

Journal of Social Sciences, Literature and Languages

Journal of Social Sciences, Literature and Languages

Available online at jssll.blue-ap.org ©2023 JSSLL Journal. Vol. 6(1), pp. 1-6, 23 March 2023

The study of psychological helplessness in mothers with a child with autism spectrum disorder and the effectiveness of humor skills training on it.

Farangis Alipour

Department of Psychology, Ardabil Branch, Islamic Azad University, Ardabil, Iran

Corresponding Author: Farangis Alipour

ABSTRACT

The aim of this study was to investigate the effectiveness of humor skills training on psychological helplessness of mothers with children with autism spectrum disorder. According to the objectives and hypotheses, the present study method is a semi-experimental type (pre-test-post-test design with control group). The statistical population of this study included all mothers of children with autism spectrum disorder who referred to autistic pediatric clinics in the first half of 2020 in Ardabil. Among mothers of children with autism, 40 mothers were selected by available method and randomly assigned to two groups of 20 patients and at least 15 samples were suggested in experimental research. The data collection tool in this study is a questionnaire that standard questionnaires of learned helplessness have been used. Statistical indicators used include calculation of frequency, mean and standard deviation. Multivariate analysis of variance (MANOVA) was used to test the research hypotheses. Data analysis was performed using SPSS statistical software, 18th edition. The results showed that the learned helplessness of mothers of children with autism spectrum in the experimental and control group, so that the learned helplessness of mothers who received humor skills is less.

Keywords: Teaching humor skills, psychological helplessness, and autism spectrum disorder.

©2023 JSSLL Journal All rights reserved.

INTRODUCTION

Autism spectrum disorder (ASD) as a neurodevelopmental disorder is a disorder whose diagnostic criteria have occurred based on the fifth diagnostic and statistical manual of mental disorders (DSM-5) as a continuous impairment of communication and social interactions in different situations and patterns of interests, behavior and repetitive activities limited in the present or past and at the beginning of development (American Psychiatric Association, 2013).

Autism Spectrum Disorders Information Center considers the symptoms of this spectrum to be defects in verbal and nonverbal communication, eye contact abnormalities, and inability to participate in imaginative games, sensory processing problems, intense and unusual attachment to objects, repetitive games, repetitive and stereotypical movements, and inflexible adherence to everyday habits, destruction of emotional and social bilateral relationships and self-harm (Murphy, 2017).

Behavioral problems are not the main feature of autism spectrum disorders, but these problems are significantly seen in these children and create problems for these individuals and their families (American Psychiatric Association, 2013). Therefore, paying attention to the mental health of parents of autistic children, especially their mothers as primary caregivers, is one of the most important issues in this group of children.

In other words, spending time with a child with pervasive developmental disorders causes anxiety and stress in family members, challenges the family system, damages the health and balance of the family (Fallahzadeh, Nouri, Pourebrahim and Nazarboland, 2018).

Based on the findings of this study, it can be concluded that the forgiveness (directly and indirectly) can predict changes related to hope in people. According to the above, the aim of this study was to find out the effectiveness of humor skills training on psychological helplessness of mothers with children with autism spectrum disorder.

Research methodology and type of research plan:

Materials and Methods: According to the objectives and hypotheses, the present study method is a semi-experimental type (pre-test and post-test design with control group).

Random assignment	group	pre-test	intervention	post-test
R	Teaching humor skills	*	*	*
R	control	*	_	*

Statistical population:

The statistical population of this study included all mothers of children with autism spectrum disorder who referred to pediatric clinics referred to autism clinics in the first half of 2020 in Ardabil.

Sampling method and sample size:

Among mothers of children with autism, 40 mothers were selected by available method and randomly assigned to two groups of 20 patients, and in experimental research, at least 15 samples were suggested (Delawar, 2006).

Data collection method:

Data collection in this study was that after obtaining the necessary permissions and coordination, the treatment clinics of autistic children in Ardabil were referred. Then, by inviting mothers of these children and explaining the research objectives to them, through implementing learned helplessness questionnaires, 40 people of them were selected and replaced in experimental and control groups.

Then, the experimental group received humor skills training (for 8 sessions, each session for 90 minutes) and the control group remained without any intervention and finally both groups completed the questionnaire again and the questionnaires were collected and the information was analyzed by SPSS software.

