

Research Paper:



Study the Relationship Among Early Maladaptive Schemas, Alexithymia and Ego Defensive Styles of Students at Azad and Payame Noor Universities in Shahindej

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ABSTRACT

Background: Ego-defense mechanisms are automated ordering processes to reduce cognitive abnormal and contort perceptions of threatening events. Defense mechanisms are divided into different groups in terms of their relationship with psychosocial maturity. In the psychoanalytic system, each mental disturbance is related to certain incompatible defensive mechanisms. Early maladaptive schemas are emotional and cognitive patterns which are formed since childhood and duplicated across life. Alexithymia is the inability to cognitively process emotional information and emotion regulation. Individuals with alexithymia overexpress normal body massages, misinterpret symptoms of emotional arousal, and show emotional distress through physical complaints. Therefore, alexithymia is a multifaceted structure.

Objectives: To examined the relationship among early maladaptive schemas, alexithymia and ego-defensive styles of students in two universities of Iran.

Materials and Methods: This correlational study was conducted on students of Azad and Payame Noor universities in Shahindej City, West Azerbaijan Province, Iran in 2017. The study population included all students of Azad and Payame Noor universities in this city. Of them, a total of 306 students were chosen by the multi-stage cluster sampling method. Three questionnaires were used for data collection. These questionnaires were the early maladaptive schemas questionnaire, ego-defensive styles questionnaire, and alexithymia questionnaires. The collected data were analyzed in SPSS V. 20.

Results: There is an inverse relationship between early maladaptive schemas and ego-defensive styles (0.023). There is an inverse relationship between early maladaptive schemas and alexithymia (0.016). Alexithymia of male and female students was different (0.000). But the early maladaptive schemas and the ego defense styles are the same (0.404). Early maladaptive schemas and the defensive styles of university students are different. But the alexithymia was the same (0.753).

Conclusion: Our findings indicate that early maladaptive schemas can act as the foundation of emotional and behavioral tendencies and defensive styles in students.

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1. Introduction

go-defense mechanisms are known as automated ordering processes that act to reduce cognitive abnormal and contort perceptions of threatening events, trying to downgrade abrupt changes in the internal and external reality. Subjectively and objectively, defense mechanisms are divided into different groups that

are related to the level of defense action. The efforts of defense mechanisms to reduce inhibiting thoughts or, at least, prevent them from stabilization of attributes and habits lead to the formation of personality [1].

The defense mechanisms are adjusted in terms of their relationship with psychosocial maturity and psychological harm in a hierarchical order. The defense mechanisms which are responsible for protecting people may be usual or unusual, efficient or useless [2]. In this regard, Andrews et al. reported 20 defense mechanisms [3]. In the psychoanalytic system, each mental disturbance is related with certain incompatible defensive mechanisms which play a key role in psychological health. Several studies have supported this assumption, and research has shown that the mental and physical health of the people is related to their defense mechanisms [4, 5].

According to Young, however, those who have preexisting maladaptive beliefs, show maladaptive strategies that may make their schemas permanent and irrevocable. Early maladaptive schemas are emotional and cognitive patterns which are formed since childhood and duplicated across life. They may be composed of emotional memories of pain, tragedies, fear, abuse, neglect, safety needs, abandonment, or lack of normal human affection in general. Early maladaptive schemas can also include bodily sensations related to such emotional memories. Early Maladaptive Schema (EMS) can be classified in different ways. Young and colleagues classified 18 EMS in two great subcategories and further into five areas. According to Young and colleagues, the exact number of EMS is not constant [6]. Another variable that is directly related to EMS is alexithymia.

Alexithymia is the inability to cognitively process of emotional information and emotion regulation. Individuals with alexithymia magnify normal body massages, misinterpreting physical symptoms of emotional arousal, expressing emotional distress through physical complaints, and seeking therapies for symptom relief. Therefore, alexithymia as a multifaceted structure is characterized by the difficulty in identifying emotions, describing emotions, and objective thinking [2]. Several studies have been conducted on the field of early maladaptive schemas, defensive mechanisms, and alexithymia, including the following research studies.

