

Clinical Trial Protocol

Iranian Registry of Clinical Trials

12 Jul 2026

Transcranial direct current stimulation effects on the treatment of the opiate addiction in Ultra rapid opioid detoxification method

Protocol summary

Summary

This study deals with the investigation of the efficacy of transcranial direct current stimulation (tDCS) concerning the treatment of the opiate addiction via the UROD approach. It is a randomized, double blind, sham controlled survey. The Inclusion criteria is the diagnosis of the addiction to the opiates according to DSMIV criteria and the psychiatrist's idea. Patients with important somatic diseases or of any history of seizure are excluded. Forty chronic opioid addicts who refrain from the use of the drug from the night before the procedure is carried out, are randomly assigned to receive sham or the real mode of tDCS once a day for three successive sessions. The location of the anodal electrode is on the right dorsolateral prefrontal cortex while the cathode is on the left. The intensity of the electrical current is 2mA lasting 20 minutes per session. Craving, withdrawal syndrome and the relapse are assessed before the intervention and during the period of the next 3 months.

General information

Acronym

tDCS-UROD

IRCT registration information

IRCT registration number: **IRCT2015022821273N1**

Registration date: **2015-04-04, 1394/01/15**

Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2015-04-04, 1394/01/15

Registrant information

Name

Hamid Mirhosseini

Name of organization / entity

Yazd University of Medical Sciences

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Recruitment status

Recruitment complete

Funding source

Yazd University of Medical Sciences

Expected recruitment start date

2015-03-08, 1393/12/17

Expected recruitment end date

2015-04-09, 1394/01/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Transcranial direct current stimulation effects on the treatment of the opiate addiction in Ultra rapid opioid detoxification method

Public title

Effect of the brain stimulation with very weak electrical current in opiod addiction

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:Diagnostic criteria for opiate dependence defined by Diagnostic and Statistical Manual of Mental Disorders (4th ed.) (DSM-IV); Inhalational application route;Literate; last usage at the night before;male gender Exclusion criteria: Siezure or any history of convulsion which has been prohibited for

tDCS;Cardiopulmonary or Hepatic disease or any sensitivity to anesthetics which have been prohibited for general anesthesia; Comorbidity of other psychiatric disorders such as psychosis, anxiety, mood and affective disorder; Amphetamine, Alcohol and sedatives abuse

Age

No age limit

Gender

Male

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: 40

Randomization (investigator's opinion)

Randomized

Randomization description**Blinding (investigator's opinion)**

Double blinded

Blinding description**Placebo**

Used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Yazd University of medical science

Street address

Headquarters of University, Bamonar square, Yazd

City

Yazd

Postal code

8916978477

Approval date

2014-06-02, 1393/03/12

Ethics committee reference number

17/1/47840/پ

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

opioid addiction

ICD-10 code

Z71.5

ICD-10 code description

Drug abuse counselling and surveillance

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

craving

Timepoint

before, after and 1, 3, 12hrs and 2 weeks, 1, 3 months after treatment

Method of measurement

DDQ questionnaire

2**Description**

withdrawal syndrome

Timepoint

before, after and 1, 3, 12hrs and 2 weeks, 1, 3 months after treatment

Method of measurement

OOWS questionnaire

3**Description**

relapse

Timepoint

2 weeks, 1 & 3 months after treatment

Method of measurement

Interviews & Urine strip test

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

irritation of electrode location

Timepoint

after the last intervention

Method of measurement

observation

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

intervention group: We will apply real mode of tDCS once a day for three successive sessions. anodal electrode will locate on the right dorsolateral prefrontal cortex (DLPFC) and cathode on the left one. The intensity of electrical current is 2mA for 20 minutes through each session. Direct current will be transferred by using a saline-soaked pair of surface sponge

Category

Treatment - Devices

2**Description**

control group: We will apply sham mode of tDCS once a day for three successive sessions. anodal electrode will

locate on the right dorsolateral prefrontal cortex(DLPFC) and cathode on the left one. Since the study is double blind, device will remain for 20 minutes. The intensity of electrical current is 2mA for 30 seconds through each session and then the device will be put out. Direct current will be transferred by using a saline-soaked pair of surface sponge

Category

Treatment - Devices

Recruitment centers

1

Recruitment center

Name of recruitment center

Yazd Bahman clinic of psychiatry

Full name of responsible person

Dr Yassini

Street address

Bahman clinic, Kashani Ave, Yazd, Iran

City

Yazd

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Yazd University of Medical Science

Full name of responsible person

Dr Yassini

Street address

Headquarters of Medical University, Bahonar square, Yazd

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Yazd

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Yazd 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

Contact

Name of organization / entity

Yazd University of Medical Sciences

Full name of responsible person

Hamid Mirhosseini

Position

PhD candidate for Neuroscience/Faculty membership

Other areas of specialty/work

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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