

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 May 2026

Effects of intra-articular injection of morphine with ketorolac on Postoperative pain relieve after arthroscopic anterior or posterior cruciate ligament reconstruction

Protocol summary

Summary

The purpose of this study is to compare the effect of intra-articular injection of ketorolac with morphine on severity of pain in patients after arthroscopic anterior or posterior cruciate ligament reconstruction in Imam Ali hospital in Bojnurd. Inclusion criteria: 1) Patients with torn anterior or posterior cruciate ligament 2) The patient's agreement on participating in the study Exclusion criteria: 1) ASA higher than II 2) Allergy to opioid or local anesthetic 3) cardiovascular disease and hypertension 4) respiratory disease 5) Metabolic disease 6) kidney disease 7) Women during pregnancy and lactation 8) Addiction to drugs, alcohol or cigarettes 9) History of peptic ulcer disease or gastrointestinal bleeding 10) People with mental health or Neurology Problems 11) Use NSAID or opioid drugs in the last 24 hours 12) If did not fall pain with drugs that used in the study. this double blind study, will be performed on 30 Patients Patients randomly divided into two groups of 15 . In first group 30 milligram ketorolac and in second one 5 milligram morphine is injected into the knee joint. The severity of pain will be assessed by visual analog scale in 6, 12, 18 and 24 hours after surgery, the scaled mean will be compare in study groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015121625560N1**

Registration date: **2016-02-20, 1394/12/01**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-02-20, 1394/12/01

Registrant information

Name

Mohsen Abad

Name of organization / entity

Bojnurd School of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 58 3229 6764

Email address

m.abad@nkums.ac.ir

Recruitment status

Recruitment complete

Funding source

North Khorasan University Of Medical Science

Expected recruitment start date

2016-01-21, 1394/11/01

Expected recruitment end date

2017-01-20, 1395/11/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of intra-articular injection of morphine with ketorolac on Postoperative pain relieve after arthroscopic anterior or posterior cruciate ligament reconstruction

Public title

Effects of intra-articular injection of morphine with ketorolac on Postoperative pain relieve after arthroscopy

Purpose

Treatment

Inclusion/Exclusion criteria

inclusion:1) Patients with torn anterior or posterior

cruciate ligament 2) The patient's agreement on participating in the study exclusion:1) ASA higher than II 2) Allergy to opioid or local anesthetic 3) cardiovascular disease and hypertension 4) respiratory disease 5) Metabolic disease 6) kidney disease 7) Women during pregnancy and lactation 8) Addiction to drugs, alcohol or cigarettes 9) History of peptic ulcer disease or gastrointestinal bleeding 10) People with mental health or Neurology Problems 11) Use NSAID or opioid drugs in the last 24 hours 12) If did not fall pain with drugs that used in the study

Age

From **20 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

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

North Khorasan University of Medical Sciences

Street address

The Central building of North Khorasan University of Medical Sciences, dolat street, Bojnurd

City

Bojnurd

Postal code

947354176

Approval date

2015-06-07, 1394/03/17

Ethics committee reference number

ir.nkums.rec.1394.2

Health conditions studied

1

Description of health condition studied

Rupture Of Cruciate Ligament

ICD-10 code

S83.7

ICD-10 code description

Injury to multiple structures of knee

Primary outcomes

1

Description

Severity of pain

Timepoint

6, 12, 18 and 24 hours after arthroscopy

Method of measurement

Visual Analogue Scale (VAS)

Secondary outcomes

1

Description

Time of the first dose of analgesics administration.

Timepoint

After surgery finished until the first dose of analgesics

Method of measurement

Hours

Intervention groups

1

Description

Single dose of 30 mg Ketorolac with 5cc volume will infiltrated intra-articular after intervention

Category

Treatment - Drugs

2

Description

Single dose of 5 mg morphine with 5cc volume will infiltrated intra-articular after intervention

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali Hospital

Full name of responsible person

Doctor Abad

Street address

Imam Ali Hospital, Shahriari Street, Bojnurd

City

Bojnurd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy for Research & Technology of North Khorasan
University of Medical Sciences

Full name of responsible person

DR. Abad

Street address

NO.36, Shahid Mohaghar Alley, Shaid Beheshti Street,
Bojnurd

City

Bojnurd

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

Yes

Title of funding source

Deputy for Research & Technology of North Khorasan
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**

North Khorasan University of Medical Sciences

Full name of responsible person

Dr. Reza Gangi

Position

Assistant Professor, Orthopedic Specialist

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

Imam Ali Hospital, Shahriari Street, Bojnurd

City

Bojnurd

Postal code

94149-75519

Phone

+98 58 3224 6144

Fax

+98 58 3224 6144

Email

R.Ganji@nkums.ac.ir rasul.nikdel@yahoo.com

Web page address

Person responsible for scientific

inquiries

Contact**Name of organization / entity**

Bojnurd School of Medical Sciences

Full name of responsible person

Dr. Abad

Position

Assistant Professor, Anesthesiology and Intensive
Care

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

Bojnurd School of Medical Sciences, Shahriari Street,
Bojnurd

City

Bojnurd

Postal code

9473594176

Phone

+98 58 3229 6764

Fax**Email**

M.Abad@nkums.ac.irmohsen.abad@yahoo.com

Web page address

Person responsible for updating data

Contact**Name of organization / entity**

Bojnurd School of Medical Sciences

Full name of responsible person

Rasoul Nikdel Makki

Position

Medical Student

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

Bojnurd School of Medical Sciences, Shahriari Street,
Bojnurd

City

Bojnurd

Postal code

7487794149

Phone

+98 583222191016

Fax**Email**

rasul.nikdel@yahoo.com

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