The role of aggression in the relationship between grandiose narcissistic traits and interpersonal style: University students in Turkey

Büyüklenmeci narsistik kişilik özellikleri ile kişiler arası tarz arasındaki ilişkide saldırganlığın arac rolü: Türkiye'deki üniversite öğrencisi örneklemi

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SUMMARY

Objective: The aim of this study is to investigate the role of aggression in the relationship between grandiose narcissistic personality characteristics and negative interpersonal relationship style. Grandiose narcissistic features include overconfidence, high self-esteem, dominance and exploitative interpersonal style, expectation of attention and admiration from others, and aggressive attitudes and behaviors through the concept of threatened egotism. Method: In this study, 577 university students participated from different departments. Narcissistic Personality Inventory for measuring the grandiose narcissistic features, Buss-Perry Aggression Questionnaire for measuring the aggression, Interpersonal Style Scale and demographic form are used. Research model was tested with structural equation modeling using Amos 21 software. In this process sub-dimensions of interpersonal relationship style are used as manifest variable while five indicators for grandiose narcissistic features and 3 indicators for aggression are used as latent variables. Results: The primary analysis of the study indicated that goodness-of-fit statistics show that the data fit well to the model (x²: 180.801, df: 54, CFI: .976, TLI: .959, GFI: .958, RMSEA: .064, SRMR: .051). According to the results, aggression mediates the relationship between grandiose narcissistic personality characteristics and negative interpersonal communication styles (x²: 259.405, df: 65, CFI: .963, TLI: .948 GFI: .941, RMSEA: .072, SRMR: .055). Discussion: The significant mediation effect of aggression implies that narcissistic features bring with aggression toward other people that ultimately lead to getting in contact with people in a negative manner. Key Words: Aggression, narcissism, grandiosity, interpersonal style, interpersonal relationships (Turkish J Clinical Psychiatry 2018;21:341-350) DOI: 10.5505/kpd.2018.85547

ÖZET


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INTRODUCTION

Narcissism, a character defect recognized as far back as ancient times, has recently grown in popularity as a subject of clinical, social-personality, and industrial-organizational psychological study (1,2). This increasing interest in narcissism has brought a significant imbalance between theory construction and the production of empirical data to light (3).

Narcissism is defined as a relatively permanent character trait encompassing grandiosity, lack of empathy, and inflated self-appraisal (4). In terms of social-personality psychology and clinical psychology, narcissism is widely conceptualized as a trait or a personality disorder, respectively (5). Clinical psychologists view narcissism as taxon in clinical settings. They also use clinical ratings and interviews in order to assess narcissism. Contrarily, social-personality psychologists judge narcissism to represent a dimension of the non-clinical population and utilize self-report measures in their assessment of the phenomenon (6). However, much research conducted on both the clinical and non-clinical population indicates that both these conceptualizations share many similarities. For starters, both schools of thought use the same measures in their assessment of narcissism (5,7,8).

Moreover, a number of theories and explanations have been enlisted in order to account for narcissism. It is commonly postulated that narcissism is divided in two subtypes; grandiose and vulnerable (6,9,10,11). In this study, grandiose narcissism was taken into higher consideration due to the fact that the literature accounts for a significant correlation with the variables (aggression and interpersonal style) which remain the focus of this study. Grandiose narcissism is generally associated with overconfidence, high self-esteem, dominance and exploitative interpersonal style, expectation of attention and admiration from others, and aggressive attitudes and behaviors through the concept of threatened egotism (12,13,14,15,16,17).

Furthermore, grandiose narcissism carries with it a number of interpersonal problems due to its egocentric nature (18). People with grandiose narcissism use self-enhancement strategies to manage their self-esteem, and when these strategies are threatened by others, then the latter are instantly devalued (9,18). In other words, those who display grandiose narcissism necessarily engage in a domineering and exploitative interpersonal style.

