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Research Paper

Role of Mothers' Personality Traits and Parenting Styles in Prediction of Behavioral Problems in Adolescent Girls with the Mediation of Family Emotional Climate

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ABSTRACT

Objective: This study aimed to investigate the influence of mothers' personality traits and parenting styles on behavioral problems in adolescent girls, mediated by the family's emotional climate.

Methods: The sample consisted of 150 participants selected via multi-stage cluster random sampling from schools. Data were gathered using the Quay Revised Behavior Problem Checklist (RBPC), NEO Personality Inventory, Baumrind's Parenting Styles Questionnaire and Hillburn Family Emotional Climate Questionnaire. Analysis was performed using Smart PLS-3.

Results: Findings revealed that among personality traits, openness positively impacted family emotional climate, while the assertive parenting style also enhanced it. In contrast, the authoritarian style had a negative effect. Conscientiousness and extraversion negatively affected behavioral problems, while openness positively influenced them. Additionally, the family emotional climate negatively impacted behavioral issues. However, the indirect effect of personality traits and parenting styles on behavioral problems via family emotional climate was not significant.

Conclusion: These insights can aid in improving family emotional climate and addressing behavioral challenges in adolescent girls by focusing on mothers' personality traits and parenting approaches.

1. Introduction

Adolescent girls are at a stage in life characterized by numerous physical, psychological, and social changes. These changes can present various psychological challenges (Nooripour et al., 2022). Adolescence is a critical period for girls as their personal and social identities are being shaped. The need for greater independence, coping with peer pressure, and adapting

to familial and societal expectations can all act as sources of stress. During this phase, adolescents may encounter psychological issues such as anxiety, depression, academic pressures, and body image concerns, all of which may lead to risky behaviors or, more broadly, behavioral problems (Hosseinian & Nooripour, 2019). Behavioral problems result from

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the interaction between environmental stressors and individual sensitivities, and the roots of these problems can often be traced back to the nature of parent-child relationships. Parents, being the closest individuals to children during their formative years, have a profound influence on their behavior, and certain parental interactions may contribute to the development of behavioral problems (Pang et al., 2023). Evidence suggests that issues faced by children originate within the family. As children interact with their parents from the moment they are born, and parents shape their emotions and thoughts in every aspect, it is evident that if parents face physical and mental challenges, they cannot serve as effective role models for their children. Their offspring, consequently, will lead to numerous issues in their natural growth (Ahmadi et al., 2022; Nadi Yazdi et al., 2023). In adolescents, behavioral problems typically manifest as aggression, school truancy, defiance, and other forms of antisocial behavior. These issues not only affect the quality of life for adolescents but can also disrupt family relationships, academic performance, and social

interactions. Understanding and managing behavioral problems requires identifying the contributing and underlying factors (Nooripour et al., 2023). Given the strong bond between adolescents and their mothers, it can be argued that one of the key factors influencing behavioral problems in adolescent girls is the personality traits of their mothers. Personality traits can broadly be defined as enduring patterns of thought, emotion, and behavior that reflect individual differences and are perceived as stable characteristics (Nooripour et al., 2023). One of the most comprehensive theories of personality is the Costa and McCrae (1992 Five-Factor Model, which refers to a hierarchical set of traits that represent individual differences across five broad and distinguishable domains, reflecting personal characteristics (McCrae & John, 1992).

Neuroticism refers to the degree of negative emotions an individual experiences; extraversion pertains to the extent to which a person seeks social engagement, positive emotions, and high activity levels. Openness to experience reflects an individual's openness to creativity, new ideas, and diverse thoughts. Agreeableness signifies individual differences in cooperation and social harmony and is associated with tendencies toward growth, altruism, trust, and friendliness. Conscientiousness represents the will to achieve goals, self-control, perseverance, and dependability. Therefore, weaknesses in any positive traits and an increase in negative traits, such as neuroticism, can heighten an individual's anxiety sensitivity (Batool et al., 2023).

Overall, a mother's personality, such as the level of stress, anxiety, depression, and parenting styles, can profoundly

influence adolescent behavior and psychological states. Mothers struggling with psychological problems may not be able to provide the emotional support and guidance their children need, which can lead to the emergence or exacerbation of behavioral problems in adolescent girls. Thus, addressing and improving mothers' mental health is critical for preventing and managing behavioral problems in adolescent girls (Singh, 2023). In addition to maternal personality traits, research identified parenting styles as another factor influencing adolescent behavior. Parenting styles refer to a combination of attitudes, values, beliefs, and general approaches that parents use to raise and socialize their children, creating an emotional environment conducive to child development (Zhang & Wang, 2023). The three widely recognized parenting styles in psychology are authoritative, permissive, and authoritarian. Each style can have varying effects on adolescent behavior. For instance, authoritative parenting, a balance of warmth and appropriate control, typically leads to more positive behaviors and fewer behavioral problems in adolescents. Conversely, authoritarian parenting, characterized by rigid control without warmth, may result in increased aggressive behaviors and behavioral issues. Similarly, permissive parenting, which involves minimal control and supervision, can lead to behavioral problems such as defiance, indiscipline, and emotional regulation difficulties.

A key premise of Bowlby's attachment theory is that physical or emotional stressors automatically trigger the childhood attachment pattern in adults. When triggered, based on an individual's attachment style, one seeks out safety and availability (Ayadi et al., 2024). Thus, parenting styles directly and indirectly affect adolescent behavioral problems, and choosing the appropriate style can help prevent such issues (Luo et al., 2023). A mother's personality traits and parenting styles can significantly impact the family's emotional climate. Mothers with positive personality traits such as extraversion, agreeableness, and conscientiousness tend to adopt authoritative and supportive parenting styles. These mothers foster a warm and welcoming environment, establishing a positive and healthy emotional climate within the family. On the other hand, mothers with negative personality traits such as neuroticism may gravitate towards authoritarian or neglectful parenting styles, which can contribute to a negative emotional climate in the family (Mader et al., 2023). On the other hand, the family's emotional climate plays a crucial role in shaping adolescents' behaviors. Research demonstrated that the emotional climate of the family is one of the most influential factors in enhancing the quality of life and psychological characteristics of children.

