

Clinical Trial Protocol

Iranian Registry of Clinical Trials

16 Sep 2026

The effect of emotional face identification training in children with autism on mother-child relationship and parental competence in centers of autism affiliated to Hamadan University of Medical Sciences, 2019

Protocol summary

Study aim

Determine The effect of emotional face identification training in children with autism on mother-child relationship and parental competence

Design

Clinical trial with two groups of control and intervention with parallel, double blind, randomized groups

Settings and conduct

Autism centers affiliated to Hamedan University of Medical Sciences in Hamedan and Malayer

Participants/Inclusion and exclusion criteria

All children with autism will be trained and cared for in autism centers affiliated to Hamedan University of Medical Sciences

Intervention groups

It will be used To train 40 different images related to 4 positions of happiness, sadness, anger and fear (From each mode, 10 images) and The child should, with the help of the researcher and the mother, select the right emotional state appropriate to the target's face. Images are displayed individually and from the front view to the child and Without any explanation, the child is asked to select any image appropriate to the target's face. Every time they recognize a picture correctly, they will be encouraged by the mother and the researcher, and the next image will be shown. But in the event of a wrong answer, the researcher or the mother reminds you to "try again" and an indirect reference to the correct answer And if the wrong answer is repeated, direct reference is given to the correct answer And this process will be repeated until the participant gives the correct answer. In each session, four pictures (one image of each emotional state) are taught to the child. The control group will receive routine training in autism centers affiliated to Hamadan University of Medical Sciences.

Main outcome variables

emotional face identification training: mother-child

relationship: parental competence

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20190703044082N1**

Registration date: **2019-09-27, 1398/07/05**

Registration timing: **registered_while_recruiting**

Last update: **2019-09-27, 1398/07/05**

Update count: **0**

Registration date

2019-09-27, 1398/07/05

Registrant information

Name

Fateme Mohammadi

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 81 4567 8904

Email address

f-mohammadi@umsha.ac.ir

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2019-08-23, 1398/06/01

Expected recruitment end date

2019-10-23, 1398/08/01

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

The effect of emotional face identification training in children with autism on mother-child relationship and parental competence in centers of autism affiliated to Hamadan University of Medical Sciences, 2019

Public title

Emotional face identification in children with autism

Purpose

Education/Guidance

Inclusion/Exclusion criteria**Inclusion criteria:**

Based on the DSM-IV Manual of Psychiatric Disorders, according to a psychiatrist's assessment of a child and adolescent child with moderate performance autism In the pediatric medical records, they received 22 scores from the instructor or 19 scores from the mother based on the Autism Scale questionnaire Has the ability to understand and practice experimental exercises Lack of mental retardation or other known physical, cognitive, evolutionary-disease Lack of visual impairment Their parents are satisfied with the child's participation in the study Their mothers are able to participate in the child's education and participate in the study

Exclusion criteria:

Absence of children in three sessions or more during training

Age

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

Gender

Both

Phase

N/A

Groups that have been masked

- Outcome assessor
- Data analyser

Sample size

Target sample size: **50**

Randomization (investigator's opinion)

Randomized

Randomization description

The names of the two groups are written on paper and randomly selected, and the order of group sampling will be specified. For random allocation of samples in the control and intervention groups, 6 blocks of 4 blocks will be used as random block assignment. Thus, the letter A for the intervention group and the letter B for the control group will be considered. On pieces of paper, write the blocks below and put them in a pocket and randomly draw the dice. Then, according to the probable order of sampling, the sampling will begin as AABB, BBAA, ABBA, BAAB, ABAB, BABA. Depending on the order of the blocks, the patients will be assigned to the intervention and control group. Next blocks will be selected with the same dice. For the first time, 6 times the dice and the following numbers will be taken as a chance example. 514362 → ABAB AABB BAAB ABBA BABA BBAA. After selecting these children, they will be redone again and

children with moderate performance autism will be selected.

