Chamran and Sheikh Fazlullah, Hemmat highway, Tehran

City

Tehran

Postal code

-

Approval date

2014-07-21, 1393/04/30

Ethics committee reference number

93 -d- 105 - 1964

Health conditions studied

1

Description of health condition studied

Local anesthesia

ICD-10 code

Y48.3

ICD-10 code description

Local anaesthetics

Primary outcomes

1

Description

Analgesia after femoral block or Obturator block

Timepoint

Immediately after blocking and 3, 6, 12 and 24 hours later

Method of measurement

Questionnaire and Examination of patient

Secondary outcomes

1

Description

Immobilty after femoral block or Obturator block

Timepoint

Immediately after blocking and 3, 6, 12 and 24 hours later

Method of measurement

Questionnaire and Examination of patient

Intervention groups

1

Description

Intervention conducted in the intervention group: Femoral nerve block via adductor canal with the aid of ultrasonography, Once injection, Marcaine 0.125% 10 cc.

Category

Treatment - Drugs

2

Description

Intervention conducted In control group: Femoral nerve block in inguinal canal with the aid of ultrasoundography, Once injection. Marcaine 0.125% 20 cc.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat Rasoul Akram Hospital in Tehran

Full name of responsible person

Armaghan Abbasi Baharanchi

Street address

Hazrat Rasoul Akram Hospital, Niayesh St.,
Sattarkhan Ave., Tehran

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

Doctor Morteza Naserbakht

Street address

5th floor, Central Office, Iran University of Medical
Sciences, Between Chamran and Sheikh Fazlullah,
Hemmat highway, Tehran

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

Iran University of Medical Sciences

Full name of responsible person

Armaghan Abbasi Baharanchi

Position

Anesthesia Resident

Other areas of specialty/work

Street address

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-

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Person responsible for scientific inquiries

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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