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Article

Positive Parenting as a Moderator of the Association Between Alexithymia and Adolescent Aggression

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Abstract: The present study aimed to examine the moderating role of positive parenting in the relationship between alexithymia and aggression among students. This descriptive-correlational study was conducted on students in Khorramabad city during the 2023-2024 academic year. A total of 155 participants were selected using a multi-stage cluster sampling method. Data collection tools included the Toronto Alexithymia Scale (TAS-20), the Anger and Aggression Scale by Neislon et al. (2000), and the Alabama Parenting Questionnaire (1991). Data were analyzed using Pearson's correlation coefficient and hierarchical regression analysis. The results revealed a significant relationship between alexithymia and aggression tendencies among students. Additionally, positive parenting played a moderating role in the relationship between alexithymia and aggression tendencies. Based on the findings, alexithymia significantly increases students' tendency toward aggression. High levels of positive parenting can mitigate the negative effects of alexithymia, whereas low levels of positive parenting may exacerbate these effects.

Keywords: aggression; alexithymia; adolescents; positive parenting

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1. Introduction

Young human resources are a valuable asset for any society. Therefore, efforts to ensure mental health to develop an efficient workforce are among the primary topics of public health (Khezayi et al., 2023). One of the multiple factors threatening the mental health of youth and adolescents is aggression. In literary culture, aggression is defined as behavior aimed at harming others (Kilgore et al., 2021). This behavior is among the most common and costly behaviors (Krizan & Herlache, 2016). Aggression is recognized as one of the most prevalent behavioral problems during adolescence (Chen et al., 2020). According to a UNESCO survey, 32% of students experience physical violence (a type of aggression) annually, and this rate is increasing every year (Li et al., 2023). Aggressive behavior not only significantly spreads among peers (Rutger et al., 2021) but is also transmitted from one generation to the next (Oei et al., 2023), causing damage to various aspects of individuals' lives, including career advancement (Moon et al., 2019; López & Extremera, 2021) and physical and mental health (Aguero, 2021). If individuals fail to manage this destructive characteristic, it can become the

most expensive issue in mental health, burdening society through consequences such as delinquency and property damage (Young et al., 2019). Researchers have emphasized the importance of controlling and reducing aggression rates. To explore the various causes of aggression and methods for its control, scholars have studied different developmental stages and found that adolescence is a period marked by significant transformations in various areas. During this phase, individuals develop temperamental differences, such as reactions to the environment and the ability to control these responses (Kostarica, 2019). These characteristics predict a significant portion of an individual's psychological adjustment (or maladjustment) and related vulnerabilities (Motahharnejad et al., 2021). These temperamental traits can either increase vulnerability to or protect against psychopathology (Nelson et al., 2019).

Neurobiological studies define alexithymia as the inability to differentiate between personal emotions and bodily sensations, a term first introduced by Sifneos (1973) (Falahatgar et al., 2023). Alexithymia is a multifaceted construct that is not considered a disorder but rather a personality trait. It manifests as difficulties in identifying and differentiating emotions from bodily sensations, describing emotions, a lack of imaginative and emotional inner life, outward-focused thinking, and avoidance of addressing serious conflicts (Çalah & Ayçe, 2017). In essence, alexithymia includes difficulties in recognizing emotions, expressing and describing emotions, and an external focus of thought. These traits reflect deficiencies in emotional regulation and cognitive processing (Davoodi-Boroujerd et al., 2023). Individuals with alexithymia often exhibit external behaviors, such as anger, violence, or other physical reactions, instead of employing internal mechanisms for emotional management (Hemel et al., 2024). Among children and adolescents, alexithymia is associated with externalizing behavioral problems (Manarini et al., 2016; Karukivi et al., 2010). Taylor et al. (1991) hypothesized that individuals with alexithymia might have a limited capacity for cognitively processing their emotions, leading to emotional suppression. Low emotional awareness (a component of alexithymia) is linked to the relationship between exposure to violence and psychological pathology (e.g., internalizing and externalizing problems) during adolescence (Weissman et al., 2020). In adulthood, alexithymia mediates relationships involving maltreatment, risky sexual behaviors (Hahn et al., 2015), impulsivity (Gaher et al., 2013), self-injurious behaviors (Paivio & McCulloch, 2004), and suicidal behaviors (Chen et al., 2020). The inability to comprehend and express emotions leads individuals to manifest negative feelings through negative social behaviors. In other words, the inability to regulate or express emotions can result in antisocial and aggressive behaviors (Hemel et al., 2024).

