### **ORIGINAL ARTICLE:**

# MEDIATING ROLE OF OPTIMISM IN THE RELATIONSHIP BETWEEN ATTACHMENT STYLES AND MENTAL HEALTH FUNCTIONING IN UNIVERSITY STUDENTS OF LAHORE, PAKISTAN.

ZARMINA KHAN, SADIA SALEEM, TASKEEN ZAHRA, FATIMA ASLAM SCHOOL OF PROFESSIONAL PSYCHOLOGY , UMT, LAHORE

CORRESPONDENCE: FATIMA ASLAM, fatima.aslam@umt.edu.pk

Submitted: 6 March 2023 Accepted: 14 June 2025

#### ABSTRACT

#### OBJECTIVE

To explore the mediating role of optimism between attachment styles and mental health functioning in university students of Lahore.

#### **STUDY DESIGN**

Cross-sectional study

# PLACE AND DURATION OF STUDY

The study was conducted in Lahore in 8 months period

#### METHOD

A total of 300 university students from private and government universities of Lahore were surveyed using The Adult Attachment Scale (AAS), Optimism Scale (OS) and Student Problem Checklist Scale (SPCL). Data were entered and analysed with the help of SPSS version 25.

#### RESULTS

The correlation analysis depicted a significant positive relationship between attachment (Close) and optimism, whereas a significant negative relationship between optimism and mental health functioning. Mediation analysis showed that optimism mediated the relationship between close attachment style and mental health functioning.

#### CONCLUSION

In terms of perceived close attachment, optimism played a protective role in better mental health functioning of university students.

#### **KEYWORDS**

Attachment Styles, Optimism, Mental Health, Students

#### INTRODUCTION

University years are a time of great stress and adjustment with academic, personal and social challenges<sup>1</sup>. Changing societal demands, increased personal expectations, higher pressure to succeed and transition into the adulthood may contribute to increased stress that is further associated with serious mental health problems, which is a matter of a great concern for educationalists, counsellors and society at large <sup>2</sup>.

Literature has documented a higher prevalence rate of 20-50% mental health issues in university students ranging from stress, anxiety, depression, substance abuse and suicide <sup>3-6</sup>, which further leads to academic, personal and social failures <sup>7-9</sup>. Therefore, early

identification and management of these mental health concerns can prevent individuals and that is possible by identifying risk and protective factors. Greater understating of such factors that influence mental health of students may help to devise targeted intervention plans to improve their functioning. One such factor that is said to have a critical impact on the psychological functioning of an individual is attachment styles, which influence an individual's thoughts, feelings and behaviours in close relationships.<sup>10</sup>

According to the attachment theory<sup>11</sup> early attachment and interactions with the caregivers become a template and base for future interpersonal interactions and relationships. Secure attachment comprising emotional warmth, sense of security and safety is linked with positive self-perception, high self-esteem, optimism and sense of strong connectedness which consequently relates to better mental health outcomes <sup>12</sup>. Insecure attachment on the other hand characterised by anxious, ambivalent and avoidant interactions results into a greater vulnerability of mental health problems including depression, suicidal ideation and serious pathologies <sup>13-16</sup>. Even though the connection between attachment styles and mental health is well-documented yet, a need to explore potential mediators that can explain this dynamic relationship more precisely and offer a deeper understanding of mental health functioning of university scholars is warranted.

With the emergence of positive psychology, many factors have been identified that enhance mental health functioning; among these factors, optimism is said to play a buffering role against adverse life conditions and stressors <sup>17</sup>. Optimism can be defined as a personality characteristic to have a positive and favourable view about ones future life<sup>18</sup>. Individuals with high optimistic tendencies may have high self-esteem, resilience, better communication and psychological well-being <sup>19</sup>. Whereas, low optimism may result in depression, self-harm behaviours, anxiety and suicide <sup>20</sup>. Literature suggests that secure attachment is linked with the higher level of optimism and those individuals with insecure attachment tend to show lower level of optimism and more mental health concerns <sup>21</sup>. Studies show that optimism is related to lesser psychological problems, <sup>22</sup> though limited literature is available that examines the mediating role of optimism in the relationship with attachment styles and mental health consequences in university students.

This research can contribute to the development of targeted interventions aimed at fostering positive mental health outcomes in university students as the study hypothesised that optimism would mediate the association of close attachment and mental health problems in young adults.

## METHOD Procedure

The ethical approval for the current study was obtained from the Departmental Ethical Committee. Initially, different universities were approached and a brief explanation of the aims of the current research was described to them with the assurance of anonymity and confidentiality of research data. Once permission was granted, the authorities were asked to provide sections at random from BS (Hons) semester 1, 2, 3 and 4 of different departments.

