

Clinical Trial Protocol

Iranian Registry of Clinical Trials

09 Jun 2026

Effectiveness of anodal transcranial direct current stimulation(tDCS) over left dorsolateral prefrontal cortex on drug craving and attentional bias symptoms in opium addicted males

Protocol summary

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Summary

The method was Quasi-experimental with pretest-posttest designs with control group. 44 patients were selected through convenient sampling and were randomly assigned into two experimental and control groups. Before the treatment, both groups were tested through craving questionnaire and computerized emotional stroop test. The experimental group received a 20 minute electrical stimulation of the brain by stimulator with the intensity of 2 mA for 10 session. At the end, both groups were tested through craving questionnaire and computerized emotional stroop test and the data were analysed with MANCOVA and ANCOVA

Recruitment status

Recruitment complete

Funding source

Zanjan University of Medical Sciences

Expected recruitment start date

2015-03-20, 1393/12/29

Expected recruitment end date

2017-03-20, 1395/12/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017061233946N2**

Registration date: **2017-06-13, 1396/03/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-06-13, 1396/03/23

Registrant information

Name

Mohsen Dadashi

Name of organization / entity

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Email address

Scientific title

Effectiveness of anodal transcranial direct current stimulation(tDCS) over left dorsolateral prefrontal cortex on drug craving and attentional bias symptoms in opium addicted males

Public title

Effectiveness of anodal transcranial direct current stimulation(tDCS) over left dorsolateral prefrontal cortex on drug craving and attentional bias symptoms in opium addicted males

Purpose

Treatment

Inclusion/Exclusion criteria

Drug dependence; no psychotic disorder; no delusional disorder; age range 24-45; male; under treatment with methadone (MMT); no anti-psychotic drug administration.

Age

From **25 years** old to **45 years** old

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **44**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Zanjan Islamic Azad University .,Zanjan, Iran

Street address

Zanjan Islamic Azad University .,Zanjan, Iran

City

zanjan

Postal code

Approval date

2015-07-21, 1394/04/30

Ethics committee reference number

62620701942064

Health conditions studied

1

Description of health condition studied

Opium addiction

ICD-10 code

F11

ICD-10 code description

Mental and behavioural disorders due to use of opioids

Primary outcomes

1

Description

Craving

Timepoint

Before and after intervention

Method of measurement

Craving questionnaire

Secondary outcomes

1

Description

Drug craving and attentional bias symptoms in opium addicted males

Timepoint

Before and after intervention

Method of measurement

Craving questionnaire and computerized emotional stroop test

Intervention groups

1

Description

Before the treatment, both groups were tested through craving questionnaire and computerized emotional stroop test. The experimental group received a 20 minute electrical stimulation of the brain by stimulator with the intensity of 2 mA for 10 session

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Ofog MMT center

Full name of responsible person

Street address

City

Bijar

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Bijar MMT center

Full name of responsible person

Dr. Tabatabaie

Street address

Bijar MMT center

City

Bijar

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Bijar MMT center

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

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Person responsible for general inquiries

Contact

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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