Volume 2, Issue 4, 2024

ISSN: (E) 3007-1917 (P) 3007-1909

### COMPARISON AMONG EMOTIONAL REGULATION, STRESS AND SELF-PERCEIVED HEALTH IN AUTISTIC CHILDREN PARENTS AND NORMAL CHILDREN PARENTS

### Anjum Afshan<sup>\*1</sup>, Fauzia Malik<sup>2</sup>, Aaiza Nadeem<sup>3</sup>

\*1.2Assistant Professor, Head of Psychology Department, Fazaia Bilquis College of Education for Women, PAF Nur Khan base, Rawalpindi (Affiliated with Air University) <sup>3</sup>Psychology Department, Fazaia Bilquis College of Education for Women, PAF Nur Khan base, Rawalpindi (Affiliated with Air University)

\*1anjumafshan9@gmail.com; <sup>2</sup>fauziamalik@ymail.com

#### **Corresponding Author: \***

Received	Revised	Accepted	Published
15 August, 2024	15 September, 2024	30 September, 2024	14 October, 2024

### ABSTRACT

The main aim of this research was to study the comparison among emotional regulation, stress and self-perceived health among autistic children parents and normal children parents. For this purpose, the data was collected from 120 parents from Islamabad, Kamra and Taxila by administering 3 self-report questionnaires. To measure Emotional Regulation, Emotional Regulation Questionnaire (ERQ) was used, to measure Parental Stress, Parental Stress Index (PSI) was used, and to measure Self-perceived health, Self-perceived Health (SF-36) was used. The data was collected through primary as well as secondary sources. The results obtained suggested that the emotional Regulation is higher among normal children parents is higher than autistic children parents. The level of stress is higher among autistic children parents is higher than autistic children parents. The Self-perceived Health is higher among autistic children parents is higher than normal children parents.

**Keywords:** Emotional regulation, stress, self-perceived health, autistic children parents and normal children parent.

### 1. INTRODUCTION

### 1.1 Background

Autism Spectrum Disorder (ASD) is a neurodevelopmental disorder that refers to the continuous hurdles and challenges faced in communication especially while interacting with others and the repetition of patterns in their behavior activities and daily life things and interests. (American Psychological Association, 2013). According to the Pakistan Autism Society, about 400,000 children in Pakistan are autistic or have features of Autism Spectrum Disorder (ASD). Autism spectrum disorder (ASD) being a lifetime illness involves continuous effort at the end of parents, guardians, and caregivers and it also includes persistent disability and maladaptation in communication ,behaviors, and social interaction always causes stressors and lead to anxiety and depression for the mothers specially. Researchers have shown that the level of stress among parents of autistic children parents is really high; it's about 77% which is clinically significant. (Kiami and Goodgold, 2017). As per the nature and chronicity of the disorder, Autistic children need more care, long-term attention and full time caregivers. Due to the early symptoms manifestation in autistic children, primary caregivers are mostly parents or close family members (Karst and Van Hecke, 2012, Lovell et al., 2012, Ruiz-Robledillo et al., 2020; Moya-Abiol, 2012, Segui et al., 2008) It is one of the most prominent and highlighting social issue that a caregiver or parents

Volume 2, Issue 4, 2024

feel burdened and vulnerable physically, psychologically and foremost financially because of the complications and responsibilities associated with it. (Lavelle et al., 2014; Ruiz-Robledillo et al., 2012, Segui et al., 2008)

### **1.2 Problem statement**

To study the comparison among emotional regulation, stress and self-perceived health in autistic children parents and normal children parents.

### **1.3 Objectives of the study**

- 1. To find the comparison between emotional regulation of autistic children parents and normal children parents.
- 2 To find the comparison between stress of autistic children parents and normal children parents.
- 3 To find the comparison between self-perceived health of autistic children parents and normal children parents.

