

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 Jun 2026

### Comparison of the short time effects of Thrust Manipulation and Muscle Energy Technique on movements among women with sacroiliac dysfunction

#### Protocol summary

##### Study aim

A Comparative Study on the Effectiveness of Manipulation and Muscle Energy technique in Patients with iliosacral joint dysfunction

##### Design

60 patients with anterior innominate or posterior innominate dysfunctions will be included in the study and they will be assigned to two groups of 30 persons through block randomization using block of size 4

##### Settings and conduct

the first group will receive Manipulation and the second group will receive Muscle Energy Technique during a session. The location of the study will be the physiotherapy clinic of the Tehran Rehabilitation Faculty.

##### Participants/Inclusion and exclusion criteria

Participant with ant innominate or post innominate dysfunctions and whose level of current pain is at least three in the Visual Analogue Scale (VAS) will be included in the study

##### Intervention groups

the first group will receive Manipulation and the second group will receive Muscle Energy Technique during a session

##### Main outcome variables

Active Lumbar Flexion and Extension ; Internal Rotation of the Hip ;External Rotation of Hip ; Active Straight Leg Raising ; Level of pain;Pain Pressure Threshold; Lumbar Stiffness Disability Index ;Inability in daily activities

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20171126037633N1**

Registration date: **2018-01-12, 1396/10/22**

Registration timing: **prospective**

Last update: **2018-01-12, 1396/10/22**

Update count: **0**

##### Registration date

2018-01-12, 1396/10/22

##### Registrant information

###### Name

Ashraf Vaseghnia

###### Name of organization / entity

###### Country

Iran (Islamic Republic of)

###### Phone

+98 21 4412 8683

###### Email address

a-vaseghnia@razi.tums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-01-21, 1396/11/01

##### Expected recruitment end date

2018-05-22, 1397/03/01

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of the short time effects of Thrust Manipulation and Muscle Energy Technique on movements among women with sacroiliac dysfunction

##### Public title

Comparison of the effects of Manipulation and Muscle Energy Technique on sacroiliac dysfunction

##### Purpose

Treatment

## Inclusion/Exclusion criteria

### Inclusion criteria:

Functional dysfunction (Anterior or Post innominate Rotation) in iliosacral joint

### Exclusion criteria:

Severe instability pregnancy spondylolisthesis osteoporosis spinal , ribs and pelvis degenerative lesions Cauda equina syndrome Having pelvic ,back and lower extremity surgery

## Age

From **18 months** old to **30 years** old

## Gender

Female

## Phase

N/A

## Groups that have been masked

- Participant

## Sample size

Target sample size: **60**

## Randomization (investigator's opinion)

Randomized

## Randomization description

four blocked randomization

## Blinding (investigator's opinion)

Single blinded

## Blinding description

The patient is not aware of the type of intervention and its mechanism of action

## Placebo

Not used

## Assignment

Parallel

## Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Ethics Committee of Tehran University of Medical Sciences

##### Street address

sixth floor ,Deputy of research and technology ,Central University ,Corner of Quds Street ,Keshavarz Blvd

##### City

Tehran

##### Province

Tehran

##### Postal code

1417653761

#### Approval date

2016-07-02, 1395/04/12

#### Ethics committee reference number

IR.TUMS.VCR.REC.1395.211

## Health conditions studied

### 1

#### Description of health condition studied

sacroiliac joint dysfunction

#### ICD-10 code

دیسفانکشن

#### ICD-10 code description

دیسفانکشن مفصل ساکروایلیاک

## Primary outcomes

### 1

#### Description

Active Lumbar Flexion and Extension

#### Timepoint

before, immediately and 24 hours after intervention

#### Method of measurement

Clinical examination

### 2

#### Description

Internal Rotation of the Hip

#### Timepoint

before, immediately and 24 hours after intervention

#### Method of measurement

Clinical examination

### 3

#### Description

External Rotation of the Hip

#### Timepoint

before, immediately and 24 hours after intervention

#### Method of measurement

Clinical examination

### 4

#### Description

Active Straight Leg Raising

#### Timepoint

before, immediately and 24 hours after intervention

#### Method of measurement

Clinical examination

### 5

#### Description

Level of pain

#### Timepoint

before, immediately and 24 hours after intervention

#### Method of measurement

questionnaire

## 6

### **Description**

Pain Pressure Threshold\_PPT

### **Timepoint**

before, immediately and 24 hours after intervention

### **Method of measurement**

laboratory test

## 7

### **Description**

Lumbar Stiffness Disability Index

### **Timepoint**

before, immediately and 24 hours after intervention

### **Method of measurement**

questionnaire

## 8

### **Description**

Inability to do daily activities

### **Timepoint**

before, immediately and 24 hours after intervention

### **Method of measurement**

questionnaire

## **Secondary outcomes**

empty

## **Intervention groups**

### 1

#### **Description**

Intervention group:reception of one session of sacroiliac joint manipulation . When performing this technique, a small part of the anatomical rang of motion of the sacroiliac joint moves at high speed and low intensity.

#### **Category**

Rehabilitation

### 2

#### **Description**

Intervention group: reception of one session of sacroiliac joint muscle energy technique . In this technique, the muscles perform controlled isometric contractions with the aim of joint alignment correction

#### **Category**

Rehabilitation

## **Recruitment centers**

### 1

#### **Recruitment center**

##### **Name of recruitment center**

School of Rehabilitation, Tehran University of Medical Sciences

##### **Full name of responsible person**

Azadeh Shadmehr

#### **Street address**

School of Rehabilitation , Pich e shemiran , Enghelab street

#### **City**

Tehran

#### **Province**

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#### **Postal code**

1148965111

#### **Phone**

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#### **Email**

shadmehr@tums.ac.ir

## **Sponsors / Funding sources**

### 1

#### **Sponsor**

##### **Name of organization / entity**

Tehran University of Medical Sciences

##### **Full name of responsible person**

Mohammad Ali Sahraian

##### **Street address**

Sixth floor, Deputy of research and technology , Central University building , Corner of Quds Street, Keshavarz Blvd

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##### **Phone**

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##### **Email**

msahrai@sina.tums.ac.ir

#### **Grant name**

#### **Grant code / Reference number**

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

Yes

#### **Title of funding source**

Tehran 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**

Tehran University of Medical Sciences

##### **Full name of responsible person**

Azadeh Shadmehr

**Position**

Professor

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Physiotherapy

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## Person responsible for scientific inquiries

**Contact**

**Name of organization / entity**

Tehran University of Medical Sciences

**Full name of responsible person**

Ashraf Vaseghnia

**Position**

PhD candidate

**Latest degree**

Master

**Other areas of specialty/work**

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## Person responsible for updating data

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Ashraf Vaseghnia

**Position**

PhD candidate

**Latest degree**

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**Other areas of specialty/work**

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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**

No access is possible. Other researchers can refer to published articles

**Study Protocol**

No - There is not a plan to make this available

**Statistical Analysis Plan**

No - There is not a plan to make this available

**Informed Consent Form**

No - There is not a plan to make this available

**Clinical Study Report**

No - There is not a plan to make this available

**Analytic Code**

No - There is not a plan to make this available

**Data Dictionary**

No - There is not a plan to make this available