

Article history: Received 04 April 2024 Revised 12 June 2024 Accepted 25 June 2024 Published online 01 July 2024

Applied Family Therapy Journal

Volume 5, Issue 3, pp 282-289



E-ISSN: 3041-8798

The Structural Model of Relationships Between Personality Pathology Dimensions and Cyberbullying Mediated by Contingent Self-Worth in **Adolescent Girls**

Maria. Poure 10, Mehrdad. Sabet 20, Fariborz. Dortaj 30, Nasrin. Bagheri 20

¹ PhD Student Educational Psychology, Department of Psychology, Roudehen Branch, Islamic Azad University, Roudehen, Iran ² Assistant Professor, Department of Psychology, Roudehen Branch, Islamic Azad University, Roudehen, Iran ³ Professor, Department of Educational Psychology, Faculty of Psychology and Educational Sciences, Allameh Tabatabai University, Tehran, Iran

* Corresponding author email address: mehrdadsabet@yahoo.com

Article Info

Article type:

Original Research

How to cite this article:

Poure, M., Sabet, M., Dortaj, F., & Bagheri, N. (2024). The Structural Model of Relationships Between Personality Pathology Dimensions and Cyberbullying Mediated by Contingent Self-Worth in Adolescent Girls. Applied Family Therapy Journal, 5(3), 282-289.

http://dx.doi.org/10.61838/kman.aftj.5.3.29



© 2024 the authors. Published by KMAN Publication Inc. (KMANPUB), Ontario, Canada. This is an open access article under the terms of the Creative Commons Attribution-NonCommercial International (CC BY-NC 4.0) License.

ABSTRACT

Objective: The aim of the present study was to test the structural model of relationships between personality pathology dimensions and cyberbullying mediated by contingent self-worth in adolescent girls.

Methods: This study was tested using the structural equation modeling method. The statistical population of this research included all adolescent female students in District 2 of Tehran during the 2020-2021 academic year. According to the data obtained from the Tehran Department of Education, their total number was 145,398. Based on Michel's criteria (1993) and using multi-stage cluster sampling, 300 participants were selected as the sample. They responded to the Contingent Self-Worth Questionnaire by Crocker et al. (2003), the Cyberbullying Questionnaire by Antoniadou et al. (2016), and the short form of the Personality Inventory for DSM-5 (PID-5-BF). SPSS.22 and AMOS.22 software were used for data analysis.

Findings: The findings from testing the structural model showed that the direct effect of abnormal personality on contingent self-worth was (-0.33), on cyberbullying (0.26), and the direct effect of contingent self-worth on cyberbullying was (-0.40). Contingent self-worth mediated the relationship between abnormal personality and cyberbullying, with the indirect effect of this relationship being (0.13) (P<0.01). Overall, the results indicated that the tested model had a good fit with the conceptual model (RMSEA=0.06; GFI=0.91).

Conclusion: It can be concluded that contingent self-worth mediates the relationship between dimensions of abnormal personality and cyberbullying.

Keywords: Personality, Cyberbullying, Contingent Self-Worth.

Introduction

ullying is recognized as an unpleasant and distressing behavior, continuously exerted by an individual or a group of individuals toward a weaker person (Olweus & Limber,



2010). Bullying behavior can manifest in various forms, including verbal, non-verbal, and even virtual. With the rise of the internet and the widespread use of online platforms, virtual bullying, commonly referred to as cyberbullying, has become more prevalent. The outbreak of COVID-19 led to an increased reliance on the internet and virtual learning environments by schools, families, and subsequently students (Benach, 2020). This shift resulted in families and adolescents encountering psychological, emotional, and social crises that may have long-lasting effects even after the pandemic (Gesi et al., 2020). Dealing with cyberbullying and harassment is one of these challenges, which can cause profound psychological, academic, and social harm (Ramos Salazar, 2021). Cyberbullying includes a wide range of behaviors such as online threats, blocking, restricting, expelling, or insulting and humiliating others (Madsen et al., 2024). Many factors contribute to the formation of bullying, with personality traits or neurotic, pathological personalities being among the most important (Lee et al., 2023; Mujidin et al., 2023).

