Clinical Trial Protocol
Iranian Registry of Clinical Trials

24 Nov 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 paticipants. The results will be compared before and after rehabilition.

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

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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
No information

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

1

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

1

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

1

Description
Auditory Localization

Timepoint
Before training, 6 weeks after training

Method of measurement
Auditory Localization Test

Secondary outcomes

1

Description
Auditory Streaming

Timepoint
Before Training, 6 weeks after training

Method of measurement
Auditory Streaming Test

Intervention groups

1

Description
In case group : Exercises related to Increase Memory capacity

Category
Other

Recruitment centers

1

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

2

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
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Sponsors / Funding sources

1

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
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Position
PhD. student of Audiology

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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