Clinical Trial Protocol
Iranian Registry of Clinical Trials

16 Sep 2026

Effectiveness of computer based cognitive progressive intervention on audio/visual working memory, sustained attention and theory of mind on children with attention deficit hyperactivity disorder

Protocol summary

Study aim
The purpose of this study was to investigate the effectiveness of computer-based cognitive training on visual / auditory working memory performance, sustained attention, and theory of mind in children with attention deficit hyperactivity disorder

Design
he present study was empirically based on a pretest-posttest design with a control group.

Settings and conduct
For 10 45-minute sessions (2 sessions per week), she was individually placed in Roshana Counseling Center.

Participants/Inclusion and exclusion criteria
30 male and female students with attention deficit / hyperactivity disorder in the age range of 8 to 11 years who were studying in schools in Tabriz in the academic year of 1397-98.

Intervention groups
Relying on targeted sampling method, 30 children with attention deficit / hyperactivity disorder were selected by observing Word and exit criteria and were replaced by random substitution method in experimental group (computer-based cognitive training) and control group (15 people in each group). . The intervention group participated in the treatment sessions but the control group did not receive any treatment.

Main outcome variables
attention deficit hyperactivity disorder

General information

Reason for update

Acronym

IRCT registration information
IRCT registration number: **IRCT20200221046565N1**
Registration date: **2020-04-22, 1399/02/03**
Registration timing: **retrospective**
Last update: **2020-04-22, 1399/02/03**
Update count: **0**

Registration date
2020-04-22, 1399/02/03

Registrant information

Name
Raheleh Vahid

Name of organization / entity

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Iran (Islamic Republic of)

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Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2018-04-03, 1397/01/14

Expected recruitment end date
2018-05-10, 1397/02/20

Actual recruitment start date
2018-04-03, 1397/01/14

Actual recruitment end date
2018-05-10, 1397/02/20

Trial completion date
2018-10-07, 1397/07/15

Scientific title
Effectiveness of computer based cognitive progressive intervention on audio/visual working memory, sustained attention and theory of mind on children with attention deficit hyperactivity disorder

Public title
Computer Based Training of Progressive Cognition on audio/ visual working memory in children with Attention

Deficit/ Hyperactivity Disorder

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

A) having attention deficit / hyperactivity disorder. b) tendency to participate in the study. c) having moderate intelligence (90 and above) d) not being affected by other disorders

Exclusion criteria:

Dissatisfaction with studying Having a physical disability that prevents you from working with a computer. Taking stimulant medications and other disorders

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Actual sample size reached: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

The selection of children was initially targeted by sampling. We then divided them into two groups of intervention and control in a simple random way based on a table of random numbers.

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

Tabriz Faculty of Medicine

Street address

Department of Psychology, Tabriz Branch, Islamic Azad University, Tabriz, Iran.

City

tabriz

Province

East Azarbaijan

Postal code

5157944533

Approval date

2019-09-04, 1398/06/13

Ethics committee reference number

IR.IAU.TABRIZ.REC.1398.050

Health conditions studied

1

Description of health condition studied

children with attention deficit hyperactivity disorder

ICD-10 code

F90

ICD-10 code description

Attention-deficit hyperactivity disorders

Primary outcomes

1

Description

Attention Deficit/ Hyperactivity Disorder

Timepoint

audio/visual working memory, sustained attention and theory of mind

Method of measurement

Clinical interview, child morbidity questionnaire, CPT test, Wechsler memory test, and theory of mind test

Secondary outcomes

empty

Intervention groups

1

Description

The experimental group underwent active memory improvement software test and my mind software software for 10 45-minute sessions (2 sessions per week) were individually placed in Roshana Counseling Center.

Category

Treatment - Other

2

Description

Control group:The control group did not receive treatment.

Category

Treatment - Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Roshana Counseling Center

Full name of responsible person

Raheleh Vahid

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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
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Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
No
Title of funding source
personal
Proportion provided by this source
1
Public or private sector
Private
Domestic or foreign origin
Domestic
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
Persons

Person responsible for general inquiries

Contact
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Person responsible for updating data

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
No - There is not a plan to make this available
Justification/reason for indecision/not sharing IPD
The data will be confidentially archived by the researcher and only their results will be reported.
Study Protocol
Yes - There is a plan to make this available
Statistical Analysis Plan
Yes - There is a plan to make this available
Informed Consent Form
Yes - There is a plan to make this available
Clinical Study Report
Yes - There is a plan to make this available
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
The collected data were analyzed using SPSS-22 software
When the data will become available and for how long
The data will be confidentially archived by the researcher and only their results will be reported.
To whom data/document is available
Researcher
Under which criteria data/document could be used
In order to report data and research results and help treat attention deficit hyperactivity disorder
From where data/document is obtainable
-
What processes are involved for a request to access data/document
-
Comments