Clinical Trial Protocol
Iranian Registry of Clinical Trials

25 Jun 2026

The effectiveness of transcranial Direct Current Stimulation of the brain (tDCS) among people with Depressive Disorder

Protocol summary

Summary

The aim of the present study was to investigate the effects of daily transcranial direct current stimulation (tDCS) sessions in treatment of major depressive disorder. Twenty patients with major depressive disorder received 10 daily sessions of active or sham tDCS. Inclusion criteria: Diagnose of major depressive disorder; age over 18 years; lack of co-morbid disorders in axis I and II. Exclusion criteria: Other axis I or II comorbidity; mental retardation; substance abuse or dependence ; heart disease; a history of seizures and epileps; treatment failure of ECT for the current period of depression; pregnancy; medication concurrent. Change of the depression scores was assessed in before treatment, after acute treatment and one month after the end of treatment.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015122525691N1**
Registration date: **2016-04-28, 1395/02/09**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2016-04-28, 1395/02/09

Registrant information

Name

negin Paast

Name of organization / entity

Qom University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 88605323

Email address

dr.mrmozafari@muq.ac.ir

Recruitment status

Recruitment complete

Funding source

Qom University of Medical Sciences

Expected recruitment start date

2016-08-25, 1395/06/04

Expected recruitment end date

2016-10-25, 1395/08/04

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effectiveness of transcranial Direct Current Stimulation of the brain (tDCS) among people with Depressive Disorder

Public title

The effectiveness of transcranial Direct Current Stimulation of the brain (tDCS) among people with Depressive Disorder

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Diagnose of major depressive disorder; age over 18 years; lack of co-morbid disorders in axis I and II. Exclusion criteria: Other axis I or II comorbidity; mental retardation; substance abuse or dependence ; heart disease; a history of seizures and epileps; treatment failure of ECT for the current period of depression; pregnancy; medication concurrent

Age

From **18 years** old to **65 years** old

Gender

Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **20**
Randomization (investigator's opinion)
Randomized
Randomization description
Blinding (investigator's opinion)
Double blinded
Blinding description
Placebo
Used
Assignment
Single
Other design features
Meaning of placebo in this study was sham group that not receive tDCS treatment.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Qom University of Medical Sciences
Street address
Qom. Iran
City
Qom
Postal code
26184 06288
Approval date
2015-11-14, 1394/08/23
Ethics committee reference number
IR.MUQ.REC.021

Health conditions studied

1

Description of health condition studied
Major Depressive Disorder
ICD-10 code
F30-F39
ICD-10 code description
This block contains disorders in which the fundamental disturbance is a change in affect or mood to depression (with or without associated anxiety) or to elation. The mood change is usually accompanied by a change in the overall level of activity; most of

Primary outcomes

1

Description
The reduction in depression scores
Timepoint
Before treatment, after acute treatment, one month after the end of treatment
Method of measurement
Inventory

Secondary outcomes

1

Description
The reduction in anxitey scores
Timepoint
Before treatment, after acute treatment, one month after the end of treatment
Method of measurement
Inventory

Intervention groups

1

Description
Intervention group: tDCS was administered with DC-stimulator. Twenty minutes of 2 mA anodal and cathodal tDCS was delivered via two conductive rubber electrodes encased in saline soaked sponges (surface area 5 cm 7 cm) held in place with a broad flexible band. Anodal stimulation was delivered to the F3 (10-20 system) and cathodal to the supraorbital
Category
Treatment - Devices

2

Description
Control group: The sham procedure consisted of an initial 30s ramp-in phase of active stimulation and 30¬s a ramp-out phase.
Category
Treatment - Devices

Recruitment centers

1

Recruitment center
Name of recruitment center
Ravan Isatis Counseling Center
Full name of responsible person
Negin Paast
Street address
City
Tehran

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Qom University of Medical Sciences
Full name of responsible person
Hossein Saghafi (Deputy of Research and Technology)
Street address
1/1 Street, Fourth Street, No. 83, Department of Research and Technology Qom University of Medical Sciences, Iran,Qom, Safashahr.
City
Qom
Grant name
49616
Grant code / Reference number
Vice chancellor for research
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Qom 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
Qom University of Medical Sciences
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Parvin Rahmatinejad
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Person responsible for updating data

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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