Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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 sholder 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
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 address
Iran 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 address
Fifth 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
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
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 updating data

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
Tehran
Province
Tehran
Postal code
1916737183
Phone
+98 21 8670 2503
Fax
+98 21 6650 9059
Email
rahimzadeh.p@iums.ac.ir

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