

# 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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**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*