

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Assessment of the effect of lidocaine on seizure duration and hemodynamic changes in electroconvulsive therapy

Protocol summary

Summary

The purpose of this study is to assess the effect of lidocaine on seizure duration and hemodynamic (BP, PR) changes in electroconvulsive therapy. A total of 72 patients will be assigned to receive 1/5mg/kg lidocaine or normal saline immediately before induction of anesthesia. Duration of convulsion and hemodynamic changes (Pulse rate and Blood Pressure) will be recorded and compared between groups.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201105103912N2**
Registration date: **2011-06-16, 1390/03/26**
Registration timing: **registered_while_recruiting**

Last update:

Update count: **0**

Registration date

2011-06-16, 1390/03/26

Registrant information

Name

Kobra Nourian

Name of organization / entity

Sharekord University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 38 1333 5648

Email address

noorian@skums.ac.ir

Recruitment status

Recruitment complete

Funding source

Shahrekord University of Medical Sciences

Expected recruitment start date

2011-02-20, 1389/12/01

Expected recruitment end date

2011-06-22, 1390/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Assessment of the effect of lidocaine on seizure duration and hemodynamic changes in electroconvulsive therapy

Public title

Assessment of the effect of lidocaine on seizure duration and hemodynamic changes in electroconvulsive therapy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age between 20-40 years, psychiatric disorders with ASAI-II, candidate for ECT
Exclusion criteria: heart failure, cardiac arrhythmia, drug hypersensitivity, drug abuse

Age

From **20 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **72**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Double blinded

Blinding description

Placebo

Used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shahrekord University of Medical Sciences

Street address

Shahrekord University of Medical Sciences,
Rahmateieh, Shahrekord

City

Shahrekord

Postal code

Approval date

2010-09-23, 1389/07/01

Ethics committee reference number

753

Health conditions studied

1

Description of health condition studied

ECT

ICD-10 code

F32

ICD-10 code description

Depressive episode

Primary outcomes

1

Description

Duration of seizure

Timepoint

after intervention

Method of measurement

clinical observation

2

Description

Blood Pressure

Timepoint

Before and immediately 3 and 5 minutes after ECT

Method of measurement

Pulse Oximetry

3

Description

Pulse Rate

Timepoint

Before and immediately and 3 and 5 minutes after ECT

Method of measurement

Pulse Oximetry

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: Lidocaine, 1.5 mg/kg, IV, just before
induction of anesthesia

Category

Other

2

Description

Control group: Normal saline, IV, with the same volume
as the intervention group, just before induction of
anesthesia

Category

Placebo

Recruitment centers

1

Recruitment center

Name of recruitment center

Hajar Hospital

Full name of responsible person

Mohammadreza Abedinzadeh

Street address

Parastar ST.

City

Shahrekord

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shahrekord University of Medical Sciences

Full name of responsible person

Kobra Noorian

Street address

Shahrekord University of Medical Sciences, Kashani
St.

City

Shahrekord

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Shahrekord 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**

Shahrekord University of Medical Sciences

Full name of responsible person

Kobra Noorian

Position

Lecturer, Nursing Dept,

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

Nursing Faculty

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Web page address**Person responsible for scientific inquiries****Contact****Name of organization / entity**

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Full name of responsible person

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Position

Assistant professor, Anesthesiologist

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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