

# 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  
**Phone**  
+92 62 28874689  
**Email**  
muzzamal79@hotmail.com

**Province**  
Punjab  
**Postal code**  
63100  
**Phone**  
+92 62 2887468  
**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

## 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 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