

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison the analgesic and side effect of morphine with low dose intravenous ketamine in patient with musculoskeletal trauma injury

#### Protocol summary

##### Summary

Objective: Comparison the analgesic and side effect of morphine and intravenous ketamine in patient with musculoskeletal injury. Inclusion criteria: patients in the age range of 18-70 Years, Severe acute musculoskeletal pain between 6-10 VAS Exclusion criteria included : patient refusal addiction SBP<90 GCS<90 presence of cardiac, pulmonary , renal, psychiatric disease Pregnancy or breast feeding allergy to ketamine or morphine, require to CNC block inability to understand vas concepts The subjects consisted of patients with musculoskeletal trauma injury, referring to the emergency unit. According to statistical analyzez 300 patients are enroled the study. methods: patients are randomly divide into two groups. The group receiving morphine at a dose of 0.1 mg/kg and 3mg/kg are used for every 5 minute and the group receiving IV ketamine at a dose of 0.2 mg/kg. Finally, obtain information (decreasing pain severity and side effect) are evaluated and recorded after 0,30 and 60 second.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2015111024979N1**

Registration date: **2015-12-15, 1394/09/24**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2015-12-15, 1394/09/24

##### Registrant information

###### Name

Maryam Fattahi

###### Name of organization / entity

Iran University of Medical Sciences, Medicen Department

##### Country

Iran (Islamic Republic of)

##### Phone

+98 86701

##### Email address

rfateh@muq.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice Chancellor for research of Iran University of Medical Sciences

##### Expected recruitment start date

2014-06-05, 1393/03/15

##### Expected recruitment end date

2015-11-22, 1394/09/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison the analgesic and side effect of morphine with low dose intravenous ketamine in patient with musculoskeletal trauma injury

##### Public title

Comparison efficacy of morphine with low dose intravenous ketamine in patient with musculoskeletal trauma injury

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: patients in the age range of 18-70 Years, Severe acute musculoskeletal pain between 6-10 VAS Exclusion criteria included : patient refusal addiction SBP<90 GCS<90 presence of cardiac, pulmonary , renal,

psychiatric disease Pregnancy or breast feeding allergy to ketamine or morphine, require to CNC block inability to understand the vas concepts

#### Age

From **18 years** old to **70 years** old

#### Gender

Both

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **300**

#### 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

Ethics committee of Iran University of Medical Sciences

##### Street address

Shahid Hemmat freeway, next to Milad tower

##### City

Tehran

##### Postal code

1449614535

#### Approval date

2014-07-06, 1393/04/15

#### Ethics committee reference number

IR.IUMS,REC.1394.9211307021

## Health conditions studied

### 1

#### Description of health condition studied

Patients with musculoskeletal trauma injury

#### ICD-10 code

M95-M99

#### ICD-10 code description

Other disorders of the musculoskeletal system and connective tissue

## Primary outcomes

### 1

#### Description

Decreasing pain severity

#### Timepoint

0,30,60 minute after intervention

#### Method of measurement

Visual Analog Scale

## Secondary outcomes

### 1

#### Description

Itchy

#### Timepoint

0,30 60 minet after injection

#### Method of measurement

Researcher observation or patient discribe

## Intervention groups

### 1

#### Description

First intervention group: The group receiving IV morphine at a dose of 0.1 mg/kg of body weight

#### Category

Treatment - Drugs

### 2

#### Description

Second intervention:The group receiving IV ketamine at a dose of 0.2 mg/kg of body weight

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Eemergency Unit of Iran University Hospitals

##### Full name of responsible person

Maryam Fattahi

##### Street address

Iran University of Medical Sciences

##### City

Tehran

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice Chancellor for research of Iran University of

Medical Sciences

**Full name of responsible person**

Dr Mossavi

**Street address**

Shahid Hemmat freeway, next to Milad tower

**City**

Tehran

**Grant name**

**Grant code / Reference number**

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

Yes

**Title of funding source**

Vice Chancellor for research of Iran 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**

Iran University of Medical Sciences

**Full name of responsible person**

Maryam Fattahi

**Position**

Emergency Resident

**Other areas of specialty/work**

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**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*