

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of prophylactic antiemetic effect of Granisetron, Dexamethasone and Metoclopramide in surgical procedures under general anesthesia

Protocol summary

Summary

In this study 183 men who were candidate for orthopedic surgeries, in the range of 16 to 65 years old, were evaluated. These patients are in ASA I and II classes. According to their visit order, they randomly pick a number from 1 to 183, which are in a basket. In order to the numbers they were divided into three equal groups (n=61). The first group took 3 mg Granisetron, the second one took 8 mg Dexamethasone and the third one took 10 mg Metoclopramide intravenous before anesthesia. During 8 hours after operation, nausea and vomiting were evaluated. Both patients and data analysts were unaware of the preoperative medication of each patient in this study. In all patients, the induction of anesthesia was performed with 2.5 mg/kg propofol, 0.6 mg/kg atracurium, 100 mcg fentanyl and 2 mg midazolam. After intubation, anesthesia maintenance was performed with 1.2 MAC isoflurane and O2 (7 lit/min). All patients received 0.1 mg/kg morphine as a long acting analgesic drug. N2O was not used for the patients.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015042715281N3**
Registration date: **2015-11-23, 1394/09/02**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-11-23, 1394/09/02

Registrant information

Name

Seyedebrahim Sadeghi

Name of organization / entity

Shiraz University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Research Committee of Shiraz University of Medical Sciences; International Branch

Expected recruitment start date

2015-05-22, 1394/03/01

Expected recruitment end date

2015-09-21, 1394/06/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of prophylactic antiemetic effect of Granisetron, Dexamethasone and Metoclopramide in surgical procedures under general anesthesia

Public title

Comparison of prophylactic antiemetic effect of three medicines in surgical procedures

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: men who were candidate for orthopedic surgeries, in the range of 16 to 65 years -old,

were evaluated. The patients who are in ASA I, II classes. Patients who use antiemetic drugs 48 hours before operation and who had post operative nausea and vomiting record in previous surgeries, patients with motion sickness, migraine, diabetes mellitus and smokers were not included. Exclusion criteria: patients who were discharged immediately after recovery.

Age

From **16 years** old to **65 years** old

Gender

Male

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **183**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Shiraz University of Medical Sciences

Street address

Central Building of Shiraz University of Medical Sciences, Karimkhane zand Blvd. Shiraz

City

Shiraz

Postal code

7134814336

Approval date

2015-03-07, 1393/12/16

Ethics committee reference number

ct-2015-253

Health conditions studied

1

Description of health condition studied

Complications of anaesthesia

ICD-10 code

T88.5

ICD-10 code description

Other complications of anaesthesia

Primary outcomes

1

Description

Nausea and vomiting

Timepoint

During 2 hours in recovery and 6 hours in surgical ward

Method of measurement

Fill questionnaire and visual scale

Secondary outcomes

1

Description

Age

Timepoint

Before operation

Method of measurement

Fill questionnaire

2

Description

Weight

Timepoint

Before operation

Method of measurement

Balance

Intervention groups

1

Description

3 mg granisetron intravenous

Category

Prevention

2

Description

8 mg dexamethasone intravenous

Category

Prevention

3

Description

10 mg metoclopramide intravenous

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Marvdasht Shahid Motahhari Hospital

Full name of responsible person

Seyed Ebrahim Sadeghi

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Shahid Motahhari Hospital, Moallem Sq. Marvdasht

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Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, International Branch of Shiraz University of Medical Sciences

Full name of responsible person

Mohammad Reza Panjeshahin

Street address

Central Office of International Branch of Shiraz University of Medical Sciences, No 24, Jihad sazandegi st. Azadi Sq. shiraz

City

Shiraz

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice chancellor for research, International Branch of Shiraz 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

Shiraz University of Medical Sciences

Full name of responsible person

Seyed Ebrahim Sadeghi

Position

Assistant professor

Other areas of specialty/work

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Department of Anesthesiology, Shahid Motahhari Hospital, Moallem Sq. Marvdasht

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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