Clinical Trial Protocol
Iranian Registry of Clinical Trials

05 Jul 2026

Evaluation of therapeutic efficacy of different suggested trans cranial direct current stimulation protocols in obsessive compulsive disorder

Protocol summary

Study aim

The pupose of This study is investigate and achive the best treament protocol for reducing symptoms of OCD.The Target population is 18 to 40 years with OCD Symptoms, referring to the Brain & Cognition Clinic.By the psychiatrist,YBOCS Test scores were higher than 16,They will be selected according to entry and exit criteria and will be divided into 4 groups.symptoms were measured before, after and one month after treatment.

Design

Forty subjects will participate in this double blind randomized clinical study.Three intervention and a sham group will participate.sham controlled clinical trial with a parallel group design and followed for one Month.Finally the data will be analyzed by SPSS software.

Settings and conduct

This survey is a semi-experiment study with Random selection in control and experimental groups, with pretest and post test and follow up.statistical society of this survey is 18 to 45 years old patients suffering from compulsive obsessive disorder going to brain and cognition clinic. sampling methods are 40 persons who were diagnozed to suffer from obssessive disorder after clinical interview by psychiatrist based on DSM5 diagnosis criterion chach 16 or higher grade in(Y-BOCS) Questionnaire.

Participants/Inclusion and exclusion criteria

Inclusion criteria: Diagnosis by a psychiatrist based on DSM5; Score 16 from Yale BrownTest; No Neurological problems. Exclusion criteria: mental retardation; Addiction to drugs and alcohol; psychotic disorders; epilepsy and seizure; pregnancy; patient dissatisfaction.

Intervention groups

30 patients will be placed in 3 groups for 5 days (twice a day) at 2 mA with the anode over the right Occipital and the cathode over the orbital frontal cortex and the complementary motor cortex and the left Occipital area.10 people in the control group who will be sham stimulated.

Main outcome variables

Severity of obsessive-compulsive symptoms

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20180624040217N1**
Registration date: **2018-08-01, 1397/05/10**
Registration timing: **registered_while_recruiting**

Last update: **2018-08-01, 1397/05/10**
Update count: **0**

Registration date

2018-08-01, 1397/05/10

Registrant information

Name

sara Akbari

Name of organization / entity

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-19, 1397/01/30

Expected recruitment end date

2018-08-21, 1397/05/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date
empty

Scientific title
Evaluation of therapeutic efficacy of different suggested trans cranial direct current stimulation protocols in obsessive compulsive disorder

Public title
Find the best brain electrical stimulation protocol for obsessive-compulsive disorder

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
Obsessive-Compulsive Disorder diagnosis based on DSM-5 Age range 18 to 45 No neurologic deficits. No dependence on drugs and alcohol Test score of 16 and higher than the YBOCS

Exclusion criteria:
Pregnancy and lactation Low IQ The presence of metal or implant in the head Patient dissatisfaction or withdrawal Epilepsy and seizure Psychotic disorders

Age
From **18 years** old to **45 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant
- Care provider
- Outcome assessor
- Data analyser

Sample size
Target sample size: **40**

Randomization (investigator's opinion)
Not randomized

Randomization description

Blinding (investigator's opinion)
Double blinded

Blinding description
In this research,Participating groups and patients, Evaluator,And who analyzes the data that is out of the team, and the caregivers in the research will be blind.They will be randomly assigned to the test and control groups.Those controls depending on the group that participated in it, and Beside them, they will receive the sham stimulant protocol.Exactly the same operation without electrical stimulation on sham intervention group will be implemented.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Islamic Azad University of Karaj Branch

Street address
Islamic Azad University of Kararaj , Moujzen Blvd, Rajai Shahr, Karaj Town

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Alborz

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3148635731

Approval date
2017-11-23, 1396/09/02

Ethics committee reference number
IR.IAU.K.R.E.C.RC

Health conditions studied

1

Description of health condition studied
OCD

ICD-10 code
F42

ICD-10 code description
Obsessive-compulsive disorder

Primary outcomes

1

Description
Obsessive Compulsive Symptoms

Timepoint
Before the intervention after the last intervention

Method of measurement
(YBOCS) Test

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: 10 patients were treated for 5 consecutive days, 30 minutes twice daily, Anode applied on the right Occipital and cathode in the Orbitofrontal cortex area at 2 mA.

Category
Treatment - Devices

2

Description
Intervention group: 10 patients were treated for 5 consecutive days, 30 minutes twice daily,Anode applied on the right Occipital and cathode over the Pre-SMA cortex area at 2 mA.
Category
Treatment - Devices

3

Description
Intervention group: 10 patients were treated for 5 consecutive days, 30 minutes twice daily,Anode applied over the right Occipital and cathode over the left Occipital area at 2 mA.
Category
Treatment - Devices

4

Description
Control group: 10 patients for 5 consecutive days, 30 minutes twice a day over the Occipital Will be test Symbolically and without brain stimulation.
Category
Treatment - Devices

Recruitment centers

1

Recruitment center
Name of recruitment center
Brain & Cognition Clinic
Full name of responsible person
Peyman Hasaini Abharian
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Web page address
http://www.bcclinic.ir
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
Sponsor for the study
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
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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
No more information.
Study Protocol
No - There is not 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
No - There is not 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
No - There is not a plan to make this available
Data Dictionary
Undecided - It is not yet known if there will be a plan to make this available