Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Ipsilateral Sacroiliac dysfunction among (Right/Left-hand drive) taxi drivers and effect of sacroiliac belt on muscular activity during sit to unilateral stand task.

Protocol summary

Study aim

1. To find the ipsilateral SIJP among the taxi drivers. 2. To find relation between the driving side and the side of involvement of the SIJP. 3. Predisposing factors causing SIJP in the drivers.

Design

Randomized clinical controlled trial (RCT)

Settings and conduct

600 Taxi drivers from Iran & 600 from Pakistan would be recruited by Simple Random Sampling (SRS). A valid questionnaire (Oswestry Disability Index- Iranian Version , Roland-Morris Disability Index- Iranian Version, the Quebec Back Pain Disability Scale with an additional self-administered questionnaire having socio-demographic factors, work characteristics and dysfunction explanation, designed for this study would be filled by the researcher while asking the questions regarding low back pain from left hand drive drivers from Iran and the Urdu version of above mentioned questionnaires would be used for right hand drive drivers in Pakistan. In the second phase of the research. EMG would be performed on the SIJP & healthy group.

Participants/Inclusion and exclusion criteria

Male taxi drivers aged between 20-60 years with work experience of more than one year and willing to cooperate will be included in initial phase of the study. For EMG recording, SIJP of at least 2 months pain in joint, no radiation of pain towards lower limb, diagnosed by 3 positive sacroiliac provocative tests, having no postural dysfunction or limb length discrepancy would be selected. Healthy group for EMG recording would be selected on the basis of no previous pain history in SIJ, having normal active straight leg raising (ASLR) test and with no congenital anomaly.

Intervention groups

Sacroiliac Belt

Main outcome variables

1. Pain 2. Function 3. RMS 4. Muscle Activity

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20090301001722N17**
Registration date: **2018-02-09, 1396/11/20**
Registration timing: **registered_while_recruiting**

Last update: **2018-02-09, 1396/11/20**
Update count: **0**

Registration date

2018-02-09, 1396/11/20

Registrant information

Name
Samira Karimpour
Name of organization / entity
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Iran (Islamic Republic of)
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Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences- International Campus

Expected recruitment start date

2017-09-15, 1396/06/24

Expected recruitment end date

2018-03-15, 1396/12/24

Actual recruitment start date

empty

Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Ipsilateral Sacroiliac dysfunction among (Right/Left-hand drive) taxi drivers and effect of sacroiliac belt on muscular activity during sit to unilateral stand task.

Public title
Ipsilateral Sacroiliac dysfunction among (Right/Left-hand drive) taxi drivers and effect of sacroiliac belt on muscular activity during sit to unilateral stand task.
Purpose
Diagnostic
Inclusion/Exclusion criteria
Inclusion criteria:
Male taxi drivers Aged between 20-60 years Work experience of more than one year willing to cooperate
Exclusion criteria:
Having history of surgery Acute pathological condition Radiating pain toward lower limb Any limb length discrepancy
Age
From **20 years** old to **60 years** old
Gender
Male

Phase
N/A
Groups that have been masked

- Investigator

Sample size
Target sample size: **80**
More than 1 sample in each individual
Number of samples in each individual: **2**
Right & left sides (Or healthy & affected in patients) of each individual would be investigated
Randomization (investigator's opinion)
Randomized
Randomization description
The examiner will remain blind about the low back condition who will perform sacroiliac provocative test. During EMG, the investigator will also be bling about the side of involvement of the sacroiliac Joint and low back pain.
Blinding (investigator's opinion)
Single blinded
Blinding description
The examiner will remain blind about the low back condition who will perform sacroiliac provocative test. During EMG, the investigator will also be bling about the side of involvement of the sacroiliac Joint and low back pain.
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tehran University of Medical Sciences (TUMS)
Street address
School of Rehabilitation of Tehran University of Medical Sciences, Piche Shemiran, Enghelab Ave, Tehran, Iran
City
Tehran
Province
Tehran
Postal code
1417614411
Approval date
2017-09-11, 1396/06/20
Ethics committee reference number
IR.TUMS.FNM.REC.1396.3443

Health conditions studied

1

Description of health condition studied
Sacroiliac Joint Dysfunction
ICD-10 code
M99.04
ICD-10 code description
Musculoskeletal disorders - Segmental and somatic dysfunction of sacral region

Primary outcomes

1

Description
PAIN
Timepoint
Before & after Treatment (Immediate effect & Prolong Effect after one month)
Method of measurement
Numeric Pain Rating Scale (NPRS)

2

Description
Integrated EMG
Timepoint
Before and after Treatment
Method of measurement
Surface EMG by Biometrics (Ltd) data Log

3

Description

Root mean square (RMS)

Timepoint

Before and after Treatment

Method of measurement

Surface EMG by Biometrics (Ltd) data Log

4

Description

Time to peak

Timepoint

Before and after Treatment

Method of measurement

Surface EMG by Biometrics (Ltd) data Log

5

Description

Duration of the muscle activity

Timepoint

Before and after Treatment

Method of measurement

Surface EMG by Biometrics (Ltd) data Log

6

Description

Premotor Time

Timepoint

Before and after Treatment

Method of measurement

Surface EMG by Biometrics (Ltd) data Log

Secondary outcomes

1

Description

Function

Timepoint

Before and after Treatment

Method of measurement

Modified Oswestry Disability

Intervention groups

1

Description

Intervention group(A): Before Treatment; EMG would be performed on this group before the application of Sacroiliac belt.

Category

Treatment - Other

2

Description

Intervention group(B): After Treatment; EMG would be performed on this group after the application of Sacroiliac belt.

Category

Treatment - Other

3

Description

Control group:Based on methodology, EMG would be performed on this healthy group without performing any treatment.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Rehabilitation,Tehran University of Medical Sciences

Full name of responsible person

Dr.Mohammad-Reza Hadian Rasanani

Street address

School of Rehabilitation, Tehran University of Medical Sciences. Enghelab Ave. Pich-Shemiran

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Tehran University of Medical Sciences

Full name of responsible person

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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
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 (TUMS)-International Campus

Full name of responsible person
Dr.Mohammad-Reza Hadian Rasanani

Position
Professor

Latest degree
Ph.D.

Other areas of specialty/work
Physiotherapy

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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
As per consent form, Researcher was obliged to keep the participants information confidential.

Study Protocol
Yes - There is a plan to make this available

Statistical Analysis Plan
Yes - There is a plan to make this available

Informed Consent Form
Yes - There is a plan to make this available

Clinical Study Report
Yes - There is 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

Title and more details about the data/document

Study Protocol: It would be available in the published article & thesis in the library Statistical Analysis Plan: It would be available in the published article & thesis in the library Informed Consent Form: It would be available in the thesis in the library Clinical Study Report: In the form of published articles or report

When the data will become available and for how long

For Ever

To whom data/document is available

For All

Under which criteria data/document could be used

According to the rules of journal and library

From where data/document is obtainable

Journals & Library in the institure

What processes are involved for a request to access data/document

Contact to journal or researcher

Comments