Research has also shown that in addition to the impact of alexithymia on students' tendency toward aggression, one effective way to reduce such behaviors is positive parenting. Positive parenting is an educational approach based on fostering a loving and empathetic relationship between parents and children. In other words, this method emphasizes encouraging positive behaviors, strengthening effective communication, and nurturing children's social, emotional, and cognitive abilities (Neppl et al., 2020).

Some key principles of positive parenting emotional and psychological needs (Prime et al., 2023). For example, Rahman et al. (2023) demonstrated that affectionate and supportive parenting methods can play a significant role in reducing destructive behaviors, aggression, and more in children.

Parents who help their children recognize and manage their emotions equip them with skills to cope with stressful situations (van Capellan et al., 2023). Positive parenting also fosters social skills such as empathy and cooperation, which can serve as alternatives to aggressive behaviors (Rahayu & Nurhayati, 2023). In summary, positive parenting employs strategies like encouraging emotional expression (Yang et al., 2022), teaching problem-solving skills, and responding appropriately to aggressive behaviors, all of which are effective in reducing aggression (Radmacher et al., 2023).

Parenting styles can have a direct impact on children's emotional development. Parents who adopt positive parenting styles create a secure and supportive environment, helping their children recognize and express their emotions (Barberis et al., 2022). Parents who listen to their children's emotions and encourage them to express themselves can prevent alexithymia in their children

(Küçükoglu, 2024). Similarly, parents who clearly express their own emotions and manage their feelings in various situations serve as positive role models for their children (Tark Ladani & Aghababaei, 2022). In contrast, strict, inattentive, or neglectful parenting styles may contribute to the development of alexithymia in children. These children may grow up in environments where their emotions are either dismissed or criticized, hindering their emotional growth (Jansen et al., 2021). Positive parenting directly impacts the reduction of children's aggressive behaviors by focusing on creating a warm and supportive relationship with them, rather than resorting to punishment or coercion. It aims to enhance self-esteem, reduce behavioral problems, and develop social and emotional skills (Yang et al., 2022).

Therefore, it can be expected that individuals raised under positive parenting are less prone to alexithymia and aggression compared to those who lack such parenting. Ultimately, positive parenting may serve as a moderator in the relationship between alexithymia and the tendency toward aggression during this sensitive developmental period. Given the above considerations, the present study aims to investigate the moderating role of positive parenting in the relationship between alexithymia and the tendency toward aggression in students and adolescents.

2. Materials and Methods

1.1. Study Design and Participants

The present study employed a descriptive-correlational research design. The statistical population included middle school students (grades 7–9) in Khorramabad city during the 2023–2024 academic year. The sample size was determined using Cochran's formula, and 151 students were selected through multistage cluster sampling. Specifically, one educational district was randomly chosen from two districts, five schools were randomly selected from the chosen district, and 10 classes were then randomly selected from these schools. From the students in the selected classes, participants meeting the inclusion criteria were chosen. The inclusion criteria included: an age range of 12 to 15 years, willingness to participate, and the absence of psychiatric disorders or medication use. The exclusion criteria included unwillingness to cooperate or incomplete questionnaire responses. Ethical principles were strictly adhered to in this study, including confidentiality and respect for participants' privacy. The data were analyzed using moderated hierarchical regression in SPSS26.

1.1. Measures

Toronto Alexithymia Scale (TAS-20)

The Toronto Alexithymia Scale is a 20-item questionnaire with three subscales: difficulty identifying feelings, difficulty describing feelings, and externally oriented thinking. The questionnaire is scored using a 5-point Likert scale ranging from "strongly disagree" to "strongly agree." Items 1, 3, 6, 7, 9, 13, and 14 assess difficulty identifying feelings; items 2, 4, 11, 12, and 17 assess difficulty describing feelings; and items 5, 8, 10, 15, 16, 18, 19, and 20 assess externally oriented thinking. Scoring follows the Likert method: a score of 1 is assigned to "strongly disagree," and a score of 5 to "strongly agree." Items 4, 5, 10, 18, and 19 are reverse-scored, where "strongly disagree" receives a score of 5, and "strongly agree" receives a score of 1. Higher scores on the subscales indicate greater difficulty in recognizing and expressing emotions. The psychometric properties of the TAS-20 have been validated in numerous studies. Basharat and Ganji (2012) calculated Cronbach's alpha coefficients of 0.85 for the total scale, 0.82 for difficulty identifying feelings, 0.75 for difficulty describing feelings, and 0.72 for externally oriented thinking, demonstrating good internal consistency.

