Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 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

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Name of organization / entity

Bojnurd School of Medical Sciences

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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 untile 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
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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
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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