

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The Effect of New Insole on Ground Reaction Force and Centre of Pressure in Subjects with Flexible Flat Foot and Comparison with Common Insole

Protocol summary

Summary

The purpose of this study was to determine the effect of a poron insole on ground reaction force and centre of pressure in subjects with flexible flat foot and comparison with common insole. Twenty six subjects (7 Male and 19female) with flexible flat foot participated in this clinical trial. 13 subjects received poron insole and 13 subjects received common insole. Vertical ground reaction force and displacement of centre of pressure were assessed with force plate in the first session and next two weeks.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138905144441N4**
Registration date: **2010-08-28, 1389/06/06**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-08-28, 1389/06/06

Registrant information

Name

Hassan Jafari

Name of organization / entity

Faculty of Rehabilitation Sciences, Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 912139131382

Email address

hjafari@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2008-10-28, 1387/08/07

Expected recruitment end date

2009-06-19, 1388/03/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The Effect of New Insole on Ground Reaction Force and Centre of Pressure in Subjects with Flexible Flat Foot and Comparison with Common Insole

Public title

Effect of Insole on Ground Reaction Force and Centre of Pressure in Subjects with Flexible Flat Foot

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Age between 18 to 40, not using any insole before test, presence of flexible flat foot, No lower limb surgery history, No ligamentus instability, No musculoskeletal disorder, No Leg length discrepancy more than 1cm Exclusion criteria: Not using insole at least 40 hours for two weeks, loss to follow-up

Age

From **18 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 26

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Rehabilitation Faculty, Iran
University of Medical Sciences

Street address

Faculty of Rehabilitation Sciences, Shahnazari St,
Madar Ave, Mirdamad Blvd.

City

Tehran

Postal code

Approval date

2008-07-19, 1387/04/29

Ethics committee reference number

151

Health conditions studied

1

Description of health condition studied

Flexible Flat Foot

ICD-10 code

Q66.5

ICD-10 code description

Congenital pes planus

Primary outcomes

1

Description

Ground Reaction Force

Timepoint

Baseline, 2 weeks after medial longitudinal arch support
insole prescription

Method of measurement

Force plate

2

Description

Centre of Pressure

Timepoint

Baseline, 2 weeks after medial longitudinal arch support
insole prescription

Method of measurement

Force plate

Secondary outcomes

1

Description

Stability with displacement of centre of pressure

Timepoint

Baseline and two weeks after prescription of medial
longitudinal arch support

Method of measurement

Standard Deviation of centre of pressure

Intervention groups

1

Description

Prescription of the common insole

Category

Other

2

Description

Prescription of the common insole with poron layer

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Faculty of Rehabilitation Sciences, Iran University of
Medical Sciences

Full name of responsible person

Street address

Faculty of Rehabilitation Sciences, Shahnazari St,
Madar Ave, Mirdamad Blvd

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Resaech, Iran University of Medical Sciences

Full name of responsible person

Dr Maziar Moradi Lakeh

Street address

Iran University of Medical Sciences, 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

Vice Resaech, 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**

Faculty of Rehabilitation Sciences, Iran University of Medical Sciences

Full name of responsible person

Mohammad Sadegh Ghasemi

Position

Assistant Professor, PhD

Other areas of specialty/work**Street address**

Faculty of Rehabilitation Sciences, Shahnazari St, Madar Ave, Mirdamad Blvd

City

Tehran

Postal code**Phone**

+98 21 2222 7124 ext. 202

Fax**Email****Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Iran University of Medical University, Faculty of Rehabilitation Sciences

Full name of responsible person

Fatemeh Khanmohammad

Position

Master of science in orthotics and prosthetics

Other areas of specialty/work**Street address**

Faculty of Rehabilitation Sciences, Shahnazari St, Madar Ave, Mirdamad Blvd

City

Tehran

Postal code**Phone**

+98 21 2222 7124 ext. 202

Fax**Email**

Khanmohammad_61@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Iran University of Medical University, Faculty of Rehabilitation Sciences

Full name of responsible person

Fatemeh Khanmohammad

Position

Master of science in orthotics and prosthetics

Other areas of specialty/work**Street address**

Faculty of Rehabilitation Sciences, Shahnazari St, Madar Ave, Mirdamad Blvd

City

Tehran

Postal code**Phone**

+98 21 2222 7124 ext. 202

Fax**Email**

khanmohammad_61@yahoo.com

Web page address**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