

Clinical Trial Protocol

Iranian Registry of Clinical Trials

10 Jun 2026

The effects of color and shape images on behavioral problems in children 4 to 5 years old

Protocol summary

Summary

Objective: this study will be done to investigate the effects of color and shape images on behavioral problems in children 4 to 5 years. Design: the method of this study will be semi experimental a type of plan pretest and posttest with 4 experimental groups. Setting and conduct: effects of warm colors/curved shapes, cold colors/curved shapes, cold colors/angled shapes, and warm colors/angled forms as independent variable will be measured on behavioral problems in children 4 to 5 years old. Participants: statistical sample will be consisted of 40 girls and boys who will be selected by cluster sampling from four kindergartens of Mashhad city and then each kindergarten will be assigned randomly to an experimental group. Participants' inclusion criteria will be included age of 4 to 5 years and regular attendance at kindergarten and the exclusion criteria will be included having serious deficits of motor-sensory and having psychiatric diagnoses. Intervention: for intervention 4 groups of images will be formed that will be consisted warm colors/curved shapes, cold colors/curved shapes, cold colors/angled shapes, and warm colors/angled shapes. Then the related images in each group will be presented in 8 sessions. During the sessions the children will be tried to copy and paint the images. Main outcome measure variables: for measuring dependent variable, behavioral problems, in pretest and posttest phases will be used teachers form of Children's behavior questionnaire including aggression, anxiety, conflict, antisocial behavior and attention deficit.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2017050733854N1**

Registration date: **2017-07-02, 1396/04/11**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2017-07-02, 1396/04/11

Registrant information

Name

Malahat Amani

Name of organization / entity

University of Bojnord

Country

Iran (Islamic Republic of)

Phone

+98 914 358 0277

Email address

m.amani@ub.ac.ir

Recruitment status

Recruitment complete

Funding source

I did not receive financial support from any place

Expected recruitment start date

2017-05-22, 1396/03/01

Expected recruitment end date

2017-05-31, 1396/03/10

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effects of color and shape images on behavioral problems in children 4 to 5 years old

Public title

The effects images on children

Purpose

Prevention

Inclusion/Exclusion criteria

inclusion criteria: age of 4 to 5 years; regular attendance at kindergarten and the exclusion criteria: having serious deficits of motor- sensory; having psychiatric diagnoses.

Age

From **4 years** old to **5 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size

Target sample size: **40**

Randomization (investigator's opinion)

Randomized

Randomization description

Blinding (investigator's opinion)

Not blinded

Blinding description

Placebo

Not used

Assignment

Other

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Ethics Committee of the University of Bojnord

Street address

University of Bojnord, 4 km road Esfarāyen, Bojnord

City

Bojnord

Postal code

9453155111

Approval date

2016-09-16, 1395/06/26

Ethics committee reference number

1221/350/95

Health conditions studied

1

Description of health condition studied

behavioral problems

ICD-10 code

ICD-10 code description

Primary outcomes

1

Description

behavioral problems that include aggression, anxiety, conflict, antisocial behavior and attention deficit

Timepoint

posttest

Method of measurement

Rutter Children's behavior questionnaire

Secondary outcomes

empty

Intervention groups

1

Description

group1: presentation of images with warm colors/curved shapes

Category

Other

2

Description

group2: presentation of images with cold colors/curved shapes

Category

Other

3

Description

group3: presentation of images with cold colors/angled shapes

Category

Other

4

Description

group4: presentation of images with warm colors/angled shapes

Category

Other

Recruitment centers

1

Recruitment center

Name of recruitment center

kindergartens

Full name of responsible person

Street address

City

Mashhad

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Malahat Amani
Full name of responsible person
Malahat Amani
Street address
University of Bojnord, 4 km road Esfarāyen, Bojnord
City
Bojnord
Grant name
Grant code / Reference number
Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Malahat Amani
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
University of Bojnord
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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