

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

20 Jun 2026

### The effect of daily electroconvulsive therapy on patients with refractory schizophrenia symptoms

#### Protocol summary

##### Summary

This study will be done with aim of determining the effect of daily electroconvulsive therapy (ECT) on patients with refractory schizophrenia. The present study is a non-blinded clinical trial. The study population is consisted of all patients with refractory schizophrenia that Admitted in Farabi hospital, Kermanshah. Among them 14 patients will be selected conveniently. And Will be divided into two groups (7 patients as experimental group and 7 patients as control group). Both groups will be evaluated by the Brief Psychiatric Rating Scale (BPRS) at the beginning of the study .The experimental group will be treated by ECT 6 times a week(daily) and the control group will be treated for 3 times a week (every other day). ECT will be done on non-dominant hemisphere with current of 0.9 AMPS, constant current of 450 volts, frequency of 10 to 70 Hz, pulswidth of 0.25 to 1.5 MS with duration of 0.14 to 7.99 Minute. The least number of ECT sessions will be 12sessions. Within 2 weeks before each period of ECT, patients Will be medication free in order to pass Wash out period. At the end of both periods, the patients Will be reevaluated based on the BPRS and both groups will be compared with each other. Inclusion criterion: Diagnosis of refractory schizophrenia, Exclusion criterion: Other psychiatric co-morbidity.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2016090823705N7**  
Registration date: **2016-11-30, 1395/09/10**  
Registration timing: **registered\_while\_recruiting**

Last update:

Update count: **0**

##### Registration date

2016-11-30, 1395/09/10

#### Registrant information

##### Name

Mostafa Alikhani

##### Name of organization / entity

Kermanshah University of Medical Sciences -  
Substance Abuse Prevention Research Center

##### Country

Iran (Islamic Republic of)

##### Phone

+98 838264513

##### Email address

mo.alikhani@kums.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Vice chancellor for research, Kermanshah University of  
Medical Sciences

#### Expected recruitment start date

2016-08-22, 1395/06/01

#### Expected recruitment end date

2017-08-23, 1396/06/01

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

The effect of daily electroconvulsive therapy on patients  
with refractory schizophrenia symptoms

#### Public title

The effect of daily electroconvulsive therapy in patients  
with refractory schizophrenia

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

Inclusion criteria: Diagnosis of refractory schizophrenia;  
range of age 18-65 years old; tendency to participate in

the project. Exclusion criteria : positive history of seizure or epilepsy that needed to persistent treatment; active blood Dyskrazy; leukopeny; obstructive pulmonary disease or Pulmonary emphysema; cardiovascular disease or myocardial infarction; hepatic or renal failure; urinary obstruction; closed angle glaucoma; toxic psychosis; moderate to severe mental retardation; other psychiatric co-morbidity

#### Age

From **18 years** old to **65 years** old

#### Gender

Both

#### Phase

2

#### Groups that have been masked

*No information*

#### Sample size

Target sample size: **14**

#### Randomization (investigator's opinion)

Not randomized

#### Randomization description

#### 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

Ethics committee of Kermanshah University of Medical Sciences

##### Street address

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

##### City

Kermanshah

##### Postal code

#### Approval date

2016-03-02, 1394/12/12

#### Ethics committee reference number

kums.rec.1394.441

## Health conditions studied

### 1

#### Description of health condition studied

Schizophrenia

#### ICD-10 code

F20

#### ICD-10 code description

Schizophrenia

## Primary outcomes

### 1

#### Description

Schizophrenia symptoms

#### Timepoint

The beginning of the study (baseline) and end of the study (week two)

#### Method of measurement

Brief Psychiatric Rating Scale (BPRS)

## Secondary outcomes

empty

## Intervention groups

### 1

#### Description

The experimental group will be under treatment by Electroconvulsive Therapy for 6 days a week (daily)

#### Category

Treatment - Drugs

### 2

#### Description

The control group will be under treatment by for 3 times a week Electroconvulsive Therapy (every other day)

#### Category

Treatment - Drugs

## Recruitment centers

### 1

#### Recruitment center

##### Name of recruitment center

Farabi Hospital

##### Full name of responsible person

Dr.Jalal Shakeri

##### Street address

Isar square, Farabi Hospital

##### City

Kermanshah

## Sponsors / Funding sources

### 1

#### Sponsor

##### Name of organization / entity

Vice chancellor for research, Kermanshah University of Medical Sciences

##### Full name of responsible person

Koroush Hamzehee

**Street address**

Building No.2, Shahid Beheshti, Vice Chancellor for Research Affairs, Kermanshah University of Medical Sciences

**City**

Kermanshah

**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, Kermanshah University of Medical Sciences

**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**

Kermanshah University of Medical Sciences

**Full name of responsible person**

Dr.Habib Allah Khazaie

**Position**

Psychiatrist

**Other areas of specialty/work****Street address**

Farabi Hospital, Isar square

**City**

Kermanshah

**Postal code****Phone**

+98 83 3826 0700

**Fax****Email**

ha\_khazaie@yahoo.com

**Web page address****Person responsible for scientific inquiries****Contact****Name of organization / entity**

Kermanshah University of Medical Sciences

**Full name of responsible person**

Dr.Omran Davarinejad

**Position**

Psychiatrist

**Other areas of specialty/work****Street address**

Farabi Hospital, Isar square

**City**

Kermanshah

**Postal code****Phone**

+98 83 3826 0700

**Fax****Email**

Odavarinejad@gmail.com

**Web page address****Person responsible for updating data****Contact****Name of organization / entity**

Kermanshah University of Medical Sciences

**Full name of responsible person**

Dr. Koroush Hendesi

**Position**

Psychiatrist

**Other areas of specialty/work****Street address**

Farabi Hospital, Isar square

**City**

Kermanshah

**Postal code****Phone**

00

**Fax****Email****Web page address****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*