Due to the coronavirus outbreak and observance of health protocols in the executive of the study, we encountered problems that individual interventions were performed and finally the cooperation of parents of these children solved these problems.

Data analysis method:

Data analysis was performed in descriptive and inferential sections. Descriptive indices such as mean, standard deviation and frequency and percentage tables were used in descriptive section. Then, multivariate analysis of variance (MANOVA) was used to test the research hypotheses. Data analysis was performed using SPSS statistical software, 18th edition.

Table 1. summarizes the implementation of a treatment program based on teaching specific skills of humor, practicing jokes, benefits and different types of humor, harmful humor, cognitive restructuring, facing resistances, encouraging the advancement of humor, and direct guidance on how to use it, how to use humor in the environment and times of crisis and stresses of life

Meeting	Meeting Description
Row	
First	Training about treatment based on humor skills and its goals.
session	Familiarity and education about psychological hardiness and learned helplessness
	Discussion of strategies for this treatment
	Providing homework and attracting parental cooperation
Second	Check the reaction to the previous meeting and the task of the previous session
session	Investigating the specific control strategies that a person has used so far
	Assessing the costs and damages that these strategies have had on one's life.
	Investigating the benefits of these strategies
	Strengthening the relationship between parents and children
Third	Check the reaction to the previous meeting and the task of the previous session
session	Teaching important things like (teaching specific humor skills, practicing jokes, benefits and different types of humor,
	harmful humor, cognitive restructuring, facing resistance, encouraging the advancement of humor, and direct guidance on
	how to use it, how to use humor in a living environment and in times of crisis and stresses of life)
	Strengthening and evaluating humor skills
Fourth	Check the reaction to the previous session and the task of the previous session.
session	Strengthening and evaluating humor skills

Fifth	Check the reaction to the previous meeting and the task of the previous session
session	Strengthening communication skills in the form of group therapy
	Self-viewer - Home assignment
Sixth	Check the reaction to the previous session and the task of the previous session.
session	Strengthening and evaluating important humor skills objectively and visually
7th and 8th	Check the reaction to the previous meeting and the task of the previous session
session	Strengthen and evaluate humor skills and exercises.
	Strengthen your humor skills

Results

Demographic characteristics:

Table 2. Mean and standard deviation of age of mothers of children with autism spectrum disorder in the studied groups

Variable	Group	Mean	Standard Deviation
Age	Experimental	33.65	12.03
	Control	37.11	13.65

As can be seen in Table 2, the mean age of mothers in the experimental group is 33.65 and in the control group is 37.11.

Table 3. Education status of mothers with children with autism spectrum of	disorder in the studied groups.

Group		Education							
		Under Diploma	Diploma	Associate Diploma	Bachelor	Master	Total		
Experimental	F	5	20	4	9	2	40		
	Percent	12.5	0.50	20	22.5	0.5	100		
Control	F	4	15	7	11	3	40		
	Percent	20	37.5	20	22.5	7.5	100		

As can be seen in Table 3, in the experimental group, 0.50 respondents with the majority of diploma education and in the control group 37.5 also have a diploma.

Descriptive finding:

Table 4. Descriptive statistics of helplessness learned in mothers of children with autism spectrum disorder in the studied

gro	Sups.		
Group	Time	Mean	Standard Deviation
Experimental	pre-test	61.37	16.30
	post-test	45.06	11.36
control	pre-test	59.38	15.38
	post-test	63.11	17.08
	Group Experimental	Experimental pre-test post-test portest control pre-test	Group Time Mean Experimental pre-test 61.37 post-test 45.06

As can be seen in Table 4, the mean and standard deviation of helplessness learned in mothers of children with autism spectrum disorder are expressed in the post-test stage of the control group and the post-test of the experimental group. Inferential finding:

Main hypothesis: Teaching humor skills affects the helplessness of mothers of children with autism spectrum.

Table 5. Levine test results to determine the parity of variances.

F	df1	df2	Significance level
0.745	1	38	0.994
0.551	1	38	0.462

According to the results of table (5), the significant level of error of variance parity test (p>0.05) shows that the variances are equal.