Zadmohsen and Seraj Khorrami investigated the relationship between body image worries, early maladaptive schemas, and alexithymia with social anxiety among female students of Islamic Azad University. Their findings showed a relationship between body image worries, early maladaptive schemas, and alexithymia with social anxiety. Also, regression analysis showed that body image worries, early maladaptive schemas, and alexithymia could predict social anxiety [7].

Hemmati-Sabet et al. studied the effectiveness of schema therapy in reducing aggression and social anxiety in boys aged 17-18 years old in Hamadan. The results showed that schema therapy was effective in reducing aggression and social anxiety in adolescents aged 17-18 years old in Hamedan [8]. Farzaneh et al. conducted a study on the relationship between early maladaptive schemes, emotions, and alexithymia with drug addiction. Their findings indicated a relationship between EMS, feelings, and alexithymia with drug addiction prevalence (P<0.01). Also, there was a significant relationship between early maladaptive schemes and the readiness for addiction (P<0.01). [9].

Ghadiri Sourman Abadi and colleagues investigated the relationship between emotional alexithymia and maladaptive schemas among Tabriz University students. The results showed a significant positive relationship between emotional alexithymia and EMS and excessive hearing loss. Also, the regression analysis showed that self-regulation and overlapping areas of activity were emotional predictors [10]. Regarding what was discussed, this study aims to determine the relationship between EMS with alexithymia and ego-defensive styles among the students of Azad and Payame Noor universities in Shahindej City, Iran.

2. Materials and Methods

Research design and sampling method

This was a correlational study and was conducted on students of Azad and Payame Noor universities in Shahindej City, West Azerbaijan Province, Iran in 2017. The multi-stage cluster sampling method was used for choosing study samples from the two universities proportional to the number of students in each university. The study sample size was recruited from 1500 students during one semester considering the inclusion and exclusion criteria.

Study tools

The demographic information questionnaire, standard ego defense styles questionnaire, Toronto Aexithymia Scale (TAS-20), and early maladaptive schemas of Young (short form) were used to collect information. Ego defense styles questionnaire was designed by Andrews et al. [11]. This scale has 40 items. It examines 20 defense mechanisms in three levels of immature, mature, and neurotic styles [3]. This questionnaire was also examined and standardized by Heidari Nasab [12] in Iran. The reliability and validity of the questionnaire were also evaluated based on the correlation of each statement with a related mechanism. The reliability of this scale for the whole questionnaire was 0.84 [12]. In this research, its reliability was found 0.78 based on the Cronbach alpha value.

Toronto Aexithymia Scale (TAS-20) was developed by Taylor in 1986, and revised in 1994 by Bagby, Parker, and Taylor [12]. This scale consists of 20 items in three subscales of difficulty in recognizing emotions (7 items), difficulty in describing emotions (5 items), and objective thinking (8 items). Ghorbani et al. calculated the alpha values of this scale in an Iranian sample as 0.44 for the difficulty in detecting emotions, 0.61 for the difficulty in describing emotions, and 0.50 for objective thinking. In this study, the reliability was found 0.81 by using the Cronbach alpha value. Early Maladaptive Schemas Young's Inventory (short form) was developed by Young et al. [13]. The short form of the questionnaire has 75 items that measure 15 early maladaptive schemas. In this research, the reliability was found 0.84 using the Cronbach alpha coefficient.

Study analysis

The collected data were analyzed with descriptive statistics and the Pearson correlation coefficients in SPSS 20.

3. Results

According to the cluster sampling method, 306 students were selected as the statistical sample. The demographic features of the students are presented in Table 1. As shown in Table 2, the mean values for maladaptive components are as follows: emotional deprivation; 16.73, abandonment/instability; 14.85, mistrust/abuse; 15.76, isolation/alienation; 13.32, defectiveness/shame; 15.81, failure; 9.48, dependence/ incompetence; 11.03, vulnerability to harm or illness; 16.3, enmeshment/undeveloped self; 14.94, subjugation; 18.99, self-sacrifice; 15.64, emotional inhibition; 15.91, unrelenting standards; 14.70, approval-seeking/ recognition-seeking; 13.92, and insufficient self-control and/or self-discipline; 11.77. As shown in Table 2, the mean scores were 16.54 in mature, 54.62 in immature, and 29.49 in neurotic types. As shown in Table 3, the mean value for difficulty in recognizing emotions was 19.96, for difficulty in describing feelings was 17.66 and for objective thinking was 23.14 (Table 4).

