

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effectiveness of Memantine in improvement of cognitive deficits in specific learning disorder

Protocol summary

Summary

This clinical trial to determine the efficacy of memantine to improve cognitive deficits specific learning disorders among 94 children 12-8 years referred to Amir Kabir hospital psychiatric diagnostic criteria for disorders that have specific learning methods available (easy) through diagnostic interview based on V MSD is performed by physician specialty. Patients assigned to two groups, Mma Ntyn observations and placebo are randomly like blocks instead of patrol. Two tablets of memantine daily for three months in 47 patients in the first group and so on placebo in 47 patients in the second group will be given daily for three months. To measure cognitive deficits in patients both before and after treatment, outcome measures, including sustained attention and working memory selective attention by the continuous performance test, Stroop Test and Digit Span forward and reverse and Kessler and seats cubes measuring and Similarly, following treatment, both of these variables will be measured. Inclusion criteria: age 8-12 years diagnosed patients by physician specialty pure LD; no organic disorders, psychotic, mood, anxiety and combined, have normal intelligence More than 85 Exclusion criteria: mental retardation, organic problems (auditory, visual, etc.); psychotic problems, a disorder ADHD; a Pervasive Developmental Disorder, not wanting to continue treatment

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2015102124633N1**
Registration date: **2016-03-03, 1394/12/13**
Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2016-03-03, 1394/12/13

Registrant information

Name

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Name of organization / entity

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Recruitment status

Recruitment complete

Funding source

Vice Chancellor Arak University of Medical Sciences

Expected recruitment start date

2014-10-23, 1393/08/01

Expected recruitment end date

2015-06-22, 1394/04/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of Memantine in improvement of cognitive deficits in specific learning disorder

Public title

Effectiveness of Memantine in improvement of cognitive deficits in specific learning disorder

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria: age 8-12 years diagnosed patients by

physician specialty pure LD; no organic disorders, psychotic, mood, anxiety and combined, have normal intelligence More than 85 Exclusion criteria: mental retardation, organic problems (auditory, visual, etc.); psychotic problems, a disorder ADHD; a Pervasive Developmental Disorder, not wanting to continue treatment

Age

From **8 years** old to **12 years** old

Gender

Both

Phase

2

Groups that have been masked

No information

Sample size

Target sample size: **94**

Randomization (investigator's opinion)

Randomized

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

Ethics committee of Arak University of Medical Sciences

Street address

Alamolhoda, Maskan, Arak

City

Arak

Postal code

Approval date

2014-10-20, 1393/07/28

Ethics committee reference number

93-169-15

Health conditions studied

1

Description of health condition studied

specific learning disorder

ICD-10 code

F81.9

ICD-10 code description

Developmental disorder of scholastic skills, unspecified

Primary outcomes

1

Description

Sustained attention

Timepoint

Before treatment and after treatment

Method of measurement

Continuous Performance Test

Secondary outcomes

1

Description

Working memory

Timepoint

Before treatment and after treatment

Method of measurement

Stroop test

Intervention groups

1

Description

group 1 : The two tablets of memantine daily for three months

Category

Treatment - Drugs

2

Description

group 2 : received placebo daily for three months

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Arak Amir Kabir Hospital psychiatric clinic

Full name of responsible person

Dr. Ahmadizahrani Elham

Street address

Amir Kabir Hospital Arak

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Vice Chancellor for research of Arak University of Medical Sciences

Full name of responsible person
Dr. Mohammad Rafiee

Street address
School of Medicine, Arak

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Arak

Grant name

Grant code / Reference number

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

Title of funding source
Vice Chancellor for research of Arak 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
Arak University of Medical sciences

Full name of responsible person
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Resident of Psychiatry

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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