Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Sep 2026

Effect of Intravenous methylprednisolon on postoperative pain in patients with intertrochanteric femur fracture

Protocol summary

Summary

Present study was designed for assessment impact of intravenous methylprednisolone on postoperative pain in Intertrochanteric fracture. 40-70 years patients with Intertrochanteric fracture were included and randomly allocated into the trial and control groups. Thirty minutes before operation, patients received one dosage of methylprednisolone (2 cc, 125 mg) in trial group and 2 cc normal saline (isotonic saline) in control group. Postoperative pain in patients was assessed by VAS at 4, 6, 12, 36 and 48 hours after operation. Nausea and vomiting and CRP level were measured and compared with control group.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2013051113182N1**
Registration date: **2013-09-21, 1392/06/30**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-09-21, 1392/06/30

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2012-10-01, 1391/07/10

Expected recruitment end date

2014-10-02, 1393/07/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of Intravenous methylprednisolon on postoperative pain in patients with intertrochanteric femur fracture

Public title

Effect of methylprednisolon on postoperative pain in femur Fracture

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:age between 40-70; having writing and verbal ability; Exclusion criteria:S-A contraindication; Failure in previous S-A; having renal failure;having peptic ulcer; having diabetes I or II; Neuropathy in RA patients that have steroid or immunosupressive usage in previous 6 months; Marcaine, Methyl prednisolon, fenatanile sensitivity;Alcoholism;smoking/addiction;pregnant women

Age

From **40 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **82**

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

Tehran Univerisyt of Medical Sciences

Street address

TUMS Buliding- Ghods cross road, Keshavarz Blv- Tehran,Iran

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Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

901302138

Health conditions studied

1

Description of health condition studied

One sided intertrochanteric femur fracture

ICD-10 code

S 72-8

ICD-10 code description

Fractures of other parts of femur

Primary outcomes

1

Description

postoperative pain

Timepoint

at 4,6,12,24,36,48 hours after operation

Method of measurement

VAS

Secondary outcomes

1

Description

post operative neaseua and vomiting

Timepoint

post operative time

Method of measurement

via patients observation

Intervention groups

1

Description

Intervention in Trial group: intravenous 2 cc equal with 125 milligrams methylprednisolon (one dosage)

Category

Treatment - Drugs

2

Description

Intervention in Control group: 2 cc normal saline

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrateh Rasul Akram Hospital

Full name of responsible person

Hamid Reza Faiz M.D

Street address

Hazrateh Rasul Akram Hospital- Niayesh Street, Satarkhan- Tehran,Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

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Tehran

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Tehran 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