

Clinical Trial Protocol

Iranian Registry of Clinical Trials

24 Jun 2026

Effects of balance training on patients with diabetic neuropathy

Protocol summary

Summary

Peripheral neuropathy is one of the common complaints of diabetes. Peripheral neural damage in turn will cause balance impairments in diabetic patients. The purpose of this study was to investigate the effects of balance exercises on sway indices in diabetic patients with neuropathy. Ten diabetic patients diagnosed with peripheral neuropathy and ten healthy aged-matched subjects participated in the study as experiment and normal groups. Participants in both groups were examined for balance abilities with the Biodex Balance System (BBS). All tests were done in eyes open and closed condition on bilateral and unilateral standing. After ten sessions of balance training for experimental group, they were re-examined in the same way again.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT138905094441N2**

Registration date: **2010-07-31, 1389/05/09**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2010-07-31, 1389/05/09

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

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2009-11-15, 1388/08/24

Expected recruitment end date

2010-06-15, 1389/03/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of balance training on patients with diabetic neuropathy

Public title

Balance training in diabetic neuropathy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion: Age between 35 to 60 Diagnosed peripheral neuropathy which confirmed with electrodiagnostic tests. The ability to stand on both, and single leg. Exclusion: diabetic ulcers in either foot. lack of blood sugar control. Internal ear infections, other nervous system impairments (except neuropathy) or other diseases affecting balance. Musculo-skeletal problems such as vertebral column or limbs deformity. History of repeated ankle sprains in the year prior to the study Severe pain influencing balance. Visual problems inability to see the stabilometer cursor. The existence of any other factors that interfere with balance except diabetic neuropathy.

Age

From **35 years** old to **60 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 10

Randomization (investigator's opinion)

Not 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

Ethics Committee Rehabilitation Faculty

Street address

Rehabilitation Sciences Faculty (IUMS), Shahnazari Street, Madar Square, Mirdamaad

City

Tehran

Postal code

1945913187

Approval date

2008-07-19, 1387/04/29

Ethics committee reference number

148

Health conditions studied

1

Description of health condition studied

Diabetic Polyneuropathy

ICD-10 code

G63.2*

ICD-10 code description

Diabetic polyneuropathy

Primary outcomes

1

Description

Improving balance, proprioception

Timepoint

Before training and after 5 session of training

Method of measurement

Balance Index by Biodex Satability system

Secondary outcomes

1

Description

Risk of falling

Timepoint

six month to one year after training

Method of measurement

questionnaire follow up

2

Description

medical costs

Timepoint

six month to one year after training

Method of measurement

questionnaire follow up

Intervention groups

1

Description

No intervention in control group

Category

N/A

2

Description

Balance Training in intervention group by tilt board and Biodex stabilometer system

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Firouzgar Hospital

Full name of responsible person

Dr Bijan Forough

Street address

Firouzgar Hospital, Vali-e-asr Square

City

Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Resaech, Iran University of Medical Sciences

Full name of responsible person

Mrs Malmir

Street address

IUMS, 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
Iran University of Medical Sciences

Full name of responsible person
Hassan Jafari

Position
Assistant Professor, PhD

Other areas of specialty/work

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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