This relationship can be examined indirectly through the emotional climate of the family. The family's emotional climate encompasses a set of beliefs, attitudes, and relational dynamics within the family environment, including security, encouragement, affirmation, and shared experiences among couples, parents with children, and siblings (Dayton et al., 2023). The emotional climate of the family, in turn, helps reduce behavioral problems such as aggression, defiance, and anxiety in adolescents. Conversely, a negative and unhealthy emotional climate can lead to increased behavioral problems in adolescents. Adolescents growing up in emotionally unhealthy environments may face feelings of worthlessness, anxiety, and anger, which can result in undesirable behaviors and psychological issues. Therefore, creating and maintaining a healthy emotional climate within the family is of paramount importance and can help prevent behavioral problems in adolescents (Lin & Muenks, 2024).

The initial social group that humans develop is the family, where various factors significantly contribute to children's growth compared to other influences. Specifically, parents' understanding of psychological nurturing techniques within the family plays a crucial role. The nurturing approach of parents influences the personality development of their children and their ability to adapt to various social situations (Mikaeili & Salmani, 2021). This study examines how personality factors and parenting styles affect adolescent behaviors. Specifically, it seeks to understand how mothers' personality traits and their parenting styles can influence their adolescent daughters' behaviors. In particular, the study aims to investigate how the family's emotional climate, as a mediator, might moderate or amplify these effects. The family's emotional climate has been selected as a mediator because the prevailing emotional environment within the family plays a vital role in adolescents' psychological and behavioral development (Ardakani et al., 2023). This climate can either enhance or diminish the positive or negative effects of personality traits and parenting styles. Indeed, the family's emotional climate can serve as a mediator between parenting practices and adolescents' behavioral responses. If the family climate is supportive and positive, adolescents may better manage behavioral challenges and be shielded from the negative impacts of certain parenting styles. The necessity of addressing behavioral problems in adolescent girls stems from the fact that these issues can have long-term and serious effects on their future lives. Behavioral problems during adolescence can lead to further issues in adulthood, such as difficulties in communication, academic

performance, and even employment. Thus, identifying factors that can either exacerbate or prevent these problems is of special importance. This research responds to concerns and gaps in the field of family psychology and education. Given the rapid social and cultural changes, parents may face new challenges in raising their children. This study aims to provide a scientific and precise perspective to help parents and counselors find effective strategies to reduce adolescent behavioral problems and improve the family's emotional climate. Such research can contribute to the development of effective educational and intervention programs for parents and adolescents to better address the challenges of adolescence. For example, a research showed role of positive parenting in children's emotional-social adjustment (Erwin & Frey, 2023), another research showed impact of parenting styles on emotion regulation and behavioral problems in children (Gniewosz et al., 2022), and also research literature supported on relationship between parental functioning and children's behavioral disorders and relationship between parents' personality traits and adolescents' behavioral problems (Fosco et al., 2023; Granger et al., 2023). The researcher believes that this study can help parents, counselors, and professionals design more effective programs for preventing and managing behavioral problems in adolescent girls by gaining a better understanding of these complex relationships. Therefore, this research aims to answer the question: Does the family's emotional climate mediate the relationship between mothers' personality traits, parenting styles, and behavioral problems in adolescent girls?

2. Materials and Methods

This study was descriptive-correlational research using Structural Equation Modeling (SEM). The statistical population of this research includes all students enrolled at the secondary school level in Zahedan during the first semester of the 2023-2024 academic year. To estimate the sample size, the formula proposed by Tabachnick and Fidell in 2007 was used (Tabachnick & Fidell, 2007). According to this formula, the minimum sample size in correlational studies is calculated using the equation 10m+50<n, where n represents the sample size, m is a constant number ranging from 5 to 15, and mmm denotes the number of predictor variables. Based on this, sample size was determined as follows: 130=50+(8×10) where there are 5 variables for personality traits (neuroticism, extraversion, openness to experience, conscientiousness, and agreeableness), 3 variables for parenting styles (permissive, authoritarian, and authoritative), and 1 variable for the emotional climate of the family.

Considering a 15% attrition rate, the final sample size was set at 150 participants. Sampling was conducted using a multi-stage cluster random sampling method. For this purpose, 3 schools from among all the schools at the secondary school level in Zahedan city were randomly selected. Subsequently, 6 classes from each selected school were randomly chosen, resulting in a total of 18 classes. In the final stage, 10 students were randomly selected from each class to form the statistical sample. Thus, 180 questionnaires were collected, of which 150 complete and valid responses were analyzed after screening based on inclusion and exclusion criteria. The inclusion criteria for the sample were: enrollment at the secondary school level, age between 13 and 18 years, and willingness of both the student and their parents to participate in the study. The exclusion criteria included: history of a debilitating physical illness, diagnosed psychological disorders, substance abuse, alcohol or use of psychoactive drugs by parents, concurrent participation in psychotherapy or psychological intervention classes, and incomplete responses to the questionnaire.

To safeguard the rights of participants and ensure their privacy and dignity, the following ethical considerations were observed: maintaining scientific integrity and honesty, ensuring anonymity of questionnaires and confidentiality of participants, voluntary and informed participation, protection of participants from any psychological harm, and no financial burden for participation. Participants were also informed that the results would be interpreted upon request.

Revised Behavior Problem Checklist (RBPC): The Revised Behavioral Problem Checklist by Quay in 1983 contains 88 items and aims to assess behavioral problems in children and adolescents aged 5 to 18 (Quay, 1983). Parents who complete this questionnaire are wellacquainted with individuals in this age range. The questionnaire evaluates behavioral issues related to conduct, attention, aggression, and anxiety. Scoring is based on three values: zero, one, and two. A score of two is assigned to behaviors observed as severe, a score of one is given to less severe problems, and a score of zero indicates the absence of behavioral problems. The maximum score for each subscale is twice the number of items in that subscale, while the minimum score is zero. The range of individual scores varies from zero to 176. The developer reported acceptable criterion validity for this checklist, with test-retest reliability ranging from 0.49 to 0.83 and internal consistency ranging from 0.73 to 0.94 for six subscales (Quay, 1983). In Iran, the validity of the Revised Behavioral Problem Checklist was demonstrated through item-total correlations and factor analysis (Yousefi et al., 2015). Factor analysis with

principal components and subsequent varimax rotation revealed four factors with eigenvalues greater than one. The reliability coefficient for the questionnaire, using Cronbach's alpha, was reported as 0.98.