Hypotheses

1. There is a positive relationship between early maladaptive schemas and the alexithymia among the university students. As the significance level is less than 0.05, there is a significant and inverse relationship between the early maladaptive schemas and emotional alexithymia (Table 5).

2. There is a significant relationship between the early maladaptive schemas with ego defensive styles among the university students. According to Table 6, there is a significant and negative relationship between early maladaptive schemas and ego-defensive styles.

3. There is a significant difference between the male and female students regarding early maladaptive schemas, alexithymia, and ego-defensive styles. According to Table 7, the significance level for the difference between male and female students regarding the early maladap-

Table 1. Sample frequency by gender

Students	n	%
Female	220	72.2
Male	86	27.8
Total	306	100
		AJNPP



Table 2. Descriptive indexes of sample for maladaptive schemas

Schemas	Mean±SD
Emotional deprivation	16.73±3.78
Abandonment/instability	14.85±5.73
Mistrust/abuse	15.76±4.61
Isolation/alienation	13.32±4.58
Defectiveness/shame	15.81±6.11
Failure	9.48±3.28
Dependence/incompetence	11.03±3.37
Vulnerability to harm or illness	16.3±3.34
Enmeshment/undeveloped self	14.94±3.86
Subjugation	18.99±7.48
Self-sacrifice	15.64±6.83
Emotional inhibition	15.91±6.38
Unrelenting standards	14.70±5.55
Approval-seeking/recognition-seeking	13.92±5.71
Insufficient self-control and/or self-discipline	11.77±4.10
	AJNPP

Table 3. Descriptive Indexes of sample for defensive mechanisms

Variables	Mean±SD
Mature	16.54±3.91
Immature	54.62±30.01
Neurotic	29.4 9± 15.21

AJNPP

tive schemas was 0.773. Therefore, the early maladaptive schemas of female and male students are the same.

According to Table 8, the significance level for the difference between male and female students regarding the alexithymia is 0.000, which is less than 0.05. Therefore, male and female students' alexithymia is different. According to the Table 8, the significance level for the difference between male and female students regarding ego-defensive styles is 0.440, which is more than 0.05. As a result, there is no significant difference between male and female students regarding ego-defensive styles.

Table 4. Descriptive indexes of experimental group in emotional alexithymia

Variables	Mean±SD
Difficulty in recognizing emotions	19.96±5.58
Difficulty in describing emotions	17.66±4.58
Objective thinking	23.14±10.16
	AJNPP



AJNPP

Table 5. Correlation between early maladaptive schemas and Emotional Alexithymia

Variables		Emotional Alexithymia	
	The Pearson correlation coefficient	-0.139	
Early maladaptive schemas	Р	0.016	
	n	306	
		AJNP	

Table 6. Correlation between early maladaptive schemas and ego defensive styles

Va	Variables	
	The Pearson correlation coefficient	-0.112
Early maladaptive schemas	Р	0.023
	n	306

Table 7. T-test for early maladaptive schemas , emotional alexithymia and ego defensive styles in male and female students

Variables	Subjects	т	df	Sig.
Early maladaptive schemas	Male	0.315	304	0.753
	Female			
Alexithymia	Male	4.835	304	0.000
	Female			
Ego defensive styles	Male	0.836	304	0.404
	Female			
				AJNF

4. There is a significant difference between Azad and Payam Noor university students regarding the early maladaptive schemas, alexithymia, and ego-defensive styles. According to the Table 8, the significance level obtained for the difference between the early maladaptive schemas between students of Azad and Payame

Noor universities was 0.018. Therefore, there is a significant difference between the early maladaptive schemas of the students of Azad and Payame Noor universities.

