Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

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

Protocol summary

Summary

The gole in this study is treatment effect evaluation of electroconvulsive therapy in seven Lennox-gastaut syndrom and medicaly refractory epileptic patients. These patients have at least one disabeling seizure as tonic-clonic or drop attack per weak and they have no serious concomitant medical illness or pseudoseizure. At the month befor intervention we will evaluate baseline disabeling seizure frequency. they will undergo electroconvulsive therapy 3 times aweak for the first month and then weakly for 3 months.Finally last month disabeling 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 chancelor 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 frequensy
Timepoint
comparing seizure frequensy 10-16 and 22 weaks after intervention to 4 weaks befor
Method of measurement
seizure frequensy calendar

Secondary outcomes

1

Description
intervention compliance
Timepoint
weakly
Method of measurement
frequent visit

Intervention groups

1

Description
1-each patient compare with himself 2-bitemporal ECT as below:3 times aweak 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 beelding, 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
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Person responsible for updating data

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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