

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Comparison of intercostobrachial nerve block with axillary nerve block effects on tourniquet pain in patients undergoing upper limb surgeries who got infra clavicular block under sonographic guide

Protocol summary

Study aim

Tourniquet pain severity in patients group under intercostobrachial nerve block based on Numeric Rating Scale every 30 minutes during surgery Tourniquet pain severity in patients group under axillary nerve block based on Numeric Rating Scale every 30 minutes during surgery Comparison of tourniquet pain severity in patients group under intercostobrachial nerve block and axillary nerve block Comparison of the pethidine dosage use for pain relief between two groups

Design

Randomized single-blinded with parallel groups clinical trial on 30 patients

Settings and conduct

In this study 30 cases chosen randomly in two groups. All the cases will get infraclavicular block. To reduce tourniquet pain during surgery one group will get axillary nerve block and the other group will get intercostobrachial nerve block. During the surgery we will ask the cases about their pain according to NRS score every 30 minutes. After surgery the limb will be assessed according to the block. Finally the patients' satisfaction will be measured by questionnaire.

Participants/Inclusion and exclusion criteria

Patients satisfaction verbal and written to join the study Patient age range between 12 to 70 years old Patients with American Society of Anaesthesiologists score 1 or 2 Patients candidate for upper limb surgeries from elbow to distal parts of limb Weight more than 50 kilograms

Intervention groups

Patients undergoing upper limb surgeries

Main outcome variables

Pain reduction in parts of the limbs under tourniquet, during and after surgery Reduction in opioid use for analgesia Reduction of becoming a surgery with local anesthesia to a surgery with general anesthesia

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20220814055683N1**

Registration date: **2023-01-19, 1401/10/29**

Registration timing: **registered_while_recruiting**

Last update: **2023-01-19, 1401/10/29**

Update count: **0**

Registration date

2023-01-19, 1401/10/29

Registrant information

Name

Hamidreza Khabaz nayab

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 21 4435 4926

Email address

hamidreza.khabaz@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2022-12-22, 1401/10/01

Expected recruitment end date

2024-03-19, 1402/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of intercostobrachial nerve block with axillary nerve block effects on tourniquet pain in patients undergoing upper limb surgeries who got infra clavicular block under sonographic guide

Public title

Comparison of two types of local anesthesia on tourniquet pain in upper limbs surgeries

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patient satisfaction written and verbal Patient age range between 12 and 70 years old ASA score 1 or 2 Patients candidate for upper limb surgeries from elbow to distal parts of the limb Weight more than 50kg

Exclusion criteria:

Patient satisfaction oral and written Age range between 12 to 70 years old A.S.A grade 1 or 2 patients candidate for upper limbs surgery from elbow to distal regions of the limbs Patients weight more than 50 kg

Age

From **12 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Randomization to two groups based on randomized blocks

Blinding (investigator's opinion)

Single blinded

Blinding description

Patients are not aware of the intervention type, it is a single blind study

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 science,East Hemmat

City

Tehran

Province

Tehran

Postal code

1449614535

Approval date

2022-06-07, 1401/03/17

Ethics committee reference number

IR.IUMS.FMD.REC.1401.115

Health conditions studied

1

Description of health condition studied

Upper limb surgeries

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Patient pain score

Timepoint

during surgery and recovery

Method of measurement

NRS questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intercostobrachial block on patients candidate for upper limb surgeries from elbow to distal, who have taken infra-clavicular block as the main block

Category

Prevention

2

Description

Axillary nerve block on patients candidate for upper limb surgeries from elbow to distal, who have taken infra-clavicular block as the main block

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasool akram_firoozgar hospital
Full name of responsible person
Hamidreza Khabaz Nayab
Street address
Rasool akram hospital, Mansoori st, Sattarkhan st
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Email
Rasoolhospital@iums.ac.ir
Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Iran University of Medical Sciences
Full name of responsible person
Hosein Keyvani
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Hemmat expressway, Iran university of science
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Phone
+98 21 8670 2503
Email
keyvani.h@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
Hamidreza Khabaz nayab
Position
Resident
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

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

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