In grandiose narcissism, aggression is triggered when the self is perceived as under threat (17). As literature on the subject largely concurs, grandiose narcissism correlates with reactive (provoked/impulsive) and proactive reaction (unprovoked/planned) (19,20). Bushman and Baumeister (21) have stated that people with grandiose narcissistic personality characteristics show significantly more physical aggression than others, even when unprovoked. Another study shows that grandiose narcissism is a strong predictor of aggressive behavior (22). Ronningstam (23) indicates that people with grandiose narcissistic personality characteristics exhibit externalizing behaviors such as fighting, arguing, cursing, threatening, and bullying that bring about inappropriate communication styles in their relationships. Similarly, Campbell and Foster (24) state that people with grandiose narcissistic personality characteristics generally lack empathy for other people and tend to exploit and blame them. Thus, it is agreed that there is a significant correlation between aggression and grandiose narcissism (13).

In line with such conclusions, it can be said that explicit aggression is apparently seen in grandiose narcissism.

This study aims to investigate the role of aggression in the relationship between grandiose narcissism and interpersonal problems. To this end, the definition of aggression laid out in Buss Perry's aggression scale (25) will be utilized, thus incorporating physical aggression, verbal aggression, anger, and hostility.

Furthermore, aggression and interpersonal problems are dramatically increased in the adolescent phase (26,27). Aggression and interpersonal problems among youths can generally stem from the youth's identity formation process. Adolescents are more egocentric, exploitative, and attention seeking because they lack a fuller awareness of their thoughts, feelings, and behavior in both a social
and interpersonal context (28). Evans, Heriot, and Friedman (29) note that adolescents having high level of aggression can show low level of empathy in interpersonal relationship, and this can be associated with narcissism. Some scholars (30,31) indicate that aggression in children and adolescents is a predictor of narcissism as a conduct problem. Furthermore, narcissism is more prevalent between young individuals, especially in 20-29 years old persons (32). Given that the trait appears to embed itself in individuals in this age group, university students have been chosen as the test subject to investigate the role of aggression in the relationship between grandiose narcissism and interpersonal problems that are operationally defined as negative interpersonal relationship styles.

**Aims of the Study**

The aim of study is to examine the role of aggression in the relationship between grandiose narcissism and interpersonal problems.

**Hypothesis**

H1: Aggression mediates the relationship between grandiose narcissism and anger communication style.

H2: Aggression mediates the relationship between grandiose narcissism and dominant communication style.

H3: Aggression mediates the relationship between grandiose narcissism and insensitive communication style.

H4: Aggression mediates the relationship between grandiose narcissism and avoidant communication style.

H5: Aggression mediates the relationship between grandiose narcissism and manipulative communication style.

H6: Aggression mediates the relationship between grandiose narcissism and sarcastic communication style.

**METHOD**

**Participants**

The study took data from 577 psychology students from the Psychology, Counseling, and Medical Science departments of Istanbul Medipol University. The mean of participants' age was 20,
with 30% representing males. The vast majority of participants were first-year and second-year students, 45% and 27%, respectively. 15% of participants had been diagnosed with at least one psychiatric disorder during their lifetime, and 20% of these had undergone some form of therapy, medication program, or both.

Measures

The study utilizes the Narcissistic Personality Inventory (NPI) as a means of measuring grandiose narcissism, the Buss-Perry Aggression Questionnaire (BAQ) for measuring aggression, as well as the Interpersonal Style Scale (ISS) and demographic form.

Narcissistic personality inventory (NPI) This scale developed by Ames, Rose, and Anderson (33) was adapted into Turkish by Atay (34), and measures narcissistic personality traits. The scale consists of 16-items of dichotomous type. The reliability and validity of the original scale has been proven by five separate studies. The Cronbach alpha among university student sample measured .72. The scale represents six factors (superiority, exhibitionism, self-sufficiency, authority, entitlement, exploitativeness). The first unrotated factor ranged from .13 to .66. The first factor explains 19.9 percent of variance. The mean of internal consistency of the original form was found to be .67 (33). The reliability of the Turkish version of the scale is .62. The principal components of exploratory factor analysis show that items are fit in the original form, and that six factors have been observed. Upon analysis, a measuring device consisting of 16 items explaining 60.8% of the total variance has been obtained. The exhibitionism factor explains 17.19%, of the total variance; the superiority factor explains 10.10%, of the total variance; the authority factor explains 9.23% of the total variance; the entitlement factor explains 8.75% of the total variance; the exploitativeness explains 7.97% of the total variance; the self-sufficiency factor explains 7.59% of the total variance. In this study, internal consistency of the scale is found .67 and AVE is .51. The exploitativeness scale factor loading was below .50. Thus, this factor was excluded from the study.

