

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

23 Jul 2026

### Evaluation of the effect of mirror therapy on motor ability of patients with stroke referred to the neurology department of Imam Reza hospital of Kermanshah

#### Protocol summary

##### Study aim

Investigation of the effect of mirror therapy on motor ability of patients with stroke referred to the neurology department of Imam Reza hospital of Kermanshah

##### Design

This study is a not blinded clinical trial. The study population included all patients with stroke referring to Imam Reza hospital of Kermanshah city. 64 eligible patients will be selected conveniently and randomly assigned to intervention and control groups.

##### Settings and conduct

The participants and the researcher will know which group will be under the mirror therapy.

##### Participants/Inclusion and exclusion criteria

Inclusion criteria: People with stroke diagnosed by a neurologist based on the results of CT scans and MRI; At least 1 month passed from the time of the occurrence of stroke  
Exclusion criteria: Recurrence of stroke

##### Intervention groups

In the intervention group, in addition to the usual rehabilitation program, the mirror treatment will be performed in the morning shifts for 20 sessions of 30 minutes per day, and for each upper and lower limb, 15 minutes for each limb. In the control group, only the usual rehabilitation program will be conducted by a rehabilitation specialist with a researcher's control for 20 sessions of 30 minutes in the morning shifts.

##### Main outcome variables

Motor function; walking ability; motor recovery

#### General information

##### Reason for update

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT20130812014333N88**

Registration date: **2018-03-14, 1396/12/23**

Registration timing: **prospective**

Last update: **2018-03-14, 1396/12/23**

Update count: **0**

##### Registration date

2018-03-14, 1396/12/23

##### Registrant information

###### Name

Feizollah Foroughi

###### Name of organization / entity

Kermanshah University of Medical Sciences

###### Country

Iran (Islamic Republic of)

###### Phone

+98 83 1821 4653

###### Email address

fforoughi@kums.ac.ir

##### Recruitment status

**Recruitment complete**

##### Funding source

##### Expected recruitment start date

2018-03-16, 1396/12/25

##### Expected recruitment end date

2018-04-14, 1397/01/25

##### Actual recruitment start date

empty

##### Actual recruitment end date

empty

##### Trial completion date

empty

##### Scientific title

Evaluation of the effect of mirror therapy on motor ability of patients with stroke referred to the neurology department of Imam Reza hospital of Kermanshah

##### Public title

The effect of mirror therapy on motor abilities of patients with stroke

**Purpose**  
Treatment

**Inclusion/Exclusion criteria**  
**Inclusion criteria:**  
People with stroke diagnosed by a neurologist based on the results of CT scans and MRI At least 1 month passed from the time of the occurrence of stroke No any known disease causing motor defects, such as MS, Parkinson's, Myopathy, Arthritis and ...  
**Exclusion criteria:**  
Recurrence of stroke Unwillingness to continue the rehabilitation program Having diseases that prevent a person from performing a rehabilitation program (such as trauma, severe infection)

**Age**  
From **30 years** old to **65 years** old

**Gender**  
Both

**Phase**  
3

**Groups that have been masked**  
*No information*

**Sample size**  
Target sample size: **46**

**Randomization (investigator's opinion)**  
Randomized

**Randomization description**  
Individual randomization by random number table via code receipt

**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 of Kermanshah University of Medical Sciences

##### Street address

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences, Building No.2, Shahid Beheshti,

##### City

Kermanshah

##### Province

Kermanshah

##### Postal code

6715847141

#### Approval date

2017-07-19, 1396/04/28

#### Ethics committee reference number

KUMS.REC.1396.195

## Health conditions studied

### 1

#### Description of health condition studied

stroke

#### ICD-10 code

I63.5

#### ICD-10 code description

Cerebral infarction due to unspecified occlusion or stenosis of cerebral arteries

## Primary outcomes

### 1

#### Description

Motor function

#### Timepoint

The beginning and end of the study

#### Method of measurement

Based on Function Index Measure(FIM)

