

Clinical Trial Protocol

Iranian Registry of Clinical Trials

27 Jun 2026

The effectiveness of using visual pedagogy in dental check up and preventive dentistry for children with autism compare with autistic children without education

Protocol summary

Summary

The purpose of this study was to evaluate the effect of the visual pedagogy method on the level of cooperation of the autistic children in dental checkups and preventive dentistry treatments. In this randomized clinical trial, the level of cooperation of 40 autistic children, aged 6 to 12 years evaluated for four purposes (Entering the dental surgery room and sitting in the dental chair, opening the mouth and showing the teeth, examination with mirror and fluoride therapy). The children recruited from Yavaran Zeinab autism center in Isfahan. Those were included in this study that did not have any systemic disease or motor disability except autism disorder. The selected children have been divided in two groups of twenty person of test and control group. Only the test group was trained by trainers. The test group has been educated using visual pedagogy method to learn about dental visit in two months. The findings shows that the repetition of dental visits has increased the amount of cooperation in (Entering the dental surgery and sitting in the dental chair, opening the mouth and showing the teeth, examining with mirror) and it can be claimed that the visual pedagogy method had no effect in the amount of cooperation in 3 purposes (Entering the dental surgery and sitting in the dental chair, opening the mouth and showing the teeth and examining with mirror), but the visual pedagogy method in fluoride therapy has been significantly effective in test group.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT2014102519665N1**

Registration date: **2014-12-14, 1393/09/23**

Registration timing: **retrospective**

Last update:

Update count: **0**

Registration date

2014-12-14, 1393/09/23

Registrant information

Name

Firooze Nilchian

Name of organization / entity

Medical univercity of esfahn

Country

Iran (Islamic Republic of)

Phone

+98 31 3792 2894

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Recruitment status

Recruitment complete

Funding source

Esfahan University of Medical Sciences

Expected recruitment start date

2014-05-22, 1393/03/01

Expected recruitment end date

2014-07-23, 1393/05/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effectiveness of using visual pedagogy in dental check up and preventive dentistry for children with autism compare with autistic children without education

Public title

The effectiveness of using visual pedagogy in dental

check up and preventive dentistry for children with autism compare with autistic children without education

Purpose

Prevention

Inclusion/Exclusion criteria

Inclusion criteria : Aged 6 to 12; Certified psychiatrist about autism; Ability to communicate through speech.

Exclusion criteria : No motor disability and Systemic disorder.

Age

From **6 years** old to **12 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)

Double blinded

Blinding description

Placebo

Not used

Assignment

Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee

Esfahan University of Medical Sciences

Street address

Hezar jarib Avenue, Dental School, Esfahan University of Medical Sciences, Esfahan, Iran

City

Esfahan

Postal code

8174673461

Approval date

2014-05-09, 1393/02/19

Ethics committee reference number

393410

Health conditions studied

1

Description of health condition studied

Autism

ICD-10 code

F84.0

ICD-10 code description

Childhood autism

Primary outcomes

1

Description

Cooperation level

Timepoint

Two week

Method of measurement

Frankle Index

Secondary outcomes

1

Description

Education

Timepoint

Three times a week

Method of measurement

Obzervation

Intervention groups

1

Description

Intervention group: Education with visual pedagogy for dental visit for two month (three times a week).

Examined with dentist for twice a week in during Education.

Category

Prevention

2

Description

Control group: Examined by dentist for twice a week without Education.

Category

Treatment - Drugs

Recruitment centers

1

Recruitment center

Name of recruitment center

Yavaran zeinab charity center of autism in Esfahan

Full name of responsible person

Street address

NO. 12, Emam khomeiny Ave, Esfahan, Iran

City

Esfahan

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Research center of dental school

Full name of responsible person

Dr Omid Savabi

Street address

Hezar jarib Avenue, Dental School, Esfahan University of Medical Sciences, Esfahan, Iran

City

Esfahan

Grant name**Grant code / Reference number****Is the source of funding the same sponsor organization/entity?**

Yes

Title of funding source

Research center of dental school

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**

Research centre

Full name of responsible person

Dr Omid Savabi

Position

Professore of research of Dntal school

Other areas of specialty/work**Street address**

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Person responsible for scientific inquiries

Contact**Name of organization / entity**

Esfahan dental school

Full name of responsible person

Dr Firoozeh Nilchian

Position

Assisstante Professor

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Person responsible for updating data

Contact**Name of organization / entity****Full name of responsible person**

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Web page address

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