1.1.1. Anger and Aggression Scale

The Anger and Aggression Scale, developed by Nelson et al. (2000), is a 13-item self-report instrument. It evaluates various situations that lead to anger, the intensity of anger, and social skills in children aged 6 to 16 years. This questionnaire consists of four subscales: frustration, physical aggression, peer relationships, and authority relationships. Scoring is based on a 3-point Likert scale: "I don't care," "It bothers me," and "I get really upset and angry." The minimum possible score is 13, and the maximum is 39. To assess the validity and reliability of this scale, it was administered to 1,604 students. Results indicated test-retest reliability coefficients ranging from 0.65 to 0.75, internal consistency ranging from 0.85 to 0.86, and construct validity of 0.93 for the four subscales (Zibaei et al., 2013).

1.1.1. Alabama Parenting Questionnaire (APQ)

The Alabama Parenting Questionnaire (APQ) was developed by Frick in 1991. This questionnaire includes 42 items across five subscales and uses a 5-point Likert scale for scoring. Responses range from "never" (scored as 1) to "always" (scored as 5). To calculate the score for each subscale, the total score for its items is divided by the number of items to derive an average score. The five domains assessed by the APQ include: Parental Involvement: Items 1, 4, 7, 9, 11, 14, 15, 20, 23, and 26 Positive Parenting: Items 2, 5, 13, 16, 18, and 27 Inconsistent Discipline: Items 3, 8, 12, 22, 25, and 31 Poor Monitoring/Supervision: Items 6, 10, 17, 19, 21, 24, 28, 29, 30, and 32 Corporal Punishment: Items 33, 35, and 39 Samani (2011) assessed the construct validity of the APQ through factor analysis, which indicated suitable construct validity. The average correlation coefficients among the factors were 0.71, and the average correlation between the factors and the total APQ score was 0.55. Samani also reported Cronbach's alpha reliability and test-retest reliability as 0.86, demonstrating strong psychometric properties for the scale in Iran.

1.1. Data Analysis

Data were analyzed using the modified hierarchical regression method in SPSS26 software.

3. Results

Descriptive statistics of the studied variables are presented in Table 1.

Table 1. Correlation Coefficients for Variables.

Variables	1	2	3
1. Alexithymia	-		
2. Positive Parenting	-.421**	-	
3. Aggression	.603**	-.383**	-

P<0.01.

The Kolmogorov-Smirnov test was employed to assess the normality of the data distribution. Since the Kolmogorov-Smirnov statistic yielded a value greater than 0.05, the test results indicated a lack of significance, confirming the normality of the data distribution. Based on the research hypotheses, Pearson's correlation coefficient test was used to examine the relationships between alexithymia, positive parenting, and aggression. The results of the analysis are presented in Table 2.

Table 2. Means, Standard Deviations for Variables.

Variable	Mean	SD
1. Alexithymia	68.522	14.361
2. Positive Parenting	48.645	21.184
3. Aggression	69.395	12.279

The results in Table 2 indicate that there is a significant correlation among all research variables. Additionally, to examine the moderating role of the variable positive parenting in the relationship between alexithymia and aggression, hierarchical regression analysis was employed. The results of this analysis are presented in Table 3.

Table 3. Fit Indices for the Measurement Model.

Steps	B	Beta	R	R ²	ΔR ²	R Square Change	F Change	P
1. Alexithymia	.603	.603	.603	.364	.360	.364	87.591	.000
2. Positive Parenting	-.157	-.157	.620	.384	.376	.020	5.036	.026
3. Positive Parenting × Alexithymia	-.218	-.205	.650	.423	.412	.039	10.116	.002

As shown in Table 3, the R² change test is significant. The values for emotional Alexithymia and positive parenting are 0.364 and 0.384, respectively. In the next step, with the inclusion of the interaction between the two variables, this value increases to 0.423, which is still significant. Therefore, positive parenting plays a moderating role in the relationship between emotional dysregulation and aggression tendencies. Based on the increase in the explained variance of aggression tendencies due to the inclusion of the interaction variable between emotional dysregulation and positive parenting, it can be concluded that positive parenting is capable of moderating the relationship between these two variables. In other words, emotional dysregulation and aggression tendencies differ at high and low levels of positive parenting. To clarify the nature of the moderating effect, the interaction plot was drawn using standardized regression coefficients, and the regression lines for high and low levels of positive parenting were plotted.

Figure 1 illustrates the interaction between emotional dysregulation and positive parenting in relation to aggression tendencies.