Buss-Perry aggression questionnaire This scale consists of 29 items with 5 Likert type options developed by Buss and Perry (25), and was adapted into Turkish by Demirtaş Madran (35). The Turkish version of the scale coincides with that of the original form. The minimum score is 29 and maximum score is 145. Two reverse items are included. The Turkish version also contains four factors (physical aggression, verbal aggression, anger and hostility) explaining 41.4% variance. The internal consistency of the original form Cronbach α is .89 for total, .85 for physical aggression, .72 for verbal aggression, .83 for anger and .77 for hostility. The internal consistency of the Turkish version of the scale Cronbach α is .85 for total, .78 for physical aggression, .48 for verbal aggression, .76 for anger and .71 for hostility. The test-retest reliability coefficient of the Turkish version of the scale with an interval of 4 weeks is .97 for total, .98 for physical aggression, .82 for verbal aggression, .85 for anger and .85 for hostility. The concurrent validity of the Turkish version of the scale with sub-dimension of anger behaviors of Multi-dimensional Anger Scale (36) is 0.49 (p<.01). In this study, internal consistency of the scale was found as .77 and average variance extracted (AVE) was .49. We excluded anger dimension in order to avoid interference with communication styles. Although the threshold for AVE is .50, .49 is close enough that we deemed it better to exclude this AVE score.

Interpersonal style scale This scale consists of 60 items with 5 Likert type options, is developed by Şahin et al. (37). The scale aims to measure interpersonal communication style. The maximum score shows negative interpersonal style. The factor analysis shows six factors; namely, dominance, avoidance, aggressiveness, insensitivity, manipulation, and sarcasm. The Cronbach alpha reliability coefficients for factors are varied between .88 and .67. The reliability coefficient of total items is .93. The significant correlation between the total score of the scale and the Brief Symptom Inventory (BSI) is .40 (p<0.01). A significant correlation between the sub-dimensions of the scale (BSI) ranges from .49 to .17 (p<0.01). In this study, internal consistencies of the six subscales ranges between .71 and .90. Also, the internal consistency of the total scale was found as .85 with an AVE of .51. Six negative communication styles were constructed as manifest
variables in the study.

**Ethics Statement**

Ethical permission to conduct the study was taken from the Social Sciences Ethics Committee of Istanbul Medipol University. After ethical approval was granted, the process of data collection was begun. Participants initially received a written informed consent form in which they were informed about the study and confidentiality was assured. The participants who acknowledged that they voluntarily participate in the study were given the scales. The participants were not required to give any personal information and were told that they could pass up the study if they no longer wished to continue or felt uncomfortable with the questions.

**Procedure**

Data was collected from students of Istanbul Medipol University in Istanbul, Turkey's largest city. The snowball method was used in the sampling process. After ethical permission was obtained, all instruments were presented to participants through paper-pen format. It took approximately 10-15 minutes to fill in all the questionnaires. Participation was on a voluntary basis. The process of data collection lasted for two months.

**Statistical Analysis**

Prior to statistical analyses, data was examined for accuracy of information and missing values. Then, outliers detected according to z scores exceeding ±3.29 were removed from the data. After that, normal distribution of data was tested and normality was assured. The Statistical Package for the Social Sciences (SPSS) version 23 was utilized in order to analyze the associations between the variables of the study. Research models were tested using Structural Equation Modeling (38) on Amos 21 software. The model fit was assessed depending on several goodness-of-fit indices. These are Chi-Square statistics divided by the degree of freedom (χ²/df); comparative fit index (CFI), Tucker-Lewis coefficient (TLI), goodness of fit index (GFI), root mean square error of approximation (RMSEA) and the standardized root mean square residual (SRMR) (39,40). In order to test the mediation effect, the bootstrap method suggested by Preacher and Hayes (41) was used.

In this study, an item-parceling process was utilized, as each of scale accounts for various questions and dimensions (42). In line with this process, the mean of each sub-dimensions were taken and evaluated as manifest variables of related latent variables. Finally, five indicators for grandiose narcissism were attained, along with four indicators for aggression latent variables.

