The Relationship of Anxiety with Adjustment and Procrastination in Female High School Students

Hossein Jenaabadi*
Saeed Vali Rooh
Hamid Reza Khods
Hassan Hajiabadi

*Associate professor, Department of Educational Sciences and Psychology
University of Sistan and Baluchestan, University of Farhangian Zahedan, Iran; hjenaabadi@ped.usb.ac.ir

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Abstract

The objective of the current study was to examine the relationship of test anxiety with adjustment and procrastination in female high school students in Zahedan. This was a descriptive-correlational study. The statistical population of this study included 4000 female high school students in Zahedan, among whom the sample was selected through applying multistage cluster sampling method. The data collection tools were three questionnaires containing Beck Anxiety Inventory (BAI), Adjustment Inventory of High School Students (AISS), and the Savari Academic Procrastination Scale (2011). Both descriptive and inferential statistics, including Pearson correlation coefficient, were used to analyze the obtained data. The results of Pearson correlation coefficient indicated that anxiety among students was significantly and directly correlated with adjustment and its dimensions (including emotional adjustment, social adjustment, and educational adjustment). Additionally, anxiety among students was significantly and directly related to procrastination and its dimensions (including intentional procrastination, procrastination resulting from physical-mental fatigue, and procrastination caused by disorganization).

Keywords: Anxiety, Adjustment, Procrastination, High School Students.

1. Introduction

Maslow (2000) believed that when a person feels a sense of inner respect and/or respects himself/herself, he/she experiences feelings of inner security and self-confidence and feels that he/she is valuable and worthy. In contrast, when a person considers no respect for himself/herself, in the face of life, he/she feels humiliation, frustration and inability. To achieve a sense of self-respect, one should know himself/herself well and be compatible in order to clearly and accurately distinguish his/her virtues and weaknesses. If these requirements are met, then human's most significant need, i.e. the need for self-realization, will be fulfilled and one can achieve his/her highest potential. To treat people with low self-esteem in an outpatient clinic, Pope et al. (1999) applied cognitive behavioral methods and obtained outstanding results. In addition, these methods were carried out on talented and gifted students, who had completely negative attitudes towards themselves, and positive results were achieved. When dealing with children and adolescents at schools and students in universities, hospitals, social service centers, and private clinics, conducting such programs is highly recommended. Generally, the concept of adjustment was adapted from biology. In biology, this term refers to adaption and is considered as a set of activities that one can do to coordinate with changes in the environment. As an instance, a person's conformity with environmental changes can be regarded as an example of adjustment. However, from the psychological point of view, adjustment is considered as a physiological process based on which an individual can confront with or handle his/her desires (tendencies) and everyday life challenges.

Procrastination steals time, makes a person feel guilty and changes others' opinion about that person. Procrastination is the action of postponing doing something and referring it to the future (Sutton, 2009). From a psychological standpoint, procrastination means delegating a work that one has decided to do to the future which is an undesirable and inappropriate behavior that gradually becomes a habit (Alice, 1996, translated by: Farjad, 2003).

Anxiety is defined as a concern caused by an anticipated problem and usually refers to a danger in the future.
perfectionism and procrastination. The findings showed that first, self-oriented and socially-prescribed perfectionism can negatively impact self-esteem, and mental health and reducing social anxiety. More specifically, self-oriented perfectionism, compared to socially-prescribed perfectionism was stronger than its role in self-oriented perfectionism. In general, the findings indicated that the mediating role of test anxiety in association with socially-prescribed perfectionism, was a strong negative predictor of academic procrastination. Second, self-oriented perfectionism, compared to socially-prescribed perfectionism, was a strong negative predictor of academic procrastination. Third, test anxiety played a mediating role between perfectionism and academic procrastination. Meanwhile, this role was stronger with regard to socially-prescribed perfectionism. In general, the findings indicated that the mediating role of test anxiety in association with socially-prescribed perfectionism and procrastination was stronger than its role in self-oriented perfectionism.

