Clinical Trial Protocol
Iranian Registry of Clinical Trials

09 Nov 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
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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
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Person responsible for updating data

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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