Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Study of the success rate of infraclavicular block by concurrent sonography and nerve stimulation methods

Protocol summary

Summary

The purpose of study is to compare the success rate of infraclavicular block by both sonography and nerve stimulations methods concurrently and each alone. This study is non-random, double blind and without control or placebo that is run at one center and the patients who are persenting to Shohada Ashayer hospital and are going undergo elective surgery of forearm, elbow,wrist and hand with infraclavicular nerve block And was chosen by simple non-random method that randomly divided into three groups: Sonography, nerve stimulation, sonography and nerve stimulation Inclusion criteria:patients aged 18-85 years, I and III classes of ASA(ps-1 & ps-3), consent to participate in the project. Exclusion criteria: patients with allergies to anesthesia, local infection at injection site and coagulopathy, neurological disorders in upper limb ends, recognizable psychotic disorders, cognitive disorders, drug abuse background, long- term use of epioids, severe cardiopulmonary, diabetes, recognized neuropathy, dissatisfaction to participate in the project.Sample size was 90 people. Success rate of infraclavicular block by both sonography and nerve stimulation methods concurrently and each alone. The primary outcome quick start of numbness.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016090716066N5**
Registration date: **2016-10-09, 1395/07/18**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2016-10-09, 1395/07/18

Registrant information

Name
Siavash Beiranvand

Name of organization / entity
Lorestan University of Medical Sciences

Country
Iran (Islamic Republic of)

Phone
+98 66 1221 5006

Email address
dr.beiranvand@lums.ac.ir

Recruitment status

Recruitment complete

Funding source

Lorestan University of Medical Sciences, Research deputy and Technology

Expected recruitment start date

2016-10-08, 1395/07/17

Expected recruitment end date

2017-05-07, 1396/02/17

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Study of the success rate of infraclavicular block by concurrent sonography and nerve stimulation methods

Public title

The effect of sonography and nerve stimulation in Upper limbs nerver block

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion conditions: patients aged 18-85 years; I and III classes of ASA(ps-1 & ps-3); consent to participate in the project. Exclusionconditionsb:patients with allergies to

anesthesia; local infection at injection site and coagulopathy; neurological disorders in upper limb ends; recognizable psychotic disorders; cognitive disorders; drug abuse background; long-term use of epioids; severe cardiopulmonary; diabetes,recognized neuropathy; dissatisfaction to participate in the project.

Age
From **18 years** old to **85 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **90**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Triple blinded

Blinding description

Placebo
Not used

Assignment
Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Lorestan University of Medical Sciences

Street address
Deputy of Research and Technology, Integrated Pardis, Lorestan University of Medical Sciences, 5 Km Road Khorramabad -Tehran, Khorramabad

City
Khorramabad

Postal code

Approval date
2016-05-23, 1395/03/03

Ethics committee reference number
LUMS.REC.1395.91

Health conditions studied

1

Description of health condition studied
Brachial plexus anesthesia

ICD-10 code
Y48.3

ICD-10 code description
Local anaesthetics

Primary outcomes

1

Description
numb

Timepoint
Since the injection to numbness

Method of measurement
Stopwatch

2

Description
Immobility

Timepoint
Since the injection to immobility

Method of measurement
stopwatch

Secondary outcomes

1

Description
Blood pressure values after operation

Timepoint
During operation untill recovery

Method of measurement
monitoring

2

Description
Heart beat amount

Timepoint
During operation untill recovery

Method of measurement
monitoring

3

Description
Intraoperative bleeding amount

Timepoint
Since the beginning to end of operation

Method of measurement
observational

4

Description
Post-operative pain amount

Timepoint
Since anesthesia to recovery

Method of measurement
Based on the VAS scale

5

Description
Extubate time

Timepoint

After operation
Method of measurement
stopwatch

6

Description
Duration of anesthesia
Timepoint
Intraoperative
Method of measurement
stopwatch

7

Description
Duration of anesthasia
Timepoint
Since the beginning of injection to recovery
Method of measurement
stopwatch

8

Description
Opening eyes
Timepoint
After operation
Method of measurement
observation

Intervention groups

1

Description
sonography on the block infraclavicular before surgery in control group
Category
Treatment - Other

2

Description
Success rate of infraclavicular block by sonography method before surgery in Intervention group
Category
Treatment - Other

3

Description
nerve stimulation in infraclavicular block before surgery in control group
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Shohada Ashayer Hospital Khorramabad
Full name of responsible person
dr.siavash beiranvand
Street address
Department Of Anesthesiology, Shohada Ashayer Hospital,Enghelab street, Khorramabad
City
Khorramabad

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Lorestan University of Medical Sciences
Full name of responsible person
Dr.Morovat Tahari Kalani
Street address
Deputy of Research and Technology, Complex Pardis, Lorestan University of Medical Sciences,Khorramabad
City
Khorramabad
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Lorestan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

Contact
Name of organization / entity
Lorestan University Of Medical Sciences
Full name of responsible person
Dr.Siavash Bieravand
Position
Anesthesiologist
Other areas of specialty/work
Street address
Department of Anesthesiology, Ashayer Shohada Hospital, Enghelab street, Khorramabad
City
Khorramabad
Postal code
Phone
+98 66 3312 0715
Fax
Email

beiranvandsiavash@yahoo.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity

Lorestan University of Medical Sciences

Full name of responsible person

Dr.Siavash Beiranvad

Position

Anesthesiologist

Other areas of specialty/work

Street address

Department of Anesthesiology, Shohada Ashayer Hospital, Enghelab Street Khorramabad

City

Khorramabad

Postal code

Phone

+98 66333323004

Fax

Email

beiranvandsiavash@yahoo.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Lorestan University Of Medical Sciences

Full name of responsible person

Elham Shikhey

Position

BS In Clinical Research

Other areas of specialty/work

Street address

Clinical Research, Shohada Ashayer Hospetal, Enghelab Street, khorramabad

City

Khorramabad

Postal code

Phone

+98 66 3312 0175

Fax

Email

nedaesh1@yahoo.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

empty

Study Protocol

empty

Statistical Analysis Plan

empty

Informed Consent Form

empty

Clinical Study Report

empty

Analytic Code

empty

Data Dictionary

empty