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Comparing the effectiveness of therapeutic intervention based on healthy human theory with positive psychotherapy on self-compassion and cognitive fusion of mothers with autistic children

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Abstract

Aim: This research aims to compare the effectiveness of therapeutic intervention based on the healthy human theory with positive psychotherapy on self-compassion and cognitive fusion of mothers with children on the autism spectrum. **Method:** The research method was quasi-experimental (three groups-three stages) and the statistical population included all mothers of children with autism spectrum disorders who referred to autism centers in Isfahan city in July 2022, and 20 people were placed in each group in a targeted manner. The data in all three stages were collected by Neff's self-compassion questionnaire (2003) and Gillanders et al.'s (2014) cognitive fusion scale. Also, the positive psychotherapy package of Rashid and Seligman (2013) was implemented during 8 sessions of 90 minutes on the first experimental group and the therapeutic intervention package based on the healthy human theory was implemented as 9 sessions of 90 minutes on the second experimental group. **Results:** The results of variance analysis with repeated measurement showed that both therapeutic intervention packages based on healthy human theory and positive psychotherapy reduced cognitive fusion and increased self-compassion of mothers with children on the autism spectrum ($p \geq 0.05$) and this effectiveness in follow-up phase has also been stable. Also, the results of Bonferroni's post hoc test showed that there is no significant difference between the effectiveness of the two therapeutic intervention packages in any of the research variables. **Conclusion:** Based on the results of this research, psychologists can use both interventions to increase the awareness of mothers with children on the autism spectrum regarding the meaning and positive emotions in order to reduce cognitive fusion and increase self-compassion.

Keywords: therapeutic intervention package based on healthy human theory, self-compassion, positive psychotherapy, cognitive fusion, mothers with children on the autism spectrum.

Introduction

Parenting can be a source of stress and burnout, especially when a child begins to exhibit emotional problems and behavioral challenges (Roskam, Reiss, & Mikolajczak, 2017). As research shows, there is a strong bidirectional correlation between children's psychopathology and psychological distress in their parents beyond what can be accounted for by shared genetic and environmental effects (Stone et al., 2016; York et al., 2018). Parents of children with disabilities report higher levels of stress, and parents of children with autism spectrum disorder (ASD) report the highest levels compared to parents of children with intellectual and developmental disabilities or other disabilities (Singh et al., 2021). Also, studies have reported that parents (especially mothers) with autism spectrum disorders are at an increased risk of developing psychological problems, including parental stress, depression, suicide, anxiety and other emotional disorders can be very serious (Jahan et al., 2020). Mothers of children with autism spectrum disorder experience severe stress, social, communication and emotional competence problems along with cognitive dysfunctional development and maladjustment due to restraint (Khoshakhlaq, Mareshian, & Jairond, a2022).

In this regard, one of the treatment models that seems to be effective in reducing the social, mood and cognitive problems of mothers with children with autism spectrum disorder is positive psychotherapy approach (PPT). The first version of this program was compiled by Seligman, Rashid and Parks (2006). Nevertheless, attention to educations that are culture-based and integrated and comprehensive by nature is felt for parents with children on the autism spectrum (Ramachandran, 2020). For this reason, the researcher in the current research has developed a therapeutic intervention package based on the healthy human theory. These two interventions have a special emphasis on the meaning component. Since having an autism disorder causes stress and neuropsychological pressures and adverse effects on the body and mind of their parents, and the range of their problems ranges from depression, anxiety, incompatibility to emotional disorders and fear. Such symptoms have harmful effects such as reducing the quality of life, negatively impacting the patient's capacity to accept physical treatments, reducing resilience and life expectancy, reducing survival and ultimately meaninglessness of life. This sense of meaninglessness in life leads to emptiness and emptiness, so that a person stops trying to create a purposeful life and nothing matters to him anymore (Saeidi et al., 2019). Therefore, it is important and necessary to investigate the effectiveness of these two therapeutic interventions. On the other hand, counselors and psychotherapists are looking for the most cost-effective interventions in terms of time and economy, with which they can overcome the clients' problems in a short period of time; Therefore, the effectiveness of the therapeutic intervention package developed based on the healthy human theory was compared with positive psychotherapy. The present study was conducted in order to answer this research question: Is the effect of the therapeutic intervention package based on the healthy human theory and positive psychotherapy on self-compassion and cognitive fusion of mothers with children on the autism spectrum different?

