

Clinical Trial Protocol

Iranian Registry of Clinical Trials

19 Jun 2026

Effectiveness of Sensory-Motor Integrity Therapy on Reading and Writing Problems in Children with Learning Disabilities

Protocol summary

Study aim

Determination of therapy integration sensory-motor effectiveness, in children with learning disabilities reading and writing problems.

Design

Clinical trial with control and experimental groups, randomized, two samples of 15 people, available sampling method

Settings and conduct

During the research, various tests are conducted, including movement tests, reading and writing tests. The tests are used as a pre-test at first and after the therapeutic interventions as a post-test. The place is one of the learning disorder schools in Tehran. Blinding does not occur in this research.

Participants/Inclusion and exclusion criteria

Inclusion criteria: be a student; Refer to learning disability centers

Intervention groups

The control group includes children who do not receive sensory-motor integration treatment and participate as a comparison group. The experimental group includes children receiving sensory-motor integration therapy, and changes may be observed in this group due to treatment and sensory-motor interactions. The interventions in the intervention groups include movement exercises, sensory stimulation, behavioral interventions, and educational interventions. The purpose of these interventions is to improve the educational skills of children with learning disabilities and evaluate their improvement.

Main outcome variables

Improving motor and sensory skills; increasing reading abilities; improving writing skills; reducing reading and writing problems; increase reading comprehension; reducing defects and writing errors

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20230925059513N1**

Registration date: **2023-10-30, 1402/08/08**

Registration timing: **retrospective**

Last update: **2023-10-30, 1402/08/08**

Update count: **0**

Registration date

2023-10-30, 1402/08/08

Registrant information

Name

Leila Boka

Name of organization / entity

The University of Azad -Semnaan

Country

Iran (Islamic Republic of)

Phone

+98 21 8861 9764

Email address

sadra.moeini@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2023-03-20, 1401/12/29

Expected recruitment end date

2023-09-20, 1402/06/29

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Effectiveness of Sensory-Motor Integrity Therapy on Reading and Writing Problems in Children with Learning Disabilities

Public title

Effectiveness of Sensory-Motor Integrity Therapy on Reading and Writing Problems in Children with Learning Disabilities

Purpose

Other

Inclusion/Exclusion criteria

Inclusion criteria:

Student Refer to learning disability centers

Exclusion criteria:

Age

From **8 years** old to **17 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **30**

Randomization (investigator's opinion)

Randomized

Randomization description

Two samples of 15 people will be selected in the form of two control and experimental groups. Due to the limited number of samples, the members of the sample will be selected by available sampling method and randomly placed in two control and experimental groups. This is the case that 15 people were randomly assigned to the control group 15 people will be randomly assigned to the experimental group.

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee Of Semnan Azad University

Street address

5 km of Semnan Damghan road

City

Semnan

Province

Semnan

Postal code

۳۷۱۱۱-۳۵۱۳۱

Approval date

2023-01-12, 1401/10/22

Ethics committee reference number

IR.IAU.SEMNAN.REC.1402.058

Health conditions studied

1

Description of health condition studied

Reading and writing problems in children with learning disabilities

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Improving motor and sensory skills through diverse sports and physical exercises is possible. Regular training and sensory exercises can enhance balance, coordination, and sensory perceptions, including visual, tactile, and auditory senses.

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

2

Description

To improve reading and writing skills, regular reading of diverse books and articles, along with daily writing practice, is crucial. Additionally, using a dictionary and glossaries to expand your vocabulary and staying updated with current news and articles can be beneficial.

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

3

Description

To improve your writing skills, you can improve your skills by reading more, practicing writing daily, and asking others for feedback. Also, it will be helpful to read articles and books related to the type of writing you want to produce;

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

4

Description

To reduce reading and writing problems, continuous practice and active study are key. Creating regular study programs and using a variety of educational resources can help improve reading and writing skills;

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

5

Description

To increase reading comprehension, reading activities focusing on and repeating key concepts along with analytical thinking are important. It also helps to use a variety of educational resources and participate in discussions and write summaries;

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

6

Description

To reduce writing defects and errors, it is important to review and edit the text carefully, use grammar tools and pay attention to basic spelling points such as wording. Also, knowing the rules of writing and constant practice in writing helps.

Timepoint

The beginning of the study

Method of measurement

Lincoln-Ozertsky Test And Reading Screening Test For Diagnosis Of Reading Disorder

Secondary outcomes

empty

Intervention groups

1

Description

Control Group: The control group usually includes children who do not receive sensory-motor integration therapy. The members of this group participate in the research as a comparison group so that the results of this group can be compared with the experimental group. The control group usually has access to the usual and standard care for children with learning disabilities. **Experimental Group:** The experimental group includes children who receive sensory-motor integration therapy. This study group shows how effective treatment is for their reading and writing problems. Changes may be observed in this group due to treatment and sensory and motor interactions.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Educational Centers For Learning Disorders In Tehran

Full name of responsible person

Leila Boka

Street address

4th Floor, No.486, Not Reaching Baharestan 1,Below The Pasdaran Intersection, Pasdaran,Tehran

City

Tehran

Province

Tehran

Postal code

1996618143

Phone

+98 21 8861 9764

Email

sadra.moeini@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

Sahar Mehrabi Pari

Street address

Room 356, 3rd floor, Department of Psychology Building, Islamic Azad University of Semnan, 5 kilometers on the Semnan - Damghan Road, Semnan.

City

Semnan

Province

Semnan

Postal code

۳۷۱۱۱-۳۵۱۳۱

Phone

+98 23 3165 6565

Email

info@semnaniau.ac.ir

Grant name

Grant code / Reference number

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

No

Title of funding source

Islamic Azad University

Proportion provided by this source

1

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**

Islamic Azad University

Full name of responsible person

Sahar Mehrabi Pari

Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Psychology

Street address

Unit 808, 7th Floor, Bo Ali Doctors Building, Amirkabir Blvd, Semnan

City

Semnan

Province

Semnan

Postal code

۳۷۱۱۱-۳۵۱۳۱

Phone

+98 23 3165 6565

Email

sadra.moeini@gmail.com

Person responsible for scientific inquiries**Contact****Name of organization / entity**

Islamic Azad University

Full name of responsible person

Sahar Mehrabi Pari

Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Psychology

Street address

Unit 808, 7th Floor, Bo Ali Doctors Building, Amirkabir Blvd, Semnan

City

Semnan

Province

Semnan

Postal code

۳۷۱۱۱-۳۵۱۳۱

Phone

+98 23 3165 6565

Email

sadra.moeini@gmail.com

Person responsible for updating data**Contact****Name of organization / entity**

Islamic Azad University

Full name of responsible person

Sahar Mehrabi Pari

Position

Professor

Latest degree

Ph.D.

Other areas of specialty/work

Psychology

Street address

Unit 808, 7th Floor, Bo Ali Doctors Building, Amirkabir Blvd, Semnan

City

Semnan

Province

Semnan

Postal code

۳۷۱۱۱-۳۵۱۳۱

Phone

+98 23 3165 6565

Email

sadra.moeini@gmail.com

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

Part of the data, such as information related to the main outcome or similar, can be shared.

When the data will become available and for how long

The access period starts 6 months after the results are published

To whom data/document is available

It will be available only to researchers working in academic and scientific institutions

Under which criteria data/document could be used

It has no conditions

From where data/document is obtainable

Contact via the email below and send an email to Mrs. Leila Boka, the documents will be sent to you sadra.moeini@gmail.com

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

First, the person sends his/her request via email, we will

check and answer the issue in less than 24 hours while checking the email. After that, the necessary guidance to

receive the documents will be provided.
Comments