

Clinical Trial Protocol

Iranian Registry of Clinical Trials

29 Jun 2026

The effect of Transcranial Direct Current Stimulation (tDCS) on naming speed and verbal fluency in youth of Eqlid city

Protocol summary

Study aim

The effect of tDCS on naming speed and verbal fluency

Design

Applicants are randomly divided into two groups of intervention and control

Settings and conduct

The tDCS device will apply with a specific pattern in 10 sessions of 20 minutes on two groups. The test of naming speed test and verbal fluency test are taken for both groups.

Participants/Inclusion and exclusion criteria

Including criteria: 20-33 years old, monolingual (Persian), right-handed. Exclusion criteria: Pregnancy, Having seizure, Heart diseases, Using of heart battery and other implanted bioelectric devices

Intervention groups

Intervention group: 12 youth of Eqlid city with 22-33 years old which tDCS will apply with intensity of ... mA at head skin and region of ... and ... for 7 sessions of 20 minutes period. Control group: 12 youth of Eqlid city with 22-33 years old which tDCS with the same pattern of Intervention group will apply but at off (sham) mode

Main outcome variables

Speed Naming Verbal Fluency

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190620043953N1**

Registration date: **2019-09-22, 1398/06/31**

Registration timing: **retrospective**

Last update: **2019-09-22, 1398/06/31**

Update count: **0**

Registration date

2019-09-22, 1398/06/31

Registrant information

Name

Amir Sharafat

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 35 3828 6667

Email address

dr.sharafat.amir@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-07-27, 1398/05/05

Expected recruitment end date

2019-08-16, 1398/05/25

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of Transcranial Direct Current Stimulation (tDCS) on naming speed and verbal fluency in youth of Eqlid city

Public title

The effect of Transcranial Direct Current Stimulation (tDCS) on naming speed and verbal fluency

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

20-33 years old monolingual (Persian) right-handed

Exclusion criteria:

Pregnancy Having seizure Heart diseases Using of heart battery and other implanted bioelectric devices

Age

From **20 years** old to **33 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **24**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomized

Blinding (investigator's opinion)

Single blinded

Blinding description

The tDCS device is running off (sham mode) for participants in the sham group

Placebo

Not used

Assignment

Factorial

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics committee of Ahwaz Shahid Chamran University

Street address

Ahwaz Shahid Chamran University, Golestan Blvd., Ahwaz City

City

Ahwaz

Province

Khouzestan

Postal code

6135813453

Approval date

2019-07-23, 1398/05/01

Ethics committee reference number

IR.SCU.REC.1398.24326381

Health conditions studied

1

Description of health condition studied

Naming speed and verbal fluency

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Naming speed score

Timepoint

before tDCS, during tDCS and after each meeting tDCS

Method of measurement

naming speed test

2

Description

verbal fluency score

Timepoint

before tDCS, during tDCS and after each meeting tDCS

Method of measurement

verbal fluency test

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: 12 youth of Eqilid city with 22-33 years old which tDCS will apply with intensity of ... mA at head skin and region of ... and ... for 7 sessions of 20 minutes period

Category

N/A

2

Description

Control group: 12 youth of Eqilid city with 22-33 years old which tDCS with the same pattern of Intervention group will apply but at off (sham) mode

Category

N/A

Recruitment centers

1

Recruitment center

Name of recruitment center

Aramesh Clinic with the approval of Shahid Chamran University

Full name of responsible person

Fahimeh Sharifi

Street address

No 95, Cheraqi Alley, Imam Khomeini Street.

City

Eqilid

Province

Fars

Postal code

7381636337

Phone

+98 71 4452 5729

Email

Last_vernal_blossom@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Ahwaz Shahid Chamran University

Full name of responsible person

Manijeh Shehni Yeilagh

Street address

Shahid chamran university, Golestan Blvd., Ahwaz
City

City

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Province

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Phone

+98 61 3333 0011

Email

shehniyailaghm@yahoo.com

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Ahwaz Shahid Chamran University

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

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Ahwaz Shahid Chamran University

Full name of responsible person

Fahimeh sharifi

Position

Master Student of Cognitive science

Latest degree

Bachelor

Other areas of specialty/work

Speech therapy

Street address

No. 95. Imam Khomeini Street., Cheraqi Alley

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Amir Sharafat

Position

Neurologist

Latest degree

Specialist

Other areas of specialty/work

Neuroscience

Street address

No.6,Binesh21 Ave,Javad Blvd.,Yazd,

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Yazd

Province

Yazd

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Email

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Person responsible for updating data

Contact

Name of organization / entity

Shahid Chamran University

Full name of responsible person

Fahimeh Sharifi

Position

Cognitive science Collage Student

Latest degree

Bachelor

Other areas of specialty/work

Speech therapy

Street address

No. 95. Cheraqi Alley,. Imam Khomeini Street

City

Eqlid

Province

Fars

Postal code

7381636337

Phone

+98 71 4452 5729

Email

Sharing plan

Deidentified Individual Participant Data Set (IPD)

No - There is not a plan to make this available

Justification/reason for indecision/not sharing IPD

There is no need to publish the individual participant data and only the collected data will be published

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