Method

The research method was quasi-experimental (three groups-three stages) and the statistical population included all mothers of children with autism spectrum disorders who referred to autism centers in Isfahan city in July 2022, and 20 people were placed in each group in a targeted manner. The data in all three stages were collected by Neff's self-compassion questionnaire (2003) and Gillanders et al.'s (2014) cognitive fusion scale. Also, the positive psychotherapy package of Rashid and Seligman (2013) was implemented during 8 sessions of 90 minutes on the first experimental group and the therapeutic intervention package based on the healthy human theory was implemented as 9 sessions of 90 minutes on the second experimental group.

Results

The results of variance analysis with repeated measurement showed that both therapeutic intervention packages based on healthy human theory and positive psychotherapy reduced cognitive fusion and increased self-compassion of mothers with children on the autism spectrum ($p \geq 0.05$) and this effectiveness in follow-up phase has also been stable. Also, the results of Bonferroni's post hoc test showed that there is no significant difference between the effectiveness of the two therapeutic intervention packages in any of the research variables.

Conclusion

In order to achieve the above results, the researcher has faced some limitations, such as the community being limited to mothers with children on the autism spectrum. It is suggested that the current research be conducted on mothers with children with Down syndrome disorders, mental-motor disabilities, and autism levels (mild, moderate, and severe) and its results be compared with the current research. In this research, a questionnaire was used to collect data and information, which has a self-reporting aspect, and mothers may have noticed that the results of the research have been affected due to their motherly sense in answering honestly. Therefore, it is suggested to use other collection methods such as interview and observation in future researches. In general, according to the results of the research, it is suggested that positive psychotherapy interventions and treatment based on the healthy human theory be taught to related counselors and therapists. It is also suggested that welfare centers, in order to improve the psychological health of parents with autistic children, especially by reducing cognitive fusion, prepare appropriate educational booklets for these parents based on the findings of the current research and provide them to counselors of the welfare center and parents with autistic children.

References

- Aghaei, A. (2020). Healthy man theory. second edition. Tehran: Neveshteh Publications. (In Persian)
- Aghajani, M J., Mosavi, S S., & Asadi, S. (2018). The Effect of Positive Psychotherapy on Psychological Well-being and Hardiness in Mothers of Children with Special Needs. *Journal Child Ment Health*, 5 (3), 22-33. (In Persian)

