

# 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**

Ahwaz

**Province**

Khouzestan

**Postal code**

۶۱۳۵۸۱۳۴۵۳

**Phone**

+98 61 3333 0011

**Email**

shehniyailagham@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

**City**

Eqlid

**Province**

Fars

**Postal code**

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**Email**

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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,

**City**

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**Postal code**

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**Email**

dr.sharafat.amir@gmail.com

## 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