### **1.4 Research hypothesis**

- 1. There is the significant difference between emotional regulation of autistic children parents and normal children parents.
- 2. There is the significant difference between stress of autistic children parents and normal children parents.
- 3. There is the significant difference between selfperceived health of autistic children parents and normal children parents.

### **1.5 Delimitations of the study**

The study evaluated the comparison among emotional regulation, stress and self-perceived health of autistic children parents and normal children parents. Future studies are needed to propose a more complete model for related factors of parental stress in autistic children parents.

The current study focuses on the gap left in the aforesaid study with includes other cognitions like depression, anxiety, social support, problem solving abilities etc. It aid society, clinical settings and for the well-being of society. Moreover, particularly in the clinical setting it can provide ways to plan interventions, therapeutic strategies and further ways ISSN: (E) 3007-1917 (P) 3007-1909

to improve the health and ensuring the psychological well-being of parents having autistic children.

### Operational definition 1.5.1 Emotional Regulation

Emotion regulation refers to the ability to amplify and reduce the intensity and duration of emotions as needed (Cole, Michel, & Teti, 1994). In present study Emotional Regulation Questionnaire (ERQ) is used in order to measure the emotional regulation.

### **1.5.2 Parental Stress**

Parental stress is the experience of distress or discomfort that results from demands associated with the role of parenting. The Parental Stress Scale Questionnaire- the 18-item self-report scale that was be used for measuring the level of stress among the autistic children parents and normal children parents. High scores showed that the participant has high level of stress.

### 1.5.3 Self perceived health

Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity (Young, Lynne E., and Virginia E. Hayes. 2002). Self-perceived health refers to the perception of a person's health in general. It includes all the main domains of health i.e. physical, mental, emotional, and social every aspect of health falls in the category of general health. We used Self Perceived Health questionnaire (SF-36) for measuring the general health of parents. It is a 36 item scale. Higher scores indicate better health status.

### 2. Literature Review

According to six recent studies, the level of anxiety experienced by the parents was analyzed. (AlMansour et al., 2013, Al-Farsi et al., 2016; Rayyan and Ahmad, 2017; Alnazlay and Abojedi, 2019; Al-Ansari et al., 2021). The Quality of Life (QoL) of parents was also compromised (Kheir et al., 2012; Dardas and Ahmad, 2014; Ahmad and Dardas, 2015; Alenazi et al., 2020). Several other problems such as physical health problems were also seen in two studies (Al-qahtani, 2018; Shattnawi et al., 2021). Recent researches have Physical health problems were reported in two studies (Al-qahtani, 2018; Shattnawi et al., 2021). In recent studies, it was

Volume 2, Issue 4, 2024

concluded that the rate of social burden is higher among autistic children parents. (Al-gahtani, 2018; Gobrial, 2018; Alenazi et al., 2020; Al-Masadeh et al., 2020; Shattnawi et al., 2021). Past researches have concluded that rate of stress is higher among mothers of autistic children (Wang P, Michels CA, Day MS, 2010; Bilgin H, Kucuk L, 2011). Moreover, while making comparison among autistic and normal children parents the level of stress was observed in their whole families and they experienced many psychological and psychosocial problems. (Bilgin H, Kucuk L. 2010). Challenges faced by the parents of autistic children are associated with stress, anxiety and more issues regarding caregiving etc. (Bitsika and Sharpley, 2017). It has been observed that parents of autistic children have a high risk of getting any chronic illness because of sufferings.

In recent researches it was found that 1.85 percent children were suffering from autism spectrum disorder (CDC 2020). Autistic children parents had more massive, immense and astonishing experience of parenting. (Totika et al.,2011; Schieve et al., 2007; Eisenhower, 2005) than the parents of normal children (Bujnowska, 2019; Hickey, 2019) and other caregivers or parents who raised their children with other disabilities (Totsika et al., 2011; Blacher and McIntyre, 2006).

### 3 Methodology and study design

The current study was conducted a comparative study to compare the emotional regulation, stress and self-perceived health of autistic children parents and normal children parents.

