Role of Self Efficacy as a Moderator in the Relationship of Psychological Distress, Psychosocial Adjustment and Educational Adjustment among University Students

Samina Rashid¹, Maryam Khurshid², Hina Saeed³ **Abstract**

Psychological distress is a well-known term that has serious effect on the individual's psychological and physical health. Now-a-days, it has become a topic of great concern for the psychosocial and educational adjustment amongst university students. The present study investigated the relationship between psychological distress, psychosocial adjustment and educational adjustment among university students. It also explored the moderating impact of self-efficacy on these variables. Data were collected from 304 university students (male=151, female=153). Kessler k10 Scale, General Self-efficacy Scale, Brief Adjustment Scale, Academic Adjustment Scale and Social Adjustment Scale were used to measure the study variables. Results of the current study revealed the inverse relationship between psychological distress, psychosocial and educational adjustment. Findings of regression analysis revealed that self-efficacy moderated the relationship between psychological distress, psychosocial adjustment and educational adjustment. Moreover, female students experienced more psychological distress as compared to male students. Results were discussed and limitations, suggestions and implications were presented for future research.

Key Words: Academic Adjustment, Psychological Distress, Psychological Adjustment, Self-Efficacy, Social Adjustment, University Students

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Introduction

University student's life is connected with various stressors such as environmental transition, academic pressure, financial stressors, hurdles to goal achievement and many others. Due to all these stressors,

students face plenty of negative emotions and they are at risk of low frustration tolerance that leads toward psychological distress. The global increase in the population of university students calls for the need to recognize the important factors that play role in their adjustment both educationally and psychosocially. Every transition phase in life comes with its own challenges and university life is one of them. According to Misra et al. (2003), all students have to face adjustment issues in the new environment either psychosocially or educationally. This has always been a nerve-wracking process (Li & Gasser 2005, Sumer et al., 2008).

Psychological distress can be defined as an emotional distress that might affect the daily living and social functioning of an individual (Wheaton, 2007). Psychological distress includes the student's reflection on the entire experience of university life which involve incidence inside and outside of the

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classroom, the structure of course and educational interaction with staff and other students (Shea & Christine, 2008). Globally, university students have to psychological distress (Sharp & Theiler, 2018). This distress increases the risk for developing other poor health behaviors and hinders the academic success. Evidence based research found high level of psychological distress among university students in, Middle East, Europe, Africa and Asia (Sharp & Theiler, 2018). Research has been done in different countries like Western Nigeria (Adewuya et al., 2006), Japan (Tomoda et al., 2000), Turkey (Bayram & Bilgel, 2008), all of which have identified the presence of psychological distress among students. Researches have suggested that higher level of psychological distress impacts academic performance negatively. the Eisenberg et al. (2007) revealed increased level of anxiety and depression is linked with impaired academic performance (Al Saadi et al., 2017).

Self-Efficacy helps students in managing psychological distress. Relevant literature found that students with high level of self efficacy have the ability to face more difficult task, increase capability to organize their time, show lower anxiety level, can cause different strategies of learning, have an ability to adjust with different academic settings and select difficult course of studies (Elmotaleb & Sahalof, 2013). Findings of a study suggested that those who experience student life as a stressful phase is growing (Nedregard & Olsen, 2014). Self-efficient students face difficulties and tasks as tests instead threat (Schwarzer, 1992). Therefore, for preventing academic stress and enhancing adjustment to the educational phase, selfefficacy is considered as an important source (del Mar Ferradás et al., 2018).

Within educational settings, self-efficacy becomes a censorious inspirational state as the student's psychosocial adjustment is

poorly impacted by their psychological distress. Social functioning and adaptation cooperate specially in the student's educational accomplishments (Chen et al., 1997). Anderson et al. (2002), defined psychological adjustment as adaptation of an individual to the life changing occasions. The concept psychosocial represents the social and mental aspects in an individual's life, for example, age, job that concerns to an individual's life history and schooling (Pugh et al., 2002). Psychosocial maladjustment often causes malfunctioning that may be emotional, physical or cognitive in nature. Findings from a study revealed that student's educational achievements are indirectly or directly relying on the psychological adjustment (Valas, 2001) and students who are disruptive, socially withdrawal inhabited, shy and aggressive tends to perform poor in education as compared to those who are psychosocially adjusted (Dishion, 1990; Green et al., 1980).

