

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

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

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**Province**

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**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 address**Iran University of Medical Sciences., next to Milad  
Tower., Hemat Highway**City**

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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**

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 address**Fifth floor, Central staff, Iran University of Medical  
Sciences, Hemmat Highway**City**

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

Iran University of Medical Sciences

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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**