

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

08 Jun 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

###### Email address

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**

Department of Anesthesiology, Rasoul Akram Medical Center, Sattarkhan St

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### Person responsible for scientific inquiries

**Contact****Name of organization / entity**

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**Full name of responsible person**

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### Person responsible for updating data

**Contact****Name of organization / entity**

Tehran University of Medical Sciences

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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*