Many psychologists agree that the Five-Factor Model (FFM) of personality is a comprehensive system for understanding individual personality differences (McCrae, 2010). These traits include neuroticism, extraversion, openness to new experiences, agreeableness, conscientiousness. These five dimensions are considered the normal personality traits. However, the DSM-5 Personality and Personality Disorders Work Group developed a preliminary model of abnormal personality (Krueger et al., 2014), which stands in opposition to the normal dimensions (Krueger & Markon, 2014). Abnormal personality traits are classified into five broad domains. These five trait domains or dimensions include: negative affectivity versus emotional stability, detachment versus extraversion, antagonism versus agreeableness, disinhibition versus conscientiousness, and psychoticism versus lucidity. Abnormal personality dimensions or pathological traits have a negative relationship with mental health (Wright et al., 2013). Abnormal personality dimensions are also associated with behaviors such as self-harm, excessive mobile phone use and psychiatric symptoms (Scott et al., 2020), violence (Varley Thornton et al., 2010), antisocial behaviors (Fossati et al., 2013), and bullying (Romero Triñanes & Alonso Vilar, 2019). Despite these relationships, Krueger and Markon (2014) believe that abnormal personality dimensions can influence mental health and the emergence of harmful behaviors through intra-individual variables such as selfesteem (Krueger & Markon, 2014).

Self-esteem and self-worth are essential elements affecting healthy personality development. In his search for the roots of self-esteem, Crocker introduced a novel concept in psychology—contingent self-worth. According to this concept, the judgment of one's value is contingent on various conditions (Crocker et al., 2001). Given that adolescence is a period of competitiveness and self-expression (Hibbard & Buhrmester, 2010), adolescents seek validation from teachers or peers. If their psychological needs are not met, they may turn to violence and, subsequently, cyberbullying and harassment (Zaki, 2012). Although various studies (Fossati et al., 2013; Romero Triñanes & Alonso Vilar, 2019; Varley Thornton et al., 2010) have supported the relationship between abnormal personality dimensions and destructive behaviors such as bullying, studies (Landínez Martínez et al., 2021) suggest that the impact of abnormal personality dimensions on maladaptive behaviors like bullying is multidimensional. They propose that to understand such relationships, a multidimensional model must include intra-individual factors such as self-worth. In contrast, previous studies mentioned above have focused on the direct relationships between abnormal personality dimensions and harmful behaviors such as bullying, without examining the mediating role of contingent self-worth in these relationships (Landínez Martínez et al., 2021).

Moreover, previous studies have shown that traditional bullying rates are higher among boys than girls (Smith et al., 2019). However, with the expansion of online spaces and the widespread presence of girls and women on social networks, cyberbullying victimization among girls has increased (Chan & La Greca, 2016). In Iran, studies (Shohoudi Mojdehi et al., 2019) also describe the rising rates of cyberbullying among Iranian girls as concerning. Therefore, the present study seeks to test the mediating role of contingent self-worth in the relationship between personality pathology dimensions and cyberbullying among female secondary school students.

2. Methods

2.1. Study design and Participant

This research is fundamental in terms of its objective and descriptive-correlational in terms of data collection, using path analysis. The statistical population of this research includes all female second-year high school students in District 2 of Tehran during the 2020-2021 academic year. According to data obtained from the Tehran Department of Education, their total number was 145,398. The sampling



method of this study was multi-stage cluster sampling. Two districts from multiple districts of Tehran were selected, and from each district, three schools were chosen. Four classes were selected from these schools. In structural equation modeling, Stevens (1996) recommends a ratio of 15 subjects for each observed variable, and Michel (1993) suggests a ratio of 10 to 20 subjects per observed variable (cited in Myers, Gamst, & Guarino, 2006). Therefore, due to the small number of observed variables in this study (five abnormal personality dimensions, two cyberbullying dimensions, and one contingent self-worth dimension), the sample size was calculated as 180, 20 times the observed variables. However, since larger samples are preferable in structural models, a final sample of 300 participants was selected.

