

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

ANALGESIC EFFICACY OF SUPRASCAPULAR NERVE BLOCK COMBINED WITH AXILLARY BLOCK VERSUS SUPRASCAPULAR BLOCK ALONE FOR FROZEN SHOULDER

Protocol summary

Study aim

To compare the outcomes of patients suffering from frozen shoulder treated with a suprascapular nerve block combined with an axillary block versus a suprascapular nerve block (SSNB) alone.

Design

Non Randomised Contrial Trial (Quasi-Experimental Study Design)

Settings and conduct

Department of Anesthesia, Combined Military Hospital, Rawalpindi, Pakistan

Participants/Inclusion and exclusion criteria

Inclusion criteria: All patients aged 18-80 years presenting to the pain clinic of the Department of Anesthesia with frozen shoulder diagnosed clinically by a pain consultant, with restriction in the range of motion in at least two planes, including internal rotation, external rotation, and abduction, or diagnosed on MRI with features suggestive of coracohumeral ligament thickening. Exclusion criteria: Patients with advanced cardiac or respiratory disease, patients with other shoulder joint arthropathies, patients with rotator cuff tears, patients already on steroids or with a history of intra-articular joint injections within the last 6 months, patients allergic to bupivacaine or triamcinolone, and patients unwilling to participate in the study.

Intervention groups

The patients were divided into Group A (n=40) to receive the combined suprascapular and axillary block and Group B (n=40) to receive the suprascapular block alone. Written informed consent was obtained from all patients after informing in detail about procedure risks and complication. Patients were allocated to the two groups using a non-probability consecutive sampling technique followed by the lottery method and were blinded to the procedure being performed.

Main outcome variables

VARIABLE MEDIAN SHOULDER PAIN AND DISABILITY INDEX (SPADI) SCORES (0-100) PRE-PROCEDURE AT 01 MONTH AT 03 MONTHS AT 06 MONTHS AT 09 MONTHS AT 12 MONTHS MEDIAN LIKERT SATISFACTION SCORES (0-7) AT 01 MONTH AT 03 MONTHS AT 06 MONTHS AT 09 MONTHS AT 12 MONTHS

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20260714070185N1**

Registration date: **2026-07-20, 1405/04/29**

Registration timing: **retrospective**

Last update: **2026-07-20, 1405/04/29**

Update count: **0**

Registration date

2026-07-20, 1405/04/29

Registrant information

Name

Muhammad Nauman Fazal

Name of organization / entity

National University of Medical Sciences

Country

Pakistan

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Email address

nauman106304@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2024-10-01, 1403/07/10

Expected recruitment end date

2025-03-31, 1404/01/11

Actual recruitment start date

2024-10-01, 1403/07/10

Actual recruitment end date

2025-03-31, 1404/01/11

Trial completion date

2025-03-31, 1404/01/11

Scientific title

ANALGESIC EFFICACY OF SUPRASCAPULAR NERVE BLOCK
COMBINED WITH AXILLARY BLOCK VERSUS
SUPRASCAPULAR BLOCK ALONE FOR FROZEN SHOULDER

Public title

ANALGESIC EFFICACY OF SUPRASCAPULAR NERVE BLOCK
COMBINED WITH AXILLARY BLOCK VERSUS
SUPRASCAPULAR BLOCK ALONE FOR FROZEN SHOULDER

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

All patients aged 18-80 years presenting to the pain
clinic of the Department of Anesthesia with frozen
shoulder diagnosed clinically by a pain consultant, with
restriction in the range of motion in at least two planes,
including internal rotation, external rotation, and
abduction, or diagnosed on MRI with features suggestive
of coracohumeral ligament thickening

Exclusion criteria:

Patients with advanced cardiac or respiratory disease
patients with other shoulder joint arthropathies patients
with rotator cuff tears patients already on steroids or
with a history of intra-articular joint injections within the
last 6 months patients allergic to bupivacaine or
triamcinolone patients unwilling to participate in the
study

Age

From **18 years** old to **80 years** old

Gender

Both

Phase

0

Groups that have been masked

No information

Sample size

Target sample size: **80**

Actual sample size reached: **80**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Approval date

empty

Ethics committee reference number

2

Ethics committee

Name of ethics committee

ETHICAL COMMITTEE/ INSTITUTIONAL REVIEW BOARD,
COMBINE MILITARY HOSPITAL, RAWALPINDI

Street address

Combine Military Hospital Rawalpindi (CMH), CMH Rd,
Rawalpindi, 46000

City

Rawalpindi

Postal code

46000

Approval date

2024-09-11, 1403/06/21

Ethics committee reference number

786

Health conditions studied

1

Description of health condition studied

Frozen Shoulder (Adhesive Capsulitis)

ICD-10 code

M75.0

ICD-10 code description

Adhesive capsulitis of shoulder

Primary outcomes

1

Description

MEDIAN SHOULDER PAIN AND DISABILITY INDEX (SPADI)

Timepoint

Preprocedural, 01, 03, 06, 09, 12 Months

Method of measurement

SHOULDER PAIN AND DISABILITY INDEX (SPADI) SCORES
(0-100)

Secondary outcomes

1

Description

SATISFACTION

Timepoint

01, 03, 06, 09, 12 Months

Method of measurement

LIKERT SATISFACTION SCORE (0-7)

Intervention groups1**Description**

Intervention group: Group-A, Group-B

Category

Treatment - Other

Recruitment centers1**Recruitment center****Name of recruitment center**

Department of Anesthesia, Combined Military Hospital, Rawalpindi, Pakistan

Full name of responsible person

Muhammad Nauman Fazal

Street address

COMBINE MILITARY HOSPITAL Rawalpindi (CMH), CMH Rd, Rawalpindi, 46000

City

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rabnawaz.bangash3061@gmail.com

2**Recruitment center****Sponsors / Funding sources**1**Sponsor****Name of organization / entity**

Department of Anesthesia, Combined Military Hospital, Rawalpindi, Pakistan

Full name of responsible person

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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

Department of Anesthesia, Combined Military Hospital, Rawalpindi, Pakistan

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 Rawalpindi

Full name of responsible person

Muhammad Nauman Fazal

Position

Graded Specialist

Latest degree

Specialist

Other areas of specialty/work

Anesthesiology

Street address

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Person responsible for scientific inquiries**Contact****Name of organization / entity**

Combined Military Hospital Rawalpindi

Full name of responsible person

Muhammad Nauman Fazal

Position

Graded Specialist

Latest degree

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Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity
Combined Military Hospital Rawalpindi
Full name of responsible person
Muhammad Nauman Fazal
Position
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Latest degree
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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be 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

No - There is not 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

Not applicable