

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jul 2026

### Comparison of some parameters related to pain in patients with proximal femur fractures in both femoral nerve block methods using ultrasound guide and neural stimulation

#### Protocol summary

##### Summary

The aim of present study was to compare some parameters related to pain in patients with proximal femoral fractures in both femoral nerve block methods using ultrasound guide and neural stimulation. The inclusion criteria was all the patients with proximal femoral fracture aging between 18-80. The Exclusion criteria included patients with contraindications for administration of local anesthetics or opioids; lack of ability to respond to Visual Analog Scale for Pain;... . Patients were randomly divided into two groups. Femoral nerve block was performed in a group using ultrasound guide and in the other group with nerve stimulation technique. In both groups the duration of procedure of local block, time of beginning of effect of local anesthesia after injection, the rate of success, duration of block, the difference of pain after block (based on a visual analogue scale of pain), the amount of additional doses of opioids more than 0.1 mg per kg (in case of an insufficient response), the amount of morphine were evaluated in all patients and the results will compared in both groups. In our study, the blinding will performed on information monitoring committee.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015030221289N1**  
Registration date: **2015-12-02, 1394/09/11**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2015-12-02, 1394/09/11

#### Registrant information

##### Name

Akram Rohani Marvasti

##### Name of organization / entity

Ahvaz, Jundishapur University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 61 3391 7207

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#### Recruitment status

##### Recruitment complete

#### Funding source

Ahvaz, Jundishapur University of Medical Sciences

#### Expected recruitment start date

2014-06-22, 1393/04/01

#### Expected recruitment end date

2016-03-19, 1394/12/29

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Comparison of some parameters related to pain in patients with proximal femur fractures in both femoral nerve block methods using ultrasound guide and neural stimulation

#### Public title

The effect of sonography in femoral nerve block

#### Purpose

Diagnostic

#### Inclusion/Exclusion criteria

Inclusion criteria: all the patients with proximal femoral

fracture aging between 18-80 years old. Exclusion criteria: patients with contraindications for administration of local anesthetics or opioids; lack of ability to respond to Visual Analog Scale for pain; patients with cognitive disorder or GCS below 15; having a history of old fracture or metallic device in femur; addiction to opioids, chronic heart and lung disease; diabetes; coagulopathy; lack of response to local anesthesia.

**Age**

From **18 years** old to **80 years** old

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **50**

**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**

Ahvaz, Jundishapur University of Medical Sciences

**Street address**

Jundishapur University of Medical Sciences, Golestan highway, Ahvaz, Khuzestan

**City**

Ahvaz

**Postal code**

6135715794

**Approval date**

2014-06-16, 1393/03/26

**Ethics committee reference number**

1393.178

**Health conditions studied****1****Description of health condition studied**

Proximal femoral fracture

**ICD-10 code**

S72

**ICD-10 code description**

Fracture of femur

**Primary outcomes****1****Description**

Pain scale in femoral nerve block

**Timepoint**

0, 5, 15, 30 and 60 minutes after femoral nerve block

**Method of measurement**

Visual Analog Scale

**Secondary outcomes****1****Description**

Duration of procedure of local block, time of beginning of effect of local anesthesia after injection, the rate of success, duration of block, the amount of morphine

**Timepoint**

At the beginning and 60 minutes after the nerve block

**Method of measurement**

Monitor and measure

**Intervention groups****1****Description**

Femoral nerve block with ultrasound, 20 ml of 1% lidocaine, intravenous morphine simultaneously with 0.1 mg/kg morphine

**Category**

Treatment - Other

**2****Description**

Femoral nerve block with nerve stimulation, 20 ml of 1% lidocaine, intravenous morphine simultaneously with 0.1 mg/kg morphine

**Category**

Treatment - Other

**Recruitment centers****1****Recruitment center****Name of recruitment center**

Ahvaz Imam Khomeini Hospital

**Full name of responsible person**

Akram Rohani Marvasti

**Street address****City**

Ahvaz

**2**

**Recruitment center**

**Name of recruitment center**

Golestan hospital

**Full name of responsible person**

Akram Rohani Marvasti

**Street address**

**City**

Ahvaz

**Sponsors / Funding sources**

**1**

**Sponsor**

**Name of organization / entity**

Jundishapur University of Medical Sciences

**Full name of responsible person**

Akram Rohani Marvasti

**Street address**

Jundishapur University of Medical Sciences, Golestan highway, Ahvaz, Khuzestan

**City**

Ahvaz

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Jundishapur 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**

Ahvaz, Jundishapur University of Medical Sciences

**Full name of responsible person**

Akram Rohani Marvasti

**Position**

Resident

**Other areas of specialty/work**

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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*