- Akbari, M., Mohammadkhani, S., & Zarghami, F. (2016). The mediating role of cognitive fusion in explaining the relationship between emotional dysregulation and anxiety and depression: a transdiagnostic factor. *Iranian Journal of Psychiatry and Clinical Psychology (Thought and Behavior)*, 22(1): 17-29. (In Persian)
- Al-Farsi, O. A., Al-Farsi, Y. M., Al-Sharbati, M. M., & Al-Adawi, S. (2016). Stress, anxiety, and depression among parents of children with autism spectrum disorder in Oman: a case-control study. *Neuropsychiatric Disease and Treatment*, 12, 1943.
- Anabestani, S., & Naeimi, A. M. (2019). Teaching positivity on self-compassion and life expectancy of mothers of children with autism spectrum disorder. *Quarterly Journal of Psychology of Exceptional Individuals*, 9(33): 68-45. (In Persian)
- Ananpatiwet, S., & Blauw, J. N. (2016). The development and testing of a positive psychology-based program for increasing happiness among parents of children with autism spectrum disorder in Thailand. *Scholar: Human Sciences*, 8(2).
- Asadi, A., & Aghaei, A. (2022). The effect of the healthy human theory educational package on self-efficacy and mental health of secondary school girl students. *Tolo Health*, 21 (4): 20-39. (In Persian)
- Azizmohammadi, S., Rakebi, N., Jamshidi, Z., & Zomorodi, M. (2019). Logo-therapy on Sense of Coherence and Quality of Life of Autistic Student Mothers. *Middle Eastern Journal of Disability Studies*, 9, 37-48. (In Persian)
- Bazi, M. (2019). Effectiveness of existential group therapy on resilience and life satisfaction in parents with autistic children. Family conference, autism disorder and accompanying challenges, Tehran, <https://civilica.com/doc/918953>.
- Bohadana, G., Morrissey, S., & Paynter, J. (2019). Self-compassion: A novel predictor of stress and quality of life in parents of children with autism spectrum disorder. *Journal of autism and developmental disorders*, 49(10), 4039-4052.
- Cetinbakis, G., Bastug, G., & Ozel-Kizil, E. T. (2020). Factors contributing to higher caregiving burden in Turkish mothers of children with autism spectrum disorders. *International Journal of developmental disabilities*, 66(1), 46-53.
- Dingess, K. M. (2019). *Impact of Positive Psychology Coping Mechanisms on Stress Levels of Parents of Children with Autism Spectrum Disorder*. Publisher Florida State University. Retrieved from http://purl.flvc.org/fsu/fd/2019_Summer_Dingess_fsu_0071E_15104.
- Ebrahimi, M., & Ebrahimi, S. (2020). The effectiveness of reality therapy on rumination, worry and distress tolerance of mothers of autistic children. *Pediatric Nursing Journal*, 7(2): 11-21. (In Persian)
- Gillanders, D. T., Bolderston, H., Bond, F. W., Dempster, M., Flaxman, P. E., Campbell, L., ... & Remington, B. (2014). The development and initial validation of the cognitive fusion questionnaire. *Behavior therapy*, 45(1), 83-101.
- Gillanders, D. T., Sinclair, A. K., MacLean, M., & Jardine, K. (2015). Illness cognitions, cognitive fusion, avoidance and self-compassion as predictors of distress and quality of life in a heterogeneous sample of adults, after cancer. *Journal of Contextual Behavioral Science*, 4(4), 300-311.
- Hemtai, B., & Jafarzadeh Dashbalagh, H. (2016). Comparison of cognitive fusion and self-compassion in couples with and without adjustment problems. Third International Conference on Psychology, Educational Sciences and Lifestyle, Mashhad, <https://civilica.com/doc/593168>. (In Persian)
- Jahan, S., Araf, K., Gozal, D., Griffiths, M. D., & Mamun, M. A. (2020). Depression and suicidal behaviors among Bangladeshi mothers of children with Autistic

