

Clinical Trial Protocol

Iranian Registry of Clinical Trials

06 Jun 2026

Effect of levetiracetam and sodium valproate versus sodium valproate alone on epileptiform discharges in electroencephalogram in interictal phase in children with epilepsy: a randomized clinical trial

Protocol summary

Study aim

To assess the effect of levetiracetam and sodium valproate versus sodium valproate alone on epileptiform discharges in electroencephalogram in the interictal phase in children with epilepsy

Design

This is a randomized clinical trial, phase II, in which 42 eligible children with epilepsy will be randomly assigned to the intervention and control groups

Settings and conduct

The eligible children with epilepsy who will refer to Besat Hospital during the study period will be enrolled in the trial

Participants/Inclusion and exclusion criteria

Inclusion criteria: Age of 2 to 15 years; Idiopathic or cryptogenic epilepsy Exclusion criteria: Severe seizure syndrome; Frequent convulsions

Intervention groups

Intervention group: Tablet levetiracetam 50 mg/kg daily for 60 year and tablet sodium valproate 20 to 30 mg/kg daily for one year Control group: Tablet sodium valproate 20 to 30 mg/kg daily for one year

Main outcome variables

Primary outcome: Assessing the epileptiform discharges in the interictal phase every 3 months for one year using electroencephalogram

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20120215009014N246**
Registration date: **2018-10-22, 1397/07/30**
Registration timing: **registered_while_recruiting**

Last update: **2018-10-22, 1397/07/30**

Update count: **0**

Registration date

2018-10-22, 1397/07/30

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-06-22, 1397/04/01

Expected recruitment end date

2018-11-22, 1397/09/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of levetiracetam and sodium valproate versus sodium valproate alone on epileptiform discharges in electroencephalogram in interictal phase in children with epilepsy: a randomized clinical trial

Public title

Effect of levetiracetam and sodium valproate versus

sodium valproate alone on epileptiform discharges in electroencephalogram in interictal phase in children with epilepsy

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Age of 2 to 15 years; Idiopathic or cryptogenic epilepsy

Exclusion criteria:

Severe seizure syndrome; Frequent convulsions

Age

From **2 years** old to **15 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **42**

Randomization (investigator's opinion)

Randomized

Randomization description

The patients will be randomly assigned to intervention and control groups using block randomization

Blinding (investigator's opinion)

Not 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 Hamadan University of Medical Sciences

Street address

Vice-chancellor for Research and Technology,
Hamadan University of Medical Sciences, Shahid
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Approval date

2018-06-09, 1397/03/19

Ethics committee reference number

IR.UMSHA.REC.1397.146

Health conditions studied**1****Description of health condition studied**

Epilepsy

ICD-10 code

G40

ICD-10 code description

Epilepsy and recurrent seizures

Primary outcomes**1****Description**

Assessing the epileptiform discharges in interictal phase

Timepoint

Every 3 months for one year

Method of measurement

Using electroencephalogram

Secondary outcomes

empty

Intervention groups**1****Description**

Intervention group: Tablet levetiracetam 50 mg/kg daily for 60 year and tablet sodium valproate 20 to 30 mg/kg daily for one year

Category

Treatment - Drugs

2**Description**

Control group: Tablet sodium valproate 20 to 30 mg/kg daily for one year

Category

Treatment - Drugs

Recruitment centers**1****Recruitment center****Name of recruitment center**

Besat Hospital

Full name of responsible person

Dr Mohammad Hussein Ebrahimi

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Sponsors / Funding sources

1

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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Hamedan University of Medical Sciences
Proportion provided by this source
100
Public or private sector
Public
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be a plan to

make this available

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Undecided - It is not yet known if there will be a plan to make this available

Analytic Code

Undecided - It is not yet known if there will be a plan to make this available

Data Dictionary

Undecided - It is not yet known if there will be a plan to make this available