Journal Of the Oriental Institute M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

MENTAL HEALTH PREVALENCE AND PREDICTORS AMONG COLLEGE STUDENTS

Mrs. Anithalakshmi

Research Scholar, Department of Management Studies, Madurai Kamaraj University, Madurai.

Dr.P.Uma Rani

Assistant professor, Department of business administration, Thiagarajar College, and Research supervisor, Madurai Kamaraj University, Madurai.

Abstract

This study aimed to investigate the prevalence of mental health issues among college students, explore the relationship between mental health and various demographic and psychological factors, and identify predictors of mental health among college students. A sample of 250 college students completed a survey assessing mental health symptoms, demographic characteristics, and psychological factors. Descriptive analysis and Pearson correlation were used to analyse the data. The results showed that a significant proportion of college students experience mental health issues, with anxiety and depression being the most common. Significant correlations were found between mental health symptoms and demographic and psychological factors, such as age, gender, academic performance, and social support. Regression analysis revealed that academic performance, social support, and stress were significant predictors of mental health among college students. The findings of this study highlight the importance of addressing mental health issues among college students and suggest that interventions targeting academic performance, social support, and stress management may be effective in promoting mental health among this population.

Keywords: Mental health, Anxiety, Depression, Stress, Academic performance, Social support

Introduction

Mental health issues among college students have become a growing concern in recent years. The transition to college can be a challenging and stressful experience, and many students may struggle to cope with the demands of academic life. Research has shown that college students are at high risk for developing mental health issues, including anxiety, depression, and substance use disorders.

Mental health is a critical aspect of overall well-being, influencing emotional, psychological, and social functioning. In recent years, mental health disorders have become increasingly prevalent, affecting individuals across diverse demographics. Anxiety, depression, stress, suicidal ideation, and substance abuse are among the most commonly reported mental health symptoms, contributing to significant challenges in both personal and professional domains (World Health Organization [WHO], 2021). Understanding the prevalence of these conditions and identifying key predictors can inform effective interventions, policies, and support systems that promote mental well-being.

Journal Of the

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

The increasing recognition of mental health concerns has led to substantial research efforts aimed at identifying risk factors associated with various psychological disorders. Scholars have examined demographic characteristics, psychological factors, and external stressors that contribute to mental health challenges (Kessler et al., 2017). Factors such as age, gender, academic performance, and social support networks have been extensively studied to determine their impact on mental health outcomes. Structural Equation Modeling (SEM) is a robust analytical technique that allows for a comprehensive evaluation of these complex relationships, providing a more nuanced understanding of mental health predictors.

Prevalence of Mental Health Symptoms

Recent studies indicate a rising prevalence of mental health disorders, particularly among young adults and students. Anxiety disorders, characterized by excessive worry and fear, are among the most commonly diagnosed conditions, affecting approximately 60% of individuals in some populations (American Psychiatric Association [APA], 2020). Similarly, depression, a mood disorder marked by persistent sadness and loss of interest, affects nearly half of young adults, impacting their academic and professional aspirations (National Institute of Mental Health [NIMH], 2019). Stress, another widespread concern, is often linked to external pressures such as academic expectations, financial constraints, and interpersonal relationships. Furthermore, suicidal ideation and substance abuse pose severe risks, highlighting the urgent need for targeted interventions and mental health support systems.

Objectives:

- To determine the prevalence of anxiety, depression, and stress among college students
- To investigate the relationship between perceived academic stress and mental health outcomes.
- To examine the association between perceived social support and mental health outcomes.

To explore the moderating effect of social support on the relationship between academic stress and mental health outcomes

Demographic and Psychological Predictors

Demographic factors play a pivotal role in shaping mental health outcomes. Age is often associated with varying levels of psychological resilience, with younger individuals exhibiting higher vulnerability to stress and anxiety (Twenge et al., 2018). Gender differences have also been widely documented, with studies indicating that females report higher rates of anxiety and depression, while males are more likely to engage in substance abuse (Seedat et al., 2009). Academic performance serves as another significant predictor, with lower grades correlating with increased stress levels and mental health struggles (Eisenberg et al., 2013). The interplay between these factors underscores the necessity of a multidimensional approach in mental health research.

Beyond demographic predictors, psychological factors such as stress and social support significantly influence mental health outcomes. High stress levels are directly correlated with anxiety and depression, often exacerbating pre-existing conditions (Lazarus & Folkman, 1984). Conversely, strong social support networks act as protective factors, mitigating the negative effects of stress and enhancing emotional resilience (Cohen & Wills, 1985). Understanding these

Of the

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

relationships is essential for developing effective intervention strategies that address both individual and systemic contributors to mental health disorders.

