

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Jul 2026

Comparing the Prophylactic Effect of Intravenous Ondansetron And Granisetron On Pruritus after Intrathecal Morphine in Elective Cesarean Surgery

Protocol summary

Summary

The appearance of pruritus is frequent after use of intrathecal morphine, especially after cesarean section. This pruritus is often difficult to treat and responds poorly to conventional treatments to comparing the prophylactic effect of intravenous ondansetron and granisetron on pruritus after intrathecal morphine in elective cesarean surgery, in randomized, double-blind clinical study 90 pregnant women that candidate for elective caesarean section with intrathecal morphine entered the study. Patients were divided into three groups, and the same procedure was performed to spinal anesthesia. Before spinal anesthesia group one received 8 mg ondansetron, group two received 3mg granisetron and group 3 received 4mg normal salin. After operative, pruritus were assessed with a visual analog scale

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014092219252N1**
Registration date: **2014-10-05, 1393/07/13**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-10-05, 1393/07/13

Registrant information

Name

Sara Kohani

Name of organization / entity

Ahwaz Jondishapur University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1221 6504

Email address

kohani.s@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Ahwaz Jondishapur University of Medical Sciences

Expected recruitment start date

2014-03-12, 1392/12/21

Expected recruitment end date

2014-07-12, 1393/04/21

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparing the Prophylactic Effect of Intravenous Ondansetron And Granisetron On Pruritus after Intrathecal Morphine in Elective Cesarean Surgery

Public title

Effect of Ondansetron and Granisetron For The Prevention Of Pruritus In Patients Undergoing Cesarean Section

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Women undergoing elective cesarean section with spinal anesthesia. Exclusion criteria: Drug addiction; history of allergy to ondansetron, granisetron and morphine; electrolyte abnormalities; history of pruritic skin diseases and other systemic diseases.

Age

From **18 years** old to **45 years** old

Gender

Female

Phase

N/A

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**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics Committee of Ahwaz Jondishapour University
Of Medical Sciences

Street address

Ethics Committee of Ahwaz Jondishapour University
Of Medical Sciences, Golestan Blvd., Ahwaz

City

Ahwaz

Postal code**Approval date**

2014-05-07, 1393/02/17

Ethics committee reference number

ajums.REC.1393.176

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

Pruritus

ICD-10 code

L29.9

ICD-10 code description

Pruritus, unspecified

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

pruritus

Timepoint

3, 6 and 18 hour after intrathecal morphine

Method of measurement

visual analog scale

Secondary outcomes

empty

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

Group1: injection 8 mg ondansetron before intrathecal morphine

Category

Prevention

2**Description**

Group2: injection 3mg granisetron before intrathecal morphine

Category

Prevention

3**Description**

Group3: injection 4mg normal salin before intrathecal morphine

Category

Placebo

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

Emam Khomeini Hospital

Full name of responsible person

Sara Kohani

Street address

Emam Khomeini Hospital, Shahid Ahvazian, Ahvaz

City

Ahwaz

2**Recruitment center****Name of recruitment center**

Razi Hospital

Full name of responsible person

Sara Kohani

Street address

Razi Hospital, Felestin St, Ahvaz

City

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahwaz Jondishapour University of Medical Sciences

Full name of responsible person

Reza Malekzadeh

Street address

Ahwaz Jondishapour University of Medical Sciences,
Golestan Blvd., Ahwaz

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Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Ahwaz Jondishapour 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**

Ahwaz Jondishapour University of Medical Sciences

Full name of responsible person

Sara Kohani

Position

Resident Of Anesthesiology

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

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Pain Research Center

Full name of responsible person

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Anesthesia Technician

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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