

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

13 Jun 2026

### Comparison of ondansetrone and meperedin for treatment of post anaesthesia shivering - A randomized controlled clinical trial

#### Protocol summary

##### Summary

The objective of the present study is to compare the effectiveness of meperidine and ondansetron in the treatment of post-anesthesia shivering. A total of 200 patients who meet eligibility criteria and develop shivering after general or regional anesthesia will be recruited and assigned to receive meperidine 4 mg/kg, Ondansetron, 4 mg, or Normal Saline 4 cc. Primary outcome is stop of shivering and adverse effects during recovery stay and also adverse effects related to study drugs.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201107237093N1**  
Registration date: **2011-09-11, 1390/06/20**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2011-09-11, 1390/06/20

##### Registrant information

##### Name

Mohsen Saber Moghadamranjbar

##### Name of organization / entity

North khorasan University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 58 4229 7069

##### Email address

sabermoghadam41@nkh-cms.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

North khorasan University Of Medical Sciences

##### Expected recruitment start date

2011-08-23, 1390/06/01

##### Expected recruitment end date

2011-12-31, 1390/10/10

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of ondansetrone and meperedin for treatment of post anaesthesia shivering - A randomized controlled clinical trial

##### Public title

comparing the effect of meperidine and ondansetron in treatment of post anesthesia shivering

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: ASA 1 and 2; age 18-65; uncomplicated surgery and anesthesia; all types of surgery; all types of anesthesia Exclusion criteria: complicated anesthesia and surgery; required blood transfusion; taking drugs in pre-anesthesia period (ondansetron, pethedine); opium based anesthesia; addiction; pre-anesthesia hypothermia (less than 36c) or hyperpyrexia (more than 38c); obesity (more than 100kg or BMI more than 35); hypo or hyperthyroidism; parkinson; Reynaud syndrome and diagnosis of dysautonomia; post-operative hypotension more than 20%; known allergy to ondansetron or pethedin; post operative nausea & vomiting; taking benzodiazepines in recovery room

##### Age

From **18 years** old to **65 years** old

##### Gender

Both

## Phase

3

## Groups that have been masked

No information

## Sample size

Target sample size: 200

## Randomization (investigator's opinion)

Randomized

## Randomization description

## Blinding (investigator's opinion)

Double blinded

## Blinding description

## Placebo

Used

## Assignment

Other

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

North khorasan University Of Medical Sciences Ethics Committee

##### Street address

South Shariati 7, Deputy Of Education, North khorasan University Of Medical Sciences, Bojnurd

##### City

Bojnurd

##### Postal code

#### Approval date

2010-11-23, 1389/09/02

#### Ethics committee reference number

89/p/182

## Health conditions studied

### 1

#### Description of health condition studied

post anesthesia shivering

#### ICD-10 code

Y60, Y69

#### ICD-10 code description

Misadventures to patients during surgical and medical care

## Primary outcomes

### 1

#### Description

post anesthesia shivering

#### Timepoint

continuously during recovery stay

#### Method of measurement

Questionnaire

## Secondary outcomes

### 1

#### Description

response to treatment

#### Timepoint

immediately after injection of drugs

#### Method of measurement

inspection- questionnaire

## Intervention groups

### 1

#### Description

Intervention group1: meperedine 4mg/kg=4cc

#### Category

Treatment - Drugs

### 2

#### Description

Intervention group 2: ondansetron 4mg=4cc

#### Category

Treatment - Drugs

### 3

#### Description

Control group: normal saline 4 cc

#### Category

Placebo

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Imam Ali Hospital

##### Full name of responsible person

Dr Mohsen Sabermoghdam

##### Street address

Imam ali Hospital

##### City

Bojnurd

### 2

#### Recruitment center

##### Name of recruitment center

Bentolhoda Hospital

##### Full name of responsible person

##### Street address

##### City

Bojnurd

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

North khorasan University Of Medical Sciences

**Full name of responsible person**

Hamid Hoseini

**Street address**

South Shariati 7- Deputy Of Education And Research

**City**

Bojnurd

**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**

Imam Ali Hospital

**Full name of responsible person**

Dr Mohsen Sabermoghadam

**Position**

Assistant Professor-Anesthesiologist

**Other areas of specialty/work**

**Street address**

Imam Ali Hospital

**City**

Bojnurd

**Postal code**

**Phone**

+98 58 4224 6739

**Fax**

+98 58 4224 6739

**Email**

sabermoghadam41@gmail.com

**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

Imam Ali Hospital

**Full name of responsible person**

Dr Mohsen Sabermoghadam

**Position**

Assistant Professor-Anesthesiologist

**Other areas of specialty/work**

**Street address**

Imam Ali Hospital

**City**

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**Phone**

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**Email**

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**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*