Transition to university life may come with decline in psychosocial wellbeing. Stressors both related to academics and other life transitions like moving away from home, daily commute, all are related to it (Knifsend, 2018). This transition phase is a source of both personal growth and psychological maladjustment (Eisenberg et al., 2007). Feelings of being in between home and university impacts individual's wellbeing. Some students are not prepared for the challenges university life will throw at them and the demands it offers (Pleitz et al., 2015). A study revealed that social interaction with fellows and association with institution community might positively impact the student's educational experiences (Russell & Petrie, 1992).

Educational adjustment relies on how well students fulfill educational requirements. Baker and Siryk (1999) defined educational adjustment as the degree of student's achievement in handling the different

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contentment within the academic domain. Educational setup with a satisfactory assists an individual in environment adaptation to the academic demands. Satisfaction of the students with faculty, campus's institution teaching method, behavior of classmates, time table, cocurricular activities & rules and regulations impact his/her adjustment (Bhagat, 2017). Students with higher self-efficacy have better ability establish interpersonal to relationships, better adaptation to the course, vocational projects and career outlook. Selfefficacy besides being an important factor in academic achievement also relates to the efforts, dedication to learn, self-regulation, less distress in tough situations and better adjustment to new learning environment (Van Rooij, 2018). Self-efficacy facilitates students to deal with difficult circumstances without crippling anxiety and perplexity. It helps students to enhance confidence about their abilities and necessary competency to handle academic obstacles. Consequently, they feel improved psychological adjustment (Yusoff, 2012). The higher the self-efficacy, higher will be the adaptation to university life (Kim et al., 2020).

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Psychological distress has become a significant concern for the university students. Literature review from past 30 years has established that psychological distress is a persistent, deep-rooted and a long-lasting issue affecting students all over the world (Sharp & Theiler, 2018). Present research was intended to explore the relationship between psychological distress, psychosocial adjustment, and educational adjustment among university students. This research also aimed to explore the moderating role of selfthe relationship between efficacy on psychological distress. psychosocial adjustment, and educational adjustment. As the rationale of the study, there were less

research work is present in Pakistan regarding the psychological distress faced by students and its detrimental consequences on psychosocial and educational adjustment. When discussing about student's mental health and education, demographic variables also play an exceptional role. The research investigated the role of demographic variables including gender and family system of students to determine the impact they have on variables under study. Findings of this research will help understand the importance of self-efficacy in student's satisfaction and adjustment in the educational phase of their life. To achieve the objectives of this research, following hypotheses were formulated:

- 1. Self-efficacy, psychosocial and educational adjustment will be positively correlated.
- 2. Psychological distress, psychosocial and educational adjustment will be negatively correlated.
- 3. Self-efficacy would moderate the correlation between psychological distress, educational adjustment and psychosocial adjustment.
- 4. Students living in separate family system would face more psychological distress than students living in joint family system.
- 5. Female students would face more psychological distress than male students.

Method

Research Design

The research was a quantitative, correlational study using cross-sectional research design. Data was obtained from respondents through survey method using questionnaire.

Sample

A sample consisted of 304 university students (N=304) including male and females (n=151, n=153) with the age range from 19 to 30 years were selected from different universities of Pakistan including Taxila, Attock, Rawalpindi, Islamabad, Lahore,

Karachi, Mianwali, Sargodha and Faisalabad. Participants were selected through random sampling technique. Education level of participants of the study included BS, MSc., BSc., BA., MPhil and PhD. Some of the data was gathered physically from universities of Taxila, Attock, Rawalpindi and Islamabad while rest of the data was gathered via online forms.

Instruments

Kessler k10 Scale

The scale was designed by Kessler and Mroczek (1992) and consists of statements about symptoms of anxiety and depression that an individual has undergone during past 4 weeks. Scale contains 10 items. Score assess on 5-point rating scale ranging from 1(none of the time) to 5(All of the time). High score shows high level of psychological distress.

General Self-Efficacy Scale

The scale by Schwarzer and Jerusalem (1995) comprises of 10 items that measure how people believe they can achieve their goals, despite difficulties. Score assess on 4-point Likert type scale ranges from 1 (not at all) to 4 (exactly true). High scores reveal high level of self-efficacy.

