

Clinical Trial Protocol

Iranian Registry of Clinical Trials

13 Jun 2026

A comparative study of interscalene block and supra scapular block with axillary nerve block, under ultrasound guidance to relieve pain after arthroscopic surgery of shoulder

Protocol summary

Study aim

The aim of current study is to compare interscalene nerve block with suprascapular nerve block with axillary nerve block under ultrasound guidance for pain relief after arthroscopic shoulder surgery

Design

Clinical trial study, with two parallel groups, double blinded, randomized

Settings and conduct

Sixty patients with arthroscopic shoulder surgery were randomly divided into two equal groups and will undergo interscalene nerve block or suprascapular nerve block with axillary nerve block under ultrasound guidance for pain relief after surgery.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age 18-60 years old Patients with ASA I,II Exclusion criteria: Allergy to local anesthesia Patients with liver disease Alcohol and drug abuse BMI>35 Diabetic neuropathy Neurological disorders Coagulation disorders Psychopathy disorders Inappropriate answer to questions

Intervention groups

First group : interscalene nerve block Second group: suprascapular nerve block with axillary nerve block

Main outcome variables

Patient's pain will be evaluated 4, 8, 12 and 24 hours after surgery.

General information

Reason for update

We have reset the recruitment dates.

Acronym

IRCT registration information

IRCT registration number: **IRCT20120814010599N23**

Registration date: **2018-11-12, 1397/08/21**

Registration timing: **prospective**

Last update: **2020-05-03, 1399/02/14**

Update count: **1**

Registration date

2018-11-12, 1397/08/21

Registrant information

Name

Poupak Rahimzadeh

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6650 9059

Email address

p-rahimzadeh@tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-11-07, 1397/08/16

Expected recruitment end date

2019-07-05, 1398/04/14

Actual recruitment start date

2018-11-25, 1397/09/04

Actual recruitment end date

2019-08-10, 1398/05/19

Trial completion date

2019-09-10, 1398/06/19

Scientific title

A comparative study of interscalene block and supra scapular block with axillary nerve block, under ultrasound guidance to relieve pain after arthroscopic surgery of shoulder

Public title

Interscalene block and supra scapular block with axillary

nerve block, under ultrasound guidance to relieve pain after arthroscopic surgery of shoulder

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Age 18-60 years old Patients with ASA I,II

Exclusion criteria:

Allergy to local anesthesia Patients with liver disease
Alcohol and drug abuse BMI>35 Diabetin Neuropathy
Neurological disorders Coagulation disorders
Psychological disorders Inappropriate answer to questions

Age

From **18 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **60**

Actual sample size reached: **60**

Randomization (investigator's opinion)

Randomized

Randomization description

The patients are randomly divided by using a computer-generated random number list. The subjects are assigned into different groups by random allocation. Allocation concealment is obtained by maintaining the randomization list by study statistician.

Blinding (investigator's opinion)

Double blinded

Blinding description

The participant and person evaluating the outcome will be blinded to the allocated group.

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Iran University of Medical Sciences

Street address

Iran University of Medical Sciences., next to Milad Tower., Hemmat Highway

City

Tehran

Province

Tehran

Postal code

1449614535

Approval date

2018-03-16, 1396/12/25

Ethics committee reference number

IR.IUMS.FMD.REC1396.9511174016

Health conditions studied

1

Description of health condition studied

Relieve pain after arthroscopic shoulder surgery

ICD-10 code

M 25.5

ICD-10 code description

pain in joint

Primary outcomes

1

Description

Pain after arthroscopic shoulder surgery

Timepoint

4, 8, 12 and 24 hours after surgery

Method of measurement

Using Visual Analogue Scale scale

Secondary outcomes

1

Description

Complications

Timepoint

During 24 hours after surgery

Method of measurement

With physical examination

Intervention groups

1

Description

Intervention group: First group will undergo interscalene nerve block under ultrasound guidance for pain relief after arthroscopic surgery

Category

Treatment - Drugs

2

Description

Intervention group: Second group will undergo suprascapular nerve block with axillary nerve block under ultrasound guidance for pain relief after arthroscopic surgery

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Rasool Akram Hospital

Full name of responsible person

Poupak Rahim Zadeh

Street addressDepartment of pain, 4th Floor, Hazrat-E-Rasool
Hospital, Iran University of Medical Sciences, Niayesh
St., Sattarkahn Ave., Tehran, Iran**City**

Tehran

Province

Tehran

Postal code

1445613131

Phone

+98 21 6651 5001

Email

rahimzadeh.p@iums.ac.ir

Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Seyed Kazem Malakuti

Street addressIran University of Medical Sciences., next to Milad
Tower., Hemat Highway**City**

Tehran

Province

Tehran

Postal code

1449614535

Phone

+98 21 8163 3685

Email

PR@iums.ac.ir

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Iran University of Medical Sciences

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**

Iran University of Medical Sciences

Full name of responsible person

Poupak Rahimzadeh

Position

Professor

Latest degree

Subspecialist

Other areas of specialty/work

Anesthesiology

Street addressFifth floor, Central staff, Iran University of Medical
Sciences, Hemmat Highway**City**

Tehran

Province

Tehran

Postal code

1916737183

Phone

+98 21 8670 2503

Fax

+98 21 6650 9059

Email

rahimzadeh.p@iums.ac.ir

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

Iran University of Medical Sciences

Full name of responsible person

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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

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

Clinical Study Report

Yes - There is 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

Title and more details about the data/document

We have not yet set a conclusion

When the data will become available and for how long

We have not yet set a conclusion

To whom data/document is available

We have not yet set a conclusion

Under which criteria data/document could be used

We have not yet set a conclusion

From where data/document is obtainable

We have not yet set a conclusion

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

We have not yet set a conclusion

Comments