Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

ANALGESIC EFFICACY OF TRANSVERSALIS FASCIA PLANE BLOCK VERSUS ANTERIOR QUADRATUS LUMBORUM BLOCK AFTER CAESARIAN SECTION

Protocol summary

Study aim
: The objective of this study is to compare and observe the post-operative analgesic efficacy of ultrasound guided transversalis fascia plane (TFPB) block when compared with anterior quadratus lumborum (QL) block in patients undergoing caesarian section.

Design
Prospective observational study

Settings and conduct
Prospective observational study

Participants/Inclusion and exclusion criteria
incluson criteria included all ASA-I and II female patients presenting for elective caesarian with a gestational age of more than 38 weeks to be done by Pfannenstiel incision under general anesthesia. Exclusion criteria excluded patients with metastatic disease, major cardiac or respiratory disease, low ejection fraction, post chemotherapy, major coagulopathy and unwilling to be included in the study

Intervention groups
Both blocks were done bilaterally under ultrasound guidance following the standard aseptic techniques and protocols furnished by NYSORA at the end of surgery under general anesthesia. Primary variables measured were mean total 24-hour morphine consumption and median scores on the NRS scale at 3-, 6-, 12- and 24-hours interval

Main outcome variables
post operative analgesia in patients undergoing cesarian section

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20230809059101N1**
Registration date: **2023-08-28, 1402/06/06**
Registration timing: **retrospective**
Last update: **2023-08-28, 1402/06/06**
Update count: **0**

Registration date
2023-08-28, 1402/06/06

Registrant information

Name
Muzzamal Saleem

Name of organization / entity
Combined military hospital bahawalpur

Country
Pakistan

Phone
+92 62 2501714

Email address
muzzamal79@hotmail.com

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2023-01-01, 1401/10/11

Expected recruitment end date
2023-06-30, 1402/04/09

Actual recruitment start date
2023-01-01, 1401/10/11

Actual recruitment end date
2023-06-30, 1402/04/09

Trial completion date
2023-06-30, 1402/04/09

Scientific title
ANALGESIC EFFICACY OF TRANSVERSALIS FASCIA PLANE BLOCK VERSUS ANTERIOR QUADRATUS LUMBORUM BLOCK AFTER CAESARIAN SECTION

Public title
ANALGESIC EFFICACY OF BLOCKS AFTER CAESARIAN SECTION

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

included all ASA-I and II female patients presenting for elective caesarian with a gestational age of more than 38 weeks to be done by Pfannenstiel incision under general anesthesia.

Exclusion criteria:

excluded patients with metastatic disease, major cardiac or respiratory disease, low ejection fraction, post chemotherapy, major coagulopathy and unwilling to be included in the study.

Age

From **22 years** old to **28 years** old

Gender

Female

Phase

2-3

Groups that have been masked

- Participant
- Investigator
- Outcome assessor
- Data analyser

Sample size

Target sample size: **70**

Actual sample size reached: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

non-probability consecutive sampling

Blinding (investigator's opinion)

Double blinded

Blinding description

non-probability consecutive sampling

Placebo

Used

Assignment

Parallel

Other design features

non-probability consecutive sampling

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

ethical committe combined military hospital bahawalpur

Street address

CMH Bahawalpur

City

Bahawalpur

Postal code

63100

Approval date

2023-01-01, 1401/10/11

Ethics committee reference number

EC-04-2023

Health conditions studied

1

Description of health condition studied

ANALGESIC EFFICACY OF TRANSVERSALIS FASCIA PLANE BLOCK VERSUS ANTERIOR QUADRATUS LUMBORUM BLOCK AFTER CAESARIAN SECTION

ICD-10 code

O75.9Compl

ICD-10 code description

O75.9Complication of labour and delivery, unspecified

Primary outcomes

1

Description

Both blocks were done bilaterally under ultrasound guidance following the standard aseptic techniques and protocols furnished by NYSORA at the end of surgery under general anesthesia. Primary variables measured were mean total 24-hour morphine consumption and median scores on the NRS scale at 3-, 6-, 12- and 24-hours interval.

Timepoint

Primary variables measured were mean total 24-hour morphine consumption and median scores on the NRS scale at 3-, 6-, 12- and 24-hours interval.

Method of measurement

the standard NRS (numerical rating scale) for pain

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Combined Military Hospital Bahawalpur

Full name of responsible person

Muhammad Muzzamal Saleem

Street address

CMH Bahawalpur

City

Bahawalpur

Postal code
63100
Phone
+92 62 28874689
Email
muzzamal79@hotmail.com

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Combined Military Hospital Bahawalpur
Full name of responsible person
Muhammad Muzzamal Saleem
Street address
Cantonment area bahawalpur
City
Bahawalpur
Postal code
63100
Phone
+92 62 2887468
Email
muzzamal79@hotmail.com
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Combined Military Hospital Bahawalpur
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact
Name of organization / entity
Combined Military Hospital Bahawalpur
Full name of responsible person
Muhammad Muzzamal Saleem
Position
consultant
Latest degree
Specialist
Other areas of specialty/work
Anesthesiology
Street address
cantonment area military hospital bahawalpur
City
Bahawalpur
Province
Punjab
Postal code
63100
Phone
+92 62 2887468
Email
muzzamal79@hotmail.com

Person responsible for scientific inquiries

Contact
Name of organization / entity
Combined Military Hospital Bahawalpur
Full name of responsible person
Muhammad Muzzamal Saleem
Position
consultant
Latest degree
Specialist
Other areas of specialty/work
Anesthesiology
Street address
cantonment area military hospital bahawalpur
City
Bahawalpur
Province
Punjab
Postal code
63100
Phone
+92 62 2887468
Email
muzzamal79@hotmail.com

Person responsible for updating data

Contact
Name of organization / entity
Combined Military Hospital Bahawalpur
Full name of responsible person
Muhammad Muzzamal Saleem
Position
consultant
Latest degree
Specialist
Other areas of specialty/work
Anesthesiology
Street address
cantonment area military hospital bahawalpur
City
Bahawalpur
Province
Punjab
Postal code
63100
Phone
+92 62 2887468
Email
muzzamal79@hotmail.com

Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available

Study Protocol
Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan
Undecided - It is not yet known if there will be a plan to make this available

Informed Consent Form
Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report
Undecided - It is not yet known if there will be a plan to make this available

Analytic Code
Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary
Yes - There is a plan to make this available

Title and more details about the data/document
TABLE-I AGE AND HEIGHT CHARACTERISITICS BETWEEN BOTH GROUPS TABLE-II COMPARISON OF CUMULATIVE MEAN MORPHINE CONSUMPTION AND MEDIAN NRS SCORES

When the data will become available and for how long
from july 2023 onward

To whom data/document is available
avademic institutions

Under which criteria data/document could be used
applicable

From where data/document is obtainable
muzzamal79@hotmail.com

What processes are involved for a request to access data/document
through institution

Comments