The Revised NEO Personality Inventory (RNEOPI): The Revised NEO Personality Inventory, created by Costa and McCrae in 1992, is a self-report questionnaire designed to measure the Big Five personality traits (Costa & McCrae, 1992). The short form of this questionnaire consists of 60 items, with 12 items each measuring one of the five major personality dimensions. The Revised NEO Personality Inventory assesses personality traits based on the well-known Five-Factor Model, including neuroticism, extraversion, openness to experience, agreeableness, and conscientiousness. Scoring is based on a Likert scale, with responses ranging from 1 to 5. Each dimension is scored separately, resulting in five scores corresponding to the five personality traits. Reliability coefficients for this test have been reported between 0.73 and 0.81 in various studies (McCrae & Costa, 1997). A Study in Iran assessed the validity of this test against other personality tests, finding correlations of 0.86 with the 16 Personality Factor Questionnaires by Cattell and 0.62 with the California Personality Inventory. A study employed concurrent validity and factor analysis, with Cronbach's alpha reliability coefficients ranging from 0.80 to 0.83 (Jafari et al., 2015). The Parenting Styles Questionnaire (PSQ): The Parenting Styles Questionnaire by Baumrind (1991) was developed to assess different parenting styles, including permissive, authoritarian, and authoritative. This questionnaire comprises 30 items, with 10 each addressing permissive, authoritarian, and authoritative parenting styles. Parents rate their practices using a 5-point Likert scale, with higher scores indicating greater use of the respective parenting style. Reliability coefficients for this questionnaire, as measured by test-retest reliability, were reported as 0.85 for permissive, 0.92 for authoritarian, and 0.81 for authoritative parenting styles (Baumrind, 1991). Baumrind (1991) also reported inverse correlations between authoritarian and permissive styles (r=0.50) and between authoritarian and authoritative styles (r=0.52). The reliability of the questionnaire was additionally assessed by Minaei & Nikzad (2017), who found acceptable validity and reliability, with Cronbach alpha coefficients of 0.62 for permissive, 0.74 for authoritarian, and 0.75 for authoritative parenting styles.

The Family Emotional Climate Questionnaire (FECQ): The Family Emotional Climate Questionnaire, developed by Hill-Burn in 1964 (Frasier et al., 1970). It assesses the level of warmth in parent-child interactions. This questionnaire consists of 16 items, with a 5-point response scale ranging from 1 (very little) to 5 (very much).

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The first response indicates the weakest, and the last indicates the strongest emotional relationship between parent and child from the past to the present. In the study by Cooke et al. (2022), the concurrent validity of this scale was determined using the Hill-Burn Family Emotional Climate Questionnaire, yielding a validity coefficient of 0.6 (Cooke et al., 2022). The overall reliability of this questionnaire in Iran,

assessed with Cronbach's alpha, was .904 (Razi & Asadi Majaeh, 2022).

3. Results

The average age of participants was calculated to be 15.32 years, and their average academic performance was found to be 17.96.

Table 1. Descriptive statistics of the research variables

Variable	N	Mean	SD
Behavioral problems	150	50.64	28.35
Conduct	150	20.52	12.32
Attention	150	20.77	12.54
Aggression	150	2.16	2.30
Anxiety	150	2.21	4.20
Neuroticism	150	36.84	6.82
Extraversion	150	37.86	6.50
Openness	150	36.49	4.69
Responsibility	150	37.96	4.47
Conscientiousness	150	42.12	7.50
Permissive	150	27.26	7.44
Assertive	150	32.08	6.89
Authoritarian	150	28.06	7.30
Family emotional climate	150	59.88	13.00
Father's emotional climate	150	29.76	7.38
Mother's emotional climate	150	30.12	7.02

Table 1 shows the average values and standard deviations of the study variables.

Table 2. Cronbach's Alpha, Composite Cronbach's Alpha, and Average Variance Extracted Values

Variable	Cronbach's Alpha	Composite Cronbach's alpha	AVEV
Behavioral Problems	0.843	0.896	0.686
Agreeableness	0.116	0.241	0.151
Conscientiousness	0.744	0.791	0.273
Extraversion	0.605	0.718	0.234
Neuroticism	0.639	0.664	0.201
Openness	0.174	0.196	0.159
Assertive style	0.753	0.806	0.310
Authoritarian style	0.775	0.821	0.328
Permissive style	0.802	0.849	0.365
Family Emotional Climate	0.774	0.898	0.815

Table 2 presents the Cronbach's alpha, composite reliability, and average variance extracted for the constructs of the model. The reliability and composite reliability values for all constructs in the study, except for agreeableness and openness to experience, were computed to be above 0.6. This indicates acceptable reliability and validity. The average variance extracted (AVE) values, used to assess convergent validity, were found to be above 0.3 for all components of the study. Since standardized questionnaires were used for data collection in Iran, any lack of convergent validity in the sub-constructs can be overlooked, provided there are no issues with the overall model fit.

Structural Model Fit: According to the data analysis algorithm in the PLS method, the structural model fit of the research is evaluated after assessing the measurement models. Unlike measurement models, which focus on the relationships between latent variables and their indicators, the structural model analysis examines the relationships among latent variables. In this section, three criteria are used to evaluate the structural model fit: (a) R² criterion, (b) Stone-Geisser criterion, and (c) Redundancy criterion. Table 3 presents the coefficients of determination, Stone-Geisser values, and redundancy criterion for the model constructs.