The participants were individually explained regarding the purpose of the study.

### 3.1 The area of the study

### 3.4 Data Analysis

Table 01

ISSN: (E) 3007-1917 (P) 3007-1909

The study was based on Quantitative research design, through which accurate measurements were obtained and by using statistical methods data was collected data was interpreted and analyzed. In this research method, use of structured questionnaire with alternative responses was done.

#### 3.2 Sample techniques and sample size

A sample of 120 parents, 60 normal children parents and 60 parents of children with autism collected from several hospitals, schools and rehabilitation centers of Kamra, Taxilla and Islamabad. The participants who were agreed and interested were included in the study and data was obtained through the physical administration of a questionnaire. 20 responses of parents for pilot study and the remaining 100 for the main study.

### **3.3 Research Instrument**

Emotional Regulation Questionnaire (ERQ) Ten-Item Form (ERQ-10) that is a self-report questionnaire for purpose to interpret the differences among individual differences in terms of experiencing emotions and regulate accordingly.

Parental Stress Scale included items that were selfreported. It was developed by Berry and Jones (1995) as an alternative of 101- items of low score shows low level of parental stress and high stress low high level of parental stress.

The SF-36 consists of standardized tools for measurement for Health Related Quality of Life and it was developed Ware and Sherburne in 1992 in United States. 36 items in this scale consist of physiological functioning, social functioning and emotional problems.

		Auti M			mal S.D.	t	р	95% Interval LL	Confidence UL	Cohen's d
Emotional Regulation	Questionnaire	45.5	-	47.7 10.4	-	1.149	0.765	6.073	1.614	0.532
(ERQ)	Questionnane	10.7		10.4	r			6.072	1.613	

Volume 2, Issue 4, 2024

ISSN: (E) 3007-1917 (P) 3007-1909

The above table indicates the results of t test of Emotional Regulation Questionnaire (ERQ) among normal and autistic children parents. The result shows that mean value of Emotional Regulation among autistic children parent is (M = 45.53), standard deviation is (S.D=10.71) whereas mean

value of emotional Regulation among normal parent children is (M=47.76), standard deviation (S.D=10.4) which means that rate of emotional regulation among normal children parent is higher than autistic children parents.

#### Table 02

	Autistic M S.D.	Normal M S.D.	t	р	95% Confidence Interval		Cohen's d
					LL	UL	
Parental Stress Index	62.52 8.43	58.72 10.3	2.20	0.125	0.380	7.220	0.401
(PSI)					0.378	7.222	

The above table indicates the results of t test of Parental Stress Index (PSI) among normal and autistic children parents. The result shows that the mean value of the Parental Stress Index (PSI) among autistic children parent is (M = 62.52), standard deviation is (S.D=8.42) whereas mean value of Parental Stress Index (PSI) among normal parent children is (M=58.72), standard deviation (S.D=10.3) which means that rate of stress among autistic children parent is higher than normal children parents. The value of Cohen's d is 0.401. The significance value of p=0.125 which is greater than 0.05 so the hypothesis is rejected.

Table 03							
	Autistic M S.D.	Normal M S.D.	t	р	95% Confidence Interval		Cohen's d
					LL	UL	
Self- Perceived	93.72 11.9	91.88 8.72	0.961	0.080	1.943	5.610	0.176
Health (SF- 36)					1.947	5.613	

The above table indicates the results of t test of Self-Perceived Health (SF-36) among normal and autistic children parents. The result shows that mean value of Self-Perceived Health among autistic children parent is (M = 93.72), standard deviation is (S.D=11.9) whereas mean value of Self-Perceived Health among normal parent children is (M=91.88), standard deviation (S.D=8.72) which means that rate of self-perceived health among autistic children parent is higher than normal children parents. The value of Cohen's d is 0.176. The significance value is 0.080

which is greater than 0.05 so the hypothesis is rejected.

