Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

The evaluation of relationship between diagnostic Gillet and Standing forward flexion tests with low back pain, abdominal muscles and other related factors in the patients who have sacroiliac joint dysfunction

Protocol summary

Summary

Statistic shows that 15-30% of patients with low back pain are suffering from Sacroiliac joint dysfunction that may cause pain around back and buttock or lower extremity. The Gillet and Standing forward flexion tests are used to diagnose the sacroiliac joint dysfunction. Previous studies shows that diagnostic block of sacroiliac joint would reduce the pain but still gives positive result to these two tests. Therefore, the decision made to figure out the relation between these two tests and other interrupter factors throughout this research in two groups of people with low back pain and without low back pain. One of these under assessment factors is the thickness of core muscles that will be measured by ultrasonography. Core muscles include Multifidus muscle, Transverse abdominus, Internal and External abdominal oblique muscles. In addition to the relation between these tests and the condition of core muscles, other factors such as age, gender, weight, pregnancy and physical activity and their influences on the positive result of diagnostic tests is under consideration. Therefore, it is worthwhile to find the relation between these variables and different tests such as Gillet and Standing flexion in order to improve the diagnostic tests and evaluation of back pain. Moreover, this would increase the quality of life for people suffering from back pain.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201611214409N10**
Registration date: **2017-03-31, 1396/01/11**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2017-03-31, 1396/01/11

Registrant information

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2017-03-05, 1395/12/15

Expected recruitment end date

2018-03-06, 1396/12/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The evaluation of relationship between diagnostic Gillet and Standing forward flexion tests with low back pain, abdominal muscles and other related factors in the patients who have sacroiliac joint dysfunction

Public title

The diagnostic tests in sacroiliac joint dysfunction

Purpose
Diagnostic
Inclusion/Exclusion criteria
Inclusion criteria: Adults 18-75 years old with chronic low back pain; positive result of Gilet and Forward flexion tests; patients without low back pain who are referred to dermatology clinic Exclusion criteria: unlike to continue; acute low back pain; pregnancy
Age
From **18 years** old to **75 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **44**
Randomization (investigator's opinion)
N/A
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Iran University of Medical Sciences
Street address
Hemmat Highway, between Chamran and Sheikh Fazlolah Noori
City
Tehran
Postal code
IRAN
Approval date
2015-10-06, 1394/07/14
Ethics committee reference number
IR.IUMS.REC.1395.27825

Health conditions studied

1

Description of health condition studied
low back pain, sacroiliac joint dysfunction
ICD-10 code
M54.5
ICD-10 code description
Low back pain, other dorsopathies

Primary outcomes

1

Description
External Oblique Muscle thickness
Timepoint
Begining of our study
Method of measurement
Sonography

2

Description
Internal Oblique Muscle thickness
Timepoint
Begining of our study
Method of measurement
Sonography

3

Description
Pregnancy
Timepoint
Begining of our study
Method of measurement
History

4

Description
Sex
Timepoint
Begining of our study
Method of measurement
Phenotype

5

Description
History of low back pain
Timepoint
Begining of our study
Method of measurement
History

6

Description
Age
Timepoint
Begining of our study
Method of measurement
The number of years that a person has been living

7

Description
Weight

Timepoint
Begining of our study
Method of measurement
Scale

8

Description
Height
Timepoint
Begining of our study
Method of measurement
Stadiometer

9

Description
BMI
Timepoint
Begining of our study
Method of measurement
Calculated by weight and height

10

Description
Occupation
Timepoint
Begining of our study
Method of measurement
History

11

Description
Physical activity
Timepoint
Begining of our study
Method of measurement
Interview

12

Description
Shortness of Hamstring Muscle
Timepoint
Begining of our study
Method of measurement
Examination in a supine position

13

Description
Transverse Abdominus thickness
Timepoint
Begining of our study
Method of measurement
Sonography

Secondary outcomes

empty

Intervention groups

1

Description
Sonography for measuring the thickness of abdominal core muscle such as Internal Oblique, External Oblique and Transversus Abdominus, in both intervention and control groups
Category
Diagnosis

Recruitment centers

1

Recruitment center
Name of recruitment center
Hazrat Rasool Akram Hospital
Full name of responsible person
Parisa Nejati
Street address
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Iran University of Medical Sciences
Full name of responsible person
Dr. Seyed Javad Moosavi
Street address
Next to Milad Tower, Hemmat Highway
City
Tehran
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Iran 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

Iran University of Medical Sciences

Full name of responsible person

Parisa Nejati

Position

Assistant professor of sports medicine

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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