

Clinical Trial Protocol

Iranian Registry of Clinical Trials

08 Jun 2026

Comparing the effect of ketamine and remifentanil combination with ketamine and propofol combination on pain, agitation and hemodynamic changes in patients undergoing closed nasal bone reduction

Protocol summary

Study aim

The purpose of this study is to compare the effect of ketamine and remifentanil combination with ketamine and propofol on pain, agitation and hemodynamic changes in patients undergoing closed nasal bone reduction

Design

In this single-blind clinical trial, 70 patients who were candidates for closed nasal bone reduction using randomized 4-block method were assigned into two first and second intervention groups.

Settings and conduct

The site of this clinical trial is Kowsar Hospital in Sanandaj. The patients using randomized 4-block method were assigned to two first and second intervention groups. Patients did not know about blocking and were blinded.

Participants/Inclusion and exclusion criteria

Inclusion criteria included; ASA status of 1, the patient undergoes nose bone closed fracture reduction and age from 18 to 60 years old. Exclusion criteria included; history of hypertension, hyperthyroidism, mental disorders, history of coronary artery disease, and drug use.

Intervention groups

In the first intervention group, 0.75 mg/kg of ketamine and 2 µg/kg of remifentanil are injected for induction of anesthesia and in the second intervention group, 0.75 mg/kg ketamine and 1.5 mg/kg propofol are injected for induction of anesthesia.

Main outcome variables

The outcomes of this study included pain, agitation and hemodynamic changes.

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20181127041768N1**
Registration date: **2018-12-08, 1397/09/17**
Registration timing: **registered_while_recruiting**

Last update: **2018-12-08, 1397/09/17**

Update count: **0**

Registration date

2018-12-08, 1397/09/17

Registrant information

Name

Azade Fathi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 87 3328 2002

Email address

a.fathi@muk.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-08-23, 1397/06/01

Expected recruitment end date

2018-12-22, 1397/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the effect of ketamine and remifentanil

combination with ketamine and propofol combination on pain, agitation and hemodynamic changes in patients undergoing closed nasal bone reduction

Public title

Evaluating the effect of ketamine and remifentanyl combination with ketamine and propofol on pain and agitation

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

ASA status equal to 1 The patient undergoes nose bone closed fracture reduction Age from 18 to 60 years old.

Exclusion criteria:

History of Hypertension Hyperthyroidism Mental disorders History of coronary artery disease Drug use

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

Patients were selected using randomized 4-block method

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients were not aware of the grouping.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Kurdistan University of Medical Sciences

Street address

Pasdaran St., Kurdistan University of Medical Sciences, Sanandaj, Iran

City

Sanandaj

Province

Kurdistan

Postal code

66177-13446

Approval date

2018-03-14, 1396/12/23

Ethics committee reference number

IR.MUK.REC.1396/374

Health conditions studied

1

Description of health condition studied

Postoperative Pain

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

pain

Timepoint

After surgery in the recovery room and every 15 minutes to 2 hours.

Method of measurement

Based on Numeric Rating Scale

2

Description

Agitation

Timepoint

After surgery in the recovery room and every 15 minutes to 2 hours.

Method of measurement

Based on Richmond Agitation-Sedation Scale

3

Description

Hypertension

Timepoint

Every 15 Minutes

Method of measurement

Using the vital signs monitoring device

4

Description

Heart rate

Timepoint

Every 15 Minutes

Method of measurement

Using the vital signs monitoring device

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: In the first intervention group, 0.75 mg/kg of ketamine and 2 µg/kg of remifentanyl are injected for induction of anesthesia.

Category

Treatment - Surgery

2

Description

Intervention group: In the second intervention group, 0.75 mg/kg ketamine and 1.5 mg/kg propofol are injected for induction of anesthesia.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

2

Recruitment center

Name of recruitment center

Kowsar hospital

Full name of responsible person

Azadeh Fathi

Street address

Pasdaran St., Kowsar hospital, Sanandaj, Iran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Ebrahim Ghaderi

Street address

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ebrahimghaderi@yahoo.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Sanandaj 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

Sanandaj University of Medical Sciences

Full name of responsible person

Azadeh Fathi

Position

Resident of Anesthesiology

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Sanandaj University of Medical Sciences

Full name of responsible person

Farzad Sarshivi

Position

Associate professor

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

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

Yes - There is a plan to make this available

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Yes - There is a plan to make this available

Analytic Code

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

Part of data on the primary outcomes will be shared.

When the data will become available and for how long

Six months after the publication of the results data access is possible.

To whom data/document is available

Academic researchers

Under which criteria data/document could be used

Meta-analysis is allowed.

From where data/document is obtainable

Dr. Azadeh Fathi via email: A.fathai@muk.ac.ir

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

Three months after the request, the data will be sent.

Comments**Person responsible for updating data****Contact****Name of organization / entity**

Sanandaj University of Medical Sciences

Full name of responsible person

Azadeh Fathi

Position

Resident of Anesthesiology

Latest degree

Medical doctor

Other areas of specialty/work

Anesthesiology

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