**RESULTS**

The means, standard deviations and correlations for the research variables are shown in Table 1. Bivariate correlations indicate that all variables are inter-correlated around middle levels.

**Measurement Model**

Before hypothesis testing, we examined convergent validity (43,44) by examining the item loadings and their associated t-values. All of the indicators must be greater than 0.40 (45), indicating that convergent validity has been achieved. All t-values and

<table>
<thead>
<tr>
<th>Variables</th>
<th>Correlations</th>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
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<tbody>
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<td></td>
<td>M</td>
<td>SD</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>incs aggressive</td>
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<td>.948</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
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<td>incs manipulative</td>
<td>2.22</td>
<td>.776</td>
<td>.45</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>incs avoidant</td>
<td>2.12</td>
<td>.738</td>
<td>.45</td>
<td>.67</td>
<td>1</td>
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<td></td>
</tr>
<tr>
<td>incs insensitive</td>
<td>1.24</td>
<td>.578</td>
<td>.28</td>
<td>.45</td>
<td>.50</td>
<td>1</td>
<td></td>
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<tr>
<td>incs dominant</td>
<td>1.95</td>
<td>.841</td>
<td>.54</td>
<td>.53</td>
<td>.63</td>
<td>.60</td>
<td>1</td>
</tr>
<tr>
<td>incs sarcastic</td>
<td>1.81</td>
<td>.718</td>
<td>.49</td>
<td>.42</td>
<td>.52</td>
<td>.37</td>
<td>.65</td>
</tr>
<tr>
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<td>.853</td>
<td>.31</td>
<td>.24</td>
<td>.30</td>
<td>.26</td>
<td>.45</td>
</tr>
<tr>
<td>aggression</td>
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<td>.454</td>
<td>.59</td>
<td>.39</td>
<td>.49</td>
<td>.35</td>
<td>.64</td>
</tr>
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</table>

* Correlation is significant at the 0.01 level (2-tailed).
factor loadings are shown in Table 2.

**Preliminary Analysis**

The results of the Confirmatory Factor Analysis (CFA) and goodness-of-fit statistics show that the data fit the model well. The item loadings of latent variables range between .45 and .99. Results of the CFA indicate that each indicator variable and its respective variable are related. These results attest to a relationship between indicators and constructs, and thus validity is proven (46). Goodness-of-fit indices are shown in the Table 3.

**Test of the Model**

The structural model is evaluated using standardized path coefficients, their significance level (t-statistics) and $R^2$ estimates. The $R^2$ of negative communication style variables indicate that the exogenous variables explain significance variances of each (Table 4). $R^2$ values should be greater than value of .10 (47).

In order to test the hypothesis, the structural model through which we tested direct and indirect effects was examined. As the correlations among the variables were significant, a mediating test was deemed appropriate for use on all results. The indirect effect was tested using a bootstrap estimation approach with 2000 samples (48). The results support all hypotheses in attesting to aggression as a full mediator between grandiose narcissistic features and negative communication styles. Grandiose narcissistic features are not a significant predictor after controlling for the mediator, aggression, consistent with full mediation. The direct and indirect path coefficients are shown in the Table 5.

The values shown in the table assert that aggression plays a mediating role between grandiose narcissistic features and negative communication styles, leaving little doubt that narcissism indeed brings about aggression toward others, thereby transforming communication styles into a negative.

**DISCUSSION**

In this study, associations between narcissistic characteristics, aggression, and negative interpersonal communication styles were examined as a whole model from a sample of Turkish university students. The results showed that people with grandiose narcissism characteristics significantly predict negative communication styles. After controlling aggression, this is no longer a significant predictor of interpersonal style that means full mediation effect of aggression in this relationship. Thus, aggression mediates the relationship between grandiose narcissistic characteristics and negative interpersonal communication styles (dominant, avoidance, aggressiveness, insensitive, manipulative, and sarcastic). The significant mediation effect of aggression implies that narcissistic characteristics bring aggression toward other people that ultimately leads negative manners of contact with others.

