

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparative Study between ultrasound guided transversalis fascia plane block and transversus abdominis plane block on postoperative pain relief in patients undergoing elective cesarean section

#### Protocol summary

##### Summary

Aim: Comparative Study between ultrasound guided transversalis fascia plane block and transversus abdominis plane block on postoperative pain relief in patients undergoing cesarean section. Design: a randomized, one-blind, single-center, phase II clinical trial. Patients undergoing cesarean section surgery are divided into two groups: ultrasound guided transversalis fascia plane block and transversus abdominis plane block for decrease the postoperative pain. Pain score will be recorded during rest and coughing after block. The main inclusion criteria included patients undergoing cesarean section surgery. Exclusion criteria included patients EMR Patients with organic problem. Patients were divided into two groups ultrasound guided transversalis fascia plane block and transversus abdominis plane block. The main outcome variables: Pain.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017072210599N18**

Registration date: **2017-11-03, 1396/08/12**

Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2017-11-03, 1396/08/12

##### Registrant information

###### Name

Poupak Rahimzadeh

###### Name of organization / entity

Iran University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 6650 9059

###### Email address

p-rahimzadeh@tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

Vice chancellor for research, Iran University of Medical Sciences

##### Expected recruitment start date

2017-08-09, 1396/05/18

##### Expected recruitment end date

2018-04-21, 1397/02/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparative Study between ultrasound guided transversalis fascia plane block and transversus abdominis plane block on postoperative pain relief in patients undergoing elective cesarean section

##### Public title

Effect of abdominal nerves block on cesarean section

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

Inclusion criteria: Patients Undergoing cesarean section. Exclusion criteria: EMR Patients with organic problem; history of hypersensitivity to bupivacaine; Patients with BMI more than 40; Patients who received analgesia previous day; history of liver problem or kidney disease or coagulopathy.

**Age**

From **18 years** old to **50 years** old

**Gender**

Female

**Phase**

2

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **56**

**Randomization (investigator's opinion)**

Randomized

**Randomization description****Blinding (investigator's opinion)**

Single blinded

**Blinding description****Placebo**

Not used

**Assignment**

Parallel

**Other design features**

Randomization will be done using the blocking method.

**Secondary Ids**

empty

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

Ethics Committee of Iran University of Medical Sciences

**Street address**

Fifth floor, Central staff, Iran University of Medical Sciences, Hemmat Highway

**City**

tehran

**Postal code****Approval date**

2016-05-24, 1395/03/04

**Ethics committee reference number**

IR.IUMS.REC 1395.9311174011

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

caesarean section

**ICD-10 code**

082

**ICD-10 code description**

Single delivery by caesarean section

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

Pain

**Timepoint**

2, 4, 18, 24, 36 after block at rest and cough

**Method of measurement**

Based on VAS visual criteria

**Secondary outcomes**

empty

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

Intervention 2: Abdominal transversal muscle block method is administered under ultrasound guidance.

**Category**

Other

**2****Description**

Intervention 1: Transcortical facial block method is administered under the guidance of cesognography.

**Category**

Other

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

Hazrat Rasoul Akram Hospital

**Full name of responsible person**

Dr Poupak Rahimzadeh

**Street address****City**

Tehran

**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Vice chancellor for research, Iran University of Medical Sciences

**Full name of responsible person**

Dr Seyed Ali Javad Mousavi

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Fifth floor, Central staff, Iran University of Medical Sciences, Hemmat Highway

**City**

Tehran

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

**organization/entity?**  
Yes  
**Title of funding source**  
Vice chancellor for research, Iran 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

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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*