Blinding (investigator's opinion)

Double blinded

Blinding description

The person completing the questionnaire will be directed towards the allocation of individuals in which intervention group and blindfold control. In addition, the person who will analyze the data will be blinded to the allocation of people in the groups

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Research Ethics Committee of Hamedan University of Medical Sciences

Street address

Beginning of Khajeh Rashid Boulevard Hamadan University of Medical Sciences

City

Hamedan

Province

Hamadan

Postal code

6517838698

Approval date

2019-07-21, 1398/04/30

Ethics committee reference number

IR.UMSHA.REC.1398.330

Health conditions studied**1****Description of health condition studied**

Autism

ICD-10 code

f84

ICD-10 code description

Childhood autism

Primary outcomes**1****Description**

Maternal-child relationships with autism 6-12 years in Ross questionnaire

Timepoint

1 day before training and 1 and 7 days after training

Method of measurement

Ross questionnaire

2

Description

Parental Competence in Parents of Autistic Children in (PCS)questionnaire

Timepoint

1 day before training and 1 and 7 days after training

Method of measurement

(PCS)questionnaire

3

Description

Emotional face identification in children with autism

Timepoint

1 day before training and 1 and 7 days after training

Method of measurement

Modified Benton Face Recognition Scale

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group:In this method, the children will be trained by the researcher with the mother in 10 sessions of 30 to 60 minutes.It will be used To train 40 different images related to 4 positions of happiness, sadness, anger and fear (From each mode, 10 images) and The child should, with the help of the researcher and the mother, select the right emotional state appropriate to the target's face.All faces are a picture of a boy in size A5 and colorful.Images are displayed individually and from the front view to the child and Without any explanation, the child is asked to select any image appropriate to the target's face. Every time they recognize a picture correctly, they will be encouraged by the mother and the researcher, and the next image will be shown. But in the event of a wrong answer, the researcher or the mother reminds you to "try again" and an indirect reference to the correct answer And if the wrong answer is repeated, direct reference is given to the correct answer And this process will be repeated until the participant gives the correct answer.In each session, four pictures (one image of each emotional state) are taught to the child. The mother is present with the researcher and learns how to train. Whenever a mother expresses her willingness to educate the child, the researcher assigns one or more of the images to her And supervises the child's education by the mother so that the training is done correctly. In this case, the researcher will express it if it is necessary to provide a point. At the end of each training session, if the mothers have ambiguity and questions about the trained images in each session, the researcher will respond to them.

Category

Behavior

2

Description

Control group: . The control group will receive routine training in autism centers affiliated to Hamadan University of Medical Sciences.

Category

Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center

Autism Centers affiliated to Hamadan University of Medical Sciences

Full name of responsible person

Fatemeh Mirzaie

Street address

unit 10, Mahyar Complex, SHahid Beyralvand Ave, SHahid Modares Blvd, Nabovat Squ

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Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Hamedan University of Medical Sciences

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

Hamedan University of Medical 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**

Hamedan University of Medical Sciences

Full name of responsible person

Fatemeh Mohammadi

Position

Assistant Professor

Latest degree

Ph.D.

Other areas of specialty/work

Nursery

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Full name of responsible person

Fatemeh Mohammadi

Position

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Person responsible for updating data**Contact****Name of organization / entity**

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Sharing plan**Deidentified Individual Participant Data Set (IPD)**

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

Study Protocol

Yes - There is a plan to make this available

Statistical Analysis Plan

Undecided - It is not yet known if there will be 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

Not applicable

Data Dictionary

Not applicable

Title and more details about the data/document

How to do the study is shared

When the data will become available and for how long

After publishing the article

To whom data/document is available

researchers

Under which criteria data/document could be used

If the effect of emotional portraiture training on children with family-based autism based education on the

promotion of maternal-child relationships and parental competence is favorable, this method can be suggested as routine care and training to enhance behavioral interactions in this store.

From where data/document is obtainable

Magazine mailing address

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

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Comments