

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

30 Jun 2026

### Comparing the effect of dexamethasone, ondansetron and magnesium sulfate on post operation shivering in general anesthesia after orthopedic surgery

#### Protocol summary

##### Summary

The aim of this study was to compare the effects of three intravenous dexametasonone, ondansetron and magnesium sulfate on shivering after general anesthesia in orthopedic surgery. The study was carried out on 90 patients referred for elective surgery under general anesthesia in orthopedic surgery. Patients were randomly allocated into the three groups of ondansetron, dexametasonone, and magnesium sulfate. Patients received injection of dexametasonone 8 mg, ondansetron 8 mg and 30 mg/kg of magnesium sulfate 2 hours before surgery. After injection, we were measured shivering in recovery.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2012100510340N7**

Registration date: **2012-11-13, 1391/08/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2012-11-13, 1391/08/23

##### Registrant information

###### Name

Mohammad Aryaie

###### Name of organization / entity

Golestan University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 911 277 1798

###### Email address

aryaie@goums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Golestan University of Medical Sciences

##### Expected recruitment start date

2010-05-18, 1389/02/28

##### Expected recruitment end date

2012-03-10, 1390/12/20

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparing the effect of dexamethasone, ondansetron and magnesium sulfate on post operation shivering in general anesthesia after orthopedic surgery

##### Public title

The comparison of three drugs, Ondansetron, Dexametasonone and Magnesium Sulfate

##### Purpose

Prevention

##### Inclusion/Exclusion criteria

Inclusion Criteria: age of 18 to 55 years; ASA1, 2; none shivering before surgery. Exclusion Criteria: Hypertension; allergies to medicines, ondansetron, sufentanil, and magnesium sulfate; Drug addiction; cerebrovascular disease.

##### Age

From **18 years** old to **55 years** old

##### Gender

Both

##### Phase

2-3

##### 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

Golestan university of medical sciences

##### Street address

Golestan University of Medical Sciences, Gorgan road  
2 km Sari

##### City

Gorgan

##### Postal code

#### Approval date

2010-05-08, 1389/02/18

#### Ethics committee reference number

01389.02.018

## Health conditions studied

### 1

#### Description of health condition studied

Shivering

#### ICD-10 code

T80-T88

#### ICD-10 code description

Complications of surgical and medical care, not  
elsewhere classified

## Primary outcomes

### 1

#### Description

shivering

#### Timepoint

after surgery

#### Method of measurement

observation

## Secondary outcomes

### 1

#### Description

pain

#### Timepoint

after surgery

#### Method of measurement

VAS (Visual Analog Scale)

## Intervention groups

### 1

#### Description

8 mg dexamethasone IV

#### Category

Treatment - Drugs

### 2

#### Description

8 mg Ondanstrone IV

#### Category

Treatment - Drugs

### 3

#### Description

30 mg/kg Magnesium Sulfate IV

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Golestan university of medical sciences

##### Full name of responsible person

##### Street address

##### City

Gorgan

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Golestan university of medical sciences

##### Full name of responsible person

Mohammad Ali Vakili

##### Street address

Golestan university of medical sciences, third floor

##### City

Gorgan

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor

**organization/entity?**

Yes

**Title of funding source**

Golestan 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**

anesthesiology Community

**Full name of responsible person**

Kazem Kazem nejad

**Position**

anesthesiology

**Other areas of specialty/work****Street address**

fifth Azar hospatil, fifth street, kakh sq.

**City**

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+98 17 1442 1651

**Fax****Email**

kazenejad1341@yahoo.com

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Golestan university of medical sciences

**Full name of responsible person**

Mohamad Aryaie

**Position**

Master

**Other areas of specialty/work****Street address**

Golestan university of medical sciences, third floor

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+98 17 1442 4377

**Fax****Email**

Aryaie\_m2009@yahoo.com

**Web page address****Person responsible for updating data****Contact****Name of organization / entity****Full name of responsible person**

Amin Hassanzad

**Position**

Bachelor

**Other areas of specialty/work****Street address****City****Postal code****Phone****Fax****Email**

hassanzad\_amin@yahoo.com

**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*