Table 3. Stone-Geisser Value, Adjusted R-squared, and Coefficient of Determination for the Model

Variable	sub-scale	$\Delta \mathbf{R^2}$	\mathbb{R}^2	Q^2	Red
Behavioral Pro	oblems -	0.428	0.392	0.463	0.244
Personality Traits	Agreeableness		-	0.017	-
	Conscientiousness		-	0.158	-
	Extraversion		-	0.111	-
	Neuroticism		-	0.065	-
	Openness		-	0.013	-
Parenting Styles	Assertive style		-	0.166	-
	Authoritarian style		-	0.196	-
	Permissive style		-	0.224	-
Family Emotion	nal Climate -	0.338	0.301	0.374	0.171
M	ean	0.383	0.347	0.179	0.208

Values of 0.19, 0.33, and 0.67 are benchmarks for weak, moderate, and strong R², with higher values indicating better model fit. The average $R^2R^{2}R^2$ for the model falls within the moderate range (0.33 to 0.67) and is considered acceptable. Therefore, the predictive power of the model's constructs is adequate. Redundancy Criteria are defined with values of 0.02, 0.15, and 0.35 representing weak, moderate, and strong predictive power, respectively. A Q² value of zero or less for an endogenous construct indicates that the relationships between other constructs in the model and this endogenous construct are not well-explained. The Stone-Geisser Q² value showed that the average predictive power of the model is also within the moderate range (0.15 to 0.35) and acceptable. Therefore, the predictive power of the model's constructs is satisfactory. To evaluate the overall model fit, which includes both the measurement and structural model, the Goodness of Fit (GoF) criterion is computed as follows. First, the average communalities of the model's variables were calculated, resulting in a value of 0.179. The average $R^2R^{^2}R^2$ values for these variables were found to be 0.383. Consequently, the GoF index, calculated using these values, is 0.26. The GoF values of 0.01, 0.25, and 0.36 are considered weak, moderate, and strong. Thus, the GoF value of 0.26 indicates an overall moderate model fit. Hence, the model has a satisfactory fit, and further examination of the relationships within the model can be conducted. Values of 0.19, 0.33, and 0.67 are used as benchmarks for weak, moderate, and strong R², with higher values indicating

better model fit. The average R² for the model falls within the moderate range (0.33 to 0.67) and is considered acceptable. Thus, the predictive power of the model's constructs is satisfactory. The Stone-Geisser Q² and Redundancy Criterion are categorized as weak, moderate, and strong predictive power with values of 0.02, 0.15, and 0.35, respectively. If the Q² value for an endogenous construct is zero or less, it indicates that the relationships between other constructs in the model and this endogenous construct are not well-explained. The Stone-Geisser Q² showed that the average predictive power of the model is also within the moderate range (0.15 to 0.35) and acceptable. Therefore, the predictive power of the model's constructs is satisfactory.

To assess the overall model fit, which incorporates both measurement and structural components, the $Gof = \sqrt{average~Q^2 \times average~R^2}$ criterion is calculated. Based on the given formula, the average values of the variances shared among the model's variables were first calculated, yielding a value of 0.179. The average values of the $R^2R^{^2}R^2$ for these variables were 0.383. Consequently, using the formula, the $Gof = \sqrt{0.179 \times 0.383} = \sqrt{0.0686} = 0.262$ criterion value is 0.26. According to Henseler et al. (2009), values of 0.01, 0.25, and 0.36 are considered weak, moderate, and strong, respectively. Therefore, a GoF value of 0.26 indicates a moderate overall model fit. Thus, the model demonstrates an acceptable level of fit, allowing for further examination of the relationships within the model.

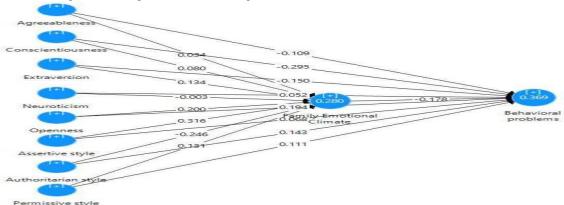


Figure 1. Structural model of the estimated coefficients in the study

Table 4. Summary of the model's direct and indirect coefficients

Pathways	Sub-scales Pathways	Beta	t-value	Sig.
PT -> FEC	A->FEC	-0.034	0.398	0.691
	C->FEC	0.080	0.996	0.320
	E->FEC	0.134	1.402	0.161
	N->FEC	-0.003	0.146	0.884
	O->FEC	0.200	2.735	0.006
PS->FEC	AS->FEC	0.316	3.582	0.001
	AUS->FEC	-0.246	3.136	0.002
	PES->FEC	0.131	1.288	0.198
	A->BP	-0.090	0.360	0.719
DT - DD	C->BP	-0.295	4.202	0.001
PT->BP	E->BP	-0.150	2.170	0.030
	N->BP	0.052	0.655	0.513
	O->BP	0.194	2.644	0.008
PS ->BP	AS->BP	0.068	0.626	0.532
	AUS->BP	0.143	1.730	0.083
	PES->BP	0.111	0.133	0.184
FEC->BP	FEC->BP	-0.178	2.127	0.034
PT-> FEC-> BP	A->FEC->BP	-0.005	0.360	0.719
	C->FEC->BP	-0.014	0.823	0.411
	E->FEC->BP	-0.021	1.088	0.227
	N-> FEC->BP	0.002	0.129	0.897
	O->FEC-> BP	-0.003	1.643	0.101
PS->FEC->BP	AS->FEC->BP	-0.053	1.768	0.078
	AUS->FEC->BP	0.040	1.797	0.073
	PES->FEC->BP	-0.020	1.019	0.309

Note: PT: Personality Traits, FEC: Family Emotional Climate, A: Agreeableness, C: Conscientiousness, E: Extraversion, N: Neuroticism, O: Openness, PS: Parenting styles, AS: Assertive Style, AUS: Authoritarian Style, PES: Permissive Style, BP: Behavioral Problems.

In this model, behavioral problems serve as the dependent variable, while personality traits and parenting styles act as predictor variables. The family emotional climate functions as the mediating variable. A summary of the estimated coefficients for the direct and indirect relationships within the model is presented in Table 4. The results revealed that openness had only a significant positive direct effect on family emotional climate (Beta=0.20, t=2.735, p=0.006). Agreeableness (Beta=-.0034, t=.398, p=0.691), conscientiousness (Beta=0.08, t=0.996, p=0.320), extraversion (Beta=0.134, t=1.402, p=0.161), and neuroticism (Beta=-0.003, t=0.146, p=0.884) had no significant direct effect on family emotional climate, respectively. Among parenting styles sub-scales, assertive style (Beat=0.316, t=3.582, p=0.001) had a significant positive effect on family emotional climate, while authoritarian style (Beat=-0.246, t=3.136, p=0.002) had a significant negative direct effect on family emotional climate. Permissive style (Beat=0.131, t=1.288, p=0.198) had no significant direct effect on family emotional climate. Among personality conscientiousness (Beat=-0.295, t=4.202, p=0.001), and extraversion (Beat=-0.150, t=2.170, p=0.030) had a significant negative direct effect on behavioral problems, but openness (Beat=0.194, t=2.644, p=0.008) had a positive significant direct effect on behavioral problems. Agreeableness (Beat=-0.090,