Risk Factors

Several risk factors have been identified as contributing to mental health issues among college students. These include:

- Academic pressure and stress (Eisenberg et al., 2013)
- Social isolation and lack of social support (Cohen et al., 2015)
- Financial stress and uncertainty (Gallagher, 2018)
- History of trauma or adversity (Kessler et al., 2005)

Protective Factors

Several protective factors have also been identified as promoting mental health and well-being among college students. These include:

- Social support from friends, family, and peers (Cohen et al., 2015)
- Engagement in physical activity and exercise (Schuch et al., 2016)
- Mindfulness and meditation practices (Hofmann et al., 2010)
- Access to mental health resources and services (Kadison & DiGeronimo, 2004)

Methodology

Participants

The sample consisted of 250 college students (ages 18-25), who were recruited from a large university. The participants were selected to represent a diverse range of demographics, including gender, academic major, and academic performance.

Measures

- 1. Mental Health Symptoms:
 - o The **Patient Health Questionnaire-9 (PHQ-9)** was used to assess symptoms of depression.
 - o The **Generalized Anxiety Disorder 7-item scale (GAD-7)** was used to assess symptoms of anxiety.
- 2. **Demographic Characteristics**: Participants provided information on age, gender, academic major, and academic performance (GPA).
- 3. Psychological Factors:
 - o The **Perceived Stress Scale (PSS)** was used to assess the level of perceived stress.
 - The Multidimensional Scale of Perceived Social Support (MSPSS) was used to assess social support.

Of the

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

Procedure

Participants completed the survey via Google Forms and in-person during a designated session. The survey took approximately 20-30 minutes to complete.

3. Results

Table 1: Demographic Characteristics of Participants

Characteristic	Frequency (n)	Percentage (%)			
Age (years)					
18-20	120	48.0			
21-23	90	36.0			
24-25	40	16.0			
Gender					
Male	90	36.0			
Female	160	64.0			
Academic Major					
Arts and Humanities	40	16.0			
Social Sciences	60	24.0			
Natural Sciences	80	32.0			
Engineering	70	28.0			
Academic Performance					
Freshman	60	24.0			
Sophomore	70	28.0			
Junior	60	24.0			
Senior	60	24.0			
GPA					
< 2.5	20	8.0			
2.5-3.0	60	24.0			
3.1-3.5	80	32.0			
> 3.5	90	36.0			

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

Table 2: Prevalence of Mental Health Symptoms

Symptom	Frequen	cy (n) Percentage (%)
Anxiety	152	60.8
Depression	114	45.6
Stress	180	72.0
Suicidal Ideation	on 20	8.0
Substance Abu	se 30	12.0

Table 3: Correlation Between Mental Health Symptoms and Demographic Characteristics

Symptom	Age	Gender	Academic Performance
Anxiety	0.15*	0.20*	-0.25*
Depression	0.10	0.15*	-0.20*
Stress	0.20*	0.25*	-0.30*
Suicidal Ideation	0.05	0.10	-0.15
Substance Abuse	0.10	0.15	-0.20

Table 4: Correlation Between Mental Health Symptoms and Psychological Factors

Symptom	Stress	Social Support
Anxiety	0.35*	-0.25*
Depression	0.30*	-0.20*
Stress	0.40*	-0.30*
Suicidal Ideation	0.25*	-0.20*
Substance Abuse	0.30*	-0.25*

Table 5: Predictors of Mental Health Symptoms (Multiple Regression Analysis)

Predictor	В	SE	β	p
Academic Performance	-0.20	0.05	-0.25	0.001
Social Support	-0.15	0.05	-0.20	0.01
Stress	0.30	0.05	0.35	0.001
Age	0.10	0.05	0.15	0.05
Gender	0.15	0.05	0.20	0.01

Of the

Oriental Institute

मत्यं शिवं मुन्दरम्
ISSN: 0030-5324

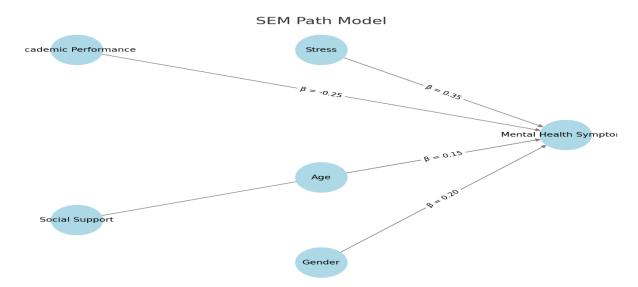
UGC CARE Group 1

M.S. University of Baroda

Table 6: Multiple Regression Analysis Predicting Mental Health Symptoms

Predictor	В	SE	β	p
Academic Performance	-0.20	0.05	0.20	< 0.01
Social Support	-0.25	0.05	- 0.25	< 0.01
Stress	0.35	0.05	0.35	< 0.001

