

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

04 Jul 2026

### Comparison of two manipulative therapy techniques and outcome in patients with sacroiliac joint pain

#### Protocol summary

##### Summary

The sacroiliac joint (SIJ) has been found to be a significant source of back pain. Several treatments for SIJ syndrome have been advocated by clinicians. Spinal manipulation is an intervention commonly used in the treatment of individual with SIJ pain. The aim of present study was to investigate the effect of two manipulative therapy and outcome in patient with SIJ pain. Thirty two women aged between 18-30 years with SIJ pain with a history of unilateral or bilateral SIJ pain; Duration of pain between 2 weeks to one year at the time of initial consultation were included in the study. The exclusion criteria were Gross instability; Pregnancy; Spondylolysis; Osteoporosis and previous back surgery. The patients were randomly divided into two groups of 16 subjects. One group received the high-velocity low-amplitude (HVLA) SIJ manipulation and the other group received the HVLA SIJ and lumbar manipulation in only one session. The outcome were assessed with Oswestry disability index (ODI) questionnaire and visual analogue scale (VAS) at before, immediately, 48 hours and one month after treatment.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT138806102398N1**

Registration date: **2011-06-04, 1390/03/14**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2011-06-04, 1390/03/14

##### Registrant information

###### Name

Esmail Shokri

##### Name of organization / entity

Shiraz University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 71 1731 9618

##### Email address

shokries@sums.ac.ir

##### Recruitment status

###### Recruitment complete

##### Funding source

Shiraz University Of Medical Sciences

##### Expected recruitment start date

2008-12-21, 1387/10/01

##### Expected recruitment end date

2009-07-21, 1388/04/30

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Comparison of two manipulative therapy techniques and outcome in patients with sacroiliac joint pain

##### Public title

Comparison of two manipulative therapy techniques and outcome in patients with sacroiliac joint pain

##### Purpose

Treatment

##### Inclusion/Exclusion criteria

The inclusion criteria were: 18-30 years old; Female patients with a history of unilateral or bilateral SIJ pain; Duration of pain between 2 weeks to one year at the time of initial consultation. The exclusion criteria were: destructive lesions of the spine, ribs and pelvis; Cauda equina syndrome; Gross instability; Infection; Pregnancy;

Spondylolysis; Osteoporosis and previous back surgery.

#### Age

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

#### Gender

Female

#### Phase

N/A

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **32**

#### Randomization (investigator's opinion)

Randomized

#### Randomization description

#### Blinding (investigator's opinion)

Single blinded

#### Blinding description

#### Placebo

Not used

#### Assignment

Parallel

#### Other design features

## Secondary Ids

empty

## Ethics committees

### 1

#### Ethics committee

##### Name of ethics committee

Shiraz University Of Medical Sciences

##### Street address

Shiraz, Chamran Ave, Abiverdi 1, School Of Rehabilitation, Shiraz University of Medical Sciences

##### City

shiraz

##### Postal code

#### Approval date

2008-09-05, 1387/06/15

#### Ethics committee reference number

88-4614

## Health conditions studied

### 1

#### Description of health condition studied

sacroiliac joint pain

#### ICD-10 code

s33.2

#### ICD-10 code description

Dislocation of sacroiliac and sacrococcygeal joint

## Primary outcomes

### 1

#### Description

visual analogue scale (VAS).

#### Timepoint

before, immediately, 48 hours and one month after treatment

#### Method of measurement

Pain intensity was recorded by using a 100mm visual analogue scale (VAS), 0 indicating no pain and 100, the worst pain ever.

## Secondary outcomes

### 1

#### Description

Oswestry disability index (ODI) Questionnaire

#### Timepoint

before treatment, 48 hours and one month after treatment

#### Method of measurement

Functional disability was recorded by using the Oswestry low back pain disability questionnaire (ODI). Each item was scored on a 0-5 scale, and the maximum score was 50. In this study the maximum score was 45 because one item was omitted (sex life). Relative values are reported (total score/total possible score × 100%).

## Intervention groups

### 1

#### Description

1. SIJ manipulation: The patient was supine; the therapist stood on opposite side to be manipulated. The patient was passively moved into side bending to be manipulated. The patient interlocked the fingers behind his or her hand. The therapist passively rotated the patient, and then delivered a quick thrust to the ASIS in the posterior and inferior direction.

#### Category

Rehabilitation

### 2

#### Description

2. Lumbar manipulation: The patient lied with the more painful side up (e.g. right). The therapist stood in front of the patient. The therapist then flexed the top leg until the lumbar spine was flexed and placed the patient's foot in the popliteal fossa of the lower leg. Next the therapist grasped the patients lower shoulder and arm, introduced left trunk side bending and right rotation until motion felt at the lumbar spine. The patient's arms were positioned around the therapist right arm. Set up is maintained while the patient is rolled toward the therapist. Finally the therapists left arm was used to apply a high-velocity low-amplitude thrust of the pelvis in the anterior direction.

#### Category

Rehabilitation

## Recruitment centers

1

### Recruitment center

**Name of recruitment center**

Clinic of Rehabilitation School of Shiraz University of medical science

**Full name of responsible person**

Dr.fahimeh kamali

**Street address**

Shiraz, Chamran Ave, Abiverdi 1, School Of Rehabilitation, Shiraz University of Medical Sciences

**City**

Shiraz

## Sponsors / Funding sources

1

### Sponsor

**Name of organization / entity**

shiraz university of medical science

**Full name of responsible person**

Vice-chancellery for Research Office

**Street address**

Vice-chancellery for Research Office, The central building of Shiraz University of Medical Sciences, Zand Ave, Shiraz, Iran

**City**

shiraz

**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

**Title of funding source**

shiraz university of medical science

**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**

School Of Rehabilitation, Shiraz University Of Medical Science

**Full name of responsible person**

Dr.Fahimeh Kamali

**Position**

Assistant professor

**Other areas of specialty/work****Street address**

Shiraz, Chamran Ave, Abiverdi 1, School Of Rehabilitation, Shiraz University of Medical Sciences

**City**

shiraz

**Postal code****Phone**

+98 71 1627 1551

**Fax****Email**

fahimehkamali@hotmail.com

**Web page address**

## Person responsible for scientific inquiries

### Contact

**Name of organization / entity**

School Of Rehabilitation, Shiraz University Of Medical Science

**Full name of responsible person**

Dr.fahimeh kamali

**Position**

Assistant professor,PT. PHD

**Other areas of specialty/work****Street address**

Shiraz, Chamran Ave, Abiverdi 1, School Of Rehabilitation, Shiraz University of Medical Sciences

**City**

shiraz

**Postal code****Phone**

+98 71 1627 1551

**Fax****Email**

fahimehkamali@hotmail.com

**Web page address**

## Person responsible for updating data

### Contact

**Name of organization / entity**

School Of Rehabilitation, Shiraz University of Medical Science

**Full name of responsible person**

Esmaeil Shokri

**Position**

Student

**Other areas of specialty/work****Street address**

Shiraz, Chamran Ave, Abiverdi 1, School Of Rehabilitation, Shiraz University of Medical Sciences

**City**

shiraz

**Postal code****Phone**

+98 71 1627 1551

**Fax****Email**

shokries@sums.ac.ir

**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*