t=0.360, p=0.719) and neuroticism (Beat=0.052, t=.655, p=0.513) had no significant direct effect on behavioral problems. Sub-scales of parenting styles, namely, assertive style (Beta=0.068, t=0.626, p=0.532), authoritarian style (Beta=0.143, t=1.730, p=0.0873), and permissive style (Beta=0.111, t=0.133, p=0.184), had no significant direct effect on behavioral problems, respectively. Family emotional climate (Beta=-0.178, t=02.127, p=0.034) had a significant negative direct effect on behavioral problems. The results of the study demonstrated that personality traits with the mediation of family emotional climate had not significant indirect effect on behavioral problems, for instance, agreeableness (Beta=-0.005, t=0.360, p=0.719), t=0.823, consciousness (Beta=-0.014, p=0.411), extraversion (Beta=-0.021, t=1.088, p=0.227), neuroticism (Beta=0.002, t=0.129, p=0.897), and openness (Beta=-0.003, t=1.643, p=0.101) had not significant indirect effect through family emotional climate on behavioral problem. Parenting styles with the mediation of family emotional climate had not significant indirect effect on behavioral problems, for instance, assertive style (Beta=-0.053, t=1.768, p=0.078), authoritarian style (Beta=0.040, t=1.797, p=0.073), permissive style (Beta=-0.020, t=1.019, p=0.309) had not significant indirect effect through family emotional climate on behavioral problem.

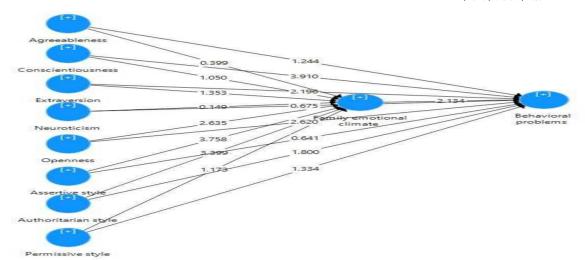


Figure 2. Direct and indirect t-coefficients of the study model

4. Discussion and Conclusion

The results indicated that among the personality traits, only openness had a notable positive direct influence on the family's emotional climate. In contrast, the other traits did not significantly affect the family's emotional climate. Among the various parenting styles, the assertive approach greatly improved the emotional climate of the family, while the authoritarian approach had a significant adverse effect on the family emotional climate. Among personality traits, conscientiousness and extraversion demonstrated a clear negative direct influence on behavioral issues, while openness exhibited a considerable positive direct effect on behavioral problems. The family's emotional atmosphere had a significant adverse direct effect on behavioral issues. The personality characteristics and parenting approaches, influenced by the family emotional atmosphere, did not demonstrate a notable indirect impact on behavioral issues.

The results indicated that the personality traits of agreeableness and extraversion in mothers had a negative impact on behavioral problems in adolescent girls. These findings are consistent with the previous studies (Gjøde et al., 2023; Koutra et al., 2017). Shafiei and Dehghani (2024) demonstrated that there is a significant relationship between maternal personality children's psychological traits and disorders, highlighting the extensive influence of a mother's personality on her child's mental health. Research confirmed that maternal personality traits are related to children's behavioral problems (Clayborne et al., 2023). They also affirmed the relationship between parental personality traits and behavioral issues in adolescents, indicating the stability of this relationship across different cultures and societies. The parental functioning affects children's behavioral disorders, underscoring the importance of parental roles in shaping and managing

children's behaviors. This alignment in findings underscores the broad validation of the results and emphasizes the significance of considering parental personality traits, particularly those of mothers, in predicting and managing children's behavioral problems. The noted negative role of agreeableness in mothers in predicting behavioral problems in adolescent girls suggests that mothers with higher levels of agreeableness have daughters who are less likely to experience behavioral issues. Agreeableness is a key personality trait characterized by a tendency towards cooperation, empathy, and social support. Given that maternal personality traits significantly influence children's behavioral problems (Warrier et al., 2024), it can be inferred that mothers who exhibit high levels of agreeableness are likely to have a greater ability to understand and respond to their children's emotional needs. This ability contributes to creating a supportive and secure environment for adolescents, potentially reducing negative emotions and risky behaviors. According to attachment theory, parental emotional support is a crucial factor in forming secure attachments in children, which helps mitigate behavioral problems (Hajal & Paley, 2020). Research indicates that parental emotional support and empathy directly impact children's emotional regulation and behavioral problems. For example, a study revealed that the relationship between parental functioning and children's behavioral disorders is strongly influenced by parental emotional support (Bolsoni-Silva & Regina Loureiro, 2023). Similarly, research shows that maternal behaviors characterized by high emotional support and empathy lead to a reduction in children's behavioral issues (Haslam et al., 2020). Therefore, high levels of agreeableness in mothers, which foster greater empathy and emotional support, may contribute to a decrease in behavioral problems in adolescent girls.

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The results of this study indicate that the personality trait of conscientiousness in mothers acts as a negative predictor of behavioral problems in adolescent girls. In other words, mothers with high conscientiousness have a greater ability to manage and mitigate problematic behaviors in their children. Research demonstrates that parental personality traits can significantly influence the emergence of behavioral problems in offspring (Mazza et al., 2020).

Conscientiousness, recognized as a positive personality trait, reflects an individual's ability to organize, plan, and execute tasks systematically and precisely. This trait enables mothers to interact more effectively with other family members and within educational and social environments. Such constructive interactions contribute to the development of stronger support networks, which can provide additional resources for managing and reducing behavioral issues in adolescent girls. Overall, maternal conscientiousness can reduce the likelihood of behavioral problems in their daughters, as conscientious mothers generally excel in family management and daily life, thereby creating a stable and orderly environment for their children. This stable environment reduces the exposure of children to psychological and environmental stressors, thereby decreasing the incidence of behavioral problems. Conscientious mothers are more likely to establish stronger family communications and actively participate in the daily and educational aspects of their children's lives, which can enhance their children's sense of security and support. Conversely, a lack of conscientiousness may result in inadequate monitoring and supervision of children's behaviors and activities, potentially leading to increased behavioral problems such as aggression and defiance. Therefore, conscientiousness in mothers plays a crucial role in creating a healthy and supportive environment for their children and can contribute to the reduction of behavioral problems in adolescent girls (Batool et al., 2023).

