

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 mozaffari

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

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

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

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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