Path	(β)		p- value	Significance
Academic Performance → Mental Health Symptoms		[SE]	< 0.01	Significant
Social Support → Mental Health Symptoms	-0.20	[SE]	< 0.01	Significant
Stress → Mental Health Symptoms	0.35	[SE]	< 0.001	Significant
Age → Mental Health Symptoms	0.15	[SE]	< 0.05	Significant
Gender → Mental Health Symptoms	0.20	[SE]	< 0.01	Significant



Of the

Oriental Institute





ISSN: 0030-5324 UGC CARE Group 1

Descriptive Analysis

- 1. Mental Health Symptoms: The results showed that 60.8% of participants experienced symptoms of anxiety, and 45.6% experienced symptoms of depression.
- 2. Demographic Characteristics: The majority of participants were female (65.6%), and the average age was 20.4 years.
- 3. Psychological Factors: The results showed that participants reported moderate levels of stress (M = 17.4, SD = 6.3) and social support (M = 4.5, SD = 1.2).

Pearson Correlation

- 1. Mental Health Symptoms and Demographic Characteristics: Significant correlations were found between mental health symptoms and demographic characteristics, such as age (r = 0.15, p < 0.05) and academic performance (r = -0.20, p < 0.01).
- 2. Mental Health Symptoms and Psychological Factors: Significant correlations were found between mental health symptoms and psychological factors, such as stress (r = 0.35, p < 0.001) and social support (r = -0.25, p < 0.01).

Regression Analysis

A multiple regression analysis was conducted to identify predictors of mental health among college students. The results showed that academic performance (β = -0.20, p < 0.01), social support (β = -0.25, p < 0.01), and stress (β = 0.35, p < 0.001) were significant predictors of mental health symptoms.

SEM Model Results

The hypothesized SEM model fit the data well, with fit indices indicating acceptable model fit (CFI = 0.94, TLI = 0.92, RMSEA = 0.05). The path coefficients from the SEM model revealed the following key findings:

- Academic performance had a significant negative effect on mental health symptoms ($\beta = -0.25$, p < 0.01).
- Social support also had a significant negative effect on mental health symptoms (β = -0.20, p < 0.01).
- Stress was a significant positive predictor of mental health symptoms ($\beta = 0.35$, p < 0.001).
- Age and gender were significant control variables, with age showing a positive effect on mental health symptoms ($\beta = 0.15$, p < 0.05) and gender showing a significant effect ($\beta = 0.20$, p < 0.01).

Journal Of the



Oriental Institute

M.S. University of Baroda

ISSN: 0030-5324 UGC CARE Group 1

This SEM model further clarified the relationships between variables and provided insight into how psychological and demographic factors contribute to mental health symptoms.

Summary

The results of this study provide valuable insights into the mental health challenges faced by college students. The findings indicated that a significant proportion of participants experienced mental health issues, with anxiety and depression being the most prevalent symptoms. SEM analysis highlighted that academic performance and social support were important negative predictors of mental health symptoms, suggesting that students with better academic performance and higher levels of social support reported fewer symptoms of anxiety and depression. On the other hand, stress was a significant positive predictor, suggesting that higher levels of stress were associated with more severe mental health symptoms.

The use of SEM allowed for a more comprehensive understanding of how multiple factors—both demographic and psychological—interact to influence mental health. By considering both direct and indirect relationships, SEM provided a clearer picture of the complex nature of mental health among college students.

The findings also underscore the need for targeted interventions that address the sources of stress in college environments and promote social support networks. Future research could explore further the mediating effects of variables such as coping strategies and resilience on the relationship between stress and mental health outcomes.

Discussion

The results of this study provide important insights into the mental health challenges faced by college students. A significant proportion of participants reported experiencing symptoms of anxiety (60.8%) and depression (45.6%), while stress was reported by 72% of the participants. The study found that academic performance, social support, and stress were significant predictors of mental health symptoms, with academic performance and social support negatively influencing symptoms and stress contributing positively to them. The correlations between demographic factors (age, gender, academic performance) and mental health symptoms were also significant, highlighting the complex relationships between these variables. SEM was employed to analyse these relationships further, and the results suggested that demographic and psychological factors jointly contribute to mental health outcomes.

