

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

10 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

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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

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**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,  
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## Person responsible for scientific inquiries

#### Contact

**Name of organization / entity**

Semnan University of Medical Sciences

**Full name of responsible person**

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**Position**

Assistant Professor

**Latest degree**

Ph.D.

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## Person responsible for updating data

### Contact

**Name of organization / entity**

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**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