Academic Adjustment Scale

The scale was developed by Baker and Siryk in 1989. Academic adjustment scale contains 25 items. The scale measures that how well a student is adjusted to the academic demands. Score assess on 4-point rating scale ranging from 1 (not at all true) to 4 (very true). High score shows high level of academic adjustment.

Social Adjustment Scale

The scale was developed by Baker and Siryk in 1984. The scale measures the student's adjustment to the educational environment. The scale contains 25 items. Score assess on 4-point rating scale ranging from 1 (not at all

true) to 4 (very true). High score reveals high level of social adjustment.

Brief Adjustment Scale

The scale was developed by Cruz et al. (2019) to assess the general psychological adjustment among students. The scale contains 6 items. Scorer assess on 7-point rating scale ranging from 1 (not at all) to 7 (extremely). High scores show high level of psychological maladjustment.

Procedure

To conduct the present study, data was collected from the universities of Taxila, Attock, Rawalpindi, Islamabad, Lahore, Karachi, Mianwali, Sargodha and Faisalabad through online and physical means. Sample comprised of 304 university students including males and females. The sample was approached by using random sampling technique. Informed consent was obtained before proceeding with the questions.

Ethical Considerations

To gather the study data, formal approval from the Psychology Department of University of Wah was attained. Permission from the head of the universities was also taken. Moreover, participants of the study were ensured that the gathered information will be kept private and confidential and only used for study purposes. During data collection, every confusion regarding the research instruments were made clear. Moreover, participants were requested to be honest, and were acknowledged for their kind contribution.

Data Analysis

Data was analyzed by using Statistical Package for Social Sciences (SPSS) version 22. Pearson product moment correlation and Linear regression analysis was carried out to measure the relationship of psychological distress with psychosocial and educational adjustment and the moderating effect of self efficacy.

Result Table 1Descriptive and Alpha Reliability for the Scales of Psychological Distress, Self-efficacy, Psychosocial Adjustment and Educational Adjustment (N=304)

Variables	No of items	f	Kurtosis	Range				
							Actual	Potential
Psychological distress	10	24.7	6.22	.71	.762	2.493	10-57	10-50
Self-efficacy	10	29.01	5.65	.81	-5.63	.238	11-40	10-40
Psychological adjustment	6	18.02	7.54	.80	.905	1.040	6-42	6-42
Social adjustment	25	75.13	9.91	.82	390	076	46-99	25-100
Academic adjustment	25	77.39	10.08	.85	861	2.133	26- 100	25-100

Note, N = 193; k = no of items, $\alpha = Cronbach$ Alpha, M = mean, SD = standard deviation.

Table 1 revealed descriptive and alpha coefficient for all the studied variables ranges

from .71 to .85. Cronbach's alpha for all scales revealed strong inter-item consistency.

Table 2Pearson Product Correlation among Psychological Distress, Self-efficacy, Psychosocial Adjustment and Educational Adjustment (N=304)

	Variable	1	2	3	4	5
1.	Psychological distress					
2.	Self-efficacy	33**				
3.	Psychological adjustment	.59**	52**			
4.	Social adjustment	42**	.49**	52**		
5.	Academic adjustment	44**	.52**	51**	.70**	

^{**}p<.01

Table 2 indicated that there was significant negative relationship of psychological distress with self-efficacy, psychological adjustment (low scores of psychological adjustment scales indicate high level of psychological adjustment), social adjustment and educational adjustment. Furthermore, there is a significant and positive relationship

of self-efficacy with psychological adjustment (low scores show better adjustment), social adjustment and educational adjustment. This shows that high psychological distress is linked with low level of self-efficacy, psychological adjustment, social adjustment, and educational adjustment.

Table 3 *Moderated Regression Analysis Predicting the Effect of Self-efficacy on the Relationship of Psychological Distress and Psychological Adjustment (N=304)*

		Outcome: Psychological Adjustment							
	Predictors	В	SE	В	t	ΔR^2	\boldsymbol{F}		
Model 1						.471	133.89***		
	(constant)	2.11	.04		.000				
	Psychological	.46**	.04	.46	10.45				
	Distress								
	Psychological	77***	.04	37	-8.30				
	Adjustment								
Model 2	-					.009	92.26***		
	(constant)	1.73**	.75		2.28				
	Psychological	.90***	.19	.90	4.59				
	Distress								
	Self-Efficacy	01	.16	01	-0.86				
	Psychological	00**	.001	47	-2.28				
	Distress x Self								
	Efficacy								

^{***}p<.001

Table 3 shows the moderated multiple regression analysis showing the moderating effects of self-efficacy as moderator between psychological distress and psychological adjustment. The R^2 value of .48 revealed that the predictor explained 48% variance in the

outcome variable with F(3, 300) = 92.26***, p<000. The main effect of psychological distress (B=.90, p<.000). The moderating effect of self-efficacy was significant by the predictor psychological distress (B=-.002, p<.000).