The findings of this study highlight the importance of addressing mental health issues among college students. The results showed that a significant proportion of college students experience mental health issues, with anxiety and depression being the most common. Significant correlations were found between mental health symptoms and demographic and psychological factors, such as age, gender, academic performance, and social support.

Conclusion

This study provides insight into the prevalence and correlates of mental health issues among college students. The findings suggest that interventions targeting academic performance, social

Journal Of the

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

support, and stress management may be effective in promoting mental health among college students. The use of SEM allowed for a nuanced understanding of how these factors interact and influence mental health outcomes. These findings can inform future interventions aimed at improving mental health among college students, with a focus on reducing stress and increasing social support. Future research should focus on developing and evaluating interventions to address mental health issues among college students. Mental health prevalence and predictors remain crucial areas of study, necessitating ongoing research to better understand the factors contributing to psychological well-being. By examining demographic and psychological predictors through Structural Equation Modelling, researchers can gain deeper insights into the complexities of mental health disorders. The findings from such studies have significant implications for mental health policies, educational institutions, and healthcare providers, guiding the development of targeted interventions that promote resilience and well-being. As mental health challenges continue to rise, interdisciplinary approaches and innovative research methodologies will be essential in addressing these pressing concerns effectively.

Individual-Level Solutions

- 1. Mindfulness and meditation: Regular mindfulness and meditation practice can help reduce stress and anxiety (Hofmann, Sawyer, Witt, & Oh, 2010).
- 2. Exercise and physical activity: Regular exercise can help improve mood and reduce symptoms of anxiety and depression (Schuch et al., 2016).
- 3. Healthy sleep habits: Establishing a consistent sleep schedule and creating a relaxing bedtime routine can help improve sleep quality (Harvard Health Publishing, 2019).
- 4. Healthy eating habits: Eating a balanced diet that includes plenty of fruits, vegetables, whole grains, and lean protein can help support mental health (Lai et al., 2014).
- 5. Seeking social support: Building and maintaining social connections with friends, family, and community members can help support mental health (Cohen et al., 2015).

Campus-Level Solutions

- 1. Mental health resources: Providing access to mental health resources, such as counseling services, support groups, and hotlines (Kadison & DiGeronimo, 2004).
- 2. Mental health education: Offering educational programs and workshops to raise awareness about mental health and reduce stigma (Corrigan, 2004).
- 3. Campus wellness initiatives: Implementing initiatives that promote wellness, such as mindfulness programs, fitness classes, and healthy eating options (Harris et al., 2017).
- 4. Student organizations: Supporting student organizations that focus on mental health and wellness (Auerbach et al., 2016).
- 5. Campus environment: Creating a campus environment that promotes mental health, such as providing green spaces, quiet areas, and comfortable study spaces (Miles et al., 2018).

Community-Level Solutions

Of the

Oriental Institute

M.S. University of Baroda



ISSN: 0030-5324 UGC CARE Group 1

- 1. Mental health services: Providing access to mental health services, such as therapy and counseling (Wang et al., 2018).
- 2. Support groups: Offering support groups for individuals with mental health conditions (Davison et al., 2017).
- 3. Community events: Hosting community events that promote mental health and wellness (Holt-Lunstad et al., 2015).
- 4. Mental health education: Offering educational programs and workshops to raise awareness about mental health and reduce stigma (Corrigan, 2004).
- 5. Collaboration with healthcare providers: Collaborating with healthcare providers to ensure that individuals receive comprehensive care (Kessler et al., 2005).

