Clinical Trial Protocol
Iranian Registry of Clinical Trials

18 Nov 2026

The investigation of Mirror Therapy on hand function in adults with hemiparesis in Semnan

Protocol summary

Summary

Rehabilitation of the affected paretic arm after stroke is one of the main concerns of occupational therapists, especially in the chronic phase. the aims of this study is to investigate the effect of MIRROR THERAPY on hand function in adults with hemiparesis.In this randomized double blinded study a total of 30 chronic stroke patients (mean time post .onset, 6 mounts) will be assigned to the mirror group (n = 15) or the control group (n = 15). Inclusion criteria is spend at least 6 months after stroke and the Ability to understand therapeutic instructions and exclusion criteria includes s any structural problems that hinder the implementation of treatment program and cognitive , perceptual or visual deficits that interfere with treatment program.Treatment program will consist of 15 sessions which every session for the mirror group includes bi-manual training with mirror and conventional therapies, and for the control group includes bi-manual training without mirror and conventional therapies. hand function will be assessed before and after treatments through FMA,Box&Block test and Jamar dynamometer.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201201128713N1**
Registration date: **2012-01-25, 1390/11/05**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2012-01-25, 1390/11/05

Registrant information

Name

Hossein Alibakhshi

Name of organization / entity

Semnan University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 23 1335 4180

Email address

alibakhshi@sem-ums.ac.ir

Recruitment status

Recruitment complete

Funding source

Neuromuscular Research Center, Semnan University of medical sciences

Expected recruitment start date

2012-01-21, 1390/11/01

Expected recruitment end date

2012-04-20, 1391/02/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The investigation of Mirror Therapy on hand function in adults with hemiparesis in Semnan

Public title

Effect of Mirror therapy in the treatment of adult patients with hemiplegia

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Spend at least 6 months after stroke, the Ability to understand therapeutic instructions
exclusion criteria: any structural problems that hinder the implementation of treatment program, cognitive or perceptual deficits that interfere with treatment program , visual dificulties

Age
From **25 years** old to **60 years** old
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **30**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Not used
Assignment
Parallel
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Semnan University of medical sciences
Street address
Semnan- Semnan University of medical sciences
City
Semnan
Postal code
Approval date
2012-01-10, 1390/10/20
Ethics committee reference number
90/134961

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
dexterity
Timepoint
before/after treatment
Method of measurement
Box & Block Test

2

Description
hand function
Timepoint
befor / after treatment
Method of measurement
Fugl Meyer Assessment r

3

Description
strengthening grip
Timepoint
before/after treatment
Method of measurement
Jammar Dynamometer

Secondary outcomes

empty

Intervention groups

1

Description
Intervention: mirror therapy + conventional occupational therapy
Category
Rehabilitation

2

Description
Control : bimanual training + conventional occupational therapy
Category
Rehabilitation

Recruitment centers

1

Recruitment center
Name of recruitment center
Neuro-muscular Research Center
Full name of responsible person
Street address
City
Semnan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity

research and technology deputy of Semnan university of medical sciences

Full name of responsible person
Dr. Raheb Ghorbani

Street address
Semnan university of medical sciences

City
Semnan

Grant name

Grant code / Reference number

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

Title of funding source
research and technology deputy of Semnan 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
Semnan University of medical sciences

Full name of responsible person
Hossein Alibakhshi

Position
Msc. Occupational therapy/ lecturer

Other areas of specialty/work

Street address
Neuromuscular research center- Ghods blvd.

City
Semnan

Postal code

Phone
+98 23 1332 8502

Fax

Email
alibakhshi@sem-ums.ac.irhalibakhshi.m@gmail.com

Web page address

Person responsible for scientific inquiries

Contact

Name of organization / entity
Semnan University of medical sciences

Full name of responsible person
Hossein Alibakhshi

Position
Msc. Occupational therapy

Other areas of specialty/work

Street address
Neuromuscular research center-Ghods blvd.

City
Semnan

Postal code

Phone
+98 23 1332 8502

Fax

Email
alibakhshi@sem-ums.ac.ir halibakhshi.m@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
Hossein Alibakhshi

Position
Msc. Occupational therapy

Other areas of specialty/work

Street address
Neuromuscular research center- Ghods blvd.

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Phone
+98 23 1332 8502

Fax

Email
alibakhshi@sem-ums.ac.irhalibakhshi.m@gmail.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