All the ethical considerations were taken into account, the participants were assured about the confidently, anonymity and the right to withdraw from the research at any time. All the agreed participants were provided the final testing material to fill in. The data was collected in a group setting averaging 20 participants in a group, and it took 15 minutes to complete the testing protocol. All students were debriefed at the end of the study.

## Participants

This cross-sectional study was conducted on approximately 300 participants with an equal proportion of 150 men and 150 women with different education levels between 19 to 24 years of age and data was collected from different institutes of Lahore. The sample was selected randomly. Participants with any psychological or physical impairments were excluded from the current research.

## Instruments

The study tools comprised of The Revised Adult Attachment Scale (AAS), the Optimism Scale (OS), Student Problem Checklist and a demographic sheet.

**Revised Adult Attachment Scale (RAAS):**<sup>23</sup> It is an 18-item self-report measure with a five points Likert scale ranging from "not at all characteristic of me" (1) to "very characteristic of me" (5) with three subscales of attachment such as Close, Dependent and Anxious; All three subscales have sufficient reliability (a=.68, .71, and .52 respectively). Each subscale had six items in it.

**Optimism Scale (OS):**<sup>24</sup> It is a 32-items scale scored on 5-point Likert scale comprised options (0= Never, 1= Rarely, 2= Neutral, 3= Sometimes, 4= Very Much). It has high internal consistency (.90).

**Student Problem Checklist (SPCL):**<sup>25</sup> It is a 45-items self-report measure with satisfactory reliability (a=.83). Items are rated on 4-point Likert type scale such as not at all (0), rarely (1), to some extent (2), very much (3). High score on this scale reflected high psychological problems.

## RESULTS

The study sample had an age range of 19 to 24 years, with a mean of 21.29 years (SD=±1.65). Participants in this research predominantly had nuclear family system (56%). Furthermore, most of the participants were having ages between 19 to 21 (54%). **Table 1** 

Variables	СА	DA	AA	0	MHP
СА	-	.14*	11	.18**	15**
DA		-	37***	07	08
AA			-	06	.21***
0				-	27***
MHP					
Μ	17.89	16.57	18.67	75.76	60.01
SD	3.82	3.64	5.12	16.95	25.22

Means, Standard Deviation and Correlation between Close Parental Attachment, Optimism and Mental Health Problems (N=300).

Note. \*p<.05, \*\*p<.01, \*\*\*p< .001.

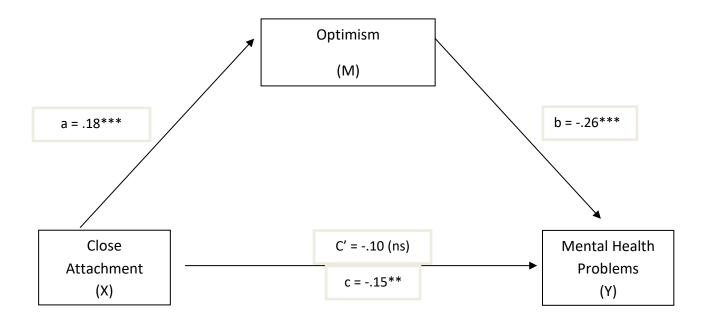
CA: Close Attachment, DA: Dependent Attachment, AA: Anxious Attachment, O: Optimism, MHP: Mental Health Problems.

Findings of Pearson Product-Moment Correlation revealed the significant positive association of close attachment and optimism. Additionally, findings suggested significant negative association of close attachment and mental health problems. Similarly, anxious attachment is significantly positively associated with mental health problems. Moreover, optimism is also significantly negatively associated with mental health problems. However, no significant association of dependent attachment with optimism and mental health problems is found. Also, anxious attachment is not significantly associated with optimism.

Findings of Pearson Product-Moment Correlation suggested interrelatedness of close attachment, optimism and mental health problems. Therefore, the mediating role of optimism in the association of close attachment and mental health problems is identified through Hayes (2018) bootstrapping approach as shown in figure 1.

## Figure 1

Mediation model of Optimism (M) on the relationship between close attachment (X) and mental health problems (Y).



## Table 2

Close Attachment, Optimism and Mental Health Problems of University students	,
Mediation Analysis (N=300).	

Consequent								
M(0)			Y(MHP)					
Antecedent		β	SE	p-value		β	SE	p-value
CA(X)	а	.18	.25	.001***	c	10	.37	.06
O(M)					b	25	.08	.001***
Constant	i	61.1	4.67	.001***	i	101.0	8.4	.001***
	R <sup>2</sup> =.03				R <sup>2</sup> =.08			
	F(1,295)=10.11, p=.001***			F(2,294)=14.16, p=.001***				

Note. CA: Close Attachment; O: Optimism; MHP: Mental Health Problems.

