

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

29 May 2026

### effect of granisetron on preventing of shivering during and after spinal anesthesia for cesarean delivery

#### Protocol summary

##### Summary

The aim of this study is to investigate the effect of Granisetron to preventing of shivering during and after of spinal anesthesia for Caesarean section . This study is a double blind clinical trial on 60 female patients undergoing non-emergency elective cesarean section. Patient temperature, operating room temperature and tympani measured and recorded during surgery. Standard monitoring for all patients, including MAP, DBP, SBP, HR and ECG continuously since before anesthesia until the transfer is done. Spinal anesthesia induces with Quincke 25-gauge spinal anesthesia needle at L3-L4 space using 5/12 mg of Marcaine 5/0% for all patients. Immediately after spinal ansthesia granisetron is administered to the patients in the study group and the placebo to control group. If the pressure (SBP) below 100mm Hg ephedrine 5mg IV is administrate. In case of bradycardia (PR <50/min) 0/5mg IV atropine is injected to the patient. Granisetron common side effects (headache, drowsiness, diarrhea) is recorded. Patient temperature results is recorded at specified time. inclusion criteria: age 18\_40 years old; undergoing spinal anesthesia for cesarean delivery. exclusion criteria: hyperthyroidism; cardiopulmonary diseases; history of drug abuse.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT201008214583N2**

Registration date: **2013-08-31, 1392/06/09**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2013-08-31, 1392/06/09

#### Registrant information

##### Name

Hossein Moshtaghion

##### Name of organization / entity

Yazd University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 35 1525 0207

##### Email address

moshtaghion@ssu.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Shahid Sadoughi University of Medical Sciences

#### Expected recruitment start date

2013-03-20, 1391/12/30

#### Expected recruitment end date

2013-03-20, 1391/12/30

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

effect of granisetron on preventing of shivering during and after spinal anesthesia for cesarean delivery

#### Public title

effect of granisetron on preventing of shivering during and after spinal anesthesia for cesarean delivery

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

inclusion criteria: age 18\_40 years old; undergoing spinal anesthesia for cesarean delivery. exclusion criteria: hyperthyroidism; cardiopulmonary diseases; history of drug abuse.

**Age**

From **18 years** old to **40 years** old

**Gender**

Female

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **60**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Double blinded

**Blinding description****Placebo**

Used

**Assignment**

Parallel

**Other design features****Secondary Ids**

empty

**Ethics committees****1****Ethics committee****Name of ethics committee**

School of Medicine, Shahid Sadoughi University of  
Medical Sciences and Health

**Street address**

yazd international pardis

**City**

yazd

**Postal code****Approval date**

2013-06-22, 1392/04/01

**Ethics committee reference number**

9101

**Health conditions studied****1****Description of health condition studied**

shivering after spinal anesthesia

**ICD-10 code**

E35.8

**ICD-10 code description**

Disorders of other endocrine glands in diseases classified  
elsewhere

**Primary outcomes****1****Description**

shivering during and after spinal anesthesia

**Timepoint**

each 10 min during surgery until recovery

**Method of measurement**

by thermometer

**Secondary outcomes****1****Description**

core body temperature

**Timepoint**

each 10 min during surgery until recovery

**Method of measurement**

by thermometer

**Intervention groups****1****Description**

placebo

**Category**

Treatment - Drugs

**2****Description**

Granisetron

**Category**

Treatment - Drugs

**Recruitment centers****1****Recruitment center****Name of recruitment center**

operating room, shahid sadoughi hospital

**Full name of responsible person**

dr moshtaghion

**Street address****City**

yazd

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

shahid sadoughi medical science university

**Full name of responsible person**

dr hassan mozaafari

**Street address**

bahonar square

**City**

yazd

**Grant name****Grant code / Reference number**

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

Yes

**Title of funding source**

shahid sadoughi medical science university

**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**

Shahid Sadoughi University of Medical Sciences

**Full name of responsible person**

dr s. hossein moshtaghion

**Position**

associate Professor of anesthesiology

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**Position**

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+98 35 1822 4000

**Fax****Email**

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**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*