

Clinical Trial Protocol

Iranian Registry of Clinical Trials

11 Jun 2026

A comparison between hematoma block and median nerve block guided by sonography in reducing the pain caused by distal radius fracture

Protocol summary

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Summary

The aim of this study is to identify the appropriate way for painless procedure in induction of distal radius fractures. In this study hematoma block will be compared with neural block guided by sonography. Population study includes patients with distal radius fractures admitted into the Emergency Department. The sample size is 120, divided to equal two groups. The important inclusion criteria are age over 18y and without tissue damage and important exclusion criterion is allergy to lidocaine. The numerical pain score (VAS) will be measured before, during and after procedure to estimate pain state of the patient and will be compared between two groups.

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Tehran University of Medical Sciences

Expected recruitment start date

2012-03-20, 1391/01/01

Expected recruitment end date

2012-10-22, 1391/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201111058000N1**

Registration date: **2012-12-15, 1391/09/25**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2012-12-15, 1391/09/25

Registrant information

Name

Nayereh Garjani

Name of organization / entity

Tehran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 6649 9606

Email address

Scientific title

A comparison between hematoma block and median nerve block guided by sonography in reducing the pain caused by distal radius fracture

Public title

A comparison between neural block and nerve block guided by sonography

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: GCS= 15; age >18 year; no mental disorder; no soft tissue injury; patients consent.

Exclusion criteria: patients noncompliance; patients death due to injuries; Allergy to lidocaine; Distracting injury; no reducing in pain in any group

Age

From **18 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 120

Randomization (investigator's opinion)

Randomized

Randomization description

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

Tehran university of medical sciences

Street address

Qouds center, Qouds ave

City

Tehran

Postal code

Approval date

2012-04-17, 1391/01/29

Ethics committee reference number

130/2653/90/3

Health conditions studied

1

Description of health condition studied

distal radius fracture

ICD-10 code

S52.5

ICD-10 code description

Fracture of upper end of ulna

Primary outcomes

1

Description

pain

Timepoint

before procedure-ontime procedure-5min and 10 min and 15 min after procedure

Method of measurement

visual and numerical analog scale

Secondary outcomes

1

Description

side effect of procedure:arterial puncture,nerve puncture,hematoma

Timepoint

5min and 10min and 15min after procedure

Method of measurement

physical exam

Intervention groups

1

Description

15cc of 1/100 lidocaine is used for hematoma block in first group.

Category

Treatment - Other

2

Description

Radial and median nerve block, each of them with 15cc lidocaine guided by sonography is performed by a professional.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Rasoul Akram hospital

Full name of responsible person

Dr. Saeed Abbasi ; Dr. Nayereh Garjani

Street address

Shahr-Ara, Satarkhan ave, Nyayesh st

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for Research of Tehran University of Medical Sciences

Full name of responsible person

Dr. Akbar Fotohi

Street address

six floor, central office of university, cross Ghods St. and Keshavarz Blvd.

City

Tehran

Grant name

ندارم

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Vice chancellor for Research of Tehran 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

Tehran University of Medical Sciences

Full name of responsible person

Dr. Saeed Abbasi

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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