

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jul 2026

The comparison of biomechanical and muscular parameters between patellofemoral taping and patella stabilizer brace methods in women with patellofemoral syndrom during the stance phase of running

Protocol summary

Summary

general aim of this study: comparing of patella taping and brace on the biomechanical and muscular parameters of the lower extremities in women with pfps on the stance phase of running and also comparison of these parameters between healthy group as control group and pfps group without brace and tape. subjects: A total of 30 subjects participated in this trial study in control (healthy) and PFPS groups (n = 15 per group). the healthy group does not receive any intervention. the patellofemoral pain syndrome group will assess immediately after three stages including: with brace, with tape and without any intervention that the order of these stages will be randomly. resting interval will be considered between three stages. Inclusion criteria: healthy subjects and patients with patellofemoral pain syndrome aged 20-40 years. Exclusion criteria: history of back and lower extremities surgery-history of serious knee trauma at recent 6 months or mild trauma at recent 2 months - use steroidal drugs- low back and sacroiliac pain, history of neurological, rheumatologic and musculoskeletal disease- regular exercises - age over 40 years - history of Physiotherapy treatment. Interventions: kinematic and kinetic variables of lower extremity, muscular activity of Gluteus medius, biceps femoris, vastus medialis and lateralis in three dimensions in women with patellofemoral syndrome during stance phase of running with patella taping compared to brace. outcome of this study: this study will do for comparing mentioned variables between healthy group and patellofemoral group without any intervention and in the next stage for comparing two management methods including taping and bracing in patellofemoral group that the results of this study can help physicians to prescribe effective treatment for patients with patellofemoral pain syndrome.

General information

Acronym

-

IRCT registration information

IRCT registration number: **IRCT201407272851N3**

Registration date: **2014-09-01, 1393/06/10**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2014-09-01, 1393/06/10

Registrant information

Name

Mohammad Taghipour

Name of organization / entity

Babol University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Babol university of medical sciences

Expected recruitment start date

2014-08-23, 1393/06/01

Expected recruitment end date

2015-03-21, 1394/01/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The comparison of biomechanical and muscular parameters between patellofemoral taping and patella stabilizer brace methods in women with patellofemoral syndrom during the stance phase of running

Public title

The comparison between patellofemoral taping and patella stabilizer brace methods on patellofemoral syndrom

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: healthy subjects ; patients with patellofemoral pain syndrome; aged 20-40 years.
Exclusion criteria: history of back and lower extremities surgery; history of serious knee trauma at recent 6 months or mild trauma at recent 2 months ; use steroidal drugs; low back and sacroiliac pain; history of neurological; rheumatologic and musculoskeletal disease; regular exercises; age over 40 years; history of Physiotherapy treatment

Age

From **20 years** old to **40 years** old

Gender

Female

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features

-

Secondary Ids

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

babol university of medical sciences

Street address

keshavarz blv.

City

babol

Postal code

47176-47745

Approval date

2014-07-08, 1393/04/17

Ethics committee reference number

4323

Health conditions studied**1****Description of health condition studied**

patellofemoral pain syndrome

ICD-10 code

m 17.9

ICD-10 code description

Gonarthrosis, unspecified

Primary outcomes**1****Description**

kinematic variables

Timepoint

before and after intervention

Method of measurement

motion analyzer cameras

2**Description**

kinetic variables

Timepoint

before and after intervention

Method of measurement

force plate

3**Description**

mucular variables

Timepoint

before and after intervention

Method of measurement

EMG

Secondary outcomes

empty

Intervention groups**1****Description**

control group: without brace and tape

Category

Rehabilitation

2

Description

intervention group: with brace and immediately after patella brace, we will asses mentioned variables

Category

Rehabilitation

3

Description

intervention group: with tape and immediately after patella taping, we will asses mentioned variables

Category

Rehabilitation

4

Description

intervention group: without brace and tape

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Shahid Beheshti Hospital

Full name of responsible person

Somayeh Hosseinzadeh

Street address

City

Babol

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Babol University of Medical Sciences

Full name of responsible person

Dr. Bijani

Street address

Keshavarz blv.

City

Babol

Grant name

-

Grant code / Reference number

-

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Babol 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

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Full name of responsible person

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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