

Clinical Trial Protocol

Iranian Registry of Clinical Trials

04 Jul 2026

Evaluate The Effect of Transcranial Magnetic Stimulation (TMS) on craving in Patients with Methamphetamine Use Disorder.

Protocol summary

drug use craving, addictive behaviors

Study aim

This study aimed at assessing the effect of repeated magnetic stimulus from skull (rTMS) on decrease of desire of drug abuse in addicts to metamphetamine (MA).

Design

Clinical trial with control group, with parallel groups, without blinding, randomized on 50 patients and randomized by simple method (envelope) was performed.

Settings and conduct

This research is carried out in four stages in 22 Bahman Hospital in Qazvin; Step 1: Interview and evaluate the subjects before the experiment. Step 2: Apply therapeutic intervention. Step 3: Evaluate the effectiveness of the intervention. Stage 4: Evaluation of the duration of the therapeutic effect after one and a half months.

Participants/Inclusion and exclusion criteria

The statistical sample of this study includes 50 patients (men) who referred to 22 Bahman Hospital in Qazvin in 1397 and have a medical record. The condition of the patients is such that if the urine test is negative at the beginning of treatment and during the treatment, also the craving score of the subjects is more than 28 according to self-report, none of the patients is in a state of restlessness. Consumption of MA.

Intervention groups

Intervention group: In the treatment position, which is in the form of receiving transcranial electrical stimulation, which is done in the form of 20 sessions of therapy for 4 weeks and each time for 30 minutes. Then the questionnaire for assessing the craving for substances is completed by the questioner. In the control group of patients without receiving transcranial electrical stimulation, the first day of the study, 7 days later and 45 days later are completed by the questioner 3 times, respectively.

Main outcome variables

General information

Reason for update

Acronym

TMS

IRCT registration information

IRCT registration number: **IRCT20180317039114N1**

Registration date: **2021-03-01, 1399/12/11**

Registration timing: **retrospective**

Last update: **2021-03-01, 1399/12/11**

Update count: **0**

Registration date

2021-03-01, 1399/12/11

Registrant information

Name

Islamic republic of iran Batebi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 28 3332 1247

Email address

r.batebi@qums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-13, 1397/04/22

Expected recruitment end date

2018-10-14, 1397/07/22

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluate The Effect of Transcranial Magnetic Stimulation (TMS) on craving in Patients with Methamphetamine Use Disorder.

Public title

The effect of Transcranial Magnetic Stimulation in patients with Methamphetamine Use Disorder

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Men aged 20 to 50 years craving score of 28 or more on methamphetamine having a negative urine test at the beginning and duration of the study no history of counseling and psychotherapy during this period.

Exclusion criteria:

history of concussion or seizures in the person history of bipolar disorder or severe psychological symptoms use of other psychotropic substances severe physical illness lack of metal, prosthesis, shunt in the skull no heartbeat

Age

From **20 years** old to **50 years** old

Gender

Male

Phase

3

Groups that have been masked

No information

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

Simple, Individual, Sealed Envelope Randomization

Blinding (investigator's opinion)

Not blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

National Ethics Committee on Qazvin Biomedical Research

Street address

pastor street,22bahman hospital.

City

Qazvin

Province

Qazvin

Postal code

3416899198

Approval date

2019-02-27, 1397/12/08

Ethics committee reference number

IR.QUMS.REC.1397.373

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

Patients' obsession with methamphetamine

ICD-10 code

R46.81

ICD-10 code description

Obsessive-compulsive behavior

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

Methamphetamine temptation score in Desires for Drug Questionnaire

Timepoint

Before the intervention, 7, 45 days after the start

Method of measurement

Desires for Drug Questionnaire (DDQ questionnaire)

Secondary outcomes**1****Description**

Quality of life score

Timepoint

Before the intervention, 7.45 days later

Method of measurement

Criteria for the Fifth Diagnostic and Statistical Guidelines for Mental Disorders

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

Intervention group: In the treatment position, in the form of receiving transcranial electrical stimulation, which is performed in the form of 20 sessions of therapy for 4 weeks and each time for 30 minutes. Questionnaire to assess the craving for substances is completed by the questioner.

Category

Treatment - Devices

2

Description

Control group: In the placebo position, which is completed by the questioner on the first day of the study, 7 days later and 45 days later, respectively, without receiving transcranial electrical stimulation.

Category

Diagnosis

Recruitment centers

1

Recruitment center

Name of recruitment center

22 Bahman Hospital in Qazvin

Full name of responsible person

Reza Batebi

Street address

22 Bahman Hospital, Parstar, Railway Street

City

Qazvin

Province

Qazvin

Postal code

3419759811

Phone

+98 28 3355 0188

Fax**Email**

hospital.bahman@yahoo.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Qazvin University of Medical Sciences

Full name of responsible person

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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

Qazvin 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

Qazvin University of Medical Sciences

Full name of responsible person

Reza Batebi

Position

Associate professor

Latest degree

Medical doctor

Other areas of specialty/work

Psychiatrics

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Person responsible for scientific inquiries

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Person responsible for updating data

Contact

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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

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