### 2

#### Description

The ability to walk

#### Timepoint

The beginning and end of the study

#### Method of measurement

Based on the questionnaire Function Ambulation Categories(FAC)

### 3

#### Description

Motion recovery (brunnstrom)

#### Timepoint

The beginning and end of the study

#### Method of measurement

Based on the questionnaire Brunnstorm

### 4

#### Description

Self care

#### Timepoint

The beginning and end of the study

#### Method of measurement

Based on Barthel Index Scale

## Secondary outcomes

empty

## Intervention groups

1

### Description

In the intervention group, in addition to the usual rehabilitation program, the mirror treatment will be performed in the morning shifts for 20 sessions of 30 minutes per day, and for each upper and lower limb, each limb for 15 minutes

### Category

Other

2

### Description

In the control group, only the usual rehabilitation program will be conducted by a rehabilitation specialist with a researcher's control for 20 sessions of 30 minutes in the morning shifts.

### Category

Other

## Recruitment centers

1

### Recruitment center

#### Name of recruitment center

Emam Reza Hospital

#### Full name of responsible person

Maryam Janatmakan

#### Street address

Emam Reza Hospital, Parastar Boulevard

#### City

Kermanshah

#### Province

Kermanshah

#### Postal code

6715847141

#### Phone

+98 83 3427 6306

#### Email

Maryam.Janatmakan@kums.ac.ir

## Sponsors / Funding sources

1

### Sponsor

#### Name of organization / entity

Kermanshah University of Medical Sciences

#### Full name of responsible person

Dr. Farid Najafi

#### Street address

Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences, Building No.2, Shahid Beheshti

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#### Province

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#### Postal code

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#### Phone

+98 83 3836 0014

#### Email

fnajafi@kums.ac.ir

#### Grant name

#### Grant code / Reference number

#### Is the source of funding the same sponsor organization/entity?

Yes

#### Title of funding source

Kermanshah 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

Kermanshah University of Medical Sciences

#### Full name of responsible person

Maryam Janatmakan

#### Position

Nurse

#### Latest degree

Master

#### Other areas of specialty/work

Nursery

#### Street address

Emam Reza Hospital, Parastar Boulevard

#### City

Kermanshah

#### Province

Kermanshah

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+98 83 3427 6306

#### Email

Maryam.Janatmakan@kums.ac.ir

## Person responsible for scientific inquiries

### Contact

#### Name of organization / entity

Kermanshah University of Medical Sciences

#### Full name of responsible person

Dr. Kamran Vafaei

#### Position

Nurse

#### Latest degree

Master  
**Other areas of specialty/work**  
Nursery  
**Street address**  
Emam Reza Hospital, Parastar Boulevard  
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## Person responsible for updating data

### Contact

**Name of organization / entity**  
Kermanshah University of Medical Sciences  
**Full name of responsible person**  
Maryam Janatmakan  
**Position**  
Nurse  
**Latest degree**  
Master  
**Other areas of specialty/work**  
Nursery  
**Street address**  
Emam Reza Hospital, Parastar Boulevard  
**City**  
Kermanshah  
**Province**  
Kermanshah  
**Postal code**  
6715847141  
**Phone**  
+98 83 3427 6306

**Email**  
Maryam.Janatmakan@kums.ac.ir

## Sharing plan

### Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

### Study Protocol

Yes - There is a plan to make this available

### Statistical Analysis Plan

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

### Informed Consent Form

Yes - There is a plan to make this available

### Clinical Study Report

Yes - There is a plan to make this available

### Analytic Code

Not applicable

### Data Dictionary

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

### Title and more details about the data/document

The main outcomes of the study will be shared.

### When the data will become available and for how long

3 months

### To whom data/document is available

If requested, results will be made available to other academic researchers

### Under which criteria data/document could be used

Collected data is confidential and will not be shared with anyone else

### From where data/document is obtainable

To receive the documentation, email send for update manager

### What processes are involved for a request to access data/document

En In a 25-day period, the documents will be sent e-mail

### Comments