#### 4.Discussion

In present study a comparative study conducted to compare the emotional regulation, stress and selfperceived health of autistic children parents and normal children parents. On the basis of findings following justifications are made to support this study. Studies, such as the one by Ting and Weiss (2017), have shown that parents of autistic children

Volume 2, Issue 4, 2024

often exhibit lower emotional regulation compared to parents of typically developing children. This difference can be attributed to the unique challenges faced in raising a child with autism, including managing complex behavioral issues, navigating social situations, and coping with societal stigma. The constant need to adapt to their child's specific needs and the unpredictability of certain situations can tax these parents' ability to regulate their emotions effectively, leading to higher levels of emotional exhaustion and potential burnout.

Parents of autistic children consistently report higher levels of stress compared to parents of typically developing children (Ting & Weiss, 2017). This elevated stress stems from various factors, including the intensive care giving demands, financial pressures related to specialized treatments and therapies, concerns about their child's future, and often, a lack of adequate support systems. The challenges of managing unique behavioral issues, communication difficulties, and sensory sensitivities contribute significantly to this stress. Additionally, the process of obtaining diagnoses, accessing appropriate educational resources, and advocating for their child's needs in various settings can be emotionally and physically draining, further exacerbating stress levels.

Interestingly, despite higher stress levels and lower emotional regulation, studies such as those by Baker-Ericzen, Brookman-Frazee, and Stahmer (2005) and Segui et al. (2008) have found that parents of autistic children often report higher self-perceived health compared to parents of typically developing children. This seemingly paradoxical finding suggests a development of resilience and adaptive coping mechanisms among parents of autistic increased responsibilities The children. and challenges they face may lead to a heightened awareness of their own health needs and a more proactive approach to maintaining their well-being. Additionally, the experience of raising a child with autism might foster personal growth, increased empathy, and a deeper appreciation for health and wellness, contributing to a more positive selfperception of health despite the objectively higher stress levels they encounter.

ISSN: (E) 3007-1917 (P) 3007-1909

#### 5. Recommendations

On the basis of findings following are the recommendations:

1. Counseling services and healthy coping strategies can be introduced for autistic children parents in order to be more resilient.

2. Researchers can further devise intervention plans in order to improve emotional regulation and lessen the rate of stress and depression among autistic children parents.

3. The strategies can be planned for the parents in order to better autistic children parents' emotional regulation, stress and Self-perceived health.

### 6 Conclusion

The findings underscore that parental emotional regulation is significantly more adaptive among parents of neuro-typical children compared to those of children with autism. Additionally, the elevated levels of parental stress suggest a substantial impact on psychological well-being. Notably, self-perceived health appears to be more favorable among parents of autistic children, indicating a potential resilience factor. In response to these dynamics, intervention strategies should focus on enhancing emotional regulation through cognitive-behavioral techniques and stress-reduction methodologies. Implementing psycho-education, support groups, and mindfulness practices could effectively mitigate anxiety and depressive symptoms, fostering greater emotional resilience. Tailoring these interventions to the unique stressors faced by these parents may ultimately enhance their overall psychological health and familial relationships.

### 7. References

- Abidin RR. (1990). Introduction to the special issue: The stresses of parenting. J Clin Child Psychol. 298–30
- Abidin RR, Abidin RR. (1990). Parenting Stress Index (PSI). Pediatric Psychology Press Charlottesville; VA: 1990.
- Abraham P. Greeff and Kerry-Jan van der Walt. (2010). Education and Training in Autism and Developmental Disabilities Vol. 45, No. 3 347-355. Division on Autism and Developmental Disabilities.

Volume 2, Issue 4, 2024

Abramson RK, Ravan SA, Wright HH, Wieduwilt K, Wolpert CM, Donnelly SA, et al. (2009). The relationship between restrictive and repetitive behaviors in individuals with autism and obsessive.

