

Clinical Trial Protocol

Iranian Registry of Clinical Trials

22 Jul 2026

Investigating the Analgesia and Sedation Effects of Ketamine Infusion and Intravenous Morphine in Reducing the Pain of Short and Long Bone Fractures of Upper or Lower Extremities

Protocol summary

Study aim

A Comparative Study on the Effects of Ketamine and Morphine Antinociception in Bone Fractures

Design

Clinical trial based on traumatic patients referred to Imam and Golestan Hospital, Ahwaz, Iran, randomized

Settings and conduct

Imam Khomeini Hospital and Golestan Hospital Ahvaz

Participants/Inclusion and exclusion criteria

The criteria for entering the study are all patients with aged 65-18 years old trauma who go directly to the emergency department. In this study, all people with any history of ketamine, morphine, evidence of abnormal brain such as hydrocephalus, microcephaly, lumps, evidence of increased intracranial pressure, seizure, apnea history, respiratory problems, airway problems, heart problems And vascular, history of severe brain trauma, no premeditated sedimentation and the need for a higher dose of the drug, and also if the patient is dissatisfied with the research.

Intervention groups

Investigating the effect of ketamine and morphine in the fracture of the bone

Main outcome variables

Analgesia, sedation

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20170716035105N3**

Registration date: **2018-04-09, 1397/01/20**

Registration timing: **retrospective**

Last update: **2018-04-09, 1397/01/20**

Update count: **0**

Registration date

2018-04-09, 1397/01/20

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 61 3374 1064

Email address

khalighi.a@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2016-03-20, 1395/01/01

Expected recruitment end date

2018-09-22, 1397/06/31

Actual recruitment start date

2016-03-20, 1395/01/01

Actual recruitment end date

2017-07-11, 1396/04/20

Trial completion date

empty

Scientific title

Investigating the Analgesia and Sedation Effects of Ketamine Infusion and Intravenous Morphine in Reducing the Pain of Short and Long Bone Fractures of Upper or Lower Extremities

Public title

The effect of analgesia and sedation of ketamine and morphine in bone fractures

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: The criteria for entering the study are all patients with aged 65-18 years old trauma who go directly to the emergency department. Exclusion criteria: In this study, all people with any history of ketamine, morphine hypersensitivity, evidence of abnormal brain such as hydrocephalus, microcephaly, lumps, evidence of increased intracranial pressure, seizure, apnea history, respiratory problems, airway problems, heart problems And vascular, history of severe brain trauma, no premeditated sedimentation and the need for a higher dose of the drug, and also if the patient is dissatisfied with the research. Age From 18 years old to 65 years old Gender Both Phase 2 Groups that have been masked • Participant • Care provider • Data analyser Sample size Target sample size: 120 Actual sample size reached: 166 Randomization (investigator's opinion) N/A Randomization description Blinding (investigator's opinion) Double blinded Blinding description Patients at a later stage, history, examination, and consent to withdraw from the project at any stage of the research will enter the project. In this study, the drugs are individually and in the same format, along with the way of prescribing the drug in similar boxes and placed in a secret box tank Possible side effects of medications have been made so that in case of any complications, the observer will be able to quickly take the patient out of the research and treat it. During the registration process all signs and symptoms will be made by the practitioner. After the completion of the process, the procedure will be announced to the organizer for review. Placebo Not used Assignment Other Other design features	Name of ethics committee Ethics Committee of Ahvaz Jundishapur University of Medical Sciences Street address Khuzestan.Hawaz, Golestan Highway, Jundishapur University of Ahvaz City ahvaz Province Khouzestan Postal code 64519 Approval date 2016-02-07, 1394/11/18 Ethics committee reference number ir.ajums.rec.1396.248
	Health conditions studied
<u>1</u> Description of health condition studied Investigating the fracture of long bones ICD-10 code ICD-10 code description	
Primary outcomes <u>1</u> Description 38/5000People with long bone fracture Timepoint Scoring the pain intensity at 0, 5, 15, 30, 60 Method of measurement questionnaire	
	Secondary outcomes empty
	Intervention groups
<u>1</u> Description Intervention group: Category Treatment - Drugs	
Recruitment centers <u>1</u> Recruitment center Name of recruitment center Ahvaz Imam Khomeini Hospital, Ahvaz Golestan Hospital Full name of responsible person Meysam Moezi Street address	
Secondary Ids empty	
Ethics committees <u>1</u> Ethics committee	

Imam Khomeini Hospital, Ahvaz Golestan Hospital,
Golestan Ave., 24th Street, Ahwaz

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Khouzestan

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meisam.moezzi@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

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Street address

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ahvaz University of Medical Sciences

Full name of responsible person

meisam mozzi

Position

Assistant Professor

Latest degree

Specialist

Other areas of specialty/work

Emergency Medicine

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Person responsible for updating data

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

Yes - There is a plan to make this available

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Yes - There is a plan to make this available

Informed Consent Form

Yes - There is a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

publish article

When the data will become available and for how long

2018

To whom data/document is available

Researchers working in academic institutions

Under which criteria data/document could be used

test k

From where data/document is obtainable

mehri.zahra08@gmail.com

What processes are involved for a request to access data/document

Notify by email or phone

Comments