

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

Effect of working memory enhancement on localization and auditory streaming in children with Auditory Processing Disorder aged 9 to 11 before and after auditory training.

Protocol summary

Summary

The purpose of this study is to compare the effect of working memory enhancement on localization and auditory streaming in children with Auditory Processing Disorder (APD) aged 9 to 11 before and after auditory training. Fifteen children with APD, ranging from 9 years to 11 will choose by convenient sampling method. The following Inclusion criteria will adopt: normal hearing, normal IQ, right handedness, no attention deficit, deficit in localization test and the ability to do the tests. A battery of auditory and cognitive tests will perform for APD children. The auditory tasks consist of auditory localization and auditory streaming tests. The cognitive evaluations comprise forward digit, backward digit and non-word repetition tests. The top-down auditory rehabilitation program will perform for 6 weeks for APD children. Then all tests will repeat for all participants. The results will be compared before and after rehabilitation.

General information

Acronym

NO

IRCT registration information

IRCT registration number: **IRCT2013020212345N1**

Registration date: **2013-11-28, 1392/09/07**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2013-11-28, 1392/09/07

Registrant information

Name

Saeideh Mehrkian

Name of organization / entity

University of Social and Welfare Rehabilitation

Country

Iran (Islamic Republic of)

Phone

+98 21 2218 0100

Email address

sm.mehrkian@uswr.ac.ir

Recruitment status

Recruitment complete

Funding source

University of Social Welfare and Rehabilitation Sciences.

Expected recruitment start date

2013-10-12, 1392/07/20

Expected recruitment end date

2013-11-11, 1392/08/20

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effect of working memory enhancement on localization and auditory streaming in children with Auditory Processing Disorder aged 9 to 11 before and after auditory training.

Public title

Role of top-down rehabilitation in children with central auditory processing disorder.

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: Normal hearing; Normal IQ; Right handedness; without attention deficit; Deficit in localization test; The ability to perform the tests.

Exclusion criteria: Left handedness; Bilingualism; Normal

	localization tests; Inability to do the tests.
Age	From 9 years old to 11 years old
Gender	Both
Phase	N/A
Groups that have been masked	<i>No information</i>
Sample size	Target sample size: 15
Randomization (investigator's opinion)	N/A
Randomization description	
Blinding (investigator's opinion)	Not blinded
Blinding description	
Placebo	Not used
Assignment	Single
Other design features	
Secondary Ids	empty
Ethics committees	
<u>1</u>	
Ethics committee	
Name of ethics committee	University of Social Welfare and Rehabilitation Sciences
Street address	Kodakyar Ave., Daneshjo Blvd., Evin
City	Tehran
Postal code	1985713834
Approval date	2013-06-10, 1392/03/20
Ethics committee reference number	1429
Health conditions studied	
<u>1</u>	
Description of health condition studied	Auditory processing disorder
ICD-10 code	H90.5
ICD-10 code description	Sensorineural hearing loss, unspecified. central hearing loss

Primary outcomes

<u>1</u>	
Description	Auditory Localization
Timepoint	Before training, 6 weeks after training
Method of measurement	Auditory Localization Test
Secondary outcomes	
<u>1</u>	
Description	Auditory Streaming
Timepoint	Before Training, 6 weeks after training
Method of measurement	Auditory Streaming Test
Intervention groups	
<u>1</u>	
Description	In case group : Exercises related to Increase Memory capacity
Category	Other

Recruitment centers

<u>1</u>	
Recruitment center	
Name of recruitment center	Akhavan Integrated Rehabilitation Center
Full name of responsible person	Saeideh Mehrkian
Street address	Moniriyeh Sq., Valiasr Ave.
City	Tehran
<u>2</u>	
Recruitment center	
Name of recruitment center	Rofeydeh Rehabilitation Hospital
Full name of responsible person	Saeideh Mehrkian
Street address	Nemati Alley, Baradaran Soleymani St., Qeytarieh
City	Tehran

Sponsors / Funding sources

<u>1</u>	
Sponsor	
Name of organization / entity	

University of Social Welfare and Rehabilitation
Sciences

Full name of responsible person

Dr. Younes Lotfi

Street address

Kodakyar Ave., Daneshjo Blvd., Evin

City

Tehran

Grant name

Grant code / Reference number

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

Yes

Title of funding source

University of Social Welfare and Rehabilitation 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

University of Social Welfare and Rehabilitation
Sciences

Full name of responsible person

Saeideh Mehrkian

Position

PhD. student of Audiology

Other areas of specialty/work

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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