- Allik H, Larsson JO, Smedje H. (2006). Healthrelated quality of life in parents of school-age children with Asperger Syndrome or High-Functioning Autism. Health Qual Life Outcomes.
- Andrea C. Samson, Whitney M. Wells, Jennifer M. Phillips, Antonio Y.Hardan, James J. Gross. (2014). Emotion regulation in autism spectrum disorder:evidence from parent .https://doi.org/10.1111/jcpp.12370
- A. Angold, M. Prendergast, A. Cox, R. Harrington, E. Simonoff, M. Rutte. (1995). Psychological Medicine, 739-753
- American Psychiatric Association.(2013).
   Diagnostic and Statistical Manual of Mental
   Disorders (DSM-5). Washington, DC:
   American Psychiatric Association Publishing.
- Atefeh Soltanifar, Farzad Akbarzadeh, Fatemeh Moharreri, Azadeh Soltanifar, Alireza Ebrahimi,et al. (2014). Comparison of parental stress among mothers and fathers of children with autistic spectrum disorder in Iran.
- Bailey DB Jr, Golden RN, Roberts J, Ford A. (2007). Maternal depression and developmental disability: research critique. Ment Retard Dev Disability, 49(6), 667-667.
- Blanchard LT, Gurka MJ, Blackman JA. (2006). Emotional, developmental, and behavioral health of American children and their families: a report from the 2003 National Survey of Children's Health.Pediatrics, 33(26), 2609-2614. doi:https://doi.org/10.1016/0024-3205(83)90344-2
- Baker-Ericzén, M. J., Brookman-Frazee, L., & Stahmer, A. (2005). Stress Levels and Adaptability in Parents of Toddlers with and without Autism Spectrum Diso rders. Research and Practice for Persons with Severe Disabilities, 30(4), 194–204. https://doi.org/10.2511/rpsd.30.4.194

ISSN: (E) 3007-1917 (P) 3007-1909

- Bitiska , V., Sharpley, C.F. & Bell, R. (2013). The buffering effect of resilience upon stress, anxiety and depression in parents of a child with Autism Spectrum Disorder. J Dev Phys Disable. 25, 533-543 (2013). https://doi.org/1007/s10882-013-9333-5
- Burns N, Grove SK. (2010). Understanding nursing research: Building an evidence-based practice.
  5, editor. United States of America: Elsevier Health Sciences, 83(4), 431-432. doi:https://doi.org/10111/j.1360-0443.198.tb00490.
- Chenbach and Eldelbrock, Achenbach, C.S. Eldelbrock. (1983). Manual for the child behavior checklist and revised child behavior profile. University of Vermont Department of Psychiatry, Burlington, 359-368.
- CDC. (2021). Autism Spectrum Disorder (ASD). Retrieved August 19, 2021, from: https://www.cdc.gov/ncbddd/autism/index.ht ml
- Culliford L. (2002). Spiritual care and psychiatric treatment: an introduction. Adv. Psychiatr. Treat, 8(4):249–58.
- Daniels AM, et al.(2012). Verification of parentreport of child autism spectrum disorder diagnosis to a web-based autism registry. J Autism Dev Disord. 42(2):257–65.
- Dietert, R.R, Dietert, J. C., Dewitt, J. C (2011). Environmental Risk Factors for Autism, Emerg. Heath Threats J., 2011, 4:10:3402/ehtj.v4i0.7111.Sec.Personality and Social Psychology.https://doi.org/10.3389/fpsyg.201

Psychology.https://doi.org/10.3389/fpsyg.201 9.00072

- Dorota Kobylińska1, Petko Kusev.(2019). Flexible Emotion Regulation: How Situational Demands and Individual Differences Influence the Effectiveness of Regulatory Strategies. 18(3), 277
- Emily J. Hickey, Sigan L. Hartley, and Lauren Papp. (2018). Psychological wellbeing and parent child relationship quality in relation to autistic child.51(6), 768-774. Doi:https://doi.org?10.1027/0227-5910.29.3.159
- Giallo R, Wood CE, Jellett R, Porter R. (2013). Fatigue, wellbeing and parental self-efficacy

Volume 2, Issue 4, 2024

in mothers of children with an autism spectrum disorder. Autism. 2013;17(4):465–80.