\*\*\*p<.001, p>.05

Table 2 showed the results as Regression Coefficients, Standard Error and Model Summary Information for the of mediation analysis. Path a illustrated significant predictive relationship between close attachment as independent variable and optimism as mediator,  $\beta$ =.18, SE=.25, p<.001. Path b in Table 2 revealed a predictive association between optimism as the predictor and mental health functioning as the outcome. This path also depicts optimism as a significant predictor of mental health functioning,  $\beta$ =-.38, SE=.08, p<.001. Furthermore, Figure 1 depicted significant total effect of independent variable on dependent variable as shown in path c, c= -.101, SE= .37, p< .01. Findings indicated that optimism is fully mediating the association of independent variable on dependent variable as after controlling optimism as a mediator, the direct effect of independent variable on dependent variable reduced to 0 and the path c' is non-significant as  $\beta$ =-.70, SE=.37, p<.01.

## DISCUSSION

This research is an attempt to explore the role of attachment styles and optimism in mental health functioning of university students. The results highlight the crucial role of optimism as a protective factor and buffer against mental health problems in university students as reported by previous research <sup>19</sup>. The correlational analysis signifies a positive relationship between close attachment style and optimism confirm the previous findings that secure, emotional warmth and supportive perception of relationships with significant others foster positive outcomes and improve mental health functioning of university students <sup>21</sup>. Optimism was found to have a significant negative association with mental health, indicating that high level of optimism is linked with positive mental health outcomes <sup>22</sup>. Findings of this study align with previous literature showing that optimism and positive

future oriented mind set serve as a buffer and protective factor against mental health challenges and facilitate in better coping and adjustment with the ever changing psychological, social and emotional demands of university years. In other words, as optimism is characterised by dispositional inclination to have a generalised positive outlook even when faced with adversity or struggle in their lives. It is argued that in tough circumstances the optimistic people exhibit positive emotional reactions and expectations which in turn are associated with many productive outcomes like life satisfaction, wellbeing, and lower level of mental health issue including depression, anxiety and stress.

Moreover, mediation analysis indicated the mediating role in the relationship between close attachment pattern and mental health problems. This further affirms the protective role of optimism against life stress. These findings highlight the importance of fostering secure attachment and cultivating optimism as a way of coping against ever changing demands and expectations. Future research should further explore the mechanisms through which optimism influences mental well-being and investigate intervention strategies to enhance optimistic thinking in individuals with insecure attachment styles.

## Limitations

This study has several limitations. First, the choice of study design being cross-sectional restricted causal interpretations between attachment styles, optimism, and mental health functioning. Additionally, the sample was limited to urban university students within a narrow age range, which resulted in generalisability. The socio-cultural factors influencing emotional expression were not taken into consideration that may have influenced outcomes. Lastly, the study lacked qualitative insight, limiting the depth of understanding regarding participants' experiences.

## CONCLUSION

Perception of close, secure and emotionally connected attachment is one of the hallmarks of successful relationships in young adulthood in collectivistic culture. The transition period from adolescent to adulthood requires interpersonal as well as intrapersonal support to survive the struggles and battles of transition phase. It can be concluded that close or healthy attachment in interpersonal relationship enroots optimism in oneself and leads towards healthy mental functioning. Furthermore, it can also be concluded that being optimistic in life flourishes the close attachment with parents and indicates good mental health functioning.

#### Recommendations

Future research should consider longitudinal and mixed-method designs to illustrate causal and contextual relationships. Broader sampling across rural and diverse populations is

recommended to improve representativeness. Interventions aimed at enhancing optimism and secure attachment should be piloted to evaluate their impact on mental health outcomes in academic settings.

**CONFLICT OF INTEREST** 

None

### FUNDING

None

### DISCLOSURE

None

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## AUTHOR(S) CONTRIBUTION/UNDERTAKING FORM

Sr. #	Author(s) Name	Author(s) Affiliation	Contribution	ORCID	Signature
1.	Zarmina Khan	UMT	Conceptualization, data collection, data entry, result	NA	Domina
2.	Dr. Sadia Saleem	Monash University, Malaysia and UMT	Conceptualization, data collection, data entry, result, discussion	https://orcid.org/0000- 0001-9328-621X	Jack'
3.	Dr. Taskeen Zahra	UMT	Conceptualization, writeup, analysis	https:// <i>orcid</i> .org/0000- 0001-6499-3222	Jart
4.	Fatima Aslam	UMT	Results, write up and correspondence	0000-0002-6042- 3203	Hateran .