Other findings indicated that among the various parenting styles, the assertive approach greatly affected the emotional climate of the family. In contrast, the authoritarian approach had a significant adverse effect on the family emotional climate. The authoritative parenting style in mothers positively influences the emotional climate of the family, whereas an authoritarian parenting style negatively affects it. This finding aligns with the previous studies (Haslam et al., 2020; Papadopoulos, 2021; Qiu & Shum, 2022). The findings of previous studies demonstrated a significant relationship between parenting styles and the family's emotional climate. These findings highlight the substantial impact of various parenting styles on the quality and intensity of familial affection and cohesion. A study supported the significant

relationship between parenting styles and the family's emotional climate, indicating that parental behavior and interactions with children directly influence the emotional and psychological atmosphere within the family (Kapetanovic & Skoog, 2021).

In explaining these findings, it is important to note that the authoritative parenting style, one of the three primary parenting styles, is characterized by a combination of warmth and appropriate control. This style is typically associated with more positive behaviors and fewer behavioral problems in adolescents (McKenna et al., 2020). Authoritative parents often exhibit positive traits such as extraversion and agreeableness, which contribute to creating a warm and supportive family environment. By providing emotional support and setting clear boundaries and rules, these parents strengthen feelings of security and trust among family members. Studies have shown that a positive emotional climate in the family is a crucial factor in improving children's quality of life and psychological characteristics (Léger-Goodes et al., 2023). In an environment where parents behave authoritatively and supportively, children experience greater acceptance and respect and are less prone to anxiety and stress. Authoritative parents help their children develop social and emotional skills by creating spaces for dialogue and problem-solving. These skills contribute to maintaining a positive emotional climate within the family. On the other hand, one of the key characteristics of the authoritative parenting style is the appropriate balance between support and control. This balance allows parents to provide emotional support while also establishing rules and boundaries essential for healthy development. This balanced approach of support and control aids in creating a positive emotional climate within the family, as children feel that their parents are attentive to their needs while maintaining clear expectations. Conversely, the findings also reveal that an authoritarian parenting style negatively predicts the emotional climate of the family. The authoritarian style, characterized by strict control and a lack of warmth, is regarded as an undesirable parenting style. This style is associated with more negative behaviors and behavioral problems in adolescents. Authoritarian parents often impose rigid rules and enforce them without regard for their children's needs and feelings. This behavior can create feelings of insecurity and distrust among children, resulting in a more negative emotional climate within the family. Studies have shown that a negative emotional climate in the family is a significant factor in reducing children's quality of life and psychological characteristics (Sheller et al., 2018).

In summary, mothers with high levels of agreeableness and conscientiousness are generally more capable of adopting an authoritative parenting style. This style, characterized

by a blend of warmth and appropriate control, directly contributes to reducing problematic behaviors in children (Pérez Lago et al., 2021). Conscientious mothers, by creating an organized and supportive environment, can provide suitable guidance and monitor their children's daily activities. Due to their ability to set goals and establish structured routines at home, these mothers can play a significant role in reducing stressors and increasing emotional support, ultimately leading to a reduction in behavioral problems in adolescent girls. Thus, it can be concluded that agreeableness and conscientiousness in mothers not only enhance parenting styles and parental supervision but also, by creating a supportive and organized family environment, contribute to reducing behavioral problems in adolescent girls.

5. Ethical Considerations

Compliance with ethical guidelines

This article considered all ethical principles.

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Authors' contributions

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Conflicts of interest

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References:

- Ahmadi, N., Yassini-Ardekani, S., Mirzaei, M., Rismanian-Yazdi, F., Khorshidi, R., Araghi, S., and Mehrparvar, A. (2022). The Role of Personality Disorder and Parental Lifestyle on Mood Disorders in Children and Adolescents. *International Journal of Behavioral Sciences*, 16(1), 49-54. Doi:10.30491/ijbs.2022.318573.1724
- Ardakani, A., Monroe-Lord, L., Wakefield, D., & Castor, C. (2023). Parenting Styles, Food Parenting Practices, Family Meals, and Weight Status of African American Families. *International Journal of Environmental Research and Public Health*, 20(2), 1382. Doi:10.3390/ijerph20021382
- Ayadi, N., Zolghadri, P., Zarein, F. & Ranjbar, M. (2024). The Role of Insecurity in Attachment and Fear of Intimacy in Predicting the Desire for Remarriage in Divorced Women. *Journal of Family Relations Studies*, *4*(15), 1-7. Doi:10.22098/jfrs.2024.13913.1150
- Batool, S. N., Razzaq, K., & Imam, H. (2023). How do action-oriented personality traits impact

- entrepreneurial career choices? A trait-factor theory perspective. Kybernetes, 52(11), 5068–5086. Doi:10.1108/K-04-2022-0498
- Baumrind, D. (1991). The Influence of Parenting Style on Adolescent Competence and Substance Use. The Journal of Early Adolescence, 11(1), 56–95. Doi:10.1177/0272431691111004
- Bolsoni-Silva, A. T., & Loureiro, S. R. (2023). Associations between Sociodemographic and Behavioral Variables, and Educational Practices on Mother-Child Dyads. *Acta Colombiana de Psicología*, 26(2), 11-22. Doi:10.14718/ACP.2023.26.2.2
- Clayborne, Z. M., Nilsen, W., Torvik, F. A., Gustavson, K., Bekkhus, M., Gilman, S. E., Khandaker, G. M., Fell, D. B., & Colman, I. (2023). Prenatal maternal stress, child internalizing and externalizing symptoms, and the moderating role of parenting: findings from the Norwegian mother, father, and child cohort study. *Psychological medicine*, *53*(6), 2437–2447. Doi:10.1017/S0033291721004311
- Cooke, J. E., Deneault, A. A., Devereux, C., Eirich, R., Fearon, R. M. P., & Madigan, S. (2022). Parental sensitivity and child behavioral problems: A meta-analytic review. *Child development*, *93*(5), 1231–1248. Doi:10.1111/cdev.13764
- Costa, P.T., & McCrae, R.R. (1992). Normal Personality
 Assessment in Clinical Practice: The NEO
 Personality Inventory. Psychological Assessment, 4,
 5–13. Doi:10.1037/1040-3590.4.1.5
- Dayton, L., Balaban, A., Scherkoske, M., & Latkin, C. (2023). Family Communication about Climate Change in the United States. *Journal of Prevention*, 44(4), 373–387. Doi:10.1007/s10935-022-00712-0
- Erwin, C. L., & Frey, M. R. (2023). Reconnecting: Positive Discipline Skills to Support Social and Emotional Development in Young Children Affected by COVID-19. *The Journal of Individual Psychology*, 79(2), 121–142. Doi:10.1353/jip.2023.a904855
- Fosco, W. D., Babinski, D. E., & Waschbusch, D. A. (2023). The Disruptive Behavior Disorders Rating Scale: Updated Factor Structure, Measurement Invariance, and National Caregiver Norms. *Journal of Pediatric Psychology*, 48(5), 468–478. Doi:10.1093/jpepsy/jsad006
- Frasier, S. D., Hilburn, J. M., & Smith, F. G. (1970). Effect of adolescence on the serum growth hormone response to hypoglycemia. The Journal of Pediatrics, 77(3), 465–467. Doi:10.1016/s0022-3476(70)80019-1
- Gjøde, I. C. T., Laursen, T. M., Müller, A. D., Ranning, A., Moszkowicz, M., Hemager, N., Speyer, H., Hjorthøj, C., Nordentoft, M., & Thorup, A. A. E. (2024). Association of maternal and paternal personality disorders with risk of mental disorders in children: A nationwide, register-based cohort study of 1,406,965 children. Acta Psychiatrica Scandinavica, 149(3), 195–206. Doi:10.1111/acps.13648