It should be noted that the main inclusion criteria for participation in the study were being female, enrolled in a secondary school in District 2 of Tehran, and studying in the second year of high school. The main exclusion criterion was voluntary withdrawal from the study. The study was conducted as follows: after obtaining the necessary permissions, the researcher visited the schools in person and, with the cooperation of the school principals and teachers, distributed the questionnaires to the classes. The researcher and teacher collected the questionnaires the same day, and students who preferred to complete them at home returned them to the school principal a few days later.

2.2. Measures

2.2.1. Contingent Self-Worth

Contingent Self-Worth Questionnaire by Crocker et al. (2001) scale consists of 35 items rated on a seven-point Likert scale (1 = Strongly Disagree to 7 = Strongly Agree) to assess participants' contingent self-worth. The reliability of the scale was reported as 0.82 with 1,345 participants, and 0.79 and 0.84 for men and women, respectively. Test-retest reliability (over three months) was calculated at 0.75. Crocker (2001) reported a reliability of 0.87 for the scale. Additionally, significant correlations were found between the Contingent Self-Worth Scale and social desirability (0.32), Rosenberg self-esteem (0.34), and collective selfesteem (0.37), indicating the scale's validity (Crocker et al., 2001). In a 2003 study by Crocker, the tool's validity was confirmed through confirmatory factor analysis, with all factors showing a factor loading above 0.70 (Crocker et al., 2001). In the present study, the scale's reliability was assessed using Cronbach's alpha, yielding a value of 0.78.

2.2.2. Cyberbullying

Cyberbullying Questionnaire questionnaire was designed and validated by Antoniadou et al. (2016) to assess cyberbullying experiences among adolescents. It uses a fivepoint Likert scale (1 = Never, 2 = Once or Twice, 3 = Sometimes, 4 = Most of the Time, 5 = Every Day). The questionnaire has two factors: cyberbullying victimization and cyberbullying, with 12 items each, for a total of 24 items. The reliability of the tool in the English version was reported by Antoniadou et al. (2016) as 0.89 for cyberbullying victimization and 0.78 for cyberbullying. The validity of the tool was confirmed in the initial study based on confirmatory factor analysis (CFI = 0.97, GFI = 0.85, RMSEA = 0.83) (Antoniadou et al., 2016). The psychometric properties of the Persian version of this tool were confirmed with reliability values of 0.89 for cyberbullying and 0.80 for victimization (Shohoudi Mojdehi et al., 2019). In the present study, only the questions related to cyberbullying were used.

2.2.3. Abnormal Personality

Short Form of the Personality Inventory for DSM-5 (PID-5-BF) was developed by Krueger et al. (2012) to assess the dimensional model of personality traits in DSM-5. This tool is designed to assess the five dimensions of abnormal personality, with the short form measuring 25 items across five domains. These domains include negative affectivity, detachment, antagonism, disinhibition, and psychoticism. Krueger et al. reported the psychometric properties and internal consistency of the scales as 0.91, 0.96, 0.97, 0.93, and 0.89, respectively. The factor structure of this questionnaire identified five factors: negative affectivity (e.g., anxiety, separation insecurity), detachment (e.g., isolation, anhedonia, avoidance of intimacy), antagonism (e.g., manipulation, deceit, grandiosity), disinhibition (e.g., irresponsibility, impulsivity, distractibility), psychoticism (e.g., unusual beliefs and experiences, avoidance of crowds, perceptual dysregulation). The items are rated on a four-point Likert scale from Strongly Disagree (0) to Strongly Agree (3) (Krueger et al., 2014). The psychometric properties of this version were confirmed in Iran by Abdi and Chelabianlu (2017), with a total reliability of 0.89 and internal consistency of 0.83 to 0.89 for its factors (Abdi & Chelabianloo, 2017). In the present study, the Cronbach's alpha for the entire scale was 0.85.



2.3. Data Analysis

This study used descriptive statistics to categorize participants' demographic information, including frequency, percentage, mean, and standard deviation. Inferential statistics were also used, including the Kolmogorov-Smirnov test to assess data normality, Pearson's correlation coefficient, and structural equation modeling. To evaluate the fit of the proposed model, indices such as chi-square over degrees of freedom, the Comparative Fit Index (CFI), Goodness of Fit Index (GFI), Adjusted Goodness of Fit Index (AGFI), and the Root Mean Square Error of

Approximation (RMSEA) were used. SPSS.22 and AMOS.22 software were employed for data analysis. The significance level in this study was set at 0.05.

