Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 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
Herat 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 anesthesied with ketamine with dose of 0.8 mg per killogeram was used in Ect.
Category
Prevention

2

Description
second group: treatment-resistant depressed patients are anesthesied with thiopental with dose of 1.5 mg per killogeram 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
Position
Anesthesiologist
Other areas of specialty/work
Street address
Valiasr Hospital, Valiasr Square
City
Arak
Postal code
Phone
+98 86 3222 2003
Fax
Email
dr.moshiri@arakmu.ac.ir
Web page address

Person responsible for updating data

Contact
Name of organization / entity
Anesthesia group, Shahid Beheshti University of Medical Sciences
Full name of responsible person
Majid Golestani Eraghi
Position
Fellowship specialtyanesthesia and intensive care
Other areas of specialty/work
Street address
Masih Daneshvari Hospital, Darabad Ave
City
Tehran
Postal code
Phone
+98 21 2712 2525
Fax
Email
dr.golestani@sbmu.ac.ir
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