- Gniewosz, G., Katstaller, M., & Gniewosz, B. (2023).
 Adolescents' psychological adjustment during challenging times: The role of mothers', fathers', and adolescents' ratings of parental warmth. Developmental Psychology, 59(1), 112–127.
 Doi:10.1037/dev0001473
- Granger, K. L., Sutherland, K. S., Conroy, M. A., Dear, E., & Morse, A. (2023). Teacher Burnout and Supporting Teachers of Students with Emotional and Behavioral Disorders. *Journal of Emotional and Behavioral Disorders*, 31(2), 144–153. Doi:10.1177/10634266221149970
- Hajal, N. J., & Paley, B. (2020). Parental emotion and emotion regulation: A critical target of study for research and intervention to promote child emotion socialization. Developmental Psychology, 56(3), 403–417. Doi:10.1037/dev0000864
- Haslam, D., Poniman, C., Filus, A., Sumargi, A., & Boediman, L. (2020). Parenting style, child emotion regulation and behavioral problems: The moderating role of cultural values in Australia and Indonesia. *Marriage & Family Review*, 56(4), 320–342. Doi:10.1080/01494929.2020.1712573
- Henseler, J., Ringle, C., & Sinkovics, R. (2009). The Use of Partial Least Squares Path Modeling in International Marketing. *Advance in International Marketing*, 20, 277-319. Doi:10.1108/S1474-7979(2009)0000020014
- Hosseinian, S., & Nooripour, R. (2019). Effectiveness of Mindfulness-Based Intervention on Risky Behaviors, Resilience, and Distress Tolerance in Adolescents. International *Journal of High Risk Behaviors and Addiction*, 8(4), e93481. Doi:10.5812/ijhrba.93481
- Jafari, R., Baziar, M., Bleek, B., Reuter, M., & Montag, C. (2015). Personality attributes of Iranian people who stutter. *Journal of Communication Disorders*, 58, 119–125. Doi:10.1016/j.jcomdis.2015.10.001
- Kapetanovic, S., & Skoog, T. (2021). The Role of the Family's Emotional Climate in the Links between Parent-Adolescent Communication and Adolescent Psychosocial Functioning. *Research on Child and Adolescent Psychopathology*, 49(2), 141–154. Doi:10.1007/s10802-020-00705-9
- Koutra, K., Roumeliotaki, T., Kyriklaki, A., Kampouri, M., Sarri, K., Vassilaki, M., Bitsios, P., Kogevinas, M., & Chatzi, L. (2017). Maternal depression and personality traits in association with child neuropsychological and behavioral development in preschool years: Mother-child cohort (Rhea Study) in Crete, Greece. *Journal of affective disorders*, 217, 89–98. Doi:10.1016/j.jad.2017.04.002
- Léger-Goodes, T., Malboeuf-Hurtubise, C., Hurtubise, K., Simons, K., Boucher, A., Paradis, P.O., Herba, C. M., Camden, C., & Généreux, M. (2023). How children make sense of climate change: A descriptive qualitative study of eco-anxiety in parent-child dyads.

- *PLoS ONE*, 18(4), Article e0284774. Doi:10.1371/journal.pone.0284774
- Lin, S., & Muenks, K. (2024). Family context of mindset matters: Students' perceptions of parent and sibling math mindsets predict their math motivation, behavior, and affect. *Applied Developmental Science*, 28(3), 247–274. Doi:10.1080/10888691.2023.2177163
- Luo, S., Chen, D., Li, C. et al. (2023). Maternal adverse childhood experiences and behavioral problems in preschool offspring: the mediation role of parenting styles. *Child Adolesc Psychiatry Ment Health 17*, 95. Doi:10.1186/s13034-023-00646-3
- Mader, N., Arslan, R. C., Schmukle, S. C., & Rohrer, J. M. (2023). Emotional (in) stability: Neuroticism is associated with increased variability in negative emotion after all. *Proceedings of the National Academy of Sciences*, 120(23), e2212154120. Doi:10.1073/pnas.2212154120
- Mazza, C., Ricci, E., Marchetti, D., Fontanesi, L., Di Giandomenico, S., Verrocchio, M. C., & Roma, P. (2020). How Personality Relates to Distress in Parents during the Covid-19 Lockdown: The Mediating Role of Child's Emotional and Behavioral Difficulties and the Moderating Effect of Living with Other People. *International Journal of Environmental Research and Public Health, 17*(17), 6236. Doi:10.3390/ijerph17176236
- McCrae, R. R., & Costa, P. T. (1997). Personality trait structure as a human universal. *American Psychologist*, 52(5), 509–516. Doi:10.1037/0003-066X.52.5.509
- McCrae, R. R., & John, O. P. (1992). An introduction to the five-factor model and its applications. Journal of Personality, 60(2), 175–215. Doi:10.1111/j.1467-6494.1992.tb00970.x
- McKenna, S., Hassall, A., O'Kearney, R., & Pasalich, D. (2020). Gaining a new perspective on the quality of parent-adolescent relationships from adolescent speech samples. *Journal of family psychology: JFP: journal of the Division of Family Psychology of the American Psychological Association (Division 43)*, 34(8), 938–948. Doi:10.1037/fam0000787
- Mikaeili, N. & Salmani, A. (2021). Investigating the Role of Parenting Styles in Predicting Students' Academic Procrastination. *Human Relations Studies, 1*(1), 13-20. Doi:10.22098/jhrs.2022.8669.1002
- Minaei, A., & Nikzad, S. (2017). The Factor Structure and Validity of the Persian Version of the Baumrind Parenting Style Inventory. *Journal of Family Research*, 13(1), 91-108. https://jfr.sbu.ac.ir/article 97546.html
- Nadi Yazdi, V., Asghari Nekah, S.M., & Bordbar, M. (2023). [The Relationship between Perceived Islamic Parenting and the Desire to Get Married Mediated by Spiritual Well-being in Single Students. *Journal of Family Relations Studies*, 3(11), 22-30. Doi:10.22098/jfrs.2023.13081.1128

