

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jul 2026

Comparison of effect of anesthesia with ketamine or thiopental during electro-shock in patients with treatment-resistant major depression

Protocol summary

Summary

the purpose of this study is Comparison of anesthesia with ketamine or thiopental during electro-shock in patients with treatment-resistant major depression. This study will be done on patients with treatment-resistant major depression, 20 to 50 years without any physical illness such as cardiovascular, cerebrovascular, high intracranial pressure, glaucoma, high eyes pressure, uncontrolled high blood pressure. 160 patients admitted to Amir Kabir hospital psychiatric department will be divided into two groups. The first group will be anesthetized with ketamine for ECT and The second group with thiopental. After electroshock and recovery from anesthesia, complications will be checked and recorded for an hour.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015013012642N13**

Registration date: **2015-02-20, 1393/12/01**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2015-02-20, 1393/12/01

Registrant information

Name

Majid Golestani Eraghi

Name of organization / entity

Shahid Beheshti University Of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 3336 0547

Email address

dr.golestani@arakmu.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice Chancellor of Research of Arak University of Medical Sciences

Expected recruitment start date

2014-03-21, 1393/01/01

Expected recruitment end date

2015-02-20, 1393/12/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of effect of anesthesia with ketamine or thiopental during electro-shock in patients with treatment-resistant major depression

Public title

The effect of anesthetic agents on electroshock In patients with treatment-resistant major depression

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: age between 20 to50 years old; refractory depression According to the psychiatrist diagnosis. exclusion criteria: Any physical illness such as cardiovascular-cerebrovascular disease; high intracranial pressure; glaucoma; high eyes pressure; uncontrolled high blood pressure; Arterial Aneurysm; Previous history of alcohol and drug use; The occurrence of myocardial infarction in the last three months; Failure to ECT in the past month

Age

From **20 years** old to **50 years** old

Gender

Both

Phase

1-2

Groups that have been masked*No information***Sample size**Target sample size: **160****Randomization (investigator's opinion)**

Randomized

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

Double blinded

Blinding description**Placebo**

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

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

Research Ethics Committee of Arak University of Medical Sciences

Street address

Ethical committee of Research of Arak University of Medical Sciences, Sardasht Square,

City

Arak

Postal code**Approval date**

2013-06-01, 1392/03/11

Ethics committee reference number

92-146-3

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

Treatment-resistant depression

ICD-10 code

F32.3

ICD-10 code description

Severe depressive episode with psychotic symptoms

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

depression

Timepoint

After completion of each stage of the ECT and Gained consciousness

Method of measurement

evaluation is based on the Hamilton test Depression

2**Description**

seizure time

Timepoint

After completion of each stage of the ECT and Gained consciousness

Method of measurement

According to an electrical timer in seconds

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

Heart rate

Timepoint

After completion of each stage of the ECT and the conscious patient

Method of measurement

By pulse oximetry in terms of the number of minutes

2**Description**

blood pressure

Timepoint

After completion of each stage of the ECT and the conscious patient

Method of measurement

Manometer gauge in mmHg

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

first group: treatment-resistant depressed patients are anesthetized with ketamine with dose of 0.8 mg per kilogram was used in Ect.

Category

Prevention

2**Description**

second group: treatment-resistant depressed patients are anesthetized with thiopental with dose of 1.5 mg per kilogram was used in Ect.

Category

Prevention

Recruitment centers**1****Recruitment center**

Name of recruitment center
Arak Amir Kabir Hospital
Full name of responsible person
Majid Golestani Eraghi
Street address
Parastar square, Shahid Shiroodi Ave
City
Arak

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor of Research of Arak University of Medical Sciences
Full name of responsible person
Mohammad Rafee
Street address
Vice Chancellor of Research of Arak University of Medical Sciences, Sardasht Square, Arak
City
Arak

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Vice Chancellor of Research of Arak 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

Person responsible for scientific inquiries

Contact

Name of organization / entity
Department of Anesthesiology, Tehran University of Medical Sciences

Full name of responsible person
Esmaeil Moshiri
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Person responsible for updating data

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