- Gray DE. (2003). Gender and coping: the parents of children with high functioning autism. Soc Sci Med. 2003;56:631–42. https://doi.org/10.1016/sO191-8869(00)00064-7
- Hales CM, Carroll MD, Fryar CD, Ogden CL. (2017). Prevalence of obesity among adults and youth: United States, 2015-2016. NCHS Data Brief. 2017;(288):1–8 Google Scholar
- Hofer, J., Hoffmann, F., & Bachmann, C. (2017). Use of complementary and alternative medicine in children and adolescents with autism spectrum disorder: A systematic review. Autism: The International Journal of Research and Practice, 21(4), 387–402.
- Hawker S. (2015). Compact Oxford English Dictionary.Spiritual Journey in Mothers' Lived Experiences of Caring for Children With Autism Spectrum Disorders. Glob. J. Health Sci. 2015;7(6):79–87. https://doi.org/10.1016
- Hastings RP. (2003) . Child behaviour problems and partner mental health as correlates of stress in mothers and fathers of children with autism. J Intellect Disabil Res. 2003;47:231–7.
- Hastings RP, Kovshoff H, Ward NJ, Espinosa FD, Brown T, Remington B. (2005). Systems analysis of stress and positive perceptions in mothers and fathers of pre-school children with autism. J Autism Dev Disord. 2005;35:635–44.
- lsson MB, Hwang CP. (2001). Depression in mothers and fathers of children with intellectual disability. J Intellect Disability Res. 20(30), 268-273.
- Hyman, S. L., Levey, S. E., & Myers, S. M. (2020). Council on Children with Disabilities, Section on Developmental and Behavioral Pediatrics. 35(5), 581-591, doi:10.1521
- Jones TL, Prinz RJ. (2005). Potential roles of parental self-efficacy in parent and child adjustment: A review. Clin. Psychol. Rev. 2005;25(3):341–63.
- Joosten AV, Safe AP. (2014). Management strategies of mothers of school-age children

ISSN: (E) 3007-1917 (P) 3007-1909

with autism: Implications for practice. Aust. Occup. Ther. J. 2014;61(4):249–58.

- Kuhn JC, Carter AS. (2006). Maternal self-efficacy and associated parenting cognitions among mothers of children with autism. Am J Orthopsychiatry. 2006;76(4):564–75.
- Lovaas OI, Koegel R, Simmons JQ, Long JS. (2009). Some generalization and follow-up measures on autistic children in behavior therapy. J. Appl. Behav. Anal. 1973;6(1): 131–65.
- Maryam Sadegi, Zeynab Khanjani. (2016). Comparing semi-autistic traits in parents of children with autism spectrum disorder and normal children's parents. International Journal of Pharmaceutical Research & Allied Sciences. 7(2), 124-128.
- Mohammadi F, Rakhshan M, Molazem Z, Zareh N. (2018). Parental competence among parents with autistic children: A qualitative study. Nurs. Midwifery Stud. 2018;7(4):168–73.
- Mohammadi-Zade A, Pooretemad H, Maleck-Khosravi G. (2005). The primary examination of effect of guided imagination by music on reduction of depression, anxiety, & stress in mothers with autistic children. J. Res. Fam. 2005;2(3):289–92.
- Myers BJ, Mackintosh VH, Goin-Kochel RP. (2009). "My greatest joy and my greatest heart ache:" Parents' own words on how having a child in the autism spectrum has affected their lives and their families' lives. Res. Autism Spectr. Disord. 2009;3(3):670–684.
- Must A, Phillips S, Curtin C, Bandini LG. (2015). Barriers to physical activity in children with autism spectrum disorders: relationship to physical activity and screen time. J Phys Act Health. 2015;12(4):529–534.Google Scholar
- Olsson MB, Hwang CP. (2001). Depression in mothers and fathers of children with intellectual disability. J Intellect Disabil Res. 2001;45:535-43
- Peres JF, Moreira-Almeida A, Nasello AG, Koenig HG. (2007). Spirituality and resilience in trauma victims. J. Religion Health. 2007;46(3):343–50.
- Rais D. M, Kamli M, Tabatabainya M, Shafarudi N. (2009). Journey with parents of children with

Volume 2, Issue 4, 2024

disabilities: from diagnosis to coping. Rehabilitation. 2009;10(1):42–51.

