

Clinical Trial Protocol

Iranian Registry of Clinical Trials

17 Sep 2026

Evaluation of the effectiveness of educational programs for modulating cognitive bias and mental imagery on verbal and visual memory of girls.

Protocol summary

Study aim

Evaluation of the effectiveness and comparison of two educational methods (modulation of cognitive bias and mental imagery) on students' visual and verbal memory and explanation of a learning model.

Design

This study will have a control group with parallel randomized one-way blind groups (by rand function) that will be designed and performed on 45 first period high school students in Yazd.

Settings and conduct

In this study, 4 schools will be selected by cluster sampling method from the first period high schools in Yazd . will be applied one-blind blindness (students). The place of research for schools is the place where students study .

Participants/Inclusion and exclusion criteria

The study sample will be selected from the first period high school girls in Yazd who are over 15 years old and are studying in one of the first period high schools in Yazd in the academic year 1399-1400.

Intervention groups

The study is an experimental type with pre-test and post-test design and control group. The subjects will be randomly replaced in two experimental groups (cognitive bias modification and mental imagery) and one control group. The experimental groups will be exposed to different trainings in 8 sessions, while the control group will remain without any intervention.

Main outcome variables

In this study, students will be exposed to two new learning methods (mental imagery and modulation of cognitive bias) that will strengthen and enhance the function of visual memory and verbal memory and enhance learning and increase their educational and laboratory efficiency.

General information

Reason for update

Acronym

-

IRCT registration information

IRCT registration number: **IRCT20191230045946N1**

Registration date: **2020-08-20, 1399/05/30**

Registration timing: **prospective**

Last update: **2020-08-20, 1399/05/30**

Update count: **0**

Registration date

2020-08-20, 1399/05/30

Registrant information

Name

Maryam Ashabsohof

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 35 3622 7083

Email address

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Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2020-09-22, 1399/07/01

Expected recruitment end date

2021-05-20, 1400/02/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Evaluation of the effectiveness of educational programs for modulating cognitive bias and mental imagery on verbal and visual memory of girls.

Public title

Evaluation of the effectiveness of educational programs for modulating cognitive bias and mental imagery on verbal and visual memory of girls and explaining the learning model.

Purpose

Education/Guidance

Inclusion/Exclusion criteria

Inclusion criteria:

All high school students (first the period) in Yazd

Exclusion criteria:

-

Age

From **15 years** old to **16 years** old

Gender

Female

Phase

N/A

Groups that have been masked

- Participant

Sample size

Target sample size: **45**

Randomization (investigator's opinion)

Not randomized

Randomization description

Blinding (investigator's opinion)

Single blinded

Blinding description

participants

Placebo

Not used

Assignment

Parallel

Other design features

-

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of Islamic Azad University, Kerman Branch

Street address

Office Building No. 4; Islamic Azad University;Valiasr Blvd., Kerman

City

Kerman

Province

Kerman

Postal code

7635131167

Approval date

2020-07-08, 1399/04/18

Ethics committee reference number

IRIAUKERMANREC.1399.004

Health conditions studied

1

Description of health condition studied

Teaching learning methods

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

Verbal and visual memory score on Wechsler memory test

Timepoint

One academic year

Method of measurement

Wechsler Memory Test Form A.

Secondary outcomes

empty

Intervention groups

1

Description

The first intervention group will be called the cognitive bias adjustment training group. This group includes 15 students from a school in Yazd (Mohammad Rasoolullah High School) which was selected by random selection. This research will be designed and implemented with a pre-test-post-test design. In order to measure students' visual and verbal memory and receive pre-test information from the subjects, will be performed Wechsler memory test (Form A).Then Subjects will be exposed to 8 sessions of training on how to moderate cognitive bias with the help of incomplete Matthew and Macintosh scenarios. At the end of the training, in order to receive the post-test results, the subjects will be tested for Wechsler Memory Test (Form A) again , and at the end, the pre-test and post-test results data will be analyzed using descriptive and inferential statistics.

Category

Other

2

Description

The second intervention group will be called the mental Imagery training group. This group includes 15 students from a school in Yazd (Shahid Dehghan High School) who have been selected by random selection.

This research will be designed and implemented with a pre-test-post-test design. In order to measure students' visual and verbal memory and receive pre-test information from the subjects, will be performed Wechsler memory test (Form A) . Subjects will then be exposed to 8 sessions of training on how to Mental Imagery with the help of Simonten-guided oral imaging. At the end of the training, in order to receive the post-test results, the subjects were tested for Wexlerm memory(Form A) egane and at the end, the data of the pre-test and post-test results will be analyzed using descriptive and inferential statistics.

Category

Other

3

Description

The third intervention group will be called the cognitive bias modification and mental imagery training group. This group includes 15 students from a school in Yazd (Shahid Pakenjad High School) who have been selected by random selection. This research will be designed and implemented with a pre-test-post-test design. In order to measure students' visual and verbal memory and receive pre-test information from the subjects, will be performed Wechsler memory test (Form A) . Subjects will then be trained in 8 sessions to learn how to moderate cognitive bias with the help of incomplete Matthew and Macintosh scenarios and Simonten-guided mental imagery training. At the end of the training, in order to receive the post-test results, the subjects were tested for The Wechsler memory test (Form A) egane, and at the end, the data of the pre-test and post-test results will be analyzed using descriptive and inferential statistics.

Category

Other

4

Description

Control group: This group includes 15 students from a school in Yazd (science high school) that was randomly selected. This research will be designed and implemented with a pre-test-post-test design. In order to measure students' visual and verbal memory and receive pre-test information from the subjects, will be performed Wechsler memory test (Form A) .The subjects will be remained without any intervention. At the end of the training of the experimental groups, in order to receive the post-test results, the subjects will be tested for The Wechsler memory test(Form A) egane, and at the end of the pre-test and post-test results data will be analyzed using descriptive and inferential statistics.

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

Yazd schools

Full name of responsible person

Ashab Sohof Maryam

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Unit 20, Naft Residential Complex 1, Basij Boulevard, Madan Markar, Yazd

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Islamic Azad University

Full name of responsible person

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Grant name

Grant code / Reference number

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

Yes

Title of funding source

Islamic Azad University

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

Islamic Azad University
Full name of responsible person
 Ashab Sohof Maryam
Position
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Latest degree
 Master
Other areas of specialty/work
 Psychology
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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

All study data can be shared without mentioning the names of the participants

When the data will become available and for how long

From the year 2021

To whom data/document is available

All researchers, consultants, teachers and students

Under which criteria data/document could be used

Get the research result

From where data/document is obtainable

ashabsohof@yahoo.com

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

3- 2 months

Comments