

Clinical Trial Protocol

Iranian Registry of Clinical Trials

30 Jun 2026

Effectiveness Cognitive rehabilitation therapy (CRT) And Transcranial Direct Current Stimulation (TDCS) In people with spatial neglect

Protocol summary

Study aim

Effectiveness Cognitive rehabilitation therapy (CRT) And Transcranial Direct Current Stimulation (TDCS) In people with spatial neglect

Design

Clinical trial, double blind, randomized, with two groups.

Settings and conduct

A sample will be conducted of hospitals affiliated to Iran University of Medical Sciences. Interventions will be done in the brain and cognition clinic of the cognitive neuroscience research institute.

Participants/Inclusion and exclusion criteria

stroke diagnosed by Neurologist and MRI ,No aphasia and associated neurological disorders (Parkinson's, MS, ALS, Alzheimer's disease),First stroke, 25 - 80 years old, At least 9 successful grades education,Middle cerebral attract with spatial neglect symptom, 1-12 months post stroke

Intervention groups

first group in 10 session both cognitive rehabilitation training and TDCS for 45 minute second group 10 session cognitive rehabilitation training and sham for 45 minute

Main outcome variables

improving visual attention function

General information

Reason for update

Acronym

CRT - TDCS

IRCT registration information

IRCT registration number: **IRCT20120910010806N7**

Registration date: **2018-12-25, 1397/10/04**

Registration timing: **retrospective**

Last update: **2018-12-25, 1397/10/04**

Update count: **0**

Registration date

2018-12-25, 1397/10/04

Registrant information

Name

Malahat Akbarfahimi

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2222 7124

Email address

akbarfahimi.m@iums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-10-07, 1397/07/15

Expected recruitment end date

2018-12-21, 1397/09/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness Cognitive rehabilitation therapy (CRT) And Transcranial Direct Current Stimulation (TDCS) In people with spatial neglect

Public title

Effectiveness Cognitive rehabilitation therapy (CRT) And Transcranial Direct Current Stimulation (TDCS) In people with spatial neglect

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

stroke diagnosed by Neurologist and MRI No aphasia and associated neurological disorders (Parkinson's, MS, ALS, Alzheimer's disease) First stroke 25 - 80 years old At least 9 successful grades education Middle cerebral attract with spatial neglect symptom 1-12 months post stroke

Exclusion criteria:

Not attending over 2 session cognitive treatment

Age

From **25 years** old to **80 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Investigator
- Outcome assessor
- Data analyser

Sample size

Target sample size: **6**

Randomization (investigator's opinion)

Randomized

Randomization description

Review the records of in patients and outpatients stroke patients who referred to the department of the neurology of hospitals of Iran University of Medical Sciences between 1 to 12 months ago , allocated the eligible patients into 2 groups by simple randomization using digits table by a blind person to the aim of the study

Blinding (investigator's opinion)

Double blinded

Blinding description

The participants will be unaware of the group they are entering. This means that after randomization by the therapist, the patient does not know which treatment method will be used for him Because only the remedy is mentioned in the satisfaction and there are no explanations for the two therapies. After completing the treatment, the data will be entered in SPSS and statistically analysis by blind person to the 2 treatment groups.

Placebo

Used

Assignment

Parallel

Other design features

one of the groups get both cognitive training exercises and trans cranial current stimulation. and the other group get cognitive training exercises and sham intervention.

Secondary Ids

empty

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

Ethics committee of Iran University of Medical Sciences

Street address

Iran University of Medical Sciences, Shahid Hemmat Highway, Tehran

City

Tehran

Province

Tehran

Postal code

۱۴۳۹۶۱۴۵۳۵

Approval date

2018-08-04, 1397/05/13

Ethics committee reference number

IR.IUMS.REC.1397.152

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

Cerebral Vascular Accident

ICD-10 code

G46.0

ICD-10 code description

Middle cerebral artery syndrome

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

improving function of visual attention

Timepoint

assessment in every 2 session

Method of measurement

star cancellation . line bisection . eye tracker device

Secondary outcomes

empty

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

Intervention group: TDCS and Cognitive rehabilitation training. Group of intervention: first group of TDCS and cognitive rehabilitation. group 2: applying cognitive rehabilitation to the right hemisphere and the right hemisphere in this group, in addition to applying restoration computer tasks and saccadic training in addition to 10 sessions and each session for 20 min (at the same time with restoration training) with intensity of 2 ms, were applied while performing computer cognitive tasks. anode electrode was applied to the P4 area and catode electrode in area P.

Category

Rehabilitation

2**Description**

Intervention group: cognitive rehabilitation training and sham. Group 2: using the cognitive rehabilitation of computer tasks associated with the اعمال of the right hemisphere and the left side of the left hemisphere. The intervention in this group, in addition to carrying out restoration computer assignments and saccadic training, were applied three times per week for 10 minutes and each session for 20 min (at the same time with restoration training), while applying computer cognitive tasks. anode electrode was applied to the P4 area and catode electrode in area P.

Category

Rehabilitation

Recruitment centers**1****Recruitment center****Name of recruitment center**

Firuzgar hospital

Full name of responsible person

Mehdi Nikobakht

Street address

Beh Afarin St, Karim Khan St, Vali-e-Asr Square, Tehran

City

Tehran

Province

Tehran

Postal code

۱۵۹۳۷۴۷۸۱۱

Phone

+98 21 8214 1600

Email

h_firoozgar@yahoo.com

Web page address<http://firoozgar.iums.ac.ir/>**Sponsors / Funding sources****1****Sponsor****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Seyed Kazem Malekoti

Street address

Iran University of Medical Sciences, Shahid Hemmat Highway, Tehran

City

Tehran

Province

Tehran

Postal code

1449614535

Phone

+98 21 86709

Email

PR@iums.ac.ir

Web page address<http://iums.ac.ir>**Grant name****Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Iran University of Medical Sciences

Proportion provided by this source

1

Public or private sector

Private

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin**Type of organization providing the funding**

Other

Person responsible for general inquiries**Contact****Name of organization / entity**

Institute for Cognitive Science Studies

Full name of responsible person

Parviz Ebadi

Position

Masters student

Latest degree

Bachelor

Other areas of specialty/work

Psychology

Street address

No 33, East of Zartosht, above Vali-e-Asr Square, Tehran

City

Tehran

Province

Tehran

Postal code

1413953461

Phone

+98 21 8880 2063

Email

p.ebadishokollahi@mail.sbu.ac.ir

Web page address<http://www.bacogc.com/>**Person responsible for scientific inquiries****Contact****Name of organization / entity**

Iran University of Medical Sciences

Full name of responsible person

Malahat Akbarfahimi

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Occupational Therapist

Street address

Faculty of Rehabilitation Sciences, Iran University of
Medical Sciences, Workers' Street, Shah Nazari
Street, Mother's square, Mirdamad, Tehran

City

tehran

Province

Tehran

Postal code

15459-13478

Phone

+98 21 2222 7124

Email

rehab@iums.ac.ir

Web page address

<http://rehab.iums.ac.ir/>

Person responsible for updating data

Contact

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Malahat Akbarfahimi

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Neuroscience

Street address

Faculty of Rehabilitation Sciences, Iran University of
Medical Sciences, Workers' Street, Shah Nazari
Street, Mother's square, Mirdamad, Tehran

City

Tehran

Province

Tehran

Postal code

15459-13478

Phone

+98 21 2222 7124

Email

rehab@iums.ac.ir

Web page address

<http://rehab.iums.ac.ir/>

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

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

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