

Clinical Trial Protocol

Iranian Registry of Clinical Trials

28 May 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)

Phone

+98 21 6435 2326

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mohseni@med.mui.ac.ir

Recruitment status

Recruitment complete

Funding source

Research budget 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 electroconvulsive 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

32.3

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

Masood Mohseni

Position

Assistant professor of Anesthesiology

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

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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