

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 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

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Email address

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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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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**Contact****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Dr Poupak Rahimzadeh

Position

Ph.D. Medical Anesthesiology / Associate Professor

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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