Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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
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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 hypersensivity to bupivacaine; Patients with BMI more than 40; Patients who received analgesia previous day; history of liver problem or kidney disease or coagolopaty.

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
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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
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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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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