Clinical Trial Protocol
Iranian Registry of Clinical Trials

07 Nov 2026

The effects of Ketamin versus Thiopental sodium on hemodynamic profile and seizure duration in ECT patients

Protocol summary

Summary

40 patients with major depression candidate of electroconvulsive therapy (ECT) will be included. For induction of anesthesia the first group (20 patients) receives sodium thiopental in the first ECT session and ketamin in the second session. In another 20 patients the sequence of anesthetic medications would be vice versa. Hemodynamic measurements including blood pressure and heart rate will be recorded before induction, and 1,2,4 and 10 minutes after ECT. The duration of seizure will be recorded, as well.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201306255026N3**
Registration date: **2013-07-11, 1392/04/20**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date

2013-07-11, 1392/04/20

Registrant information

Name
Masood Mohseni
Name of organization / entity
Rasul Akram hospital, Tehran University of Medical Sciences
Country
Iran (Islamic Republic of)
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+98 21 6435 2326
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Recruitment status

Recruitment complete

Funding source

Research budjet of Tehran University of Medical Sciences

Expected recruitment start date

2013-06-26, 1392/04/05

Expected recruitment end date

2014-06-26, 1393/04/05

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of Ketamin versus Thiopental sodium on hemodynamic profile and seizure duration in ECT patients

Public title

The effect of anesthetic medications on the quality of electrocunvulsive therapy

Purpose

Treatment

Inclusion/Exclusion criteria

Major depression candidate for electroconvulsive therapy

Age

No age limit

Gender

Both

Phase

3

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
Not used
Assignment
Crossover
Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Tehran University of Medical Sciences
Street address
Keshavarz Blv
City
Tehran
Postal code
Approval date
2013-04-19, 1392/01/30
Ethics committee reference number
20385

Health conditions studied

1

Description of health condition studied
Major depression without psychotic feature
ICD-10 code
F32.2
ICD-10 code description
Severe depressive episode without psychotic symptoms

2

Description of health condition studied
Major depression with psychotic feature
ICD-10 code
F32.3
ICD-10 code description
Severe depressive episode with psychotic symptoms

Primary outcomes

1

Description
Heart rate
Timepoint
before induction, 1, 3 and 10 minutes after induction
Method of measurement
ECG monitoring

2

Description
Blood pressure
Timepoint
before induction, 1, 3 and 10 minutes after induction
Method of measurement
mm Hg using noninvasive blood pressure monitoring

3

Description
duration of seizure
Timepoint
after termination of seizure
Method of measurement
Chronometer

Secondary outcomes

1

Description
Nausea
Timepoint
discharge from recovery
Method of measurement
direct question from patients and recording in data collection form

Intervention groups

1

Description
ketamin 0.3 mg/kg for induction of anesthesia
Category
Treatment - Drugs

2

Description
Sodium Thiopental 0.2 mg/kg for induction of anesthesia
Category
Treatment - Drugs

Recruitment centers

1

Recruitment center
Name of recruitment center
Rasoul Akram Meidcal center
Full name of responsible person
Street address
City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice chancellor for Research, Tehran university of Medical Sciences

Full name of responsible person
Akbar Fotuhi

Street address
6th floor, Tehran University of medical sciences, Ghods Ave., Keshavarz Blv.

City
Tehran

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, Tehran 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
Tehran University of Medical Sciences

Full name of responsible person
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Position
Assistant professor of Anesthesiology

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