

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

28 May 2026

### Comparison the effect of intranasal Ketamin versus intravenous Morphine on pain in patients with renal colic referring to the Emergency department of Khatam-ol-anbia hospital in Zahedan in 2018

#### Protocol summary

##### Study aim

1. Determine the relative mean patients with renal colic in separate groups 2. Determination of the mean pain score at 0, 30 and 60 minutes, based on the VAS scale in the two groups of ketamine and morphine 3. Determination and comparison of mean pain at 0, 5, 30 and 60 minutes, based on the VAS scale in two groups of ketamine and morphine in terms of age 4. Determine and compare the pain at 0, 5, 30, and 60 minutes, based on the VAS scale in the two groups of ketamine and morphine in terms of gender

##### Design

In this research, 100 patients with renal colic who have entering criteria referred to emergency department of Khatam-ol-Anbia Hospital in two intervention groups are included. Their allocation to the two groups of ketamine and morphine is based on random blocking. Phase 3 of the trial is used in this study.

##### Settings and conduct

Renal colic is the cause of a significant proportion of patients in hospital emergency and clinic emergency that is associated with severe pain. Usually, the nature of these pains despite being transient, it is very debilitating and intolerable to the patient. after initial diagnostic evaluations, since most urinary stones recover with anticipated treatment, the most important treatment priority In the acute stage, is to relieve pain. In this research, 100 patients with renal colic who have entering criteria referred to emergency department of Khatam-ol-Anbia Hospital in two intervention groups are included. Their allocation to the two groups of ketamine and morphine is based on random blocking. Phase 3 of the trial is used in this study.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: Uncontrollable pain due to renal colic that causes prescribing other painkillers; Not suffering from other underlying disease(Renal- cardiac -liver-DM);

age 20-50; No addiction; Not sensitivity to Morphine and ketamine and the lack of pharmaceutical contraindication Exclusion criteria: Pregnant and lactating women; Having blood pressure Dbp <90 and Sbp >80; Nasal congestion; respiratory distress; History of seizure ; History of GLAUCOMA; History of drug abuse

##### Intervention groups

1. Ketamine group: Ketamine will be injected 1 mg per kg into this group patients. 2. Morphine group: Morphine will be injected 0.1mg per kg into this group patients..

##### Main outcome variables

pain: will be measured by the vas scale.

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20171229038132N1**

Registration date: **2018-02-06, 1396/11/17**

Registration timing: **registered\_while\_recruiting**

Last update: **2018-02-06, 1396/11/17**

Update count: **0**

##### Registration date

2018-02-06, 1396/11/17

##### Registrant information

##### Name

Mohammad mehdi Saghhab torbati

##### Name of organization / entity

##### Country

Iran (Islamic Republic of)

##### Phone

+98 54 3322 0501

##### Email address

m.torbati@zaums.ac.ir

##### Recruitment status

**Recruitment complete****Funding source****Expected recruitment start date**

2018-01-29, 1396/11/09

**Expected recruitment end date**

2018-07-31, 1397/05/09

**Actual recruitment start date**

empty

**Actual recruitment end date**

empty

**Trial completion date**

empty

**Scientific title**

Comparison the effect of intranasal Ketamin versus intravenous Morphine on pain in patients with renal colic referring to the Emergency department of Khatam-ol-anbia hospital in Zahedan in 2018

**Public title**

Comparison the effect of drugs in patients with renal colic

**Purpose**

Prevention

**Inclusion/Exclusion criteria****Inclusion criteria:**

Uncontrollable pain due to renal colic that needing other prescription painkiller drugs Not suffering from other underlying disease (Renal, Cardiac, Liver, DM) Age 20-50 No drug addiction Not sensitivity to Morphine and Ketamine and the lack of pharmaceutical contraindication

**Exclusion criteria:**

Pregnant and lactating women Having blood pressure Dbp <90 and Sbp >80 Nasal congestion Respiratory distress History of Seizure History of Glaucoma History of drug abuse

**Age**

From **20 years** old to **50 years** old

**Gender**

Both

**Phase**

3

**Groups that have been masked**

- Participant
- Investigator

**Sample size**

Target sample size: **100**

**Randomization (investigator's opinion)**

N/A

**Randomization description**

After entering randomly blocked patients, patients are divided into two groups that will be matched for pain before medication and age and sex.

**Blinding (investigator's opinion)**

Not 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 Zahedan University of Medical Sciences

**Street address**

Zahedan University of Medical Sciences, Dr hesabi sq.

**City**

Zahedan

**Province**

Sistan-va-Balouchestan

**Postal code**

9816743463

**Approval date**

2017-12-21, 1396/09/30

**Ethics committee reference number**

IR. ZAUMS. REC.1396. 271

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

renal colic

**ICD-10 code**

N23

**ICD-10 code description**

Unspecified renal colic

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

The pain that will be measured by the Vas scale

**Timepoint**

The pain measurement will be measured at 0, 5, 15, 30 and 60 minutes after medication administration

**Method of measurement**

The Vas pain scale that has a score of 0 to 10

**Secondary outcomes**

empty

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

Intervention group1: In this group, Ketamine will be given as nasal for pain.

**Category**

Treatment - Drugs

**2****Description**

Intervention group2: In this group, Morphin will be injected for pain

**Category**

Treatment - Drugs

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

Khatam ol-Anbia Hospital in Zahedan City

**Full name of responsible person**

Aziz Allah Jahantigh

**Street address**

Khatam ol anbia hospital, Jame jam Boulevard

**City**

Zahedan

**Province**

Sistan-va-Balouchestan

**Postal code**

9815733169

**Phone**

+98 54 3322 0501

**Email**

aa\_jahantigh@yahoo.com

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Zahedan University of Medical Sciences

**Full name of responsible person**

Noormohammad Bakhshani

**Street address**

Zahedan University of Medical Sciences, Dr hesabi sq.

**City**

Zahedan

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**Phone**

+98 54 3329 5715

**Email**

bakhshani@zaums.ac.ir

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

Zahedan 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**

Zahedan University of Medical Sciences

**Full name of responsible person**

Mohammad Mehdi Saghab Torbati

**Position**

Resident of Medicine

**Latest degree**

Medical doctor

**Other areas of specialty/work**

Emergency Medicine

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**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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## Person responsible for updating data

### Contact

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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**

Only part of the information, such as the main outcome information, can be shared.

**When the data will become available and for how long**

Start the access period 6 months after printing the results

**To whom data/document is available**

Researchers working in academia

**Under which criteria data/document could be used**

Any use of the data will be subject to the permission of the project owners.

**From where data/document is obtainable**

Zahedan University of Medical Sciences

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

Documentation will be available after confirmation of the administrative request for the use of the project.

**Comments**