

Clinical Trial Protocol

Iranian Registry of Clinical Trials

26 Jul 2026

The effect of perceptual-motor training on neuropsychological skills in children with visual impairment

Protocol summary

Study aim

investigate the effect of motor-perceptual training (attention, memory function executive) on neuropsychological skills in children with visual impairment

Design

A single case study, with 3 participants was selected as accessible and purposeful. Each participant is considered as the control group of the previous participant.

Settings and conduct

The design is a single sample and multiple baselines. Only Nephrol attended training sessions for three weeks (3 sessions per week), and the other two were in baseline position to control threatening internal validity variables, while training sessions for the first person continued, for The nephrotome was performed while the third person was still in control and received no intervention. At the end, all three individuals participated in the exercise. The program was run individually for eight weeks (three sessions per week) and at each of the mentioned stages the researcher recorded changes in the subjects' performance in each of the sessions in the Conners test. One month after the third subject's exercise was completed, a follow-up assessment was performed for all three participants and repeated twice a week thereafter. Place of research Tavakol blind center of Isfahan

Participants/Inclusion and exclusion criteria

Inclusion criteria: Visual acuity of 20/70 and 20/200 and age range of four to seven years. Input criterion: Absente disciplina sessionibus .Corporalis vitium

Intervention groups

Cognitive Movement Training on Psychological Nervous Skills of 3 Children with Visual Impairment. With a single-sample design of a multiple base line type.

Main outcome variables

Evaluation of attention, memory and executive function in children with visual impairment after a period of cognitive and motor training

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20161010030257N1**

Registration date: **2019-12-30, 1398/10/09**

Registration timing: **retrospective**

Last update: **2019-12-30, 1398/10/09**

Update count: **0**

Registration date

2019-12-30, 1398/10/09

Registrant information

Name

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 913 100 6269

Email address

nezakat@spr.ui.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2018-04-21, 1397/02/01

Expected recruitment end date

2018-07-21, 1397/04/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of perceptual-motor training on

	neuropsychological skills in children with visual impairment
Public title	perceptual-motor training children with visual impairment
Purpose	Supportive
Inclusion/Exclusion criteria	
Inclusion criteria:	Visual acuity of 70/20 and 200/20 Age 4-7 years
Exclusion criteria:	Absente disciplina sessionibus Corporalis vitium
Age	From 4 years old to 7 years old
Gender	Both
Phase	N/A
Groups that have been masked	No information
Sample size	Target sample size: 3
Randomization (investigator's opinion)	N/A
Randomization description	
Blinding (investigator's opinion)	Not blinded
Blinding description	
Placebo	Not used
Assignment	Single
Other design features	This is a quasi-experimental research and a single case design is a multi-base line type.

Secondary Ids

empty

Ethics committees

1

Ethics committee	
Name of ethics committee	Ethics Committee of Isfahan University
Street address	Isfahan, Azadi Square, Isfahan University
City	Esfahan
Province	Isfahan
Postal code	8174673441
Approval date	2019-07-17, 1398/04/26
Ethics committee reference number	IR.UI.REC.1398.016

Health conditions studied

1

Description of health condition studied	Visual impairment
ICD-10 code	H47
ICD-10 code description	Other disorders of optic [2nd] nerve and visual pathways

Primary outcomes

1

Description	Neuropsychological Questionnaire scores on the Conners
Timepoint	Before the intervention, at the beginning of the study, at each training session, after the end of all training sessions
Method of measurement	Conners Neuropsychological Test

Secondary outcomes

empty

Intervention groups

1

Description	The protocol of the Cognitive Exercise Training Session Program was selected based on the developmental and reinforcement of perceptual-motor skills in children and implemented and practiced by the researcher. Exercises include visual perception, spatial perception, shape perception, auditory perception, balance and balance, kinematic-tactile perception, body awareness and role function, eye and hand, eye and foot coordination, subtle motor actions. These exercises were based on a single multiple baseline sample design on three children aged 4 to 7 years. They were practicing under the coach for 8 weeks each and 3 sessions per week. The first child had three baseline infants and then received the intervention (8 weeks). The second child received the intervention for 5 weeks at baseline and then the intervention for the third child for 7 weeks at baseline and thereafter. After completion of the single sample design, 2 follow-up tests were taken from three children.
Category	Rehabilitation

Recruitment centers

1

Recruitment center	
Name of recruitment center	Esfahan Tavakol Blind Center
Full name of responsible person	

Fatemeh Tavakoli

Street address

Alley 27, opposite the first intersection, Fallati street,
Fallati crossroad, Beaat St, beginning of Chamran
highway, Laleh Square, Isfahan

City

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+98 31 3568 5827

Email

tavakoli.z2520@yahoo.com

Web page address

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

University of Esfahan

Full name of responsible person

Dr. Rasul Roknizadeh

Street address

Physical Education Faculty, University of Esfahan,
Azadi Square, Hezarjarib street

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Phone

+98 31 3739 4283

Email

mnezakat2003@yahoo.com

Grant name

Grant code / Reference number

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

No

Title of funding source

University of Isfahan

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 Esfahan

Full name of responsible person

Maryam Nezakat Alhossani

Position

Associate professor of Motor Behavior

Latest degree

Ph.D.

Other areas of specialty/work

Others

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Faculty of Sport Sciences, Isfahan University, Hezar
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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

Before the start of the school, families did not want to be
released

Study Protocol

No - There is not a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

No - There is not a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable