

# 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**

Reza Batebi

**Street address**

Parstar Alley, Railway Street

**City**

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**Province**

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**Email**

r.batebi@qums.ac.ir

**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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Parstar Alley, Railway Street

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## Person responsible for scientific inquiries

### Contact

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Qazvin University of Medical Sciences

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**Position**

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**Latest degree**

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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