Clinical Trial Protocol
Iranian Registry of Clinical Trials

17 Sep 2026

Sequential compression pump effect on hypo tension due to spinal anesthesia during cesarean section

Protocol summary

Summary

The purpose of this study will to determine Sequential compression pump effect on hypotension due to spinal anesthesia for cesarean section. Inclusion criteria: Women over 18 years of non-emergency or elective cesarean section. Exclusion criteria: emergency cesarean section; epidural anesthesia for cesarean; Multiple pregnancy; Pathology of pregnancy; valvular or ischemic heart disease or high blood pressure; sepsis; morbid obesity BMI>40; gestational diabetes and block level higher than T5. Study population and sample size: 76 patients scheduled for elective cesarean and assigned randomly to one of two groups pneumatic compression and controls. After rehydration spinal anesthesia will performed with10 mg Marcaine and 2.5 mcg sufentanil thereafter the patients will placed supine with a 15 ° left lateral tilt. Cuff compression On position, in treatment group and Off in the control group. Initial outcome include blood pressure variations and secondary outcomes includes: ephedrine dose, the incidence of nausea & vomiting and required dose metoclopramide

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015011217742N3**
Registration date: **2015-03-13, 1393/12/22**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2015-03-13, 1393/12/22

Registrant information

Name

Fatemeh Javaherforoosh Zadeh

Name of organization / entity

Ahvaz Joundishapoor University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 61 1391 9315

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Recruitment status

Recruitment complete

Funding source

Research Center Of Ahvaz University of Medical Sciences

Expected recruitment start date

2014-03-20, 1392/12/29

Expected recruitment end date

2015-03-20, 1393/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Sequential compression pump effect on hypo tension due to spinal anesthesia during cesarean section

Public title

Sequential compression pump effect on hypo tension due to spinal anesthesia during cesarean section

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: female over 18 years of non-emergency or elective cesarean section. exclusion criteria: emergency cesarean section; epidural anesthesia for cesarean; Multiple pregnancy; Pathology of pregnancy; valvular or ischemic heart disease or high blood pressure; sepsis; morbid obesity BMI>40; gestational diabetes; block level higher than T5

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: **76**
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
Ahvaz University of Medical Sciences
Street address
Golestan street
City
Ahvaz
Postal code
Approval date
2014-09-23, 1393/07/01
Ethics committee reference number
ajums.REC.1393.271

Health conditions studied

1

Description of health condition studied
Hypotension
ICD-10 code
I95.2
ICD-10 code description
Hypotension due to drugs

Primary outcomes

1

Description
Mean blood pressure
Timepoint
From supine position every minute untill delivery and then every 3 minutes untill 10 minutes and then every 5 minutes untill arrival to recovery room and finally every 10 minutes untill discharge from recovery room
Method of measurement
sphygmomanometer

Secondary outcomes

1

Description
Efedrin dosage,Nousea and vomiting,Metocolopramid dosage
Timepoint
From spinal anesthesia to discharge from recovery room
Method of measurement
Mg,Frequency of occurrence N&V

Intervention groups

1

Description
sequestional compression device use in the intervention group after spinal anesthesia sequestional compression device
Category
Prevention

2

Description
No intervention
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Razi hospital
Full name of responsible person
Dr.Fatemeh Javaherforoosh Zadeh
Street address
Felestin street
City
Ahvaz

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Ahvaz University Of Medical Science
Full name of responsible person
Dr.Nader Saki
Street address

Ahvaz University OfMedical Science

City

AhvZ

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahvaz University Of Medical Science

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

Ahvaz University Of Medical Sciences

Full name of responsible person

Dr.Fatemeh Javaherforoosh Zadeh

Position

Heart Anesthesia Felloship

Other areas of specialty/work

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Person responsible for scientific inquiries

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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