

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

Adjunctive treatment use of electroconvulsive therapy in seven patients with Lennox-Gastaut syndrome and medically-refractory epilepsy

Protocol summary

Summary

The goal in this study is treatment effect evaluation of electroconvulsive therapy in seven Lennox-gastaut syndrome and medically refractory epileptic patients. These patients have at least one disabling seizure as tonic-clonic or drop attack per week and they have no serious concomitant medical illness or pseudoseizure. At the month before intervention we will evaluate baseline disabling seizure frequency. They will undergo electroconvulsive therapy 3 times a week for the first month and then weekly for 3 months. Finally last month disabling seizures will be compared with the month before intervention.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014062111778N2**
Registration date: **2014-10-25, 1393/08/03**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-10-25, 1393/08/03

Registrant information

Name

Seyed mohammad ali Razavizadegan Jahromi

Name of organization / entity

Shiraz University of Medical Science

Country

Iran (Islamic Republic of)

Phone

+98 71123054109

Email address

razavima@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

Vice chancellor for research, Shiraz University of Medical Sciences

Expected recruitment start date

2014-04-05, 1393/01/16

Expected recruitment end date

2014-05-25, 1393/03/04

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Adjunctive treatment use of electroconvulsive therapy in seven patients with Lennox-Gastaut syndrome and medically-refractory epilepsy

Public title

Effect of ECT on treatment of medically refractory epilepsy

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria were: male / female patients, age five years and older; diagnosis of LGS made on the basis of electro-clinical findings; medically-refractory seizures defined as failure of two or more AEDs at maximal tolerated doses and one or more disabling seizures (e.g., generalized tonic-clonic seizures and / or drop attacks) per week; They had stable medication regimen for four weeks prior to entry; Informed consent by patients was obtained; Exclusion criteria were: Patients younger than 5 y/o; patients with progressive neurological conditions; having any serious medical (particularly cardiac) illness or major psychiatric disorder or history of psychogenic non-epileptic seizures.

Age

From **5 years** old to **50 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **7**

Randomization (investigator's opinion)

N/A

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Shiraz University of Medical Sciences

Street address

Shiraz University of Medical Sciences- Karimkhan
Zand street- Shiraz

City

Shiraz

Postal code

7134814336

Approval date

2014-06-03, 1393/03/13

Ethics committee reference number

CT-P-9360-6910

Health conditions studied

1

Description of health condition studied

epilepsy

ICD-10 code

G40.4

ICD-10 code description

Lennox-Gastaut syndrome

Primary outcomes

1

Description

decreasing seizure frequency

Timepoint

comparing seizure frequency 10-16 and 22 weeks after
intervention to 4 weeks before

Method of measurement

seizure frequency calendar

Secondary outcomes

1

Description

intervention compliance

Timepoint

weekly

Method of measurement

frequent visit

Intervention groups

1

Description

1-each patient compare with himself 2-bitemporal ECT as
below:3 times awake for the first month and weakly for
the 3 months after 3-adjusting minimal energy for ECT
device that induces clinical seizure

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Emam Reza Clinic

Full name of responsible person

Seyyed Mohammad Ali Rzavizadegan Jahromi

Street address

Irannaja Hospital, Paramont crossway, Shiraz

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Shiraz University of Medical Sciences

Full name of responsible person

Vice president of research at Shiraz University of
Medical Sciences

Street address

7 floor, central building, Shiraz University of Medical
Sciences, Zand street, Shiraz

City

Shiraz

Grant name

Grant code / Reference number

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

Yes

Title of funding source

Shiraz 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

NAJA

Full name of responsible person

Seyyed Mohammad Ali Razavizadegan Jahromi

Position

Neurologist

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