The results of the current study follow in line with the relevant literature. Many previous studies have revealed that people with grandiose narcissistic character traits display more aggressive behavior than others (13,21,23,22,24). These aggressive traits, in turn, may relate to problems with inter-

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**Table 2. T-Values and Factor Loadings**

<table>
<thead>
<tr>
<th>Construct and Indicators</th>
<th>Factor loading</th>
<th>t-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superiority</td>
<td>0.830</td>
<td></td>
</tr>
<tr>
<td>Exhibitionism,</td>
<td>0.752</td>
<td>21.300</td>
</tr>
<tr>
<td>Self-sufficiency</td>
<td>0.958</td>
<td>32.359</td>
</tr>
<tr>
<td>Authority</td>
<td>0.989</td>
<td>34.009</td>
</tr>
<tr>
<td>Entitlement</td>
<td>0.560</td>
<td>14.640</td>
</tr>
<tr>
<td>Aggression</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hostility</td>
<td>0.452</td>
<td>9.729</td>
</tr>
<tr>
<td>Physical Aggression</td>
<td>0.712</td>
<td>14.306</td>
</tr>
<tr>
<td>Verbal Aggression</td>
<td>0.637</td>
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</table>

**Table 3. Goodness-of-fit Indices**

<table>
<thead>
<tr>
<th></th>
<th>$x^2$</th>
<th>df</th>
<th>CFI</th>
<th>TLI</th>
<th>GFI</th>
<th>RMSEA</th>
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<td>.976</td>
<td>.959</td>
<td>.958</td>
<td>.064</td>
<td>.051</td>
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<tr>
<td>Structural Model</td>
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<td>.963</td>
<td>.948</td>
<td>.941</td>
<td>.072</td>
<td>.055</td>
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<td>Reference Values*</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&gt;90</td>
<td>&lt;.08</td>
<td>&lt;.08</td>
<td></td>
</tr>
</tbody>
</table>

*Values are according to Hu and Bentler (1999)
narcissistic features results in a breakdown of social relations, which bolsters a fragile sense of self. This, in turn, causes them to regulate their self-esteem through building interpersonal relations of a domineering/vindictive nature. Thus, the findings of the present study that confirm the mediating role of aggression that causes grandiose narcissism to surface in negative interpersonal relationships are parallel with previous findings. That is to say, people with grandiose narcissistic character traits show more aggression, and thus display of aggressive behavior which affects their communication with others.

On the other hand, aggression and negative interpersonal communication styles held as indicators of narcissism may also relate to personality pathology (e.g. borderline, antisocial) and not narcissism per se. Since personality disorders are strongly associated with interpersonal difficulties (55), the unique predictive power of narcissism in predicting negative interpersonal functioning requires more clarification by examining personality pathology.

This study has a number of limitations. First of all, reliance on self-report measures may cause social desirability effects in participants' response. In other words, participants may not have given honest answers to the questions in the survey. Thus, socially desirable responding may have affected the reliability of the results adversely. Secondly, female participants vastly outnumbered their male counterparts. Inequality of the gender distribution in the sample could mislead the results in terms of a possible gender effect which might have been attainable had the number of the two groups been equal.

### Table 4. $R^2$ Values

<table>
<thead>
<tr>
<th>Variables</th>
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<tbody>
<tr>
<td>Aggression</td>
<td>0.258</td>
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<tr>
<td>incs_aggressive</td>
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<td>incs_manipulative</td>
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<td>incs_avoidant</td>
<td>0.474</td>
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<td>incs_insensitive</td>
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<tr>
<td>incs_dominant</td>
<td>0.727</td>
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<tr>
<td>incs_sarcastic</td>
<td>0.546</td>
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incs: interpersonal negative communication style

