

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

The evaluation of manual techniques on balance in patients with sacroiliac joint dysfunctions

Protocol summary

Summary

The purpose of this study is to investigate the evaluation of manual techniques in balance improvement in such patients. Inclusion criteria: Pain and discomfort in sacroiliac joint; having symptoms in last 3 month. Exclusion criteria: Balance disorders; disc herniation; flat foot; structural leg length discrepancy. 50 patients aged between 20 and 50 were divided into 2 groups of intervention (N=25) and placebo (N=25). Each Participant stood on force platform for 30 seconds in 3 separate trial before and after the treatment in both groups and balance indicators were measured before and immediately after positioning and manipulation treatment. Manual techniques for intervention group and the placebo manual techniques (positioning) for the placebo participants were applied in a single session. This study is a single blinded one.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014072715932N8**

Registration date: **2014-10-30, 1393/08/08**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-10-30, 1393/08/08

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor for Research of Shiraz University of Medical Sciences

Expected recruitment start date

2012-09-22, 1391/07/01

Expected recruitment end date

2012-12-21, 1391/10/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The evaluation of manual techniques on balance in patients with sacroiliac joint dysfunctions

Public title

The evaluation of manual techniques on balance in patients with low back pain

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: limitation; pain and discomfort in sacroiliac joint; having symptoms in last 3 month; positive clinical examination of sacroiliac and iliosacral joint tests and verified by the second therapist; pain less than score 6 in Numeric Rating Scale (NRS); the maximum score between 20 and 40 in Oswestry Disability Questionnaire. Exclusion criteria: rheumatic and systemic diseases (diabetes); balance disorders (neural and vestibular disorders); inflammatory and infectious diseases of spine; spinal surgery; disc

herniation; structural leg length discrepancy; foot disorders; flat foot; non specific low back pain (referral pain); neural system disorders (Parkinson, Multiple Sclerosis, Neuropathy); patients with history of past fractures, dislocation and arthrosis of lumbar, hip and back also excluded from the study .

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

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

Central Building of Shiraz University of Medical Sciences, Zand avenue

City

Shiraz

Postal code

1978-71345

Approval date

2012-08-22, 1391/06/01

Ethics committee reference number

CT_P_91_4512

Health conditions studied

1

Description of health condition studied

Sacroiliac joint dysfunction

ICD-10 code

M99

ICD-10 code description

Other disorders of the musculoskeletal system and

connective tissue

Primary outcomes

1

Description

Balance

Timepoint

Immediately before and immediately after intervention

Method of measurement

Force platform

Secondary outcomes

empty

Intervention groups

1

Description

manipulation techniques (High velocity low amplitude thrust)in intervention group was applied: The patient lay down supine while he interlocked both hands behind his neck. Patient's trunk is in the neutral position and the therapist stood on the unaffected side and bent the patient to the affected side. Then the therapist rotated the patient and then applied a quick thrust to the anterior superior iliac spine in a posterior and inferior direction. The technique repeated up to 3 times .

Category

Treatment - Other

2

Description

Manipulation positioning in control group was applied:The patient lay down supine while he interlocked both hands behind his neck. Patient's trunk is in the neutral position and the therapist stood on the unaffected side and bent the patient on the affected side. Then the therapist rotated the patient but he did not apply any thrust .

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Physical Therapy Clinic of Shiraz Rehabilitation Faculty

Full name of responsible person

Seyedeh Forough Abtahi Nezhad Moghadam

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2

Recruitment center

Name of recruitment center

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

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Full name of responsible person

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Building of Shiraz University of Medical Sciences,
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Grant name**Grant code / Reference number****Is the source of funding the same sponsor
organization/entity?**

Yes

Title of funding source

Vice Chancellor for Research of Shiraz 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

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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