

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 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 with 10 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

##### Email address

javaherforosh@sums.ac.ir

##### 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 until delivery and then every 3 minutes until 10 minutes and then every 5 minutes until arrival to recovery room and finally every 10 minutes until discharge from recovery room

**Method of measurement**  
sphygmomanometer

## Secondary outcomes

1

### Description

Efedrin dosage, Nausea 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

sequentional compression device use in the intervention group after spinal anesthesia sequentional 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 Of Medical 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 Fellowship

**Other areas of specialty/work**

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Razi Hospital

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**Email**

f\_javaherforoosh@yahoo.com

**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*