Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of Pethidine with Ketamine in the Treatment of Postoperative Shivering after ENT surgery

Protocol summary

Summary

The aim of this study is to compare Pethidine with Ketamine in treatment of postoperative shivering after ENT surgery. Inclusion criteria were ENT surgeries with general anesthesia and the exclusion criteria were receiving blood products or Metoclopramid, Obesity or hypertension. 90 patients, aged 15-50 years, (45 patients in each of the pethidine and ketamine group) who had developed 3-4 shivering in the recovery room were recruited in a prospective, randomized double blind study and randomly allocated to receive pethidine 25 mg, or ketamine 0/2 mg/kg, intravenously. Intensity of shivering was assessed from the first to tenth minute.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138903034005N1**
Registration date: **2010-09-18, 1389/06/27**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2010-09-18, 1389/06/27

Registrant information

Name

Khosro Kolahdouzan

Name of organization / entity

Faculty of Paramedical Tabriz University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 41 1334 4777

Email address

kolahdozank@tbzmed.ac.ir

Recruitment status

Recruitment complete

Funding source

Tabriz University of Medical Sciences

Expected recruitment start date

2010-03-21, 1389/01/01

Expected recruitment end date

2011-03-20, 1389/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Pethidine with Ketamine in the Treatment of Postoperative Shivering after ENT surgery

Public title

Comparison of Pethidine with Ketamine in the Treatment of Postoperative Shivering

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: ENT surgeries with general anesthesia
Exclusion criteria: receiving blood products or Metoclopramide, Obesity, hypertension

Age

From **15 years** old to **50 years** old

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: **90**

Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tabriz University of Medical Sciences
Street address
Tabriz University of Medical Sciences
City
Tabriz
Postal code
Approval date
2010-02-22, 1388/12/03
Ethics committee reference number
886

Health conditions studied

1

Description of health condition studied
Postoperative Shivering
ICD-10 code
T88.5
ICD-10 code description
Other complications of anesthesia

Primary outcomes

1

Description
Shivering
Timepoint
every minute for 10 minutes.
Method of measurement
Standard questionnaire

Secondary outcomes

empty

Intervention groups

1

Description
ketamin 0.2mg/kg IV - after Appearance of shivering in recovery room
Category
Treatment - Drugs

2

Description
Petidine 25 mg- IV - after Appearance of shivering in recovery room
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Emam Reza Hospital- Tabriz
Full name of responsible person
Dr Mahmoud Eidi
Street address
Tabriz
City
Tbriz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Tabriz University of Medical Sciences
Full name of responsible person
Research Assistant
Street address
Tabriz University of Medical Sciences
City
Tabriz
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Tabriz 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

Person responsible for scientific inquiries

Contact

Name of organization / entity
Tabriz University of Medical Sciences

Full name of responsible person
Dr Mahmoud Eidi

Position
Associate Professor of Anesthesiology

Other areas of specialty/work

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Emam RezaHospital

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eidy@tbzmed.ac.ir

Web page address

Person responsible for updating data

Contact

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