

Clinical Trial Protocol

Iranian Registry of Clinical Trials

18 Sep 2026

To compare the effectiveness of unisensory (auditory) and bisensory (auditory-visual) based language training methods on auditory perception and expressive language skills in Persian cochlear implanted children

Protocol summary

Summary

In this study, we will compare the effectiveness of auditory and auditory-visual based language training methods on auditory perception and expressive language skills in Persian cochlear implanted children. We have assumed that if we focus on auditory modality to educate the cochlear implanted children, they can learn more effectively and efficiently auditory perception and language skills. We need to design and prepare two language training protocols to examine the hypothesis. The sensory modality will be the only difference between the protocols. We will use principles and technics of auditory-verbal and aural-oral approaches in the protocols.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201109267637N1**

Registration date: **2011-11-02, 1390/08/11**

Registration timing: **prospective**

Last update:

Update count: **0**

Registration date

2011-11-02, 1390/08/11

Registrant information

Name

Mohammad Majid Oryadi Zanjani

Name of organization / entity

University of social welfare & rehabilitation sciences

Country

Iran (Islamic Republic of)

Phone

+98 71 1227 8085

Email address

oryadi@sums.ac.ir

Recruitment status

Recruitment complete

Funding source

1. University of Social Welfare and Rehabilitation Sciences; 2. Ministry of Health and Medical Education

Expected recruitment start date

2011-11-06, 1390/08/15

Expected recruitment end date

2012-06-20, 1391/03/31

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

To compare the effectiveness of unisensory (auditory) and bisensory (auditory-visual) based language training methods on auditory perception and expressive language skills in Persian cochlear implanted children

Public title

The effectiveness of language training methods on acquisition of auditory, speech and language skills in Persian hearing impaired children

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: 1. congenital hearing impairment 2. age between 1 to 5 years old 3. normal intelligence 4. cochlear implanted between 1 to 5 years old 5. use of hearing aids before cochlear implantation 6. absence of

the other disabilities such as: CP, MR, genetical syndromes, blindness Exclusion criteria: 1. acquired hearing impairment 2. abnormal intelligence 3. cochlear implanted above 5 years old

Age

From **1 year** old to **5 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **22**

Randomization (investigator's opinion)

Randomized

Randomization description

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

University of Social Welfare and Rehabilitation Sciences

Street address

Kodakyar Ave., Daneshjo Blvd., Evin

City

Tehran

Postal code

Approval date

2011-10-23, 1390/08/01

Ethics committee reference number

90/801/A/13416/2

Health conditions studied

1

Description of health condition studied

Hearing loss

ICD-10 code

H90.5

ICD-10 code description

Sensorineural hearing loss, unspecified

Primary outcomes

1

Description

Auditory perception

Timepoint

Three monthly

Method of measurement

the Newsha Hearing, Language and Speech Development Scale ; The Tavana Test for Evaluation of Auditory Skills of hearing-impaired children

2

Description

Expressive language

Timepoint

Three monthly

Method of measurement

The Newsha Hearing, Language and Speech Development Scale

Secondary outcomes

1

Description

Receptive language

Timepoint

Three monthly

Method of measurement

The Newsha Hearing, Language and Speech Development Scale

2

Description

Speech skills

Timepoint

Three monthly

Method of measurement

The Newsha Hearing, Language and Speech Development Scale

3

Description

Speech intelligibility rate

Timepoint

Six monthly

Method of measurement

The Speech Intelligibility Measurement Test for children

4

Description

Mean length of utterance (MLU)

Timepoint

Monthly

Method of measurement

Picture Description and Conversation Methods

Intervention groups

1

Description

Language training protocol based on auditory modality will execute on control group from 6 to 12 months. Teacher will educate HI children in the mother-child class and mother will rehearse the educated items at home.

Category

Rehabilitation

2

Description

Language training protocol based on both auditory and visual modalities will execute on control group from 6 to 12 months. Teacher will educate HI children in the mother-child class and mother will rehearse the educated items at home.

Category

Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center

Soroosh Center of Education and Rehabilitation of Hearing Impaired children and family

Full name of responsible person

Maryam Vahab

Street address

City

Shiraz

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

University of Social Welfare and Rehabilitation Sciences

Full name of responsible person

Laya Gholami Tehrani

Street address

Kodakyar Ave., Daneshjo Blvd., Evin

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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

Shiraz School of Rehabilitation Sciences

Full name of responsible person

Maryam Vahab

Position

M.Sc of speech therapy/faculty member and group director

Other areas of specialty/work

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Person responsible for scientific inquiries

Contact

Name of organization / entity

Faculty of Psychology & Education, University of Tehran

Full name of responsible person

Saeed Hasanzade

Position

PhD of Psychology of Exceptional Children/associate professor

Other areas of specialty/work

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Person responsible for updating data

Contact

Name of organization / entity

University of Social Welfare and Rehabilitation Sciences

Full name of responsible person

Mohammad Majid Oryadi Zanjani

Position

student of PhD of speech therapy

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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