

Clinical Trial Protocol

Iranian Registry of Clinical Trials

23 Jun 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

Elham Ahmadi Zahrani

Name of organization / entity

Arak University of Medical Sciences

Country

Iran (Islamic Republic of)

Phone

+98 86334172517

Email address

e.ahmadizahrani@arakmu.ac.ir

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

City

Arak

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

City

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

Dr. Ahmadizaharani Elham

Position

Resident of Psychiatry

Other areas of specialty/work**Street address**

Amirkabir Hospital Arak

City

Arak

Postal code**Phone**

+98 913 313 9554

Fax**Email**

e.ahmadizahrani@arakmu.ac.ir;rahenorayaneh@yahoo.com

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

Arak University of Medical Sciences

Full name of responsible person

Dr. Ahmadi Elham

Position

Resident of Psychiatry

Other areas of specialty/work**Street address**

AmirKabir Hospital, Arak

City

Arak

Postal code**Phone**

+98 86 3312 4922

Fax**Email**

e.ahmadizahrani@arakmu.ac.ir;

rahenorayaneh@yahoo.com

Web page address**Person responsible for updating data****Contact****Name of organization / entity**

Arak University of Medical Sciences

Full name of responsible person

dr. Ahmadi Elham

Position

Resident of Psychiatry

Other areas of specialty/work**Street address**

AmirKabir Hospital, St. Rahahan, Arak

City

Arak

Postal code**Phone**

+98 86 3313 7550

Fax**Email**

rahenorayaneh@yahoo.com

Web page address**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