

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Jul 2026

Evaluation of the efficacy of Methylphenidate and modafinil in the treatment of excessive daily sleepiness in patients with drug-resistant epilepsy and comparison with the control group

Protocol summary

Study aim

Evaluation of the efficacy of Methylphenidate and Modafinil in the treatment of excessive daily sleepiness in patients with drug-resistant epilepsy and comparison with the control group

Design

A clinical trial with a parallel group and control group, double-blind, randomized

Settings and conduct

In this study, a history of patients with refractory epilepsy who have been referred to the hospital clinic for EDS complaints is selected and patients who meet the inclusion criteria are selected. EDS diagnosis is also performed using the EPWORTH sleepiness scale form. Patients are randomly divided into three groups. The first group is treated with methylphenidate, the second group is treated with modafinil and the third group is untreated for 8 weeks. The dose of methylphenidate will be 10-20-day / mg. Patients will also be treated with modafinil at a dose of 200-600 mg / day. Patients will be re-evaluated after the course of treatment by the EPWORTH sleepiness scale and the rate of recovery will be monitored.

Participants/Inclusion and exclusion criteria

Inclusion criteria: People with refractory epilepsy; Diagnosis of EDS by a neurologist; Hypersensitivity to methylphenidate and modafinil; Individual consent to participate in the study; Exclusion criteria: Head trauma; Diagnosis of other neurologic diseases such as dementia; Stroke; Thyroid diseases; Drug abuse; Liver or kidney failure

Intervention groups

The first group is treated with methylphenidate, the second group is treated with modafinil and the third group is untreated for 8 weeks.

Main outcome variables

The amount of drowsiness

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20171030037093N22**

Registration date: **2019-10-18, 1398/07/26**

Registration timing: **prospective**

Last update: **2019-10-18, 1398/07/26**

Update count: **0**

Registration date

2019-10-18, 1398/07/26

Registrant information

Name

Sadra Ansaripour

Name of organization / entity

Shahrekord University of Medical Sciences

Country

Iran (Islamic Republic of)

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Email address

st_ansari.s@skums.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-10-25, 1398/08/03

Expected recruitment end date

2019-12-24, 1398/10/03

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty	
Scientific title	Evaluation of the efficacy of Methylphenidate and modafinil in the treatment of excessive daily sleepiness in patients with drug-resistant epilepsy and comparison with the control group
Public title	Evaluation of the efficacy of Methylphenidate and modafinil in the treatment of excessive daily sleepiness in patients with drug-resistant epilepsy and comparison with the control group
Purpose	Treatment
Inclusion/Exclusion criteria	Inclusion criteria: People with refractory epilepsy Diagnosis of EDS by a neurologist Hypersensitivity to methylphenidate and modafinil Individual consent to participate in the study Exclusion criteria: Head trauma Diagnosis of other neurologic diseases such as dementia stroke Thyroid diseases Drug abuse Liver or kidney failure
Age	No age limit
Gender	Both
Phase	1-2
Groups that have been masked	• Participant • Investigator
Sample size	Target sample size: 84
Randomization (investigator's opinion)	Randomized
Randomization description	The study sample was randomly divided into three groups of 28 each with a selection of closed envelopes. Each envelope containing one of the three labels A, B and C represented one of the groups.
Blinding (investigator's opinion)	Double blinded
Blinding description	The drugs were placed in envelopes in packages A and B without labeling and without the knowledge of the investigator.
Placebo	Not used
Assignment	Parallel
Other design features	
Secondary Ids	empty
Ethics committees	

<u>1</u>	
Ethics committee	
Name of ethics committee	Ethics Committee of Isfahan University of Medical Sciences
Street address	Isfahn University of Medical Sciences, Hezar jarib st, Isfahan
City	Isfahan
Province	Isfahan
Postal code	7346181746
Approval date	2019-09-14, 1398/06/23
Ethics committee reference number	IR.MUI.MED.REC.1398.327
Health conditions studied	
<u>1</u>	
Description of health condition studied	Epilepsy
ICD-10 code	G40
ICD-10 code description	Epilepsy and recurrent seizures
Primary outcomes	
<u>1</u>	
Description	The amount of drowsiness
Timepoint	Before and after treatment
Method of measurement	questionnaire
Secondary outcomes	empty
Intervention groups	
<u>1</u>	
Description	Intervention group: The first group will be treated with methylphenidate at 10-20-day / mg.
Category	Treatment - Drugs
<u>2</u>	
Description	Intervention group: Group II treated with modafinil at a dose of 200-600 mg / day
Category	

3**Description**

Control group: The control group will be untreated for 8 weeks.

Category

Diagnosis

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

Al-zahra hospital

Full name of responsible person

Mohammadreza Najafi

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Sofe Blvd, Isfahan Province, Isfahan

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Sponsors / Funding sources**1****Sponsor****Name of organization / entity**

Esfahan University of Medical Sciences

Full name of responsible person

Ziba Farajzadegan

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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

Esfahan 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****Name of organization / entity**

Esfahan University of Medical Sciences

Full name of responsible person

Mohammadreza Najafi

Position

Professor of Neurology

Latest degree

Specialist

Other areas of specialty/work

Neurosurgery

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Neurosciences Research Center, Al-Zahra Hospital, Isfahan University of Medical Sciences

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

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Person responsible for updating data

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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

No - There is not 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

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Information about the main outcome can be shared.

When the data will become available and for how long

Start the access period 4 months after publishing the results

To whom data/document is available

Researchers working in academia

Under which criteria data/document could be used

Use data to complete clinical trial studies

From where data/document is obtainable

Al-Zahra Hospital

What processes are involved for a request to access data/document

After the investigation of researcher request and presentation of required documents will be accessible.

Comments