

Clinical Trial Protocol

Iranian Registry of Clinical Trials

03 Jul 2026

Comparison of headache prevalence and intensity following administration of ephedrine and phenylephrine in cesarean section under spinal anesthesia

Protocol summary

Summary

This investigation is designed as a unicenter, phase 2-3 clinical trial. 105 single fetus pregnant women who are candidate for elective cesarean, 18 to 40 years old, ASA class I-II with systolic blood pressure 120-140 mmhg will enter the trial. In all patients anesthetic approach is spinal block with bupivacaine 0.5%. In patients with hypotention that need to treat with vasopressor, randomly phenylephrine or ephedrine will prescribed. Changes of blood pressure, heart rate, type and amount of vasopressor and severity of headache (visual analogue scale) is measured and recorded by anesthesia nurse who will blind with the type of the group and vasopressor.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201509042946N7**

Registration date: **2016-12-07, 1395/09/17**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2016-12-07, 1395/09/17

Registrant information

Name

Mitra Yari

Name of organization / entity

Kermanshah University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Kermanshah University of Medical Sciences

Expected recruitment start date

2016-08-21, 1395/05/31

Expected recruitment end date

2017-02-18, 1395/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of headache prevalence and intensity following administration of ephedrine and phenylephrine in cesarean section under spinal anesthesia

Public title

comparison of headache accuracy and severity after use of phenylephrine and ephedrine for treatment of hypotention during cesarian delivery under spinal anesthesia

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: Pregnant women aged 18 to 40 years; ASA class I_II; systolic blood pressure 120-140 mmhg; body mass index 18.5_25 and normal single fetus pregnancy. Exclusion criteria: History of migraine; psychiatric disorders; any medication except pregnancy supplements; presence of headache in admission time to operation room; eclampsia; preeclampsia; hypertension; diabetes mellitus and cardiovascular disease.

Age

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

Gender

Female

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **105**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Drug preparation will done by an anesthetic nurse. Drug prescription will done by second and evaluation of accuracy and severity of headache will done by third nurse. All of nurses and patients will blinded with type of vasopressor. Randomization will done in allocation of patients to two drug groups (phenylephrine and ephedrine).

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

ethics committee of Kermanshah University of Medical Sciences

Street address

No. 2 building of Medical University, Shahid Beheshti boulevard

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kermanshah

Postal code

00988334276310

Approval date

2015-08-18, 1394/05/27

Ethics committee reference number

KUMS.REC.1394.52

Health conditions studied

1

Description of health condition studied

headache

ICD-10 code

G44.4

ICD-10 code description

Drug-induced headache, not elsewhere classified

Primary outcomes

1

Description

headache incidence and intensity

Timepoint

during cesarean, 1, 6, 24 hours later

Method of measurement

by visual analogue scale

Secondary outcomes

1

Description

vital sign changes

Timepoint

every 2 minute until 10minute then every 5 minute

Method of measurement

by datascop monitor

Intervention groups

1

Description

Ephedrine ampule 10 mcgr, Intravenous, repeated until hemodynamic stability

Category

Prevention

2

Description

Phenylephrine ampule 50 mcgr, Intravenous, repeated until hemodynamic stability in the first case group

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Imam Reza Hospital

Full name of responsible person

Dr. Mitra Yari

Street address

Parastar boulevard, Sorkhalijeh

City

kermanshah

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for reasearch ,Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Farid Najafi

Street address

Imam Reza Hospital, Parastar boulevard, Sorkhalijeh

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kermanshah

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

Yes

Title of funding source

Vice chancellor for reasearch ,Kermanshah 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**

Kermanshah University of Medical Sciences

Full name of responsible person

Dr. Mitra Yari

Position

assistant professor, anesthesiologist

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Person responsible for updating data

Contact

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