Clinical Trial Protocol
Iranian Registry of Clinical Trials

22 Nov 2026

Comparing the effect of tele-occupational therapy and face-to-face occupational therapy on improving reading in children with dyslexia in primary school

Protocol summary

Study aim
Comparing the effect of Tele-occupational therapy and face-to-face occupational therapy on improving reading in children with dyslexia in primary school

Design
The clinical trial with a control group, with intervention groups, a blinded, randomized phase 0 on 30 dyslexic children, will be used for randomization using the random block method with the help of the blokrand function in R 4.2.2 software.

Settings and conduct
The research in the field of working memory and attention in order to improve reading comprehension and reading of dyslexic children will be done in Haft Seng Institute and Sampling will be done from learning disorder centers. Dyslexic children will be randomly divided into two groups by an uninformed expert using the blokrand function.

Participants/Inclusion and exclusion criteria
1. The second, third and fourth grade. 2. Diagnosis of special learning disorder by a psychiatrist 3. Informed consent of parents to enter the research 4. Not suffering from other disorders along with special learning disorder

Intervention groups
The control group of dyslexic children who receive face-to-face occupational therapy interventions and the experimental group of dyslexic children who receive remote occupational therapy interventions through video call in the field of working memory and attention. Interventions will be provided in 14 sessions of 45 minutes in each two groups.

Main outcome variables
The main outcome of the intervention is the effect on working memory, attention and comprehension on improving the reading of children with dyslexia.

General information

Reason for update
Acronym
IRCT registration information
IRCT registration number: **IRCT20240527061919N1**
Registration date: **2024-10-18, 1403/07/27**
Registration timing: **prospective**

Last update: **2024-10-18, 1403/07/27**
Update count: **0**

Registration date
2024-10-18, 1403/07/27

Registrant information
Name
Zeynab Moravvej
Name of organization / entity
Country
Iran (Islamic Republic of)
Phone
+98 21 4426 6001
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Recruitment status
Recruitment complete
Funding source

Expected recruitment start date
2024-10-21, 1403/07/30
Expected recruitment end date
2025-01-19, 1403/10/30
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
Comparing the effect of tele-occupational therapy and face-to-face occupational therapy on improving reading in children with dyslexia in primary school

Public title
The effectiveness of tele-occupational therapy compared to face-to-face occupational therapy

Purpose
Treatment

Inclusion/Exclusion criteria

Inclusion criteria:
Be second, third and fourth grade A diagnosis of special learning disorder has been mentioned by a psychiatrist Parents must have informed consent to enter the research

Exclusion criteria:
Having other disorders along with learning disorder

Age
From **7 years** old to **11 years** old

Gender
Both

Phase
N/A

Groups that have been masked

- Participant

Sample size
Target sample size: **30**

Randomization (investigator's opinion)
Randomized

Randomization description
The participants will be divided into two groups using the random block method with the help of the blokrand function in R 4.2.2 software. It is worth noting that randomization will be done in the following arrangement: B B A A A B A B B A B A B A A B A B B B A A A B A B B B A; where B will represent placement in the test group and A will represent placement in the control group.

Blinding (investigator's opinion)
Single blinded

Blinding description
The participants in the research will enter the research knowingly. A pre-test will be taken from all participants in the study to enter the study. None of the participants will know how to be placed in the groups and the type of group.

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Social Welfare and Rehabilitation Sciences university

Street address
University of Rehabilitation Sciences and Social Health., Kodakyar dead end., Student Blvd., Velenjak

City
Tehran

Province
Tehran

Postal code
1985713871

Approval date
2024-09-28, 1403/07/07

Ethics committee reference number
IR.USWR.REC.1403.137

Health conditions studied

1

Description of health condition studied
Dyslexia

ICD-10 code
R48.0

ICD-10 code description
Dyslexia and alexia

Primary outcomes

1

Description
Working memory

Timepoint
The first, middle and final session of the research

Method of measurement
Cantab test sub-test of spatial working memory

2

Description
Attention

Timepoint
The first, middle and final session of the research

Method of measurement
Cantab test sub-test of intra-dimensional/extra-dimensional shift

