

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jul 2026

Evaluation the effect of Propofol, Etomidate, and Sodium Thiopental on depth of Anesthesia and duration of Seizure in the electroconvulsive therapy

Protocol summary

Summary

After obtaining written informed consent from eligible patients, and getting an approval from Ethics committee of Ahvaz Jundishapur University of Medical Sciences, a double-blind prospective, randomized study will be done to Evaluation the effect of Propofol, Etomidate and Sodium Thiopental on depth of Anesthesia and duration of Seizure in the patient treated by Electroconvulsive Therapy(ECT). Inclusion criteria: Admitted patients for Electroconvulsive therapy in Golestan hospital; 30 to 50 years old; Anesthesia risk of 1, 2 (According to American society of anesthesiologist's classification). Exclusion criteria: Patient refuse; under 30 and over 50 years old; A history of drug abuse; Sensitivity to egg; Contraindication of Propofol, Etomidate or Sodium Thiopental. Patients will be randomly allocated into three groups according to table of random numbers. Groups "one", "two", and "three" will receive intravenous Propofol 2 mg/kg, Etomidate 0.4 mg/kg, and Sodium Thiopental 5 mg/kg, respectively. Depth of Anesthesia Continuously during procedure will be evaluated by BIS monitoring according to numbers from 0 to 100. Duration of Seizure according to clinical observation and awakening and discharge from recovery according to Aldrete Score after procedure will measure.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014050617602N1**
Registration date: **2014-05-20, 1393/02/30**
Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2014-05-20, 1393/02/30

Registrant information

Name

Zohre Fadaei

Name of organization / entity

Ahvaz Jundishapur University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 61 1358 9698

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fadaei.z@ajums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Ahvaz Jundishapur University of Medical Sciences

Expected recruitment start date

2014-09-06, 1393/06/15

Expected recruitment end date

2015-02-04, 1393/11/15

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the effect of Propofol, Etomidate, and Sodium Thiopental on depth of Anesthesia and duration of Seizure in the electroconvulsive therapy

Public title

Evaluation the effect of Propofol, Etomidate, and Sodium Thiopental on depth of Anesthesia and duration of Seizure in the electroconvulsive therapy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Admitted patients for Electroconvulsive Therapy in Golestan hospital; 30 to 50 years old; Anesthesia risk of 1, 2 (According to American society of anesthesiologist's classification). Exclusion criteria: Patient refuse; Under 30 and over 50 years old; A history of drug abuse; Sensitivity to egg; Contraindication of Propofol, Etomidate or Sodium Thiopental.

Age

From **30 years** old to **50 years** old

Gender

Both

Phase

2-3

Groups that have been masked

No information

Sample size

Target sample size: **132**

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

Ethics committee of Ahvaz Jundishapur University of Medical Sciences

Street address

No. 21, Ave. 1, Golestan Blvd.

City

Ahvaz

Postal code

Approval date

2014-01-11, 1392/10/21

Ethics committee reference number

Ajums.REC.1392.317

Health conditions studied

1

Description of health condition studied

Electroconvulsive Therapy

ICD-10 code

F32

ICD-10 code description

Treatment of depressive episode

Primary outcomes

1

Description

Measuring Depth of Anesthesia

Timepoint

Continuously during procedure

Method of measurement

By bipolar electroencephalographic leads that connected to the temporal and frontal area of patients and brain waves evaluated by BIS monitoring according to numbers from 0 to 100.

2

Description

Duration of Seizure

Timepoint

After procedure

Method of measurement

Clinical Observation

Secondary outcomes

empty

Intervention groups

1

Description

Propofol: Dose: 2 mg/kg Number of using: Once Factory name: Astra Zeneca Manufacturing Country's Name: India Location prescribed: Intravascular Administration time: At the beginning of the procedure

Category

Treatment - Drugs

2

Description

Etomidate: Dose: 0.4 mg/kg Number of using: Once Factory name: Janssen Cilag Manufacturing Country's name: England Location prescribed: Intravascular Administration time: At the beginning of the procedure

Category

Treatment - Drugs

3

Description

Sodium Thiopental: - Dose: 5 mg/kg - Number of using: Once - Factory name: Jubilant - Manufacturing Country's name: India - Location prescribed: Intravascular - Administration time: At the beginning of the procedure

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Golestan Educational Hospital

Full name of responsible person

Dr. Farahzad Janatmakan

Street address

No. 307, Kokab Street, Masters Alley, Golestan Blvd.

City

Ahvaz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice chancellor for research, Ahvaz Jundishapur
University of Medical Sciences

Full name of responsible person

Dr. Mostafa Fegghi

Street address

No. 21, Ave. 1, Golestan Blvd.

City

Ahvaz

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, Ahvaz Jundishapur
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

Ahvaz Jundishapur University of Medical Sciences

Full name of responsible person

Zohre Fadaei

Position

Resident of Anesthesia

Other areas of specialty/work

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Person responsible for updating data

Contact

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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