

Clinical Trial Protocol

Iranian Registry of Clinical Trials

20 Jun 2026

Effects of Electric Electroconvulsive Therapy on Cognitive Functions in Patients with Depressive, Bipolar and Schizophrenic Disorders

Protocol summary

Summary

Study Objective: Effects of Electroconvulsive therapy on cognitive functions in patients with depressive, bipolar and schizophrenic disorders Design study: pre-test, intervention, post- test Method of study include: Study population: patients with depressive, bipolar and schizophrenic disorders Inclusion criteria: diagnosis of schizophrenia and major depressive and bipolar disorders by psychiatrist according DSM-IV criteria, Having literacy and having enough vision Exclusion criteria: History of alcohol and drug abuse, received ECT during the previous year, other physical illness or psychiatric diagnosis Sample size: 90 patients with depressive disorders, schizophrenia and mania (30 patients in each group) Intervention: Electroconvulsive therapy three sessions a week Intervention and outcomes study: patients one day before of Electroconvulsive therapy and one day after its end, by a set of computerized cognitive tests including auditory reaction time, visual reaction time, verbal memory, visual memory, motor function and Wisconsin card sorting are assessed.

General information

Acronym

ECT

IRCT registration information

IRCT registration number: **IRCT201105246585N1**

Registration date: **2011-06-30, 1390/04/09**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2011-06-30, 1390/04/09

Registrant information

Name

Narges Fouladivanda

Name of organization / entity

Yasuj University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Vice chancellor for research of Shiraz University

Expected recruitment start date

2008-05-04, 1387/02/15

Expected recruitment end date

2009-05-05, 1388/02/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effects of Electric Electroconvulsive Therapy on Cognitive Functions in Patients with Depressive, Bipolar and Schizophrenic Disorders

Public title

Cognitive Effects of Electroconvulsive Therapy

Purpose

Health service research

Inclusion/Exclusion criteria

Inclusion criteria: diagnosis of schizophrenia and major depressive and bipolar disorders by psychiatrist according DSM-IV criteria, Having literacy and having enough vision Exclusion criteria: History of alcohol and drug abuse, received ECT during the previous year, other

physical illness or psychiatric diagnosis

Age

No age limit

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: 90

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Shiraz University

Street address

Shiraz University, Eram Square, Shiraz

City

Shiraz

Postal code

Approval date

2008-04-29, 1387/02/10

Ethics committee reference number

384 /ع

Health conditions studied

1

Description of health condition studied

major depressive disorder

ICD-10 code

F33, F33.2

ICD-10 code description

Recurrent depressive disorder, Recurrent depressive disorder, current episode severe without psychotic symptoms , Recurrent depressive disorder, current episode severe with psychotic symptoms

2

Description of health condition studied

Schizophrenia

ICD-10 code

F20

ICD-10 code description

Schizophrenia

3

Description of health condition studied

bipolar disorder

ICD-10 code

F31, F31.1

ICD-10 code description

Bipolar affective disorder, Bipolar affective disorder, current episode manic without psychotic symptoms, Bipolar affective disorder, current episode manic with psychotic symptoms

Primary outcomes

1

Description

verbal memory

Timepoint

One day before and one day after the end of treatment

Method of measurement

verbal memory task

2

Description

Auditory reaction time

Timepoint

One day before and one day after the end of treatment

Method of measurement

Auditory reaction time task

3

Description

Visual reaction time

Timepoint

One day before and one day after the end of treatment

Method of measurement

Visual reaction time task

4

Description

visual memory

Timepoint

One day before and one day after the end of treatment

Method of measurement

Benton visual memory task

5

Description

executive function

Timepoint

One day before and one day after the end of treatment

Method of measurement

Wisconsin Card Sorting Task

6

Description

motor function

Timepoint

One day before and one day after the end of treatment

Method of measurement

motor function task

Secondary outcomes

empty

Intervention groups

1

Description

electroconvulsive therapy three sessions a week

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Ibn Sina Hospital Psychiatry

Full name of responsible person

Street address

City

Shiraz

2

Recruitment center

Name of recruitment center

Razi Hospital Psychiatry

Full name of responsible person

Street address

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research of Shiraz University

Full name of responsible person

Dr. Mohammad Ali Goodarzi

Street address

Faculty of Education and Psychology, Shiraz University, Eram Square, Shiraz

City

Siraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice chancellor for research of Shiraz University

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

Yasouj University of Medical Sciences

Full name of responsible person

Narges Fouladivanda

Position

M.A Clinical Psychology

Other areas of specialty/work

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Web page address

Person responsible for updating data

Contact

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