- Rao PA, Beidel DC. (2009). The impact of children with high-functioning autism on parental stress, sibling adjustment, and family functioning. Behav Modif. 2009;33:437–51.
- Rezendes DL, Scarpa A. (2011). Associations between parental anxiety/depression and child behavior problems related to autism spectrum disorders: The roles of parenting stress and parenting self-efficacy. Autism Res. Treat. 1(2), 53-61.
- Rodriguez JR, Geffken GR, Morgan SB. (1993).
  Perceived competence and behavioral adjustment of siblings of children with autism.
  J. Autism Dev. Disord. 1993;23(4):665–74.
- Ruiz Calzada L, Pistrang N, Mandy WPL. (2012). High-functioning autism and Asperger's disorder: Utility and meaning for families. J Autism Dev Disord. 2012;42:230–43.
- Safe A, Joosten A, Molineux M. (2012). The experiences of mothers of children with autism: Managing multiple roles. J. Intellect. Dev. Disabil. 2012;37(4):294–302.
- Smith LE, Hong J, Seltzer MM, Greenberg JS, Almeida DM, Bishop SL. (2010). Daily experiences among mothers of adolescents and adults with autism spectrum disorder. J. Autism. Dev. Disord. 2010;40(2):167–78.
- Smith LE, Hong J, Seltzer MM, Greenberg JS, Almeida DM, Bishop SL. (2010). Daily experiences among mothers of adolescents and adults with autism spectrum disorder. J. Autism. Dev. Disord. 2010;40(2):167–78.
- Stuart M, McGrew J. H. (2009). Caregiver burden after receiving a diagnosis of an autism

ISSN: (E) 3007-1917 (P) 3007-1909

spectrum disorder. Res. Autism Spectr. Disord. 2009;3:86–97.

- Shin H, Park YJ, Ryu H, Seomun G. (2008). Maternal sensitivity: A concept analysis. J Adv Nurs. 2008;64(3):304–14.
- Tarkka MT. (2003). Predictors of maternal competence by first-time mothers when the child is 8 months old. J. Adv. Nurs. 2003;41(3):233–40.
- Ting V, Weiss JA. (2017). Emotion Regulation and Parent Co-Regulation in Children with Autism Spectrum Disorder. J Autism Dev Disord. 130(1), 39-45. doi:10.1542
- Teti DM, Gelfand DM. (2000). Behavioral competence among mothers of infants in the first year: the mediational role of maternal self-efficacy. Child Dev. 1991;62(5):918–29.
- Text revision. 4th ed. Washington D.C: American Psychiatric Association Press; 2000. American Psychiatric Association. Diagnostic and statistical manual of mental disorders.
- Tomislav Benjak, Gorka Vuletić Mavrinac, Ivana Pavic Simetin.(2009). Comparative Study on Self perceived Health of Parents of Children with Autism Spectrum Disorders and Parents of Nondisabled Children in Croatia. Croatian National Institute of Public Health, Zagreb, and Croatia.
- Totsika V, Hastings RP, Emerson E, Lancaster GA, Berridge DM.(2011). A population- based investigation of behavioural and emotional problems and maternal mental health: associations with autism spectrum disorder and intellectual disability. J Child Psychol Psychiatry.52:91–9.
- Valloze J.(2009). Competence: a concept analysis. Teach. Learn. Nurs.4(4):115–18.