

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effect of ketamine in preventing propofol injection pain in patients who taking general anesthesia with propofol induction- A ranomized clinical trial

Protocol summary

Summary

The goal of this investigation was the study of alleviating effect of ketamin on the propofol injection pain. 168 patients who were candidate for general anesthesia with propofol induction enrolled in the study. Patients with positive history of central neurological, cardiac, renal and hepatic disease were excluded. Patients assigned into 6 groups randomly group 1: received ketamin 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vein on the forearm Group 2: the same as group 1 but propofol injected through a vein on the dorsum of the hand. Group3: 0.1 mg/kg ketamin administered without tourniquet application after 30 seconds propofol injected through a vein on the forearm. Group 4: the same as group 3 but propofol injected through a vein on the dorsum of the hand. Group 5 and 6 were control groups when the propofol was injected without pre injection of ketamin through a vein on the forearm and dorsum of the hand respectively. The pain of propofol injection was scored by verbal response scoring system (VRS) for adult patient and Children's Hospital of Eastern Ontario Pain Scale (CHEOPS) applied for patients under 12 years old.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201302177093N4**

Registration date: **2013-12-22, 1392/10/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-12-22, 1392/10/01

Registrant information

Name

Mohsen Saber Moghadamranjbar

Name of organization / entity

North khorasan University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

North khorasan University Of Medical Sciences-Student Research Committee

Expected recruitment start date

2012-06-21, 1391/04/01

Expected recruitment end date

2013-04-21, 1392/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of ketamine in preventing propofol injection pain in patients who taking general anesthesia with propofol induction- A ranomized clinical trial

Public title

The effect of ketamine in prevention of pain from propofol injection

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion Criteria:ASA Class 1,2;Candidate Of General Anesthesia With Propofol Injection Exclusion Criteria : Epilepsy;Known Cardiovascular Disease; Known Neurological Disease;GCS<15;Sensitivity History;Opioid And Sedative Drug As Premedication

Age

From **2 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **168**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee Of North Khorasan University Of Medical Sciences

Street address

Deputy Of Research And Technology, Berenji Line, South Shariat

City

Bojnurd

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

90361پ

Health conditions studied

1

Description of health condition studied

propofol injection pain

ICD-10 code

Y48.1

ICD-10 code description

Parenteral anaesthetics

Primary outcomes

1

Description

propofol injection pain

Timepoint

During Drug Injection

Method of measurement

Verbal Response Scale

Secondary outcomes

empty

Intervention groups

1

Description

received ketamine 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vein on the dorsum of the hand .

Category

Treatment - Drugs

2

Description

received ketamine 0.1 mg/kg while a tourniquet had been applied 10 cm above the injection site and after 30 seconds tourniquet was released and propofol injected through a vein on the dorsum of the hand .

Category

Treatment - Drugs

3

Description

0.1 mg/kg ketamine administered without tourniquet application after 30 seconds propofol injected through a vein on the forearm.

Category

Treatment - Drugs

4

Description

0.1 mg/kg ketamine administered without tourniquet application after 30 seconds propofol injected through a vein on the dorsum of the hand.

Category

Treatment - Drugs

5

Description

propofol injected without pre injection of ketamine through a vein on the forearm.

Category

Other

6

Description

propofol injected without pre injection of ketamine through a vein on the dorsum of the hand.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Ali Hospital

Full name of responsible person

Dr Sabermoghadam

Street address

Shahriar Street - Imam Ali Hospital

City

Bojnourd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

North Khorasan University Of Medical Sciences

Full name of responsible person

akaberi arash

Street address

Berenji Line, South Shariati

City

Bojnourd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

North Khorasan 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

North Khorasan University of Medical Sciences,
Bojnurd, Iran

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Position

Assistant Professor

Other areas of specialty/work

Street address

Shahriar street

City

Bojnourd

Postal code

Phone

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Fax

Email

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