

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jul 2026

Comparison of postoperative analgesia following i.v. patient-controlled analgesia (PCA) versus femoral catheter PCA after Arthroscopic Anterior Cruciate Ligamentum (ACL) repair

Protocol summary

Summary

In this randomized clinical trial, 70 Patients candidated for arthroscopic anterior cruciate ligamentum (ACL) repair surgery were enrolled in two groups, intravenous PCA (PCIA) and regional PCA (PCRA). Analgesic solution in the PCIA group was morphine %0.2, and in the PCRA group after performance of the femoral nerve block with catheter insertion in the recovery room, was bupivacaine %0.1. All the pumps were 5 ml/h constant flow rate. The patients were evaluated for postoperative pain by visual analogue scale (VAS) and side effects in the 1, 8, 16, 24, 32 and 40 hours.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138901182366N2**

Registration date: **2010-04-20, 1389/01/31**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-04-20, 1389/01/31

Registrant information

Name

Farnad Imani

Name of organization / entity

Iran University of Medical Sciences (IUMS)

Country

Iran (Islamic Republic of)

Phone

+98 21 6651 5758

Email address

imani.f@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2007-06-22, 1386/04/01

Expected recruitment end date

2008-08-21, 1387/05/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of postoperative analgesia following i.v. patient-controlled analgesia (PCA) versus femoral catheter PCA after Arthroscopic Anterior Cruciate Ligamentum (ACL) repair

Public title

Comparison of postoperative analgesia following i.v. patient-controlled analgesia (PCA) versus femoral catheter PCA after Arthroscopic Anterior Cruciate Ligamentum (ACL) repair

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion Criteria: 1) patient who candidated for ACL surgery, 2) aged 20-50 yrs, 3) ASA physical status I, II. Exclusion Criteria: 1) presence of coexisting diseases (coagulative, seizure, cardiac, ...), 2) history of smoking, opioid and alchohol addiction, 3) allergy to morphine or local anesthetic, 4) patient refusal .

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: 70

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Iran University of Medical Sciences

Street address

Crossroads of Hemmat & Chamran Expressways

City

Tehran

Postal code

14496

Approval date

2007-06-10, 1386/03/20

Ethics committee reference number

4274

Health conditions studied

1

Description of health condition studied

Tear of meniscus, current

ICD-10 code

S83.2

ICD-10 code description

Tear of meniscus, current

2

Description of health condition studied

Opioids and related analgesics

ICD-10 code

Y45.0

ICD-10 code description

Opioids and related analgesics

3

Description of health condition studied

Local anaesthetics

ICD-10 code

Y48.3

ICD-10 code description

Local anaesthetics

4

Description of health condition studied

Pain in joint

ICD-10 code

M25.5

ICD-10 code description

Pain in joint

Primary outcomes

1

Description

postoperative analgesia

Timepoint

every 8 hrs

Method of measurement

Visual analogue scale

Secondary outcomes

1

Description

complications

Timepoint

every 8 hrs

Method of measurement

patient evaluation and observation

Intervention groups

1

Description

Intervention group: After postoperative femoral nerve block in the recovery room and catheter insertion, PCRA pump contain Bupivacaine %0.1 was connected to the femoral catheter

Category

Treatment - Other

2

Description

Control group: PCA contain morphie 0.2 mg/ml was connectd to iv line.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasool-Akram Hospital

Full name of responsible person

Farnad Imani

Street address

Department of Anesthesiology and Pain Medicine

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Akbar Sharafi M.D. Vice chancellor for research

Street address

Crossroads of Hemmat & Chamran Expressways

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

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

Farnad Imani

Position

Chairman, Department of Anesthesiology

Other areas of specialty/work**Street address**

Department of Anesthesiology & Pain Medicine,
Rasool-Akram Hospital

City

Tehran

Postal code

1445613131

Phone

+98 21 6651 5758

Fax

+98 21 6651 5758

Email

farimani@iums.ac.ir

Web page address

Person responsible for scientific inquiries

Contact**Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Farnad Imani

Position

Associate professor

Other areas of specialty/work**Street address**

Rasool-Akram Hospital

City

Tehran

Postal code

1445613131

Phone

+98 21 6651 5758

Fax

+98 21 6651 5758

Email

farimani@iums.ac.ir

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Farnad Imani

Position

Chairman/ Department of Anesthesiology

Other areas of specialty/work**Street address**

Department of Anesthesiology & Pain Medicine,
Rasool-Akram Hospital, Niayesh St, Sattar-khan Av

City

Tehran

Postal code

1445613131

Phone

+98 21 6651 5758

Fax

+98 21 6651 5758

Email

farimani@iums.ac.ir

Web page address

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