

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

Effects of ankle joint taping on the sole of foot loading in sit-to-stand position in chronic stroke patients

Protocol summary

Study aim

The purpose of this study is to investigate the effects of ankle taping on the sole of the foot loading during sit-to-stand in chronic stroke patients

Design

This clinical trial is single group design, and a convenience and an available sampling will be used in this study. Also, twenty chronic stroke patients will participate in this study.

Settings and conduct

This study will be performed at the Neuromuscular Rehabilitation Research Center. Subjects will stand from sitting positions with different foot positions (1. The affected leg will place behind the unaffected leg. 2. The unaffected leg will place behind the affected leg. 3. both legs place symmetrically.) with and without ankle taping randomly. Ground reaction forces in all direction will be measured by force plate.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Stroke patients should be in the chronic stage and the spasticity score of plantarflexor muscles should be smaller than 3 in the modified Ashworth scale. Exclusion criteria: Medical condition (apart from stroke) that impair patients balance

Intervention groups

Intervention group: Ankle taping on the paretic side is intervention in this study. Kinesio tape (KT) is a thin, highly elastic material which may be used as a modality to correct joint position, increase proprioception, and increase or inhibit muscle recruitment. The KT will be used once in the affected ankle.

Main outcome variables

Vertical ground reaction force, anterior-posterior ground reaction force, medial-lateral ground reaction force

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20160424027562N6**

Registration date: **2018-09-18, 1397/06/27**

Registration timing: **prospective**

Last update: **2018-09-18, 1397/06/27**

Update count: **0**

Registration date

2018-09-18, 1397/06/27

Registrant information

Name

Roghayeh Mohammadi

Name of organization / entity

Semnan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 3365 4180

Email address

mohammadpt@semums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-10-07, 1397/07/15

Expected recruitment end date

2018-12-06, 1397/09/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of ankle joint taping on the sole of foot loading in sit-to-stand position in chronic stroke patients

Public title

Effects of ankle taping on the sole of foot loading in stroke patients

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

All patients should stand up and sit down independently from a standard chair without using their hands All the patients should be more than 6 months poststroke The spasticity score of plantarflexor muscles should be smaller than 3 in the modified Ashworth scale Stroke patients should be in the chronic stage

Exclusion criteria:

Aphasia Medical condition (apart from stroke) that impair patients balance Skin sensitivity to taping Cognitive deficiency

Age

From **45 years** old to **75 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

N/A

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

Not blinded

Blinding description**Placebo**

Not used

Assignment

Single

Other design features**Secondary Ids**

empty

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

Ethics committee of Semnan University of Medical Sciences

Street address

Semnan University of Medical Sciences, Basij Blvd, Semnan

City

Semnan

Province

Semnan

Postal code

3514799442

Approval date

2018-06-12, 1397/03/22

Ethics committee reference number

IR.SEMUMS.REC.1397.003

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

Stroke

ICD-10 code

I67.9

ICD-10 code description

Cerebrovascular disease, unspecified

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

Vertical ground reaction force

Timepoint

Before and during intervention

Method of measurement

Force plate

Secondary outcomes**1****Description**

Anterior - posterior ground reaction force

Timepoint

Before and during intervention

Method of measurement

Force plate

2**Description**

Medial - lateral ground reaction force

Timepoint

Before and during intervention

Method of measurement

Force plate

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

Intervention group: Ankle taping on the paretic side is intervention in this study. Kinesio tape (KT) is a thin, highly elastic material which may be used as a modality to correct joint position, increase proprioception, and increase or inhibit muscle recruitment. The KT will be used once in the affected ankle.

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Neuromuscular Rehabilitation Research Center

Full name of responsible person

Roghayeh Mohammadi

Street address

Neuromuscular Rehabilitation Research Center,
Ghods Blvd, Semnan, Iran

City

Semnan

Province

Semnan

Postal code

3519698375

Phone

+98 23 3332 8502

Email

mohamadipt@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Dr Parviz Kokhaei

Street address

Semnan University of Medical Sciences, Basij
Boulevard, Semnan

City

Semnan

Province

Semnan

Postal code

3514799442

Phone

+98 23 3345 1336

Email

P_kokha@yahoo.com

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Semnan 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

Semnan University of Medical Sciences

Full name of responsible person

Roghayeh Mohammadi

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Physiotherapy

Street address

Rehabilitation Faculty, Semnan University of Medical
Sciences, 5 kilometer of Damghan Road, Semnan,
Iran

City

Semnan

Province

Semnan

Postal code

3513138111

Phone

+98 23 3365 4180

Email

mohamadipt@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

Semnan University of Medical Sciences

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Phone

+98 23 3365 4180

Fax**Email**

mohamadipt@gmail.com

Web page address

Person responsible for updating data

Contact

Name of organization / entity

Semnan University of Medical Sciences

Full name of responsible person

Roghayeh Mohammadi

Position

Assistant Professor

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Postal code

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Phone

+98 23 3365 4180

Fax**Email**

mohamadipt@gmail.com

Web page address

Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available