

# Clinical Trial Protocol

## Iranian Registry of Clinical Trials

21 Jun 2026

### Impact of perceptual- motor package use on learning disorder in children

#### Protocol summary

##### Summary

The purpose of this study is to evaluate progress in reading ability in children with learning disorder in 3 groups with different interventions. The first group receives educational package including 6 parts that every part lasts 10 minutes. It is provided by researcher and occupational therapist with considering ethical issues and is used by parents as a self-help instrument. The second group practices the same tasks in rehabilitation clinic by helping an occupational therapist and the Third group is the control group who does not get any intervention. All groups are going to be evaluated for pretest by these 2 tests: 1. inventory reading test (IRT) that includes 5 story according to grade 1 to grade 5 students' abilities. 2. and working memory test n-back. Posttest will be done after practicing tasks 3 times in a week (30-45 minute) for 3 consecutive months. This study will be done in grade 1 to grade 5 students (boys and girls) 7 to 12 years old after getting learning disorder diagnosis by psychiatrist and conducting Wechsler Intelligence Scale for Children (WISC). They are referred to Learning disorder Koosha clinic, ministry of education, Iran, Babol (North of Iran). Educational soft wares have already been used to increase learning ability, but this research focuses on self-help aspect of treatment. It may reduce the required time and expenses and leads to increased satisfaction.

#### General information

##### Acronym

##### IRCT registration information

IRCT registration number: **IRCT2017041412053N2**

Registration date: **2017-09-11, 1396/06/20**

Registration timing: **retrospective**

Last update:

Update count: **0**

##### Registration date

2017-09-11, 1396/06/20

#### Registrant information

##### Name

Mitra Hakim Shooshtari

##### Name of organization / entity

Iran University of Medical Sciences

##### Country

Iran (Islamic Republic of)

##### Phone

+98 21 6650 9024

##### Email address

hakim.m@iums.ac.ir

#### Recruitment status

##### Recruitment complete

#### Funding source

Iran University of Medical Sciences

#### Expected recruitment start date

2017-03-10, 1395/12/20

#### Expected recruitment end date

2017-06-21, 1396/03/31

#### Actual recruitment start date

empty

#### Actual recruitment end date

empty

#### Trial completion date

empty

#### Scientific title

Impact of perceptual- motor package use on learning disorder in children

#### Public title

Impact of perceptual- motor package use on learning disorder in children

#### Purpose

Treatment

#### Inclusion/Exclusion criteria

inclusion criteria: grade 1 to grade 4 students; having learning disorder based on a child psychiatrist diagnosis  
exclusion criteria: history of seizure; history of other neurological or orthopedic problems; having autism

#### Age

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

**Gender**

Both

**Phase**

N/A

**Groups that have been masked**

*No information*

**Sample size**

Target sample size: **45**

**Randomization (investigator's opinion)**

Not 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**

Iran University of Medical Sciences

**Street address**

Hemmat Highway

**City**

Tehran

**Postal code**

1449614535

**Approval date**

2017-03-06, 1395/12/16

**Ethics committee reference number**

IR.IUMC.REC.1395.927118002

**Health conditions studied**

1

**Description of health condition studied**

learning disorder

**ICD-10 code**

F81.0

**ICD-10 code description**

specific reading disorder

**Primary outcomes**

1

**Description**

Reading ability and working memory

**Timepoint**

Preintervention

**Method of measurement**

Screening Inventory Reading Test (IRT) and N-Back Working Memory Test

**Secondary outcomes**

1

**Description**

Earning ability and working memory

**Timepoint**

After 3 months intervention

**Method of measurement**

Screening Inventory Reading Test (IRT) and N-Back Working Memory Test

**Intervention groups**

1

**Description**

The intervention group receives package and practices tasks 3 times in a week for 3 consecutive months and is evaluated by pretest and posttest. This educational package consists of 6 parts and every part lasts 10 minutes. It has been made by occupational therapist and resident of psychiatry after getting a consent form of a child and her parents and the exercises will be recorded in 6 weekly sessions. After making the film and organizing the material, the study is started. Following domains have been considered in this package: 1. Ocular exercises include 3 types of eye movement: staring, pursuing and saccadic movement like exercise with flashlight or finding the direction. Visual perception exercises include increasing visual memory, discrimination and closure like tapping. 2. Motor planning exercises include coordination between limbs and simultaneous use of several organs (hands, feet and eyes) like imitation of postures. 3. Memory exercises in 2 forms: phonological (repeating several words) and visual-perceptual (playing with Lego or jigsaw). 4. Some exercises for auditory discrimination to separate sounds and to find the source of sound. 5. Some exercises for persistent, selective and alternative attention that increases child's tolerance. 6. Some exercises for problem solving and reasoning to involve in academic activities and to find solution by deductive or inductive ways like playing with numbers.

**Category**

Other

2

**Description**

The second group practices the same tasks (like educational package) by helping an occupational therapist in the clinic. They get exercises in 3 weekly sessions for 3 consecutive months. They are evaluated by pretest and posttest.

**Category**

Other

### 3

#### Description

The Third group is the control group who just participated in pretest and posttest. They are selected from waiting list of clinic who have learning disorder and they have signed the consent form after getting explanation about the research. Follow up is done by calling parents weekly, asking about educational package. If they do not answer the call, it would be repeated.

#### Category

Other

### Recruitment centers

#### 1

##### Recruitment center

###### Name of recruitment center

Learning Disorder Koosha Clinic, Ministry of Education, Babol, Iran

###### Full name of responsible person

Marziehe Nazari

###### Street address

Velayat Square, Ministry of Education of Babol

###### City

Babol

### Sponsors / Funding sources

#### 1

##### Sponsor

###### Name of organization / entity

Iran University of Medical Sciences, Knowledge and Translation and Exchange Unit

###### Full name of responsible person

Kazem Malakouti

###### Street address

Hemmat Highway

###### City

Tehran

##### Grant name

##### Grant code / Reference number

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

Yes

##### Title of funding source

Iran University of Medical Sciences, Knowledge and Translation and Exchange Unit

##### 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

Mazandaran University of Medical Sciences

##### Full name of responsible person

Hossein Salehi

##### Position

psychiatrist, Mazandaran University of Medical Sciences

##### Other areas of specialty/work

##### Street address

Mostafa Khomeini Street, Shahid Yajanejad Hospital

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### Person responsible for scientific inquiries

#### Contact

##### Name of organization / entity

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##### Position

child psychiatrist

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### Person responsible for updating data

#### Contact

##### Name of organization / entity

Mental Health Research Center, Tehran Institute of Psychiatry- Faculty of Behavioral Sciences and Me

##### Full name of responsible person

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##### Position

associate professor

**Other areas of specialty/work****Street address**

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**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*