Table 6. Box test to investigate homogeneity assumptions of variance matrix

Test	Value
Box	4.474
F	1.406
df1	3
df2	259920.000
Significance level	0.239

As shown in Table 6, the results of the box test are given to investigate the homogeneity of the matrix of variances. According to the results, the significance level (sig=0.239) is greater than 0.05. Therefore, the assumption of homogeneity of the variance matrix is established. According to table 6 and 7, since the assumption of homogeneity of error variances and homogeneity of the covariance matrix were established; Multivariate variance analysis was used to compare the scores (helplessness of mothers of children with autism spectrum) in the studied groups.

_	Test	Value	F	df	df (error)	Р	Eta Square
Model	Pillais Trace	0.612	27.619	2	35	0.000	0.612
	Wilks's lambda	0.388	27.619	2	35	0.000	0.612
	Hoteling's Trace	1.578	27.619	2	35	0.000	0.612
_	Error Largest Root	1.578	27.619	2	35	0.000	0.612
Group	Pillais Trace	0.889	139.612	2	35	0.000	0.889
	Wilks's lambda	0.111	139.612	2	35	0.000	0.889
	Hoteling's Trace	7.978	139.612	2	35	0.000	0.889
_	Error Largest Root	7.978	139.612	2	35	0.000	0.889

Table 7. The results of a significant multivariate variance analysis (helplessness of mothers of children with autism spectrum)

As table (7) shows, the significant levels of all tests allow the ability to use multivariate analysis of variance. These results show that there is a significant difference in at least one of the dependent variables in the studied groups. (0.01 p <, f = 612/139, 0.11 = Wilks's lambda) Eta square shows.

The difference between the groups with regard to the dependent variables is significant and the rate of this difference based on Wilks's lambda test is 0.11, i.e. 88% of the variance is related to the difference between the groups due to the interaction of dependent variables.

Table 8. Multivariate Variance Analysis Test (Manova) On (Helplessness of Mothers of Children with Autism Spectrum).

Sov	dependent variable	sum of squares	df	mean square	F	Р	Eta Square
Model	learned helplessness	14824.013	1	14824.013	1737.948	0.000	0.958
Group	learned helplessness	3.613	1	3.613	250.424	0.000	0.562
Error							
	learned helplessness	648.250	38	8.530			

As table (8) shows learned helplessness in pre-test and post-test of humor skills training group and there is a significant difference in pre-test and post-test of humor skills training group (p<0.01).

Who did not receive this training, and the helplessness learned in mothers of children with autism spectrum disorder who received humor skills training is less than mothers who did not receive this training.

That is, 83% of the variance related to the difference between groups is due to the interaction of dependent variables.

Sub hypothesis: Humor skills training affects the learned helplessness of mothers with children with autism spectrum disorder.

Table 9. Levine test results to determine the parity of variances.

```
F
Df1
Df2
significant level

1.210
1
26
0.326
```

According to table results (9), the significant level of error of variances parity test (p>0.05) shows that the variances are equal.

Table 10. Univariate Variance Analysis to Compare Mean Scores of Humor Skills Training on Learned Helplessness in
Mothers of Children with Autism Spectrum Disorder.

Sc	Total square	df	Mean square	F	Sig	Effect size
Corrected model	2196.036	2	549.009	19.457	0.000	0.289
width from origin	729.831	1	7279.831	21.317	0.000	0.436
Group	2195.980	1	33.602	30.089	0.000	0.604
Group * Time	33.602	1	731.993	24.942	0.000	0.589
Error	9422.931	38	367.917			
Total	167283.000	38				
Corrected Total	11618.967	39				

According to the results of table 10 (p<0.01 F=34.01) for the learned helplessness variable of mothers of children with autism spectrum disorder, the difference between the control and test groups at the alpha level of 0.01 is significant, so the second sub hypothesis is confirmed and there is a difference between the learned helplessness of mothers of children with autism spectrum disorder between the control and experimental groups.

Also, the results of descriptive statistics of variables can be concluded that the learned helplessness of mothers who received humor skills is less than mothers who did not receive this training.

Discussion & Conclusion:

Main hypothesis: Teaching humor skills affects learned helplessness of mothers with children with autism spectrum disorder.

In this regard, the results showed that there is a significant difference on helplessness learned in pre-test and post-test of humor skills training group and there is a significant difference in pre-test and post-test of humor skills training group (p<0.01) and also from the results of descriptive statistics of variables can be concluded that the helplessness learned in mothers with children with autism spectrum disorder who received humor skills training is less than mothers who did not receive this training. The results were also in line with the results of researches by James C (2018), Ching et al. (2016) and Fry (2016). In this regard, James C. (2018) in a study entitled Sense of Humor when coping with the stress of life showed that humor and humor alone are associated with less depression and higher self-esteem.

