Clinical Trial Protocol
Iranian Registry of Clinical Trials

19 Nov 2026

Evaluation the impact of code-focused intervention on word decoding in preschool children

Protocol summary

Summary

The aim of study was to evaluate the effect of training phonological awareness and alphabet knowledge on word decoding skill in children (before the start of formal reading education) in the first class. 62 children participate in the initial assessment of phonological awareness test (dastjerdi), Automatic Rapid Naming (Soleimani), letter sound correspondance (Soleimani) and word decoding (researcher made) . The subjects were randomly divided into two intervention and control groups. Group intervention recieved teaching in phonological awareness and alphabet (12 letters) in 6 weeks (30 sessions of 45 minute) . The control group did not receive training at the same time. The training period run in 15 September through 30 October . Then all participants re-evaluated in the tests.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2016101230273N1**
Registration date: **2016-12-07, 1395/09/17**
Registration timing: **retrospective**

Last update:
Update count: **0**

Registration date

2016-12-07, 1395/09/17

Registrant information

Name

Mahdi Khodadoust

Name of organization / entity

Iran University of Medical Sciences

Country

Iran (Islamic Republic of)

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Recruitment status

Recruitment complete

Funding source

Iran University of Medical Sciences

Expected recruitment start date

2016-08-26, 1395/06/05

Expected recruitment end date

2016-10-31, 1395/08/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation the impact of code-focused intervention on word decoding in preschool children

Public title

Impact of code-focused intervention on later literacy skills

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : 1. Normal children that aged from 6 to 7 years. 2. Certified preschool screening. 3. Just exposed to one language (Farsi), and are not bilingual. The criteria were selected in case of non-fulfillment of any of the participants, he will be immediately excluded from the study, as follows: 1. History of epilepsy, seizures and brain damage. 2. Psychiatric disorders (such as autism and who have been diagnosed by a psychiatrist) and mental disability Exclusion criteria was to study, as follows: 1. Lack of cooperation in the assessment and intervention 2. Unwillingness of parents to continue working 3. Absence of more than five consecutive

sessions

Age
From **5 years** old to **6 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **62**

Randomization (investigator's opinion)
Randomized

Randomization description

Blinding (investigator's opinion)
Double 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 Ethics Committe

Street address
Iran University of Medical Sciences, Hemmat highway

City
Tehran

Postal code

Approval date
2016-06-08, 1395/03/19

Ethics committee reference number
IR.IUMS.REC 1395.9411360004

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
word decoding

Timepoint
before intervention, after intervention

Method of measurement
researcher made task

2

Description
alphabetic knowledge learning

Timepoint
before intervention, after intervention

Method of measurement
letter- phoneme correspondence test (soleimani) from reading diagnostic test

3

Description
phonological awareness

Timepoint
before intervention, after intervention

Method of measurement
phonological awareness test (dastjerdi)

4

Description
rapid automatized naming

Timepoint
before intervention, after intervention

Method of measurement
RAN test (soleimani)

Secondary outcomes

empty

Intervention groups

1

Description
intervention group: 5 week education on phonogical awareness and alphabetic knowledge (12 letter). for 30 session . every session : 45 minutes. this group like control, recieve daily education of first month of school. Subjects were divided in groups of 4 to 6 and educated by 4 teachers with experience of more than 5 years of first-class teaching. Phonological awareness training program: A. familiar with words exercises: 1 session. Recognize words in sentences, spoken word, poetry and stories. B. Syllabic exercises: 1 session. Finding meaningful syllables in words, the presence or absence of a syllable in words, etc. C. Within the syllabic exercises: 4 session. Find rhyme and alliteration words(auditory) D. Exercise is to identify and remove syllables: 4 session. Delete the first and last syllables E. phonemic training: 16 sessions. The combination of phonological and syllabic words, identify phonemes in the first and last part of word, remove the phonemes in the first and last part of word, etc. in alphabetic knowledge program 12 letter were teached. (letter sound correspondence + Find the letters in the word, spelling

characters, combining characters, etc.)

Category

Prevention

2

Description

control group: they dont recieve any intervention by researchers. but participate in daily school program for 4 week in first month on educational year.

Category

Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center

Hale school

Full name of responsible person

Ms. Haghtalab

Street address

Hashemie avenue.

City

Mashhad

2

Recruitment center

Name of recruitment center

Mafakher school.

Full name of responsible person

Mr. Razavi

Street address

City

Mashhad

3

Recruitment center

Name of recruitment center

Farhang Andishe school

Full name of responsible person

Mr. Hosienian

Street address

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Deputy of research and technology, Iran University of Medical Sciences

Full name of responsible person

Dr. Seyyed Ali Javad Musavi

Street address

Iran University of Medical Sciences, 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

Deputy of research and technology, Iran University of Medical Sciences

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

Iran University of Medical Sciences

Full name of responsible person

Mr Mahdi Khodadoust

Position

Master of science/ researcher

Other areas of specialty/work

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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