### Table 5. The Direct and Indirect Path Coefficients

<table>
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<tr>
<th>Path</th>
<th>Direct Effect</th>
<th>Indirect Effect*</th>
<th>Total Effect</th>
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</thead>
<tbody>
<tr>
<td>Grandiose Narcissism → Aggression</td>
<td>.51</td>
<td>-</td>
<td>51</td>
</tr>
<tr>
<td>Aggression → Anger</td>
<td>.69</td>
<td>-</td>
<td>69</td>
</tr>
<tr>
<td>Aggression → Dominant</td>
<td>.81</td>
<td>-</td>
<td>81</td>
</tr>
<tr>
<td>Aggression → Insensitive</td>
<td>.47</td>
<td>-</td>
<td>47</td>
</tr>
<tr>
<td>Aggression → Avoidant</td>
<td>.72</td>
<td>-</td>
<td>72</td>
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<tr>
<td>Aggression → Manipulative</td>
<td>.62</td>
<td>-</td>
<td>62</td>
</tr>
<tr>
<td>Aggression → Sarcastic</td>
<td>.68</td>
<td>-</td>
<td>68</td>
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<td>Grandiose Narcissism → Anger</td>
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<td>33</td>
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<tr>
<td>Grandiose Narcissism → Dominant</td>
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<td>48</td>
</tr>
<tr>
<td>Grandiose Narcissism → Insensitive</td>
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<td>.37</td>
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<td>Grandiose Narcissism → Manipulative</td>
<td>-.07</td>
<td>.31</td>
<td>24</td>
</tr>
<tr>
<td>Grandiose Narcissism → Sarcastic</td>
<td>.10</td>
<td>.35</td>
<td>45</td>
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</table>

*Indirect Effect is through aggression using bootstrap estimation, 95%
equal. Another limitation is related to the generalizability of the results. Because most of the participants in this study were undergraduate students at a private university in Istanbul, the generalizability of the results to all university students is relatively low. Lastly, although the participants were asked to notify whether they had been diagnosed with any psychiatric disorders, no rating scales screening for psychopathology were used. This can be seen as a limitation since the results observed in the study may be a part of the psychopathology of the participants. Similarly, personality traits of the participants themselves were not examined within the scope of this study, and thus the results that seem to represent an aspect of narcissism may overlap with other personality traits (e.g. trait anger). These limitations should be gleaned when considering the results.

Despite these limitations, the present study may enrich the narcissism literature in several ways. Firstly, despite the fact that narcissism is very common-especially among young individuals worldwide (32)-the number of Turkish studies investigating narcissistic remain limited, so the current study may shed light on the interpersonal relationship of those with grandiose narcissistic characteristics in a uniquely Turkish cultural context. Secondly, the present study promotes a greater understanding of the possible mechanisms that lie behind the relationship difficulties people with grandiose narcissistic characteristics face. Thus, the results of the present study may inspire the field to develop more targeted interventionist treatments for relationship problems of this nature. The results show that people with narcissistic characteristics are apt to show disruptive behaviors and these behaviors cause difficulties in establishing and sustaining interpersonal relationships. In therapy, therapist can help their clients gain greater insight into the links between narcissistic features and negative interpersonal functioning. By raising awareness about the cyclic nature of this relationship, the client may understand the underlying reasons of interpersonal problems that they have. Identifying relationship patterns may help them to accept their role in interpersonal relationships and take responsibility of their own behaviors. Furthermore, it can be assumed that the relationship style of person with narcissistic features also emerges in therapeu-

tic relationship. Thus, therapist should be aware of the communication style of both the client and themselves during sessions. Brandley and colleagues (56) found that many clinicians' accounts of counter-transference responses to patients with narcissistic personality disorder were typically characterized by the following responses: "I feel annoyed in sessions with him/her"; "I feel used or manipulated by him/her"; "I lose my temper with him/her"; "I feel mistreated or abused by him/her"; and "I feel resentful working with him/her". Being aware of the relationship style of the client and counter-transference responses may aid in attaining positive therapeutic progress. This awareness may also provide for useful material which would go some way towards identifying a patient's interpersonal style outside sessions in order to get on with the work of resolving these issues better during. In addition to gaining insight into the relationship patterns associated with narcissistic features, some cognitive and behavioral exercises such as anger management, effective communication and problem solving skills can be implemented in the intervention program since narcissistic features are associated with aggression and nonfunctional communication styles.

In future studies, both grandiose narcissism and vulnerable narcissism ought to be investigated in an integrative model regardless of whether the paths that explain these two dimensions of narcissism differ or not. In other words, by including vulnerable narcissism in future studies, it can be ascertained as to whether grandiose and vulnerable narcissistic personality characteristics are related to different interpersonal relationship styles with the mediation of different constructs. Furthermore, by equating the number of men and women participants, two separate models may be tested for men and women to see whether different models may exist in future studies. Finally, there is a great need to investigate narcissistic personality characteristics using clinical samples. Thus, these results may be tested against the clinical population of various age groups.

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