

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 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

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

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 committee 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
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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
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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
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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
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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
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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 CHARACTERISTICS 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

academic 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