

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

23 Jun 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

The 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

###### Country

Iran (Islamic Republic of)

###### Phone

+98 41 3326 5986

###### Email address

azmodeh.m65@gmail.com

##### 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

##### Street address

Department of Psychology, Tabriz Branch, Islamic

Azad University, Tabriz, Iran.

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**Email**

R\_vahidi\_91@yahoo.com

## Sponsors / Funding sources

### 1

**Sponsor**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

Hasan Rasooli saghai

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

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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**

**Name of organization / entity**

Islamic Azad University

**Full name of responsible person**

Masumeh Azemodeh

**Position**

Department of Psychology, Tabriz Branch, Islamic

Azad University, Tabriz, Iran.

**Latest degree**

Ph.D.

**Other areas of specialty/work**

Psychology

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## Person responsible for scientific inquiries

**Contact**

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Islamic Azad University

**Full name of responsible person**

Raheleh Vahid

**Position**

PhD candidate of Psychology, Tabriz Branch, Islamic Azad University, Tabriz, Iran.

**Latest degree**

Master

**Other areas of specialty/work**

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## Person responsible for updating data

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**Full name of responsible person**

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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**