

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Jul 2026

study the Transcranial Direct Current Stimulation(TDCS) on treatment-resistant parasitic epilepsy attacks

Protocol summary

Study aim

study the Transcranial Direct Current Stimulation (TDCS) on treatment-resistant parasitic epilepsy attacks in 6-16 years old children

Design

Clinical trial with control and intervention group of 10 person in each group, community based and pragmatic, in parallel, double-blind and randomized with a table

Settings and conduct

The study was conducted double blind and patients from the Ghaem Hospital have been enrolled. Throughout the study, anti-epileptic drugs that the child consumes prior entering the study continues, without any interactions with the amount and type of drug they used before as in the absence of any effect of this method, more recurrence of attacks would not be occurred.

Participants/Inclusion and exclusion criteria

Patients with temporal lobe epilepsy and resistant seizures to medical treatment according to neurologist confirmation and parental satisfaction

Intervention groups

In the Intervention group treatment resistant epilepsy Patients in this group will be Transcranial Direct Current stimulated from the skull for 20 minutes once a day for 5 consecutive days and in the control group, the electrodes will be only put on the head and after 10 seconds when the heat created it will be turned off

Main outcome variables

The number of epileptic waves in the EEG

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20161230031668N2**

Registration date: **2018-08-04, 1397/05/13**

Registration timing: **registered_while_recruiting**

Last update: **2018-08-04, 1397/05/13**

Update count: **0**

Registration date

2018-08-04, 1397/05/13

Registrant information

Name

farah ashrafzadeh

Name of organization / entity

Mashhad University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-03-01, 1396/12/10

Expected recruitment end date

2018-09-01, 1397/06/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

study the Transcranial Direct Current Stimulation(TDCS) on treatment-resistant parasitic epilepsy attacks

Public title

Study the effect of brain electrical stimulation on epilepsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Patient consent
Diagnosis of temporal lobe epilepsy based on clinical symptoms and evidence of a brain barrier by a neurologist
Treatment resistant seizures

Exclusion criteria:**Age**

From **6 years** old to **16 years** old

Gender

Both

Phase

3

Groups that have been masked

- Participant
- Investigator

Sample size

Target sample size: **20**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple randomization using the numbers table

Blinding (investigator's opinion)

Double blinded

Blinding description

This study was performed with full satisfaction of the parents of the patient, while the patient and the investigator do not know which of the participants are in the intervention group or control group.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Ethics committee of Mashhad University of Medical Sciences

Street address

Ghoreishi building, Daneshgah AVE

City

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Razavi Khorasan

Postal code

99199-91766

Approval date

2018-01-31, 1396/11/11

Ethics committee reference number

IR.MUMS.fm.REC.1396.666

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

Epilepsy

ICD-10 code

G40

ICD-10 code description

Epilepsy and recurrent seizures

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

The number of epileptic waves in the EEG

Timepoint

At the beginning of the study and 7 days after the end of intervention

Method of measurement

NIHON KOHDEN EEG-1200 EEG machine models related to Andisheh company

Secondary outcomes

empty

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

Intervention group: Treatment resistant epilepsy Patients in this group will be Transcranial Direct Current stimulated from the skull for 20 minutes once a day for 5 consecutive days.

Category

Treatment - Devices

2**Description**

Control group: In the control group, the electrodes will be only put on the head and after 10 seconds when the heat created it will be turned off

Category

Treatment - Devices

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

Ghaem Hospital

Full name of responsible person

Farah Ashrafzadeh

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Ahmad abad AVE, Ghaem hospital

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
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Grant name

Grant code / Reference number

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

No

Title of funding source

Mashhad University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

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
Mashhad University of Medical Sciences
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Person responsible for updating data

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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

No - There is not a plan to make this available

Statistical Analysis Plan

No - There is not a plan to make this available

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

No - There is not a plan to make this available

Analytic Code

No - There is not a plan to make this available

Data Dictionary

No - There is not a plan to make this available