2. Methods and Materials

This was a descriptive-correlational study. The statistical population of the current study included 4000 female high school students in Zahedan. In the present study, multistage cluster sampling method was used, such that initially high schools were divided into two districts. Then, in each district, 5 high schools were selected randomly. In the next step, in each school, 4 classes were chosen randomly and 9 questionnaires were distributed in each class. Finally, 360 questionnaires were collected. To estimate the sample size in this study, the Morgan table was applied, the result of which considered 350 as the sufficient sample size for 4000 individuals. In this regard, 350 questionnaires were analyzed.

Data was collected through applying three questionnaires as follows. Beck Anxiety Inventory (BAI): Beck et al. (1988) introduced Beck Anxiety Inventory that specifically measures the severity of clinical anxiety symptoms. Beck Anxiety Inventory is a self-report questionnaire which was developed to examine the severity of anxiety in adolescents and adults.

In Iran, several studies have indicated high reliability and validity of this inventory. Its internal consistency coefficient (alpha coefficient) was 0.92, its reliability, using test-retest method within one week interval, was 0.75, and correlation of its subscales ranged from 0.30 to 0.76. Five different types of validity, including content, concurrent, construct, diagnostic, and factor validity, were all used for this inventory to indicate high efficiency of this tool to measure...
the severity of anxiety (Beck et al., 1988).

The rating scale for all of the answers is as follows: not at all (0), mild (1), moderate (2), and severe (3). The scores can range from 0-63.

The Adjustment Inventory of High School Students: This inventory was separately developed by Sinha, from University College of Science Shankar AWKUM, and Singh, from Pantader University in India, to distinguish high school students, aged between 14 and 18 years old, with good adjustment from those with poor adjustment, considering emotional, social, and educational dimensions (Sinha and Singh, 1993, as cited in Karami, 1996). In this study, the final 60-item questionnaire which can be answered with two options of “Yes” and “No” was used. This test is scored in this way, 0 (adjustment) and 1 (maladjustment). The reliability coefficient of this scale was obtained using split-half, which for the whole scale was 0.95 and for subscales of emotional, social, and educational was respectively 0.94, 0.93, and 0.96 (Rajabi, Chahardoli, Attari, 2007). In the present study, to examine the reliability coefficient, Kuder-Richardson method and split-half were applied, the results of which for the whole scale were 0.81 and 0.70, and for subscales of emotional, social and educational were respectively 0.66 and 0.64, 0.62 and 0.58, and 0.67 and 0.58. The following table shows the distribution of questions and the reliability of this scale.

Table 1: Adjustment, questions and reliability coefficient related to its components

<table>
<thead>
<tr>
<th>Components</th>
<th>Questions</th>
<th>Kuder-Richardson and split half reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emotional</td>
<td>1-7-10-12-15-18-21-24-27-30-33-36-39-42-45-48-51-54-57-60</td>
<td>0.66 and 0.64</td>
</tr>
<tr>
<td>Social</td>
<td>2-5-8-11-14-17-20-23-26-29-32-35-38-41-44-47-50-53-56-59</td>
<td>0.62 and 0.58</td>
</tr>
<tr>
<td>Educational</td>
<td>3-6-9-12-15-18-21-24-27-30-33-36-39-42-45-48-51-54-57-60</td>
<td>0.67 and 0.58</td>
</tr>
</tbody>
</table>

Academic Procrastination Scale: To investigate procrastination, the Academic Procrastination Scale adopted from Savari (2011) was used. Using multistage cluster sampling method, Savari conducted a study on 247 students of Ahvaz Payam-e-Noor University. Through applying exploratory factor analysis, a scale including 12 items and 3 factors entitled intentional procrastination (5 items), procrastination resulting from physical-mental fatigue (4 items), and procrastination caused by disorganization (3 items) was developed. Applying Cronbach’s alpha coefficient, Savari reported that the reliability of the whole scale was 0.85 and for intentional procrastination, procrastination resulting from physical-mental fatigue, and procrastination caused by disorganization, the reliability was respectively 0.77, 0.60, and 0.70. Moreover, through correlating it with the Takman General Procrastination Test (1991), the validity of this scale was estimated 0.35. Since this scale is the only inventory in Iran which measures academic procrastination, this scale was used in the current study. In this study, to examine the reliability of the scale, Cronbach’s alpha coefficient was used, the results of which indicated that the reliability of the whole scale was 0.89 and the reliability of intentional, physical-mental fatigue, and disorganization was respectively 0.72, 0.65, and 0.74.

