Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

The effect of intraarticular magnesium sulfate on postoperative pain after knee arteroscopy

Protocol summary

Summary

The purpose of this study is to evaluate the effects of intraarticular administration of magnesium sulphate on postoperative pain in the patients who are candidate for knee artheroscopy for repair of anterior cruciate ligament . In this randomized double blind trial, 60 patients, aged 18-55 years old, and ASA physical status I and II, are assigned into two groups(30 patients in every group).Induction of anesthesia and route of surgery are the same for all the patients.The patients receive randomly intraarticular administration of 1g of magnesium sulphate in 10 ml normal saline at the end of the surgery or placebo(10 ml normal saline). Pain is assessed through visual analog scale (VAS) at1, 2, 6, 12, 18 and 24 hours after the surgery. In addition, the first request of the patient for analgesia, the amount of opioid consumed, and side effects of magnesium sulphate (flashing ,hypotension, bradycardia) are evaluated during 24 hours and compared between the groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201204092963N8**
Registration date: **2012-04-21, 1391/02/02**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-04-21, 1391/02/02

Registrant information

Name

Shekoufeh Behdad

Name of organization / entity

Shahid Sadoughi University of Medical Sciences

Country

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Recruitment status

Recruitment complete

Funding source

Shahid Sadoughi University of Medical Sciences

Expected recruitment start date

2012-03-10, 1390/12/20

Expected recruitment end date

2012-09-10, 1391/06/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of intraarticular magnesium sulfate on postoperative pain after knee arteroscopy

Public title

The effect of intraarticular magnesium sulfate on postoperative pain after knee surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:patients with American Society of Anesthesia (ASA) physical status I or II who are candidate for elective ACL artheroscopy, age18-55years old
Exclusion criteria: patients with mental impairment,chronic pain ,a history of addiction were excluded.

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: **60**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Shahid Sadoughi University of Medical Sciences
Street address
Bahonar square
City
Yazd
Postal code
Approval date
2012-03-07, 1390/12/17
Ethics committee reference number
159135

Health conditions studied

1

Description of health condition studied
pain in knee
ICD-10 code
M79.6
ICD-10 code description
Pain in limb

Primary outcomes

1

Description
postoperative pain
Timepoint
1, 2, 6, 12, 18 and 24 hours after the surgery
Method of measurement
visual analog scale (VAS)

Secondary outcomes

1

Description
opioid consumption
Timepoint
during 24 hours after operation
Method of measurement
mg morphine

2

Description
the first request of the patient for analgesic
Timepoint
during 24 hours after operation
Method of measurement
in hours

3

Description
Drug side effects
Timepoint
during 24 hours after the operation
Method of measurement
asking the patient

Intervention groups

1

Description
intraarticular administration of 1g of magnesium sulphate in 10 ml normal saline at the end of the surgery
Category
Treatment - Drugs

2

Description
intraarticular administration of placebo(10 ml normal saline) at the end of the surgery
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Shahid Sadoughi Hospital
Full name of responsible person
Dr.Shekoufeh Behdad
Street address
Shahid Sadoughi Hospital
City
Yazd

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Shahid Sadoughi University of Medical Sciences
Full name of responsible person
Dr. Hasan Mozaffari
Street address
Bahonar square
City
Yazd
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Shahid Sadoughi 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

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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