3. Findings and Results

The final sample of the present study consisted of 300 participants. The mean age and standard deviation of the sample were 16.10 and 0.90, respectively. Descriptive statistics and normality tests for the variables are reported in Table 1.

Table 1Descriptive Statistics of the Study Variables

Variable	Component	Mean	Standard Deviation	Skewness	Kurtosis	
Cyberbullying	Cyberbullying	31.01	5.27	0.35	-0.61	
	Cyber Victimization	30.72	5.93	0.28	-0.73	
Contingent Self-Worth	Family Support	18.86	5.34	0.22	-0.73	
	Competitiveness	19.33	5.09	0.56	-0.51	
	Appearance and Body	19.98	5.74	0.20	-0.84	
	Divine Love	20.27	5.70	0.35	-0.78	
	Academic Competence	19.85	5.61	0.27	-0.91	
	Integrity	19.66	5.43	0.26	-1.05	
	Approval from Others	20.19	5.64	0.08	-0.20	
Abnormal Personality	Negative Affect	14.94	2.98	0.01	-0.35	
	Detachment	15.27	3.22	-0.15	-0.49	
	Antagonism	14.89	3.44	0.03	-0.70	
	Disinhibition	14.63	3.77	-0.24	-0.47	
	Psychoticism	14.99	3.54	-0.50	0.11	

As shown in Table 1, the mean and standard deviation values indicate an appropriate data distribution, and the skewness and kurtosis values also confirm the normal

distribution of the data. The correlation matrix between the study variables is presented in Table 2.

Table 2

Correlation Matrix of the Study Variables

n	Variable	1	2	3	4	5	6	7	8	9	10	11	12	13
1	Negative Affect	1												
2	Detachment	0.47	1											
3	Antagonism	0.26	0.39	1										
4	Disinhibition	0.38	0.36	0.34	1									
5	Psychoticism	0.28	0.36	0.36	0.24	1								
6	Family Support	-0.16	-0.19	-0.24	-0.24	-0.11	1							
7	Competitiveness	-0.19	-0.15	-0.21	-0.19	-0.17	0.48	1						
8	Appearance and Body	-0.14	-0.25	-0.26	-0.27	-0.18	0.52	0.47	1					
9	Divine Love	-0.17	-0.25	-0.18	-0.14	-0.13	0.38	0.43	0.60	1				
10	Academic Competence	-0.17	-0.16	-0.22	-0.19	-0.14	0.50	0.67	0.61	0.48	1			
11	Integrity	-0.21	-0.29	-0.31	-0.22	-0.21	0.52	0.42	0.56	0.52	0.49	1		
12	Approval from Others	-0.15	-0.22	-0.28	-0.25	-0.18	0.56	0.46	0.61	0.55	0.54	0.61	1	
13	Cyberbullying	0.23	0.26	0.16	0.31	0.17	-0.16	-0.13	-0.32	-0.33	-0.26	-0.25	-0.22	1
14	Cyber Victimization	0.16	0.19	0.19	0.21	0.22	-0.18	-0.12	-0.30	-0.26	-0.27	-0.30	-0.20	0.48

All p<0.01

The results in Table 2 show that there is a positive relationship between cyberbullying components and

abnormal personality traits, and a negative relationship with contingent self-worth components. For instance, the





correlation between cyberbullying and negative affect is (0.23) and with detachment is (0.26). Additionally, the correlation between cyberbullying and family support is (-0.16), and with competitiveness is (-0.13). These relationships are significant at the 0.01 level. The tested model, along with the standardized coefficients, is shown in Figure 1.

In Figure 1, the tested model of the present study is depicted. Based on the model test results, abnormal personality dimensions predict 11% of the variance in contingent self-worth, and together with contingent self-worth, they explain 29% of the variance in cyberbullying. Direct and indirect effects are reported in Table 3.