- Spectrum Disorder: a comparative study. *Asian Journal of psychiatry*. <https://doi.org/10.1016/j.ajp.2020.101994>.
- Kasaei Esfahani, A., & Davarniya, R. (2019). Investigating the effectiveness of group positive psychotherapy on parenting stress among mothers of children with down criteria. *Research in Cognitive and Behavioral Sciences*, 9(2), 33-46. (In Persian)
- Kazemi, A., & Sharifi Fard, A. (2021). Comparison of self-compassion, behavioral flexibility and psychological well-being of mothers of autism spectrum children with mothers of normal children. *New Ideas in Psychology*, 8(12): 1-14. (In Persian)
- Khaledinia, A., Makvandi, B., Asgari, P., & Pasha, R. (2021). Comparison of Group Psychotherapy Effectiveness based on Acceptance and Commitment Therapy Matrix with Group Behavioral Activation Therapy on Quality of Life and Alexithymia in Depress Mood Females. *Women's Health Bull*, 8(1), 26- 36. (In Persian)
- Khoshakhlagh, M., Marashian, F. S., & Jayervand, H. (2022a). Comparing the Effectiveness of Positive Psychotherapy and Pivotal Response Treatment in Family Satisfaction in Mothers of Children with Autism. *Women's Health Bulletin*, 9(1), 1-8.
- Khoshakhlagh, M., Marashian, F. S., & Jayervand, H. (2022b). Effectiveness of Positive Psychotherapy in Parenting Stress and Family Satisfaction among Mothers of Children with Autism. *The American Journal of Family Therapy*, 1-13.
- LaPlante, A. M. (2013). *The effectiveness of a positive psychology intervention with parents of children with autism spectrum disorders*. Doctoral dissertation, University of La Verne.
- Lyubomirsky, S., & Layous, K. (2013). How do simple positive activities increase well-being? *Current Directions in Psychological Science*, 22(1), 57-62.
- Mashak, R., Naderi, F., & Chin Ave, M. (2021). The effectiveness of "positive psychotherapy" on self-compassion, self-criticism, perception of suffering and psychological distress in infertile women. *Health Promotion Management Quarterly*, 10(6): 12-27. (In Persian)
- McIntyre, L. L., & Neece, C. L. (2016). *Parent training*. In *Handbook of evidence-based practices in intellectual and developmental disabilities* (pp. 467-492). Springer, Cham.
- Mikaeili, N., Aghajani, S., Fayzi, N., Rahmati, M., & Soura, J. (2020). Comparison of self-compassion, humor and emotional dyslexia among mothers of autistic children with normal ones in Ahvaz city. *Rehabilitation Medicine Quarterly*, 9(1): 251-242. (In Persian)
- Mohamadipoor, M., & Yari, M. (2017). The effect of cognitive behavioral therapy on reducing the depression and anger on mothers with autistic children. *Palma Journal*, 16(2), 611-615. (In Persian)
- Montes, G., & Cianca, M. (2014). *Family burden of raising a child with ASD*. In: Patel V., Preedy V., Martin C. (eds). *Comprehensive Guide to Autism*. Springer, New York, NY.
- Moradi, S., Aghaei, A., & Golparvar, M. (2020). Effectiveness of training package based on healthy human theory and emotion-oriented training on interpersonal forgiveness of couples. *Islamic Studies of Women and Family*, 7 (13): 141-123. (In Persian)
- Nasajpour Esfahani, F., & Aghaei, A. (2021). The effectiveness of the satisfaction group training method, based on the healthy human theory, on the marital

- exhaustion of couples with marital conflict. *New Ideas of Psychology Quarterly*, 8(12):1-11. (In Persian)
- Neff, K. D., & Faso, D. J. (2015). Self-compassion and well-being in parents of children with autism. *Mindfulness*, 6, 938-947.
- Nouri Sandiani, S., Fallahzadeh, H., Pour Ebrahim, T., & Nazarboland, N. (2018). The effectiveness of group meaning therapy on the meaning of life and family functioning in mothers with children with autism. *Family Studies*, 14(1): 135-149.
- Nouri, H., & Shahabi, B. (2017). The effectiveness of self-compassion training on increasing the resilience of mothers with children with autism. *Knowledge and Research in Applied Psychology*, 18(3): 118-126.
- Parsakia, K., Darbani, S. A., Rostami, M., & Saadati, N. (2022). The effectiveness of strength-based training on students' academic performance. *Journal of Adolescent and Youth Psychological Studies*, 3(3), 194-201.
- Patra, S., & Patro, B. K. (2019). Affiliate stigma among parents of children with autism in eastern India. *Asian Journal of Psychiatry*, 44, 45-47
- Poryahia, M., Nazarpour, D., Malekzade Turkmani, P., & Davarnia, R. (2020). The effect of positive psychotherapy on the happiness of mothers of children with Down syndrome. *Armaghane Danesh*, 25(2): 313-328.
- Raeisi, H., Sharifi, T., Ghazanfari, A., & Cherami, M. (2020). The effectiveness of self-compassion training on social anxiety and distress tolerance of mothers with children with cerebral palsy. *Scientific Research Quarterly of Psychological Sciences*, (93): 1197-1200. (In Persian)
- Ramachandran, R. (2020). A qualitative study on perspective of parents of children with autism on the nature of parent-professional relationship in Kerala, India. *Autism*, 24(6), 1521-1530.
- Ramezanlou, M., Abol-Maali, K., Bagheri, F., & Robatmeyli, S. (2020). The lived experience of mothers of children with autism spectrum disorder: a phenomenological study. *Quarterly Journal of Psychology of Exceptional People*, 10(39): 133-174. (In Persian)
- Rashid, T. (2015). Positive psychotherapy: A strength-based approach. *The Journal of Positive Psychology*, 10(1), 25-40.
- Rashid, T., & Seligman, M. E. P. (2013). *Positive psychotherapy: A treatment manual*. New York: Oxford University Press.
- Rezaei Kalantari, M., Donyavi, R., & Rostamian, M. (2019). The effect of positive psychotherapy on perceived stress and life reasons of mothers with autistic children. *Journal of Mazandaran University of Medical Sciences*, 29 (180): 86-94.
- Roskam, I., Raes, M. E., & Mikolajczak, M. (2017). Exhausted parents: Development and preliminary validation of the parental burnout inventory. *Frontiers in psychology*, 8, 163-180.
- Rostami, M., Abdi, M., & Heidari, H. (2014). Correlation of childhood maltreatment, self-compassion and mental health in married people. *Journal of fundamentals of mental health*, 16(62), 130-41.
- Rostami, M., Fatollahzadeh, N., & Saadati, N. (2016). The effectiveness of acceptance and commitment training on improving the quality of life and self-compassion of the mothers of educable disabled children. *Journal of Psychological Studies*, 12(3), 103-122.
- Sadri Demirchi, E., & Samadifard, H. (2017). The role of cognitive fusion, perception of social interaction and cognitive avoidance in predicting teachers' burnout. *Social Cognition Quarterly*, 6(2): 83-96. (In Persian)