According to the Table 8, the significance level obtained for the difference between the students of Azad

Table 8. T-test for EMS, emotional alexithymia and ego defensive styles between Azad and Payamenoor University students

Variables	Subjects	т	df	Sig.
Early maladaptive schemas	Azad	2.14	304	0.018
	Payame Noor			
Alexithymia	Azad	0.267	304	0.19
	Payame Noor		304	0.19
Alexithymia	Azad	1.98	304	0.024
	Payame Noor			0.024

AJNPP



and Payame Noor universities regarding the alexithymia was 0.19. Therefore, there is no significant difference between the students' alexithymia of two universities. According to the Table 8, the significance level for the difference between students of Azad and Payame Noor universities regarding ego-defensive styles was 0.024, which is less than 0.05. Therefore, there is a significant difference between the students of Azad and Payame Noor universities regarding ego-defensive styles.

4. Discussion

The purpose of this study was to investigate the relationship between EMS, alexithymia, and ego-defensive styles among the students of Azad and Payame Noor universities in Shahindej City, Iran. The findings showed a positive relationship between EMS, alexithymia, and ego-defensive styles among students of Azad and Payamenoor universities. This finding is consistent with the findings of Ghadiri Surman Abadi and colleagues (2015).

In explaining this similarity, it can be said that people who have early maladaptive beliefs can have difficulty in describing their emotions and thus their schemas become permanent and irreversible. Schemas are created because of the lack of satisfaction of the basic emotional needs in childhood and act as a filter for proving or confirming childhood experiences. For this reason, negative schemas in people with problematic childhood experiences cause a lot of negative emotions and impose a negative view of life events. When early maladaptive schemes are activated, they do not directly result in a specific disorder, but increase the vulnerability of the infected person, so the vulnerable person tries to show certain mechanisms against the disorders that have come to pass.

The male and female students' alexithymia is different. However, there is no significant difference between male and female students regarding early maladaptive schemas and defensive styles. This finding is inconsistent with the findings of Abbasi et al. In explaining this discrepancy, it can be said that emotional alexithymia in men is generally rooted in biological factors, while in women, this phenomenon appears as a result of psychological experiences.

Men tend to show more pragmatic behaviors when challenged with emotions and difficulties. Thus, it can be said that these results support the effect of psychosocial and cultural factors on the gender differences in emotional alexithymia. As a result, we can say that our study sample is more than traditional folk stereotypes, considering men's attributes. In addition, people with emotional alexithymia have characteristics such as the difficulty in processing emotional information, difficulty in understanding facial expressions, and less capacity for empathy. This will result in major problems in interpersonal relationships of these people (because of their indifference and indifference to others).

There is a significant difference between the early maladaptive schemas and ego-defensive styles among students of Azad and Payame Noor universities. But alexithymia was the same in both students. In explaining this finding, it can be said that early maladaptive schemas will continue to affect people on the path of life, and will affect the relationship between students at the university and in the classrooms. One of the limitations of this study is related to the statistical sample confined to the students of Islamic Azad University and Payame Noor University in Shahindej City, which could limit the generalizations of the findings. In addition, the limits of using the questionnaire as the only study tools were also present.

According to research findings, we suggest that parents be trained to develop their children's confidence in their childhood and avoid excessive care. Students should receive training on their defensive styles to better cope with and even change their negative emotions and incompatible schemas. It is suggested that measures be taken to teach students to identify the type of their prevalent maladaptive schemas. We also suggest that studying the variables of research in both universities will allow the study of the outbreak to make students more aware of themselves.

5. Conclusion

There was a significant difference between the early maladaptive schemas and ego-defensive styles. According to the obtained results and other similar studies, early maladaptive schemas can act as the foundation of emotional and behavioral tendencies and defensive styles in university students.

Ethical Considerations

Compliance with ethical guidelines

This research was approved by the Ethics Committee of the Islamic Azad University of Bukan Branch and written informed consents were taken from the students or legal staff of universities.

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Authors contributions

All authors contributed in preparing this article.

Conflict of interest

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