Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 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 between18-30 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; Osteoporesis 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 treatmnt.

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

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Name of organization / entity

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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; Osteoporesis 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

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Dr.Fahimeh Kamali

Position
Assistant professor

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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