

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Aug 2026

Evaluation and compare the onset of sciatic nerve block in injection common proneal nerve and tibial individually against injection in proximal to the bifurcation of sciatic nerve

Protocol summary

Summary

The purpose of study is evaluation and compare the onset of sciatic nerve block in injection common proneal nerve and tibial individually against injection in proximal to the bifurcation of sciatic nerve. 66 patients undergoing surgery which is done under knee referred to Hazrat Rasool Hospital as a random, double-blind, and without control with placebo with 1-2 trial phase with using sealed envelopes and on parallel divided into two groups. Patient's age must be over 20 years of age and ASA have one to three and patients with peripheral vascular disease, peripheral neuropathy, Patient's block does not complete within 30 minutes will be excluded. In the first group injection is performed in place before the bifurcation of the sciatic nerve (sciatica groups called) And the second group the common proneal nerve and tibial nerve injection separately takes (Tibial-proneal group is called). After administration of local anesthetics, sensory and motor block is evaluated. Time Imaging of contact time ultrasound probe until proper image to be seen to be measured. In each person the number of needles that inserted is estimated and side effects included paresthesia and perforation of the vessel is registered.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015110212642N20**
Registration date: **2015-11-21, 1394/08/30**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-11-21, 1394/08/30

Registrant information

Name

Majid Golestani Eraghi

Name of organization / entity

Shahid Beheshti University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Iran University of Medical Sciences

Expected recruitment start date

2015-05-22, 1394/03/01

Expected recruitment end date

2015-11-30, 1394/09/09

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation and compare the onset of sciatic nerve block in injection common proneal nerve and tibial individually against injection in proximal to the bifurcation of sciatic nerve

Public title

evaluation and compare the onset of sciatic nerve block

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Patient 20-70years old; Patient that hane unilateral surgery on foot; Patient with ASA I-III;
Exclusion criteria: Patient with history of diabetes;
Pripheral nerve disease; pripheral neuropathy;
pregnancy; Patient's block does not complete within 30 minutes.

Age

From **20 years** old to **70 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **66**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Randomization is performed using sealed envelopes.

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Iran University of Medical Sciences

Street address

Hemmat Highway

City

Tehran

Postal code

Approval date

2015-07-20, 1394/04/29

Ethics committee reference number

IR.IUMS.REC.1394.9111174014

Health conditions studied

1

Description of health condition studied

nerve block

ICD-10 code

Y48.3

ICD-10 code description

adverse of therapeutic use

Primary outcomes

1

Description

The completion time of sensory block

Timepoint

The first time, 10 minutes after the block and after that at intervals of 5 minutes.

Method of measurement

Table defined and based on minutes

2

Description

The completion time of motor block

Timepoint

The first time, 10 minutes after the block and after that at intervals of 5 minutes.

Method of measurement

Table defined based on minutes

Secondary outcomes

1

Description

Imaging time

Timepoint

After block

Method of measurement

The contact time ultrasound probe until proper image is visible on the map and based on minute

2

Description

Needling time

Timepoint

After block

Method of measurement

Since contact with the skin until the injection of local anesthetic needle and based on minute

Intervention groups

1

Description

In the first group, the sciatic nerve block with will done with 15 ml of Marcaine 0.5% and 15 cc of 1% lidocaine in common proneal nerve and tibial nerve separately.

Category

Treatment - Other

2

Description

In the second group, the sciatic nerve block with 15 ml injection of Marcaine 0.5% and 15 cc of 1% lidocaine injection proximal to the bifurcation takes place.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Hazrat Rasool Hospital

Full name of responsible person

Poopak Rahimzadeh

Street address

Satarkhan Ave

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Iran University of Medical Sciences

Full name of responsible person

Seyed Alijavad Musavi

Street address

Vice chancellor for research of Iran University of Medical Sciences, Hemmat Highway

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research, Iran 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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Anesthesiology group of Iran University of Medical Science

Full name of responsible person

Poopak Rahimzadeh

Position

Fellowship of pain

Other areas of specialty/work

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Hazrat Rasool Hospital, Satarkhan Ave

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Web page address

Person responsible for updating data

Contact

Name of organization / entity

Anesthesiology group of Shahid beheshti University of Medical Sciences

Full name of responsible person

Majid Golestani Eraghi

Position

Anesthesiologist

Other areas of specialty/work

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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