Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

Efficacy of Repetitive Transcranial Magnetic Stimulation in Treating Refractory Obsessive Compulsive Disorder

Protocol summary

Summary

The objective of this study is to evaluate Efficacy of Repetitive Transcranial Magnetic Stimulation in Treating Refractory Obsessive Compulsive Disorder. Patients hospitalized in Farshchian hospital and out-patients will be selected. After obtaining informed consent, these patients will be randomly allocated to either first receiving " repeatetive transcranial magnetic stimulation (rTMS)" and then "Sham condition " or vice versa. Sham stimulation will be made at the site of active treatment but with only the side edge resting on the scalp. It will be administered as high frequency left(HFL) and high frequency right (HFR) for 50 minutes but with the coil angled 45-90 degrees away from the skull in a single-wing tilt position.after two weeks, Bilateral rTMS will be delivered according to the following protocol: high frequency left (HFL) stimulation will initially be applied at 20 Hz, in 25 trains of 1.5 second duration with a 30 second interval between trains and at 100% of the RMT for a total of Approximately 12.5 minutes of stimulation. Following this HFR stimulation will be applied at the same parameters. Therefore a total of Approximately 25 minutes of stimulation will be delivered.Two groups will be compared regarding symptom severity and illness improvement using YBOCS and CGI measures,in 1st,last and two weeks after intervention

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201308041743N11**
Registration date: **2013-11-05, 1392/08/14**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-11-05, 1392/08/14

Registrant information

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Recruitment status

Recruitment complete

Funding source

Research center for behavioral disorders and substance abuse, Hamadan university of medical sciences

Expected recruitment start date

2013-02-19, 1391/12/01

Expected recruitment end date

2014-02-20, 1392/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of Repetitive Transcranial Magnetic Stimulation in Treating Refractory Obsessive Compulsive Disorder

Public title

Efficacy of Repetitive Transcranial Magnetic Stimulation in Treating Refractory Obsessive Compulsive Disorder

Purpose

Treatment

Inclusion/Exclusion criteria
Inclusion Criteria: •voluntary and competent to consent based on their ability to provide a spontaneous narrative description of the key elements of the study •have a Structured Clinical Interview for DSM-IV (SCID) confirmed diagnosis of OCD •are between the ages of 18 and 65 •have failed to achieve a clinical response, or did not tolerate, at least 3 separate antidepressant trials of sufficient dose (included clomipramine) and CBT for at least 10 weeks •have a score of greater than or equal to 17 on the Y-BOCS. A careful medical and neurological history will be taken to ensure that subjects have no unstable conditions that would preclude them from entering into the study. This history will focus on conditions such as seizures, neurologic, other medical problems and presence of metal implants Exclusion Criteria: •have a history of DSM-IV substance dependence in the last 6 months, and have DSM-IV substance abuse in the last month •have a concomitant major unstable medical or neurologic illness or have had a history of seizures •acutely suicidal •are pregnant •have metal implants. With respect to concomitant medications, patients will be excluded if they are currently (or in the last 4 weeks) taking: (a) more than lorazepam 2 mg daily (or equivalent), (b) monoamine oxidase inhibitors, (c) and/or bupropion due to its associated increased risk for seizures.

Age
From **18 years** old to **65 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **21**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Single blinded

Blinding description

Placebo
Used

Assignment
Crossover

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Hamadan University of Medical Sciences

Street address
Shahid Fahmideh Street

City
Hamadan

Postal code
65178/518

Approval date
2013-07-25, 1392/05/03

Ethics committee reference number
1359/9/35/16/پ/د

Health conditions studied

1

Description of health condition studied
refractory obsessive compulsive disorder

ICD-10 code
F42.2

ICD-10 code description
Mixed obsessional thoughts and acts

Primary outcomes

1

Description
improvement rate of refractory OCD

Timepoint
after 10th, 20th sessions of rTMS or sham

Method of measurement
CGI و YBOCS

Secondary outcomes

empty

Intervention groups

1

Description
Device: repetitive magnetic stimulation(rTMS) 750 total pulse stimulation at 20 Hz will be delivered with 25 train of 1.5 second duration at 100% of threshold. Bilaterally(right and left) Sham stimulation with coil angled 45-90 degree will applied at the site exactly like rTMS stimulation in total 25 minute.(right and left).This is like true stimulation but have no therapeutic effect

Category
Other

Recruitment centers

1

Recruitment center

Name of recruitment center
Farshchian hospital

Full name of responsible person
Mehran Shaygan Fard

Street address
farshchian hospital

City
Hamadan

Sponsors / Funding sources

1

Sponsor
Name of organization / entity
Research center for behavioral disorders and substance abuse, Hamadan University of Medical Science
Full name of responsible person
Dr. Mohamad Ahmadpanah
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Research center for behavioral disorders and substance abuse, Hamadan University of Medical Science
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty

Analytic Code

empty

Data Dictionary

empty