This scale is scored using a Likert-type scale as never (0), rarely (1), sometimes (2), often (3), and always (4). The scores range from 0 to 48.

The following table represents the distribution of questions and the reliability of the scale.

Table 2: Procrastination, questions, and reliability coefficient related to its components

<table>
<thead>
<tr>
<th>Components</th>
<th>Questions</th>
<th>Reliability</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic procrastination</td>
<td>1-2-3-4-5</td>
<td>0.72</td>
</tr>
<tr>
<td>Physical-mental fatigue</td>
<td>6-7-8-9</td>
<td>0.56</td>
</tr>
<tr>
<td>Disorganization</td>
<td>10-11-12</td>
<td>0.74</td>
</tr>
</tbody>
</table>

The obtained data was analyzed in two levels of descriptive (including frequency, tables, percentage, mean and standard deviation) and inferential statistics containing Pearson correlation coefficient. It should be noted that all statistical test were conducted via SPSS19.

3. Descriptive Data

In this section, data on the demographic characteristics of respondents is provided.
Table 3: Results of frequency distribution based on field of study

<table>
<thead>
<tr>
<th>Field of study</th>
<th>Mathematics</th>
<th>Science</th>
<th>Humanities</th>
<th>Technical and Vocational</th>
<th>Work and Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Percent</td>
<td>16.7</td>
<td>19.4</td>
<td>26.4</td>
<td>22.2</td>
<td>15.3</td>
</tr>
<tr>
<td>Frequency</td>
<td>58</td>
<td>68</td>
<td>92</td>
<td>78</td>
<td>54</td>
</tr>
</tbody>
</table>

The results demonstrated in this table indicate that 16.7% of students were mathematics students, 19.4% of them were science students, 26.4% of them were humanities students, 22.2% of them were students of the technical and vocational fields and 15.3% of them were students of the work and knowledge fields.

4. Results

First Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their adjustment?

Table 4: Results of Pearson correlation coefficient test for anxiety and adjustment

<table>
<thead>
<tr>
<th>Component</th>
<th>Adjustment</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>0.68</td>
<td>0.001</td>
</tr>
</tbody>
</table>

The results demonstrated in Table 4 show that the correlation coefficient between adjustment, in general, and anxiety among students is 0.68, indicating a statistically direct and significant relationship at the 99% confidence level.

Second Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their emotional adjustment?

Table 5: Results of Pearson correlation coefficient test for anxiety and emotional adjustment

<table>
<thead>
<tr>
<th>Component</th>
<th>Emotional Adjustment</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>0.73</td>
<td>0.001</td>
</tr>
</tbody>
</table>

The results presented in Table 5 indicate that the correlation coefficient between emotional adjustment and anxiety among students is 0.73, demonstrating a statistically direct and significant relationship at the 99% confidence level.

Third Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their social adjustment?

Table 6: Results of Pearson correlation coefficient test for anxiety and social adjustment

<table>
<thead>
<tr>
<th>Component</th>
<th>Social Adjustment</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>0.57</td>
<td>0.001</td>
</tr>
</tbody>
</table>

The results presented in Table 6 demonstrate that the correlation coefficient between social adjustment and anxiety among students is 0.57, showing a statistically direct and significant relationship at the 99% confidence level.

Fourth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their educational adjustment?

Table 7: Results of Pearson correlation coefficient test for anxiety and educational adjustment

<table>
<thead>
<tr>
<th>Component</th>
<th>Educational Adjustment</th>
<th>Sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anxiety</td>
<td>0.36</td>
<td>0.001</td>
</tr>
</tbody>
</table>

The results demonstrated in Table 7 indicate that the correlation coefficient between educational adjustment and anxiety among students is 0.36, representing a statistically direct and significant relationship at the 99% confidence level.

