Clinical Trial Protocol
Iranian Registry of Clinical Trials

13 Nov 2026

Efficacy of using ball playing in movement skills and coping behaviors in children with autism

Protocol summary

Summary

The purpose of this interventional non-randomized, pretest-posttest trial is to investigate the efficacy of using ball playing in movement skills and coping behaviors in 20 children with autism spectrum disorders aged between 5 and 7, who are involved in no co-morbidity or secondary disorders. At first, Vaynlnd Adaptive behavior scale and Peabody Developmental Motor Scales are performed as pretests, then interventional phase are started and children receive ball playing skills for 5 weeks; finally Vaynlnd Adaptive behavior scale and Peabody Developmental Motor Scales are performed again as posttests and the differences between pretests-posttests scores are compared with each other.

General information

Acronym

IRCT registration information

IRCT registration number: **IRCT201109037462N1**
Registration date: **2011-10-08, 1390/07/16**
Registration timing: **prospective**

Last update:
Update count: **0**

Registration date

2011-10-08, 1390/07/16

Registrant information

Name
Mohammad Reza Mohammadi
Name of organization / entity
Tehran University of Medical Sciences
Country
Iran (Islamic Republic of)
Phone
+98 21 5541 3540
Email address
pprc@sina.tums.ac.ir

Recruitment status

Recruitment complete

Funding source

Tehran University of Medical Sciences

Expected recruitment start date

2011-11-21, 1390/08/30

Expected recruitment end date

2012-02-19, 1390/11/30

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Efficacy of using ball playing in movement skills and coping behaviors in children with autism

Public title

Efficacy of using ball playing in movement skills and coping behaviors in children with autism

Purpose

Treatment

Inclusion/Exclusion criteria

Inclusion criteria: age 5-7 years old, Autism Spectrum Disorder diagnosis by child and adolescent psychiatrist according to DSM-IV Exclusion criteria: epilepsy, cerebral palsy, brain damage, metabolism disorders and other secondary disorders

Age

From **5 years** old to **7 years** old

Gender

Both

Phase

N/A

Groups that have been masked

No information

Sample size
Target sample size: **20**

Randomization (investigator's opinion)
Not randomized

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Parallel

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Tehran University of Medical Sciences

Street address
Qods street, Keshavarz Blvd, Tehran

City
Tehran

Postal code

Approval date
2011-09-10, 1390/06/19

Ethics committee reference number
1172,130,90,ص

Health conditions studied

1

Description of health condition studied
Autism Spectrum Disorder

ICD-10 code
F84.0

ICD-10 code description
Childhood autism

Primary outcomes

1

Description
Socialization

Timepoint
Baseline, 5 weeks after intervention

Method of measurement
Vaynlnd Adaptive behavior scale

2

Description
communication

Timepoint
Baseline, 5 weeks after intervention

Method of measurement
Vaynlnd Adaptive behavior scale

3

Description
activities of daily living

Timepoint
Baseline, 5 weeks after intervention

Method of measurement
Vaynlnd Adaptive behavior scale

Secondary outcomes

1

Description
Gross Motor skills

Timepoint
Baseline, 5 weeks after intervention

Method of measurement
Peabody Developmental Motor Scales, Second Edition: PDMS-2

2

Description
fine Motor skills

Timepoint
Baseline, 5 weeks after intervention

Method of measurement
Peabody Developmental Motor Scales, Second Edition: PDMS-2

Intervention groups

1

Description
firstly, current treatments, without performing interventional phase are administered during 5 weeks. in this stage current treatments such as Speech Therapy, occupational therapy, Lovaas approach are performed, then Peabody,Vineland and questionnaire for evaluation of treatment of autism as pretests are administered.

Category
Treatment - Other

2

Description
using ball playing are performed for 5 weeks. in this interventional stage, children pass 10 therapeutic sessions 2 times per week during 5 weeks. 4 types of ball with different features are used and different ball playing skills such as: catching, throwing, striking by hands and feet or striking by device to ball are administered per session. practices are arranged from easy to hard and firstly, therapist interprets the performing format of practice viva voce and then performs it practically. after

that, she helps children to perform Movement patterns correctly until they will be able to perform practices independently. practice performing with at least one of the essential balls is the basis of ball playing skills instruction; when children can perform the practice with one ball, other essential balls will be used to increase skills in that practice. at the end of fifth week, Peabody, Vineland tests and questionnaire for evaluation of treatment of autism as posttests are administered.

Category
Rehabilitation

Recruitment centers

1

Recruitment center

Name of recruitment center
Psychiatry and Psychology Research Center, Roozbeh Hospital

Full name of responsible person

Street address

City
Tehran

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Tehran University of Medical Sciences

Full name of responsible person
Farnoosh Golband

Street address
Qods street, Keshavarz Blvd, Tehran

City
Tehran

Grant name

Grant code / Reference number
11572

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

Title of funding source
Tehran 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
Tehran University of Medical Sciences, Psychiatry research center

Full name of responsible person
Mohammad Reza Mohammadi

Position
MD/Head of Psychiatry research center

Other areas of specialty/work

Street address
Psychiatry and Psychology Research Center, Roozbeh Hospital, South Kargar Avenue, after the Lashkar crossroads, Tehran, IRAN

City
Tehran

Postal code

Phone
+98 21 5541 3540

Fax

Email
mohammadimr@tums.ac.ir

Web page address
www.pprc.tums.ac.ir

Person responsible for scientific inquiries

Contact

Name of organization / entity
Psychiatry and Psychology Research Center, Tehran University of Medical Sciences

Full name of responsible person
Mohammad Reza Mohammadi

Position
MD

Other areas of specialty/work

Street address
Psychiatry and Psychology Research Center, Roozbeh Hospital, South Kargar Avenue, after the Lashkar crossroads, Tehran, IRAN.

City
Tehran

Postal code

Phone
+98 21 5541 3540

Fax

Email
mohammadimr@tums.ac.ir

Web page address
www.pprc.tums.ac.ir

Person responsible for updating data

Contact

Name of organization / entity
Psychiatry and Psychology Research Center

Full name of responsible person
Maryam Salmanian

Position
MS/Researcher

Other areas of specialty/work

Street address

City

Postal code

Phone
+98 21 5541 3540
Fax
Email
marysal1981@gmail.com
Web page address
www.pprc.tums.ac.ir

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