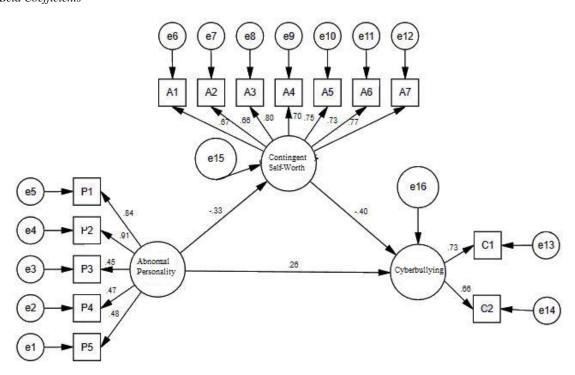
Table 3

Direct and Indirect Effects of the Tested Model

Path	Direct Effect	t	p	Indirect Effect	Sobel	р
Abnormal Personality → Contingent Self-Worth	-0.33	-4.41	0.001	-	-	0.001
Abnormal Personality → Cyberbullying	0.26	3.16	0.001	-	-	0.001
Contingent Self-Worth → Cyberbullying	-0.40	-4.81	0.001	-	-	0.001
Abnormal Personality → Contingent Self-Worth → Cyberbullying	-	-	-	0.13	1.96	0.05

Figure 1

Model with Beta Coefficients



According to Table 3, the direct effect of abnormal personality on contingent self-worth is (-0.33), and its direct effect on cyberbullying is (0.26). Additionally, the direct effect of contingent self-worth on cyberbullying is (-0.40). In the present model, contingent self-worth plays a mediating role between abnormal personality and cyberbullying, with the indirect effect of this relationship being (0.13), which is significant at the 0.05 level. To assess the model fit, fit indices proposed by Gefen et al. (2000) were used. These indices include absolute, comparative, and

parsimonious fit indices. The absolute fit indices are Goodness of Fit Index (GFI), Adjusted Goodness of Fit Index (AGFI), and Root Mean Square Residual (RMR). The comparative fit indices are Comparative Fit Index (CFI), Normed Fit Index (NFI), and Incremental Fit Index (IFI), and the parsimonious fit indices are chi-square to degrees of freedom (X2/df), Parsimonious Comparative Fit Index (PCFI), and Root Mean Square Error of Approximation (RMSEA). These indices are reported in Table 4.



Table 4Fit Indices of the Tested Model

Indices	X2	df	P	X2/df	RMSEA	GFI	CFI	NFI	AGFI
Value	153.457	73	0.001	2.10	0.06	0.91	0.90	0.90	0.87
Acceptance Range				< 3	< 0.08	> 0.90	> 0.90	> 0.90	> 0.85

The fit indices show that the tested model has a good fit.

4. Discussion and Conclusion

The present study aimed to test the structural model of relationships between personality pathology dimensions and cyberbullying, mediated by contingent self-worth among high school students in Tehran. The model test results showed that abnormal personality had a direct negative effect on contingent self-worth and a direct positive effect on cyberbullying. The negative relationship between abnormal personality dimensions and concepts related to self-worth and self-esteem has been demonstrated in many studies (Abdi & Chelabianloo, 2017; Abdi & Pak, 2017; Skjernov et al., 2020; Wright et al., 2013), aligning with the first hypothesis. For instance, Abdi and Nasiri (2015) found that abnormal personality dimensions had a positive relationship with narcissistic traits such as grandiosity and exploitation, indicating damaged self-worth in these groups. This finding can be explained by the general negative relationship between abnormal personality dimensions and mental health. Individuals with higher scores in abnormal personality dimensions tend to have lower mental health (Vrabel et al., 2019). Since high self-worth is associated with better mental health, it is negatively related to abnormal personality. In this regard, Hopwood et al. (2012) showed that abnormal personality dimensions are associated with negative and maladaptive beliefs about the self (Hopwood et al., 2013). In other words, individuals with negative beliefs about themselves are likely to hold negative beliefs about their self-worth, which can lead to bullying behavior. Students with high abnormal personality traits tend to have lower mental health, self-esteem, and self-worth (Vrabel et al., 2019). Low self-worth also increases envy, resentment, and feelings of inferiority toward others. These individuals try to compensate for these feelings of inadequacy through mechanisms such as violence and bullying (Deci & Ryan, 2010). This pattern also applies to the virtual space, where students with bullying tendencies exhibit such behaviors online.

