

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

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

Protocol summary

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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.

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

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

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**Street address**

Emam RezaHospital

City

Tabriz

Postal code**Phone**

+98 41 1334 7054

Fax**Email**

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