Clinical Trial Protocol
Iranian Registry of Clinical Trials

28 Jun 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 onl 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 asses 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 consider 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 sacroilliac 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 ana lateralis in three dimensions in women with patellofemoral syndrome during stance phase of running with patella taping compare 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 includind 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

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Name of organization / entity

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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 sacroilliac 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

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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