- Seligman, M. E. P., Rashid, T., Parks, A. C. (2006). Positive psychotherapy. *American Psychologist*, 61(8), 774-778.
- Selvakumar, N., & Panicker, A. S. (2020). Stress and coping styles in mothers of children with autism spectrum disorder. *Indian Journal of Psychological Medicine*, 42(3), 225-232.
- Singh, N. N., Lancioni, G. E., Medvedev, O. N., Hwang, Y. S., & Myers, R. E. (2021). A component analysis of the mindfulness-based positive behavior support (MBPBS) program for mindful parenting by mothers of children with autism spectrum disorder. *Mindfulness*, 12(2), 463-475.
- Stone, L. L., Mares, S. H., Otten, R., Engels, R. C., & Janssens, J. M. (2016). The co-development of parenting stress and childhood internalizing and externalizing problems. *Journal of psychopathology and behavioral assessment*, 38(1), 76-86.
- Torbet, S., Proeve, M., & Roberts, R. M. (2019). Self-compassion: a protective factor for parents of children with autism spectrum disorder. *Mindfulness*, 10(12), 2492-2506.
- Wong, C. C., Mak, W. W., & Liao, K. Y. H. (2016). Self-compassion: A potential buffer against affiliate stigma experienced by parents of children with autism spectrum disorders. *Mindfulness*, 7(6), 1385-1395.
- Yorke, I., White, P., Weston, A., Rafla, M., Charman, T., & Simonoff, E. (2018). The association between emotional and behavioral problems in children with autism spectrum disorder and psychological distress in their parents: A systematic review and meta-analysis. *Journal of autism and developmental disorders*, 48(10), 3393-3415.
- Yu, Y., McGrew, J. H., & Boloor, J. (2019). Effects of caregiver-focused programs on psychosocial outcomes in caregivers of individuals with ASD: A meta-analysis. *Journal of Autism and Developmental Disorders*, 49(12), 4761-4779.
- Zahraei, S., Amini, S., & Saebi, S. (2018). The relationship between disease perception, stigma experience and cognitive fusion with the quality of life of women with multiple sclerosis. *Psychological Studies*, 14(2): 25-41. (In Persian)
- Zakeri, F., Safarian Tousi, M. R., & Nejat, H. (2019). Investigating the moderating role of self-compassion in the relationship between emotional dyslexia and marital heartbreak in maladjusted women. *Quarterly Journal of Excellence in Counseling and Psychotherapy*, 8(29): 52-64. (In Persian)
- Zare Bidaki, Z., & Jahangiri, M. M. (2018). The effectiveness of treatment based on acceptance and commitment to the psychological flexibility of mothers with children with autism. *Arak Journal of Medical Sciences*, 21 (7): 41-47. (In Persian)