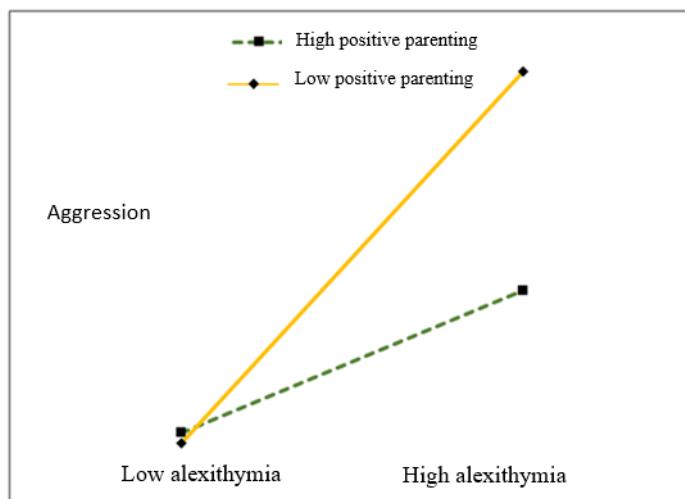


Figure 1. Interactive effects of emotional alexithymia and positive parenting in predicting aggression tendencies.

As shown in Figure 1, aggression tendencies are at their highest for individuals with high emotional dysregulation and low positive parenting, and at their lowest for individuals with low emotional dysregulation and high positive parenting. Additionally, it is noticeable that high emotional dysregulation, when paired with low positive parenting, is associated with higher aggression tendencies compared to when it is paired with high positive parenting. Similarly, low

emotional dysregulation, when combined with high positive parenting, is associated with lower aggression tendencies compared to when it is paired with low-positive parenting. Therefore, positive parenting plays a moderating role in the relationship between emotional dysregulation and aggression tendencies.

4. Discussion

This study aimed to examine the moderating role of positive parenting in the relationship between emotional dysregulation and aggression tendencies in adolescents. The results of the study revealed a significant positive relationship between emotional dysregulation and aggression tendencies, meaning that the higher the level of emotional dysregulation, the greater the tendency for aggression in adolescents.

These results are consistent with the findings of Hamel et al. (2024), Falahatgar et al. (2022), and Wiseman et al. (2020). In explaining these results, it should be noted that emotional dysregulation and aggression are significantly correlated, and this relationship is strengthened through mechanisms such as the inability to regulate emotions, decreased empathy, and chronic stress (Ahmadi Malayeri et al., 2022). However, with appropriate interventions, this vicious cycle can be broken, which could help improve social relationships and reduce aggressive behaviors (Chen et al., 2020). In summary, it has been stated that, among children and adolescents, emotional dysregulation is indeed associated with behavioral problems such as aggression (Mannarini et al., 2016; Karukivi et al., 2010).

In another part of the study, the results of hierarchical regression analysis showed that positive parenting plays a moderating role in the relationship between emotional dysregulation and aggression tendencies. In other words, the relationship between emotional dysregulation and aggression tendencies differs at high and low levels of positive parenting; specifically, a high level of positive parenting can reduce the relationship, while a low level of positive parenting can increase this relationship. The results of the present study are consistent with the findings of Yang et al. (2022), Rahman et al. (2023), Rahayu and Nourhiati (2023), and Kucukoglu (2024). In explaining the results of the studies, it has been briefly stated that positive parenting can be related to reduced aggression in children, in such a way that positive parenting, by helping children learn emotion regulation skills, allows them to use more peaceful methods instead of aggressive reactions in stressful or anger-inducing situations (Jansen et al., 2021). Furthermore, positive parenting, by modeling non-aggressive behaviors and strengthening emotional connections, helps children adopt healthier behavioral patterns. Ultimately, the presence of supportive and responsive parents increases the child's sense of psychological security and reduces the likelihood of aggressive behaviors (Tark Ladani and Aqababai, 2022). As a result, positive parenting has a significant impact on reducing aggressive behaviors. Additionally, as mentioned, parenting styles play a significant role in the emotional development of children. According to the findings of Barberis et al. (2022), parents using positive parenting methods help their children identify and express their emotions by creating a safe and supportive environment. Similarly, Kucukoglu's (2024) research shows that parents who attend to their children's emotions and encourage them to express their feelings can prevent the development of emotional dysregulation in children. Every study has limitations, and the present study is no exception. Some of the limitations of this study include individual differences among participants, such as their level of motivation and interest in the subject, which may have influenced the results. Moreover, the self-report instruments used in this study have limitations, such as social desirability bias, which may have impacted the accuracy of the collected data.

5. Conclusions

Furthermore, this study was conducted with students from the city of Khorramabad, so generalizing the results to other populations should be done with caution. Despite these limitations, the findings of the study showed that positive parenting plays a key role in reducing adolescents'

tendencies toward aggression. Therefore, teaching skills related to positive parenting can help adolescents improve their relationships with parents and manage their behavioral self-regulation during adolescence, thereby reducing the likelihood of aggressive behaviors. These findings may have practical applications for child, adolescent, and family counselors and psychologists.

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Informed Consent Statement: We affirm that this work is original and has not been published elsewhere, except as noted in the manuscript.

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