

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**

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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**

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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