Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Sep 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 diagnoised 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

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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 diagnoised 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

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Tehran

Province
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Postal code
۱۴۴۹۶۱۴۵۳۵

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 hemisphereThe 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
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Sponsors / Funding sources

1

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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
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
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Position
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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