However, these relationships vary according to the gender of the subject and the frequency of people's use of humor to cope. The results confirm the notion that feelings of humor play an important role in the psychological regulation of some people.

Sub hypothesis: Teaching humor skills affects the learned helplessness of mothers of children with autism spectrum disorder. In this regard, the results showed that there is a difference between the learned helplessness of mothers of children with autism spectrum disorder between the control and experimental groups. Also, the results of descriptive statistics of variables can be concluded that the learned helplessness of mothers who received humor skills was lower than mothers who did not receive this education (P<0.01).

The results were in line with the results of Khanjani and Rezaie's (2016), Karimi Vakil and partners (2017), Fallahzadeh and partners (2018), Hamidi and Jafari (2017), Mikaeili and partners (2019), Lan Lee (2007), James C (2018). In this regard, Mikaeili and partners (2019) in a study entitled Comparing compassion for themselves, showed humor and emotional impermanence among mothers of autistic children with normality in Ahvaz.

There was a significant difference between self-compassion and emotional impurity of mothers of children with autism and mothers of normal children, but there was no difference between the two groups regarding humor. The findings of this study can be an important achievement for psychological interventions to mothers of autistic children, and Fry (2016) showed that humor, physical illnesses and emotional disturbances, such as grief, can be used as a joke effect on daily disturbances and physical illnesses.

In explaining this assumption, it can be said that from the viewpoint of philosophers and ancient thinkers, humor is influenced by the four disturbances that cause physical and mental health. They believed that blood was red, flowing, warm and humid, and if it prevailed over other disturbances, the person would be healthy, hopeful, jolly and in a good mood. Psychology considers humor as one of the characteristics of human personality and has examined it from different perspectives. In the 1960s, psychologists became interested in criticizing humor and laughter for human existence. Some psychologists believe that humor and laughter are of great importance to human beings and their lives, and according to the results of this hypothesis, teaching humor skills can reduce the amount of helplessness learned by mothers of children with autism spectrum disorder.

References

- 1. American Psychiatric Association (2013) Diagnostic and statistical manual of mental disorders (5th edn). American Psychiatric Publishing Inc, Washington DC, USA
- Ching-LinWuaYa-RuLiuaChing-ChihKuobHsueh-ChihChenaYu-LinChang. Effectiveness of humor training among adolescents with autism. Psychiatry Research Volume 246, 30 December 2016, Pages 25-31
- Fallah Zadeh, Hajar; Nouri, Sarah; Poora Brahim, Taghi; Nazarbold, Neda. (2017). The effectiveness of group meaning therapy on the meaning of life and family functioning in mothers with children with autism spectrum disorders. Family Research Quarterly, Year 14, Number 53, pp. 150-135.
- 4. Fry, P. S. (2016). Perfectionism, humor and optimism as moderators of health outcomes and deter Kendall/Hunt.
- Hamidi, Roya; Jafari, Asghar. (2016). Comparison of family process and content and personality characteristics between mothers of autistic and normal children (6-15 years old). Journal of Principles of Mental Health, Volume 4, Number 1, pp. 39-49.

- 6. Hashemi, Marzieh; Darviza, Zahra; Yazdi, Seyedah Manour (2018), Comparison of psychological toughness and cognitive regulation of emotion in students with social anxiety and normal students, Psychological Studies, Volume 15, Number 1, pp. 41-56
- 7. James C. Overholser. Sense of humor when coping with life stress. Personality and Individual Differences, Volume 13, Issue 7, July 2018, Pages 799-804
- 8. Maddi, S., & Kobasa, D.M. (1984). Hardiness And Mental Health., Journal Of Personality Assessment, 63, 262 274.
- 9. Mikaili, Niloufer; Aghajani, Saifullah; Fayzi, Noushin; Rahmati, Maryam and Sore, Jamal (2019), comparison of selfcompassion, humor and emotional dyslexia among mothers of autistic children with normal ones in Ahvaz city, Scientific-Research Quarterly of Rehabilitation Medicine, Volume 9, Number 1, pp. 242-251.