Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 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 executivae)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
Isfehan
Postal code
۸۱۷۴۶۷۳۴۴۱
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

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity
University of Esfahan

Full name of responsible person
Dr. Rasul Roknizadeh

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

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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 Jerib Street, Azadi Square

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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