3

Description
Comprehension

Timepoint
The first, middle and final session of the research

Method of measurement
reading and dyslexia test

Secondary outcomes

empty

Intervention groups

1

Description
Control group: clients with dyslexia who receive occupational therapy interventions in person. Interventions in the control group will be provided face-to-face by the therapist in 14 45-minute sessions. Before allocating people to two groups, there will be a pre-test and a post-test at the end of the interventions, and a follow-up will be done after 2 months. The first, middle and final sessions will be considered to ensure the cooperation of the families. The second to sixth sessions and the eighth to thirteenth sessions will be interventions in the field of working memory and attention and in order to improve and understand the content.

Category
Rehabilitation

2

Description
Intervention group: Clients with dyslexia who receive occupational therapy interventions remotely. Interventions of the experimental group will be provided in the form of video calls and providing interventions from behind the phone and explanations to parents in 14 sessions of 45 minutes. Before assigning people to two groups, a pre-test and a post-test will be taken at the end of the interventions, and a follow-up will be done after 2 months. The first, middle and final sessions will be held in person to evaluate and ensure the cooperation of the families. The second to sixth sessions and the eighth to thirteenth sessions will be interventions in the field of working memory and attention and to improve reading and comprehension.

Category
Rehabilitation

Recruitment centers

1

Recruitment center
Name of recruitment center
Mahan Rehabilitation Center
Full name of responsible person
Mahdi Karami
Street address
No. Second floor , 5 , in front of the door of Shariat Razavi Hospital., Shahid Abdollahi Street., South Mehrabad
City
Tehran
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Tehran
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1385674931
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2

Recruitment center
Name of recruitment center
Tavanafarin Rehabilitation Clinic
Full name of responsible person
Mozhgan Kabki
Street address
No. 3rd floor, 168 , next to gas station., in front of 4th Niro Air Force., Pirozi St., niroohavayi
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1766745754
Phone
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Email
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Sponsors / Funding sources

1

Sponsor
Name of organization / entity
University of social welfare and rehabilitation sciences
Full name of responsible person
Mohamad Saeed Khanjani
Street address
University of Rehabilitation Sciences and Social Health., Kodakyar dead end., Student Blvd., Velenjak
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Province
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Postal code
1985713871
Phone
+98 21 7173 2000
Fax
Email
sa.khanjani@uswr.ac.ir
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
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 social welfare and rehabilitation sciences

Full name of responsible person

Zeynab moravvej

Position

Occupational therapist

Latest degree

Bachelor

Other areas of specialty/work

Occupational Therapy

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Zeynabmoravvej78@gmail.com

Person responsible for scientific inquiries

Contact

Name of organization / entity

University of social welfare and rehabilitation sciences

Full name of responsible person

Ghazale mandani

Position

Associate professor

Latest degree

Ph.D.

Other areas of specialty/work

Occupational Therapy

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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

Zeynab Moravvej

Position

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Latest degree

Bachelor

Other areas of specialty/work

Occupational Therapy

Street address

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City

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1985713871

Phone

+98 21 7173 2000

Email

Zeynabmoravvej78@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

Undecided - It is not yet known if there will be a plan to make this available

Title and more details about the data/document

Research data. The data will only be made available to professors and principal researchers.

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

The data will be in the hands of the original researchers, and after the work is completed, the results will be published in authoritative articles.

Under which criteria data/document could be used

In case, non-identifiable data will be provided to people for research in line with the continuation of said research.

From where data/document is obtainable

To receive the data, they can refer to Dr. Ghazaleh Mandani. Address: Occupational Therapy Training

Group., university of social welfare and rehabilitation sciences ., dead end kodakyar., daneshjo blv., velenjak., tehran Postal code: 1985713871 Email: ghazal.mandani@gmail.com

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

After sending the data application request, if approved by the professors, the data file will be sent. It will take at least one month from the time of sending the confirmation of the data request application to the sending of the data.

Comments