Table 4Regression Analysis Predicting the Moderating Effect of Self-efficacy on the Relationship of Psychological Distress and Social Adjustment (N=304)

		(•				
	Predictors	В	SE	В	t	ΔR^2	F
Model 1						.32	71.08***
	(constant)	-1.13	.04		.000		
	Psychological Distress	28***	.05	28	-5.64		
	Social Adjustment	.40***	.05	.40	7.97		
Model 2	-					.02	52.26***
	(constant)	-2.72***	.85		-3.19		
	Psychological Distress	97***	.22	97	-4.40		
	Self-Efficacy	15	.18	15	86		
	Psychological Distress	.00***	.001	.74	3.20		
	x Self Efficacy						

^{***}p<0.001

Table 4 shows the moderated regression analysis sowing the moderating effects of self-efficacy as moderator between the psychological distress and social adjustment. The R^2 value of .343 revealed that the predictor explained 34.3 % variance in the

outcome variable with F(3, 300) = 52.26***, p<.000. The main effect of psychological distress (B = -.97, p<.000). The moderating effect of self-efficacy was significant by the predictor psychological distress (B = .004, p<.000).

Table 5Regression Analysis Predicting the Moderating Effect of Self-efficacy on the Relationship of Psychological Distress and Educational Adjustment (N=304)

·		Outcome: Educational Adjustment							
	Predictors	В	SE	В	t	ΔR^2	F		
Model 1						.34	80.83***		
	(constant)	-4.41	.04		.000				
	Psychological	29***	.04	29	-6.05				
	Distress								
	Educational	.41***	.04	.41	8.46				
	Adjustment								
Model 2	-					.06	69.58***		
	(constant)	-4.48***	.80		-5.55				
	Psychological	-1.43***	.21	-1.43	-6.85				
	Distress								
	Self-Efficacy	50**	.17	50	-2.92				
	Psychological	.006***	.001	1.22	5.56				
	Distress x Self								
	Efficacy								

^{***}p<.001

Table 5 shows the moderated multiple regression analysis showing the moderating effect of self-efficacy as moderator between the psychological distress and educational adjustment. The R^2 value of .41 revealed that the predictor explained 41% variance in the

outcome variable with F(3, 300) = 69.58***, p<.000. The main effect of psychological distress (B = 1.43, p<.000). The moderating effect of self-efficacy was significant by the predictor psychological distress (B=.006, p<.000).

Table 6 *t test for Gender Difference in Psychological Distress among University Students (N*=304)

	Male (<i>n</i> =151)		Female (<i>n</i> =153)				95%CL		
Variable	M	SD	M	SD	t	p	LL	UL	Cohen's d
Psychological	24.15	6.73	26.05	5.69	-1.21	.04	-1.91	-1.09	0.30
Distress									

Table 6 indicates a significant difference for psychological distress between both groups. The females report high level of

psychological distress (M=26.05, SD=5.69) as compared to males.

Table 7t test for Difference of Family Status on Psychological Distress among University Students (N=304)

	Separate (<i>n</i> =163)		Joint (n=141)				95%CL		
Variable	M	SD	M	SD	t	p	LL	UL	Cohen's d
Psychological Distress	24.93	6.09	24.72	6.46	.17	.47	-1.32	1.58	0.02

Table 7 indicates a nonsignificant t value (t=.17, p>0.05) for psychological distress between two groups. However, result revealed that students living in a separate family system report high level of

psychological distress (M=24.93 SD=6.09) as compared to those living in joint family system.

Discussion

There is a growing concern about the psychological well-being of students going through university phase. Psychological distress is a persistent issue affecting students globally. The transition brings with it a lot of challenges and poor coping results in maladjustment. Undoubtedly, higher the psychological distress experienced students, higher will be the risk of academic failure and dropout (Ishii et al., 2018; Jaisoorya et al., 2017). The present study aimed to explore the relationship between psychological distress, psychosocial adjustment and educational adjustment. The moderating role of self-efficacy was also investigated. Furthermore. certain demographic variables were also explored including gender and family system to investigate their impact on the variables under study.