- Nooripour, R., Ghanbari, N., Hosseinian, S., Lavie, C. J.,
 Mozaffari, N., Sikström, S., & Hosseini, S. R. (2023).
 Psychometric properties of Persian version of escapism scale among Iranian adolescents. *BMC psychology*, 11(1), 323. Doi:10.1186/s40359-023-01379-w
- Nooripour, R., Hoseinian, S., Vakili, Y., Ghanbari, N., Matacotta, J. J., Mozaffari, N., Ilanloo, H., & Lavie, C. (2022). Psychometric properties of Farsi version of the resilience scale (CD-RISC) and its role in predicting aggression among Iranian athletic adolescent girls. *BMC Psychology*, *10*, Article 142. Doi:10.1186/s40359-022-00852-2
- Pang, J. C. Y., Chan, E. L. S., Lau, H. M. C., Reeves, K. K. L., Chung, T. H. Y., Hui, H. W. L., Leung, A. H. L., & Fu, A. C. L. (2023). The impacts of physical activity on psychological and behavioral problems, and changes in physical activity, sleep and quality of life during the COVID-19 pandemic in preschoolers, children, and adolescents: A systematic review and meta-analysis. *Frontiers in pediatrics*, 11, 1015943. Doi:10.3389/fped.2023.1015943
- Papadopoulos, D. (2021). Parenting the Exceptional Social-Emotional Needs of Gifted and Talented Children: What Do We Know?. *Children (Basel, Switzerland)*, 8(11), 953. Doi:10.3390/children8110953
- Pérez Lago, L., Pérez Latorre, L., Herranz, M., Tejerina, F., Sola-Campoy, P. J., Sicilia, J., Suárez-González, J., Andrés-Zayas, C., Chiner-Oms, A., Jiménez-Serrano, S., García-González, N., Comas, I., González-Candelas, F., Martínez-Laperche, C., Catalán, P., Muñoz, P., García de Viedma, D., & Gregorio Marañón Microbiology-ID COVID 19 Study Group (2021). Complete Analysis of the Epidemiological Scenario around a SARS-CoV-2 Reinfection: Previous Infection Events and Subsequent Transmission. *mSphere*, 6(5), e0059621. Doi:10.1128/mSphere.00596-21
- Qiu, C., & Shum, K. K.M. (2022). Relations between caregivers' emotion regulation strategies, parenting styles, and preschoolers' emotional competence in Chinese parenting and grand parenting. *Early Childhood Research Quarterly*, 59, 121–133. Doi:10.1016/j.ecresq.2021.11.012
- Quay, H. C. (1983). A dimensional approach to behavior disorder: The Revised Behavior Problem Checklist.

- School Psychology Review, 12(3), 244–249. Doi:1984-05659-001
- Razi, A., & Asadi Majaeh, S. (2022). The Relationship between Communication Patterns and Family Emotional Atmosphere with Academic Vitality of High School Students Mediated by Academic Resilience. *Journal of Modern Psychological Researches*, 17(67), 127-136. Doi:10.22034/JMPR.2022.15309
- Shafiei, P., & Dehghani, A. (2023). Predict Children's Mental Disorders Based on the Personality Traits and Attachment Styles of Mothers. *Medical Journal of Mashhad university of Medical Sciences*, 66(2), -. Doi:10.22038/mjms.2024.72199.4277
- Sheller, S. L., Hudson, K. M., Bloch, J. R., Biddle, B., Krauthamer Ewing, E. S., & Slaughter-Acey, J. C. (2018). Family Care Curriculum: A Parenting Support Program for Families Experiencing Homelessness. *Maternal and Child Health Journal*, 22(9), 1247–1254. Doi:10.1007/s10995-018-2561-7
- Singh, P. (2023). Emotion regulation difficulties, perceived parenting and personality as predictors of health-risk behaviours among adolescents. *Current Psychology*, 42, 12896–12911. Doi:10.1007/s12144-021-02536-3
- Tabachnick, B.G., & Fidell, L.S. (2007). *Experimental designs using ANOVA*. Thomson/Brooks/Cole, Belmont. https://www.scirp.org/reference/referencespapers?re
 - https://www.scirp.org/reference/referencespapers/referenceid=478525
- Warrier, U., Shankar, A., & Belal, H. M. (2024). Examining the role of emotional intelligence as a moderator for virtual communication and decision making effectiveness during the COVID-19 crisis: Revisiting task technology fit theory. *Annals of Operations Research*, 335(3), 1519–1535. Doi:10.1007/s10479-021-04216-8
- Yousefi, N., Dadgar, H., Mohammadi, M. R., Jalilevand, N., Keyhani, M. R., & Mehri, A. (2015). The Validity and Reliability of Autism Behavior Checklist in Iran. *Iranian Journal of Psychiatry*, 10(3), 144–149. https://ijps.tums.ac.ir/index.php/ijps/article/view/4
- Zhang, W., & Wang, Z. (2023). Parenting Styles and Adolescents' Problem Behaviors: The Mediating Effect of Adolescents' Self-Control. *Psychological Reports*, 126(6), 2979–2999. Doi:10.1177/00332941221105216