Another finding of the present study was the negative relationship between contingent self-worth cyberbullying. This result aligns with previous studies (Chang, 2020; Ghoul et al., 2013; Shoaa Kazemi, 2017). The relationship between contingent self-worth and bullying can be explained by the impact of self-worth on individuals' behavior and emotions. In this context, Thus, the mediating role of contingent self-worth in the relationship between abnormal personality and cyberbullying becomes more evident. Students with high scores in abnormal personality have lower levels of contingent self-worth, leading to envy, social rejection, and violence, which positively affect their bullying behaviors (Vrabel et al., 2019). Therefore, the mediating role of contingent self-worth in the relationship between abnormal personality and cyberbullying is confirmed.

As mentioned before, Landinez Martinez et al. (2021) suggested that hidden tendencies behind students' abnormal personality dimensions influence behavioral outcomes such as bullying or academic performance (Landínez Martínez et al., 2021). Thus, this study examined one of these important tendencies—self-worth (Shagufta & Nazir, 2021)—which had not been explored in previous studies. The present study confirmed the role of hidden motivational and individual factors in the relationship between abnormal personality and cyberbullying. However, future research should further investigate these relationships by examining the mediating role of other related variables.

5. Suggestions and Limitations

Despite the findings, this study is limited by its focus on female high school students in District 2 of Tehran, which may affect the generalizability of the results. Caution should be exercised when applying these findings to broader populations. Additionally, the inability to fully control confounding variables such as students' intelligence, family upbringing, and external environmental factors presents another limitation, potentially affecting the study's validity. Future studies can apply this model to other educational levels or even among university students to achieve more



comparative results. Further research could also explore gender differences in the relationship between abnormal personality dimensions, contingent self-worth, selfhandicapping, and bullying.

Authors' Contributions

Authors contributed equally to this study.

Declaration

In order to correct and improve the academic writing of our paper, we have used the language model ChatGPT.

Transparency Statement

Data are available for research purposes upon reasonable request to the corresponding author.

Acknowledgments

We would like to express our gratitude to all individuals helped us to do the project.

Declaration of Interest

The authors report no conflict of interest.

Funding

This research was carried out independently with personal funding and without the financial support of any governmental or private institution or organization.

Ethical Considerations

The study protocol adhered to the principles outlined in the Helsinki Declaration, which provides guidelines for ethical research involving human participants.

References

- Abdi, R., & Chelabianloo, G. (2017). Adaptation and psychometric evaluation of the short form of the Personality Questionnaire based on DSM-5. *Quarterly Journal of New Psychological Research*, 12(45), 131-154. https://www.researchgate.net/publication/366702366_Adapta tion_and_Psychometric_Characteristic_of_Personality_Inventory_for_DSM-5-Brief_Form_PID-5-BF
- Abdi, R., & Pak, R. (2017). Structural relations between abnormal personality dimensions and emotional dysregulation dimensions in students of Shahid Madani University of Azerbaijan and Islamic Art University of Tabriz in 2016. *Journal of Rafsanjan University of Medical Sciences*, 16(5), 293-306.

https://www.researchgate.net/publication/328631773_Investi

- gating_the_Structural_Relationship_between_Pathological_P ersonality_Dimensions_and_Emotion_Dysregulation_in_Stu dents_of_Azerbaijan_Shahid_Madani_University_and_Islam ic_Art_University_of_Tabriz_
- Antoniadou, N., Kokkinos, C. M., & Markos, A. (2016).

