

Clinical Trial Protocol

Iranian Registry of Clinical Trials

21 Sep 2026

The effect of auditory temporal processing training on speech fluency of children with developmental stuttering

Protocol summary

Study aim

The investigation of the effect of auditory temporal processing on speech fluency of developmental stuttering

Design

The clinical trial with control group, double blind study, randomized with the intervention group of 15 children with developmental stuttering

Settings and conduct

This study will be performed in Tehran, Iran in order to improve auditory temporal processing deficit in stuttering children and investigate the effect of training on stuttering severity. Actually both participants and therapist that evaluate the final results will be unaware of group allocation.

Participants/Inclusion and exclusion criteria

Children with developmental stuttering ranging in age from 7-12 years old

Intervention groups

The intervention of auditory temporal processing training in children with developmental stuttering

Main outcome variables

Riley Stuttering severity instrument-3 (SSI-3)

General information

Reason for update

Acronym

TPTS

IRCT registration information

IRCT registration number: **IRCT20180305038967N1**

Registration date: **2018-08-07, 1397/05/16**

Registration timing: **registered_while_recruiting**

Last update: **2018-08-07, 1397/05/16**

Update count: **0**

Registration date

2018-08-07, 1397/05/16

Registrant information

Name

Zahra Hosseini dastgerdi

Name of organization / entity

University of social welfare and rehabilitation sciences

Country

Iran (Islamic Republic of)

Phone

+98 21 2218 0100

Email address

za.Hosseini@uswr.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-07-16, 1397/04/25

Expected recruitment end date

2020-03-19, 1398/12/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of auditory temporal processing training on speech fluency of children with developmental stuttering

Public title

The effect of auditory temporal processing training on stuttering

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria:

Have developmental stuttering Normal hearing Normal IQ

Exclusion criteria:

Learning disorder Attention disorder Neurological

disorder History of otitis media with effusion

Age
From **7 years** old to **12 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant
- Outcome assessor

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Randomized

Randomization description
Stratified randomization by software in order to equivalent distribution of different age in two control and intervention groups

Blinding (investigator's opinion)
Double blinded

Blinding description
The allocation of patients with inclusion criteria will be done in different days to minimize the chance of talking patients together. Final results will be gathered by therapist that will not aware of groups.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethic committee of university of social welfare and rehabilitation sciences

Street address

University of social welfare and rehabilitation sciences, evin, daneshjo blvd, kodakyar deadend

City

Tehran

Province

Tehran

Postal code

1985713834

Approval date

2018-06-20, 1397/03/30

Ethics committee reference number

IR.USWR.REC.1397.3

Health conditions studied

1

Description of health condition studied

Developmental stuttering

ICD-10 code

F98.5

ICD-10 code description

Speech that is characterized by frequent repetition or prolongation of sounds or syllables or words, or by frequent hesitations or pauses that disrupt the rhythmic flow of speech. It should be classified as a disorder only if its severity is such as to ma

Primary outcomes

1

Description

Riley Stuttering severity instrument-3(SSI-3)

Timepoint

At the beginning of the study and after 12 session training and 3 months after training

Method of measurement

Riley Stuttering severity instrument - 3 score by interviewing and observation of child verbal behavior

2

Description

Stuttering severity index includes frequency of stuttering(percent of syllable and words that stuttered) and observation of secondary behavior

Timepoint

At the beginning of the study, 12 session after training , 3 months after training

Method of measurement

Riley Stuttering severity instrument - 3 score by interviewing and observation of child verbal behavior

Secondary outcomes

1

Description

Score of auditory temporal processing tests

Timepoint

At the beginning of the study- after 12 session training- 3 months after training

Method of measurement

Includes duration pattern test-gap in noise test-backward masking

Intervention groups

1

Description

Intervention group: 15 children with developmental stuttering that have abnormal function in auditory temporal processing that will receive auditory temporal processing training along with speech therapy

Category

Rehabilitation

2

Description

Control group: 15 children with developmental stuttering and abnormal function in the auditory temporal processing that will only receive traditional speech therapy

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Rofeydeh Rehabilitation hospital

Full name of responsible person

Morteza Farazi

Street address

Rofeydeh Rehabilitation hospital, Nemati allay, Shahid Baradaran Soleymani St., Gheydariyeh

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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. Yones Lotfi

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University of Social Welfare and Rehabilitation Sciences, Kodakyar St., Daneshjo Blvd., Evin

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Email

Yones1333@gmail.com

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

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

University of social welfare and rehabilitation sciences

Full name of responsible person

Zahra Hoseini Dastgerdi

Position

PhD student

Latest degree

Master

Other areas of specialty/work

Audiology

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Yes - There is a plan to make this available

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

Yes - There is a plan to make this available

Data Dictionary

Yes - There is a plan to make this available

Title and more details about the data/document

Individual information and information about main results is publishable

When the data will become available and for how long

The access period 6 months after publishing the results

To whom data/document is available

Only available to student and academic researcher

Under which criteria data/document could be used

Only under conditions that cite to the article

From where data/document is obtainable

zahra hosseini dastgerdi

What processes are involved for a request to access data/document

The purpose of their studies should be clear. and citation must be done

Comments

Person responsible for updating data

Contact

Name of organization / entity

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