

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 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 diagnosed to suffer from obsseusive 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)

Phone

+98 26 3441 8143

Email address

sarahakbari64@gmail.com

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

City

Karaj

Province

Alborz

Postal code

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

Street address

No 33, East Zartosht Street, Tehran Province, Tehran

City

Tehran

Province

Tehran

Postal code

1439957131

Phone

+98 21 8609 3160

Fax

+98 21 8880 2063

Email

info@bacogc.com

Web page address

http://bacogc.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Iran University of Medical Sciences

Full name of responsible person

Peyman Hasni Abarian

Street address

No 33, East Zartosht Ave, Valiasr Ave, Tehran

City

Tehran

Province

Tehran

Postal code

۱۴۳۹۶۱۴۵۳۵

Phone

+98 21 8880 2063

Fax

+98 21 8890 0526

Email

info@bacogc.com

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

Islamic Azad University

Full name of responsible person

Sara Akbari

Position

Consultant

Latest degree

Bachelor

Other areas of specialty/work

Psychology

Street address

karaj University; Mouzen Blvd; Rajai Shahr; Karaj Town

City

Karaj

Province

Alborz

Postal code

3148635731

Phone

+98 26 3441 8143

Fax

+98 26 3441 8156

Email
info@kiau.ac.ir
Web page address
http://www.kiau.ac.ir/fa

Person responsible for scientific inquiries

Contact

Name of organization / entity
Islamic Azad University
Full name of responsible person
Peyman Hasani Abhariyan
Position
M.D.Associate professor
Latest degree
Specialist
Other areas of specialty/work
Neuroscience
Street address
No 33,East Zartosht Street,Valiasr Blve,Tehran
City
Tehran
Province
Tehran
Postal code
3148635731
Phone
+98 21 8880 2063
Fax
+98 21 8890 0526
Email
info@kiau.ac.ir
Web page address
http://www.bacogc.com

Person responsible for updating data

Contact

Name of organization / entity
Islamic Azad University
Full name of responsible person
Sara Akbari
Position

Consultant
Latest degree
Bachelor
Other areas of specialty/work
Psychology
Street address
karaj University; Mouzen Blvd; Rajai Shahr; Karaj
Town
City
Karaj
Province
Alborz
Postal code
3148635731
Phone
+98 26 3441 8143
Fax
+98 26 3441 8156
Email
info@kiau.ac.ir
Web page address
http://www.kiau.ac.ir/fa

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