 Development, construct validation and measurement invariance of the Greek cyber-bullying/victimization experiences questionnaire (CBVEQ-G). Computers in human Behavior, 65, 380-390. https://doi.org/10.1016/j.chb.2016.08.032
- Benach, J. (2020). We Must Take Advantage of This Pandemic to Make a Radical Social Change: The Coronavirus as a Global Health, Inequality, and Eco-Social Problem. *International Journal of Health Services*. https://doi.org/10.1177/0020731420946594
- Chan, S. F., & La Greca, A. M. (2016). Cyber victimization and aggression: Are they linked with adolescent smoking and drinking? *Child & Youth Care Forum*, 45, 47-63. https://doi.org/10.1007/s10566-015-9318-x
- Chang, O. D. (2020). The stakes of self-worth: Examining contingencies of self-worth to clarify the association between global self-esteem and eating disturbances in college women. *Journal of Clinical Psychology*, 76(12), 2283-2295. https://doi.org/10.1002/jclp.23006
- Crocker, J., Luhtanen, R. K., & Bouvrette, S. (2001). Contingencies of self-worth in college students: Measurement and validation.
- Deci, E. L., & Ryan, R. M. (2010). Intrinsic motivation The Corsini Encyclopedia of Psychology. https://doi.org/10.1002/9780470479216.corpsy0834 10.1002/9780470479216.corpsy0467
- Fossati, A., Krueger, R. F., Markon, K. E., Borroni, S., & Maffei, C. (2013). Reliability and validity of the Personality Inventory for DSM-5 (PID-5) predicting DSM-IV personality disorders and psychopathy in community-dwelling Italian adults.

 *Assessment, 20(6), 689-708. https://doi.org/10.1177/1073191113504984
- Gesi, C., Carmassi, C., Cerveri, G., Carpita, B., Cremone, I. M., & Dell'Osso, L. (2020). Complicated Grief: What to Expect After the Coronavirus Pandemic. Frontiers in Psychiatry, 11, 489. https://doi.org/10.3389/fpsyt.2020.00489
- Ghoul, A., Niwa, E. Y., & Boxer, P. (2013). The role of contingent self-worth in the relation between victimization and internalizing problems in adolescents. *Journal of adolescence*, 36(3), 457-464. https://doi.org/10.1016/j.adolescence.2013.01.007
- Hibbard, D. R., & Buhrmester, D. (2010). Competitiveness, gender, and adjustment among adolescents. *Sex Roles*, 63(5), 412-424. https://doi.org/10.1007/s11199-010-9809-z
- Hopwood, C. J., Wright, A. G., Krueger, R. F., Schade, N., Markon, K. E., & Morey, L. C. (2013). DSM-5 pathological personality traits and the Personality Assessment Inventory. *Assessment*, 20(3), 269-285. https://doi.org/10.1177/1073191113486286
- Krueger, R. F., Eaton, N. R., Derringer, J., Markon, K. E., Watson, D., & Skodol, A. E. (2014). Personality in DSM-5: Helping delineate personality disorder content and framing the metastructure. In *Personality Assessment in the DSM-5* (pp. 28-34). https://pubmed.ncbi.nlm.nih.gov/22804671/
- Krueger, R. F., & Markon, K. E. (2014). The role of the DSM-5 personality trait model in moving toward a quantitative and empirically based approach to classifying personality and psychopathology. *Annual Review of Clinical Psychology*, 10, 477-501. https://doi.org/10.1146/annurev-clinpsy-032813-153732
- Landínez Martínez, D., Gómez Tabares, A. S., & Arredondo, N. H. L. (2021). DSM-5 Pathological Personality Traits Among

