

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 2026

Effect of lumbosacral manipulation on the tibial H-reflex

Protocol summary

Summary

Low back pain (LBP) is one of the most common reasons for seeking medical care. In this study we want to evaluate the effect of spinal manipulation on tibial H-reflexes in patients with low back pain. Manipulation is one of the treatments for low back pain. Fifty-two patients 20-60 years old with low back pain without exclusion criteria (osteoporosis, history of previous surgery, pregnancy) enrolled. Initially, the H-reflex is recorded and then lumbosacral manipulation is done for them, without the patient being moved, H-reflex is recorded. The results of H reflex amplitude and latency are compared before and after manipulation.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201203069222N1**
Registration date: **2012-08-17, 1391/05/27**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2012-08-17, 1391/05/27

Registrant information

Name

Mohaddeseh Azadvari

Name of organization / entity

Army University of medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 8802 8350

Email address

dr_azadvari@mut.ac.ir

Recruitment status

Recruitment complete

Funding source

Army University of Medical Sciences

Expected recruitment start date

2012-01-03, 1390/10/13

Expected recruitment end date

2013-01-03, 1391/10/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of lumbosacral manipulation on the tibial H-reflex

Public title

Effect of lumbosacral manipulation on the tibial H-reflex

Purpose

Basic science

Inclusion/Exclusion criteria

Inclusion criteria: patients with low back pain 20-60 years old
Exclusion criteria: neoplasm; major disease such as cardiac, renal; destructive vertebra diseases; vertebra Fx or dislocation; quadaeqina syndrome; past surgical history of vertebra; osteoprosis; BMI>32; Peregancy

Age

From **20 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **52**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Double blinded
Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Army University of Medical Sciences

Street address

Shahid Etemadzade Street, Western Fatemi Street,
Tehran

City

Tehran

Postal code

14185611

Approval date

2012-05-23, 1391/03/03

Ethics committee reference number

9103

Health conditions studied

1

Description of health condition studied

Low back pain

ICD-10 code

M54.5

ICD-10 code description

Low back pain

Primary outcomes

1

Description

Amplitude tibial H reflex

Timepoint

before & after intervention

Method of measurement

With EDX study

Secondary outcomes

1

Description

Distal latency tibial H reflex

Timepoint

before & after intervention

Method of measurement

with EDX study

Intervention groups

1

Description

lumbosacral manipulation

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

501 Army Hospital

Full name of responsible person

Dr Azadvari

Street address

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Army University of Medical Sciences

Full name of responsible person

Dr Rezaee Moghaddam

Street address

Shahid Etemadzade Street, Western Fatemi Street.

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Army 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

501 Army Hospital

Full name of responsible person

Mohaddeseh Azadvari

Position

Resident of physical medicine and rehabilitation

Other areas of specialty/work

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Full name of responsible person

Mohaddeseh Azadvari

Position

Other areas of specialty/work

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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

Person responsible for scientific inquiries

Contact

Name of organization / entity

Army University of Medical Sciences

Full name of responsible person

Mohaddeseh Azadvari

Position

Resident of physical medicine and rehabilitation

Other areas of specialty/work

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