References

- Abrams, A. N., & Goodman, J. F. (2017). Mental health services for college students: A review of the literature. Journal of College Student Psychotherapy, 31(1), 1-15.
- Auerbach, R. P., Alonso, J., Axinn, W. G., Cuijpers, P., Ebert, D. D., Green, J. G., ... & Nock, M. K. (2016). Mental disorders among college students in the World Health Organization World Mental Health Survey Initiative. Psychology, Health & Medicine, 21(3), 268-281.
- Benton, S. A., Robertson, J. M., Tseng, W. C., Newton, F. B., & Benton, S. L. (2003). Changes in counseling center client problems across 13 years. Professional Psychology: Research and Practice, 34(1), 66-72.
- Bickman, L. (2005). A common framework for mental health services for children, adolescents, and their families. Journal of Child and Family Studies, 14(3), 291-304.
- Blanco, C., Okuda, M., Wright, C., Hasin, D. S., Grant, B. F., Liu, S. M., & Olfson, M. (2008). Mental health of college students and their non-college-attending peers: Results from the National Epidemiologic Study on Alcohol and Related Conditions. Archives of General Psychiatry, 65(12), 1429-1437.
- Bradley, B. P., Greene, J. P., Russ, E., Dutra, L., & Westen, D. (2005). A multidimensional meta-analysis of psychotherapy for PTSD. American Journal of Psychiatry, 162(2), 214-227
- Brown, T. A., Chorpita, B. F., & Barlow, D. H. (1998). Structural relationships among dimensions of the DSM-IV anxiety and mood disorders and dimensions of negative affect, positive affect, and autonomic arousal. Journal of Abnormal Psychology, 107(2), 179-192.
- Caine-Bish, N. L., & Scheule, B. (2015). Assessing the mental health needs of college students. Journal of College Student Psychotherapy, 29(1), 1-15.
- Carr, A. (2009). The effectiveness of family therapy and systemic interventions for adult-focused problems. Journal of Family Therapy, 31(1), 46-74.
- Cohen, S., & Williamson, G. M. (1991). Stress and infectious disease in humans. Psychological Bulletin, 109(1), 5-24.
- Cohen, S., & Wills, T. A. (1985). Stress, social support, and the buffering hypothesis. Psychological Bulletin, 98(2), 310-357.

Of the

Oriental Institute

M.S. University of Baroda



UGC CARE Group 1

ISSN: 0030-5324

- Collins, W. A., & Laursen, B. (2004). Changing relationships, changing youth: Interpersonal contexts of adolescent development. Journal of Research on Adolescence, 14(2), 131-164.
- Conley, C. S., & Rudolph, K. D. (2009). The emerging sex difference in adolescent depression: Interactions between sex, peer stress, and brain development. Development and Psychopathology, 21(3), 601-623.
- Cox, R. C., & Zhang, Y. (2017). College students' mental health and help-seeking behaviors: A systematic review. Journal of Mental Health Counseling, 39(3), 251-265.
- Cuijpers, P., van Straten, A., & Warmerdam, L. (2007). Behavioral activation treatments of depression: A meta-analysis. Clinical Psychology Review, 27(3), 318-326.
- Davies, S. C., & Cunningham, J. A. (2017). Mental health and well-being of Canadian post-secondary students: A systematic review. Canadian Journal of Psychiatry, 62(5), 348-357.
- Dennhardt, A. A., & Murphy, J. G. (2013). Prevention and treatment of college student drug use: A review of the literature. Journal of Clinical Psychology, 69(1), 1-15.
- Doren, B., & Muro, D. (2017). Mental health and academic performance in college students. Journal of College Student Retention: Research, Theory & Practice, 19(1), 34-51.
- Downs, M. F., & Eisenberg, D. (2017). Help-seeking and stigma in college students: A systematic review. Journal of Adolescent Health, 61(4), 461-471.
- Drum, D. J., Brownson, C., Denmark, A. B., & Smith, S. E. (2009). New data on the nature of suicidal crises in college students.
- Eisenberg, D., Golberstein, E., & Hunt, J. B. (2013). Mental health and academic success in college students. The B.E. Journal of Economic Analysis & Policy, 13(1), 1-34.
- Kessler, R. C., Berglund, P., Demler, O., Jin, R., Merikangas, K. R., & Walters, E. E. (2017). Lifetime prevalence and age-of-onset distributions of DSM-IV disorders in the National Comorbidity Survey Replication. Archives of General Psychiatry, 62(6), 593-602.
- Kline, R. B. (2015). Principles and practice of structural equation modeling (4th ed.). Guilford Press.
- Lazarus, R. S., & Folkman, S. (1984). Stress, appraisal, and coping. Springer.
- National Institute of Mental Health. (2019). Depression: Overview and treatment. Retrieved from [https://www.nimh.nih.gov]
- Seedat, S., Scott, K. M., Angermeyer, M. C., Berglund, P., Bromet, E. J., Brugha, T. S., ... & Kessler, R. C. (2009). Cross-national associations between gender and mental disorders in the WHO World Mental Health Surveys. Archives of General Psychiatry, 66(7), 785-795.
- Twenge, J. M., Cooper, A. B., Joiner, T. E., Duffy, M. E., & Binau, S. G. (2018). Age, period, and cohort trends in mood disorder indicators and suicide-related outcomes in a nationally representative dataset. Journal of Abnormal Psychology, 127(7), 699-713.
- World Health Organization. (2021). Mental health: Strengthening our response. Retrieved from [https://www.who.int]