

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

Comparison of Forearm ultrasound-guided nerve blocks vs landmark-based wrist blocks outcomes For palm and fingers surgery. A Randomized clinical trial

Protocol summary

Study aim

Comparison of Forearm ultrasound-guided nerve blocks vs landmark-based wrist blocks outcomes For palm and fingers surgery. A Randomized clinical trial

Design

A randomized clinical trial without control group, with parallel groups, without blindness that, 70 patients randomly divided into two groups of 35 subjects with block sizes of 4 and 6.

Settings and conduct

The population of this study was aged 18-65 years old who referred to Ayatollah Rouhani Hospital in Babol. Patients are randomly divided into two Intervention groups with a table of random numbers by computer. Intervention group1: Radial and ulnar median nerve, each one block with 4 ml lidocaine 1% total 12 ml adhering to Landmark. Intervention group2: Radial and ulnar median nerve, each one block with 4 ml lidocaine 1% total 12 ml under ultrasound guide.

Participants/Inclusion and exclusion criteria

Inclusion Criteria: 65-18 years old, Isolated hand trauma, Signing consent to participate in the study. Exclusion Criteria: Coagulation disorders, Spinal deformities, Smoking

Intervention groups

Intervention group1: Radial and ulnar median nerve, each one block with 4 ml lidocaine 1% total 12 ml adhering to Landmark. Intervention group2: Radial and ulnar median nerve, each one block with 4 ml lidocaine 1% total 12 ml under ultrasound guide.

Main outcome variables

Analgesia

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20191026045245N1**

Registration date: **2019-12-08, 1398/09/17**

Registration timing: **registered_while_recruiting**

Last update: **2019-12-08, 1398/09/17**

Update count: **0**

Registration date

2019-12-08, 1398/09/17

Registrant information

Name

Mohsen Daghmehchi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 11 3233 8301

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-06-26, 1398/04/05

Expected recruitment end date

2020-06-25, 1399/04/05

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Forearm ultrasound-guided nerve blocks vs landmark-based wrist blocks outcomes For palm and

fingers surgery. A Randomized clinical trial

Public title

Wrist nerve blocks For palm and fingers surgery

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

65-18 years old Isolated hand trauma Signing consent to participate in the study

Exclusion criteria:

Coagulation disorders Spinal deformities Smoking

Age

From **18 years** old to **65 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **70**

Randomization (investigator's opinion)

Randomized

Randomization description

The patients randomly divided into two groups of 35 subjects with four and six blocks and an allocation ratio of 1: 1. The participants allocation sequence in two groups performed with a Randomizer software. Opaque sealed sequentially numbered envelopes used for allocation concealment.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Babol University Of Medical Sciences

Street address

Daneshgah Square, Ganjafrooz Avenue

City

Babol

Province

Mazandaran

Postal code

47176-41367

Approval date

2019-06-25, 1398/04/04

Ethics committee reference number

IR.MUBABOL.HRI.REC.1398.204

Health conditions studied

1

Description of health condition studied

Palm and fingers

ICD-10 code

S60

ICD-10 code description

Superficial injury of wrist, hand and fingers

Primary outcomes

1

Description

Analgesia

Timepoint

5, 10, 15, 20 minutes after each block

Method of measurement

Visual Analogue Scale, Visual, questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group1: Radial and ulnar median nerve. each one block with 4 ml lidocaine 1% total 12 ml adhering to Landmark

Category

Treatment - Surgery

2

Description

Intervention group2: Radial and ulnar median nerve. each one block with 4 ml lidocaine 1% total 12 ml under ultrasound guide

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

Ayatollah Rouhani Hospital

Full name of responsible person

Mohsen Daghmehchi

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Sponsors / Funding sources

1

Sponsor

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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
Babol 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
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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is still no plan for its publish.

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