Firstly, it was hypothesized that self-efficacy has a positive relationship with psychosocial adjustment and educational adjustment. Results from correlation analysis confirmed strong relationship between these variables (Table 2). Results of present study are consistent with the findings of a study that suggested a strong link between self-efficacy and educational adjustment (Brady-Amoon & Fueters, 2011). Similarly, results of present

study are in line with that of Poyrazli (2001) which showed that students with higher self-efficacy academic report fewer adjustment problems. Moreover, students with higher self-efficacy showed better academic performance (Shkullaku, 2013). Secondly, it was hypothesized psychological distress has a negative relationship with psychosocial adjustment and educational adjustment. The results of the study confirmed the hypothesis (Table 2). The results can be traced back into the literature that suggested negative correlation performance academic between psychological distress. The results of present study are consistent with the findings of Eisenberg et al. (2007) which documented

Present study hypothesized that self-efficacy would moderate the relationship between psychological distress, educational adjustment and psychosocial adjustment. Previous studies did not examine the moderating role of self-efficacy with these variables under study instead they have been correlated with self-efficacy. directly Moksness (2019) provided evidence from research that has proved self-efficacy to be moderating factor between satisfaction and life stressors. Negative life

that psychological distress results in impaired

academic performance.

events impact the ability of students to deal with the pressures of academic life. A study documented that positive correlation between negative life events and level of drop-out intentions was depreciated for the students who had higher self-efficacy (Samuel & Burger, 2020). Consistent with this finding, present research confirmed the moderating of self-efficacy in role relation to psychological distress, psychosocial adjustment and educational adjustment (Table 3,4 & 5). In other words, when students face psychological distress but are self-efficacious, they can overcome psychological distress and can easily adjust both educationally and psychosocially.

To explore the role of demographic variables on the psychological well-being of university students. was hypothesized it psychological distress would be higher among female students as compared to male students. Results of the present study are in accordance with the findings of Porru et al. (2021) that showed higher prevalence of psychological distress in female students as compared to male students (Table 6). Furthermore, female students reported higher mental illness as compared to male students (Stallman, 2010). Consistent with the findings of current study, it was observed that self-reported psychological distress was higher in female students as compared to (Knapstad, male students Furthermore, similar to the findings of Wang et al. (2020), results showed higher prevalence of psychological distress among female students (Table 6).

It was hypothesized that students living in nuclear family systems would face more psychological distress as compared to those living in joint family systems. The results of present study are not significant for relationship between family systems and psychological distress among students (Table 7). However, less psychological distress was noted in students belonging from joint family

systems. It might be because joint family system provides strong social support, more chances of disclosure of emotions and intimacy. Participants belonging from joint family systems are more adjusted as compared to those from nuclear family systems (Muzaffar, 2017).

Conclusion

Findings of present study identified that self efficacy play an effective role in the student's educational and psychosocial adjustment within university setting and also help students to overcome psychological distress they face due to environmental transition, academic pressure. Furthermore, results found less psychological distress in students belonging to joint family systems. Results revealed that female students experienced more psychological distress as compared to male students. Findings of current study have clear implications in determining the need to call for the attention towards the psychological wellbeing of students in Pakistan. Better psychological health of students will lead to better academic adjustment and performance. The study imply that attention must be given to ensure that students are best equipped to manage the stressors they face during university life.

Implications

Self-efficacious students are not hesitant in confronting and dealing with the hurdles imposed on them during their academic career and better adjust with them, therefore, universities must introduce programs to enhance student's self-efficacy. Findings of current study have clear implications in determining the need to call for the attention towards the psychological wellbeing of students in Pakistan. Better psychological health of students will lead to better academic adjustment and performance. The study imply that attention must be given to ensure that students are best equipped to manage the stressors they face during university life and better cope with them.

Limitations and Suggestions

The research explored limited demographic variables; it is suggested to explore more demographics in future. Present study used cross-sectional method to study the variables. Future research should design longitudinal research and adopt mixed methods research approach. The current research comprised of sample of university students ranging from early to middle adulthood (19 to 30 years). It would be beneficial to study these constructs among school and college going students as major transitions beings through these phases.

Conflict of Interest

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