Fifth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination?
The results presented in Table 8 indicate that the correlation coefficient between procrastination, in general, and anxiety among students is 0.505, showing a statistically direct and significant relationship at the 99% confidence level.

Sixth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their intentional procrastination?

The results demonstrated in Table 9 show that the correlation coefficient between intentional procrastination and anxiety among students is 0.20, indicating a statistically direct and significant relationship at the 99% confidence level.

Seventh Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination resulting from physical-mental fatigue?

The results shown in Table 10 indicate that the correlation coefficient between procrastination resulting from physical-mental fatigue and anxiety among students is 0.48, showing a statistically direct and significant relationship at the 99% confidence level.

Eighth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination caused by disorganization?

The results presented in Table 11 demonstrate that the correlation coefficient between procrastination caused by disorganization and anxiety among students is 0.68, showing a statistically direct and significant relationship at the 99% confidence level.

5. Discussion and Conclusion

First Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their adjustment?

The results of Pearson correlation coefficient indicated that anxiety among students was significantly and directly related to students’ adjustment. This is in line with the results of some previously conducted studies on the issue including Watson and Clark (1984) and Tozandejani et al. (2007).

Second Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their emotional adjustment?

The results of Pearson correlation coefficient showed that anxiety among students was significantly and directly related to their emotional adjustment. This finding is consistent with the results of Sabeti and Shahni Yeilagh (1998) and Shahni Yeilagh, Majidi, and Haghighi Mobarake (2002).

Third Question: Is there any significant relationship between anxiety among female high school students in
Zahedan and their social adjustment?

The results of Pearson correlation coefficient demonstrated that anxiety among students was significantly and directly correlated with their social adjustment. This result is in line with the results of a similar study conducted by Taghipour et al. (2012).

Fourth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their educational adjustment?

The results of Pearson correlation coefficient showed that anxiety among students was significantly and directly correlated with their educational adjustment. This finding is consistent with the results of a similar study carried out by Shahrin Yeilagh, Majidi, and Haghighi Mobarak (2012).

Fifth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination?

The results of Pearson correlation coefficient demonstrated that anxiety among students was significantly and directly correlated with their procrastination. This finding is in line with the results of similar studies conducted by Hashemi and Latifian (2013) and Farran (2004).

Sixth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their intentional procrastination?

The results of Pearson correlation coefficient demonstrated that anxiety among students was significantly and directly correlated with their intentional procrastination. This result is in line with the results of studies conducted by Farran (2004) and Essau, Ederer, Ocallaghan, and Ashmann (2008).

Seventh Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination resulting from physical-mental fatigue?

The results of Pearson correlation coefficient showed that anxiety among students was significantly and directly related to their procrastination resulting from physical-mental fatigue. This finding is consistent with the results of a study carried out by Vodanovich and Rupp (1999).

Eighth Question: Is there any significant relationship between anxiety among female high school students in Zahedan and their procrastination caused by disorganization?

The results of Pearson correlation coefficient demonstrated that anxiety among students was significantly and directly related to their procrastination caused by disorganization. This is consistent with the results of a study carried out by Essau, Ederer, Ocallaghan, and Ashmann (2008).

In this regard, it can be concluded that there was a significant and direct correlation between anxiety among students and their adjustment. Respectively, anxiety was strongly related to emotional adjustment, was then correlated with social adjustment, and was finally related to students' educational adjustment, indicating that anxiety and students' mental health play significant roles in their adjustment. Additionally, other results demonstrated that anxiety among students was significantly and directly related to their procrastination. Anxiety among students had the highest correlation with procrastination caused by disorganization and it had the lowest correlation with students' intentional procrastination. This put an emphasis on the importance of anxiety and providing essential trainings to control anxiety among adolescents.

References


Tehran: Arjmand publication.