AFTJ
Applied Family Therapy Journal
F-ISSN: 3041-8798



- College Students. *Psychologia. Avances de la Disciplina*, 15(1), 31-42. https://doi.org/10.21500/19002386.5050
- Lee, M.-B., Yeom, Y. O., Kim, M. S., Lee, Y., Kim, K. M., Kim, D. H., Lee, C. M., & Lee, J. E. (2023). Effects of School Sandplay Group Therapy on Children Victims of Cyberbullying. *Medicine*, 102(14), e33469. https://doi.org/10.1097/md.000000000033469
- Madsen, K. R., Damsgaard, M. T., Petersen, K., Qualter, P., & Holstein, B. E. (2024). Bullying at School, Cyberbullying, and Loneliness: National Representative Study of Adolescents in Denmark. *International journal of environmental research and public health*, 21, 414. https://doi.org/10.3390/ijerph21040414
- McCrae, R. R. (2010). The place of the FFM in personality psychology. *Psychological Inquiry*, 21(1), 57-64. https://doi.org/10.1080/10478401003648773
- Mujidin, M., Nuryoto, S., Rustam, H. K., Hildaratri, A., & Echoh, D. U. (2023). The role of emotion regulation and empathy in students displaying cyberbullying. *Humanitas: Indonesian Psychological Journal*, 20(1), 21-28. https://doi.org/10.26555/humanitas.v20i1.72
- Olweus, D., & Limber, S. P. (2010). The Olweus Bullying Prevention Program: Implementation and evaluation over two decades. In S. R. Jimerson, S. M. Swearer, & D. L. Espelage (Eds.), *The handbook of school bullying: An international perspective* (pp. 377-402). Routledge. https://www.researchgate.net/publication/285822219_The_O lweus_Bullying_Prevention_Program_Implementation_and_evaluation_over_two_decades
- Ramos Salazar, L. (2021). Cyberbullying victimization as a predictor of cyberbullying perpetration, body image dissatisfaction, healthy eating and dieting behaviors, and life satisfaction. *Journal of interpersonal violence*, *36*(1-2), 354-380. https://doi.org/10.1177/0886260517725737
- Romero Triñanes, E., & Alonso Vilar, C. (2019). Maladaptative personality traits in adolescence: Behavioural, emotional and motivational correlates of the PID-5-BF scales. *Psicothema*. https://pubmed.ncbi.nlm.nih.gov/31292040/
- Scott, J., Pera, A., Valaskova, K., Horak, J., & Durana, P. (2020). Problematic smartphone use severity: Behavioral addiction, psychiatric symptoms, and pathological personality traits. Review of Contemporary Philosophy, 19, 64-70. https://doi.org/10.22381/RCP1920206
- Shagufta, S., & Nazir, S. (2021). Self-Esteem and Psychopathic Traits among Undergraduate Students: A Structural Equation Modelling Approach. *Fwu Journal of Social Sciences*, *15*(2). https://www.proquest.com/openview/96b0996f74f1364484b 3fa15e472bfbd/1?pq-origsite=gscholar&cbl=55194
- Shoaa Kazemi, M. (2017). Domestic violence, marital burnout, and sense of self-worth in ordinary women and women referring to family courts in Tehran. *Women's and Family Studies*, 5(1), 12-29. https://jwfs.alzahra.ac.ir/article_2747.html
- Shohoudi Mojdehi, A., Leduc, K., Shohoudi Mojdehi, A., & Talwar, V. (2019). Examining cross-cultural differences in youth's moral perceptions of cyberbullying. *Cyberpsychology, Behavior, and Social Networking*, 22(4), 243-248. https://doi.org/10.1089/cyber.2018.0339
- Skjernov, M., Bach, B., Fink, P., Fallon, B., Soegaard, U., & Simonsen, E. (2020). DSM-5 personality disorders and traits in patients with severe health anxiety. *The Journal of Nervous and Mental Disease*, 208(2), 108-117. https://doi.org/10.1097/NMD.0000000000001108
- Smith, P. K., López-Castro, L., Robinson, S., & Görzig, A. (2019).
 Consistency of gender differences in bullying in cross-cultural surveys. Aggression and Violent Behavior, 45, 33-40. https://doi.org/10.1016/j.avb.2018.04.006

- Varley Thornton, A. J., Graham-Kevan, N., & Archer, J. (2010). Adaptive and maladaptive personality traits as predictors of violent and nonviolent offending behavior in men and women. Aggressive Behavior: Official Journal of the International Society for Research on Aggression, 36(3), 177-186. https://doi.org/10.1002/ab.20340
- Vrabel, J. K., Zeigler-Hill, V., McCabe, G. A., & Baker, A. D. (2019). Pathological personality traits and immoral tendencies. *Personality and individual differences*, *140*, 82-89. https://doi.org/10.1016/j.paid.2018.02.043
- Wright, A. G., Krueger, R. F., Hobbs, M. J., Markon, K. E., Eaton, N. R., & Slade, T. (2013). The structure of psychopathology: toward an expanded quantitative empirical model. *Journal of abnormal psychology*, 122(1), 281-294. https://doi.org/10.1037/a0030133
- Zaki, M. A. (2012). Test and validation of the Self-Esteem Questionnaire among male and female high school students in Isfahan. *Psychological Methods and Models*, 2(7), 60-67. https://www.sid.ir/paper/227500/en