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Academic Stress and Psychological Well-Being among College Students

Prerona Mukherjee[1], Dr. Richa Gupta[2]

[1]M.Sc (Psychology) Student and Corresponding Author, Department of Psychology, Centre for Distance and Online Education, JAIN (Deemed-to-be University), Bengaluru, India
[2]Assistant Professor, Department of Psychology, Centre for Distance and Online Education, JAIN (Deemed-to-be University), Bengaluru, India

Abstract
Undergraduate and post graduate course work inevitably involves certain academmic tensions that shape an individual's broader mental health. This project evaluated how perceived educational stress influences overal psychological functioning in students. Adopting a cross-sectional co relational framework, 60 young adults (equal numbers of men and women, aged between 18-24) completed the perception of academic stress scale along with Ryff's18 item psychological well-being scale. Statistical evaluations incorporated standard descriptive matrics, Pearson corelation coefficients and independent samples t-test. The analysis confirmed a substantial inverse corelation ($r=-0.65$, $p<0.01$), demonstrating that elevated levels of study related strain coincide with diminished personal well-being. Gender differences proved statistically negligible across both educational stress ($p=0.62$) and psychological health ($p=0.35$). These outcomes are examined within the context of contemporary literature, accompanied by recommendations for campus wellness initiatives and institutional counseling.

Keywords: academic strain, psychological health, college students, gender, correlation

1. Introduction

Transitioning into tertiary education forces students to abandon the guided routines of secondary school for an environment defined by autonomous scheduling, independent scholarship, an early occupational pressures. Dense curricular requirements, testing cycles, placement demands, and fammilial goals compound these obligations. Whenever these scholastic responsibilities outpace personal coping capacity, academic stress emerges. According Bedewy and Gabriel (2025), such kind of distress predominantly originates from external performance expectations, cummmulative course loads, examminations, and the individual's subjective assessment of their own scholastic abilities. Cross-national inquiries consistently verify that this form of tension is pervasive across university cohorts and frequently co-occurs with depressive episodes, chronic anxiety and reduced quality of living (Acharya et al., 2018; Pascoe et al., 2020; Ribeiro et al., 2018).

The corresponding construct under scrutiny is psychological well-being. While traditional clinical paradigmms framed mental health primarily as the mere absense of pathology. Humanistic and positive psychology shifted focus towards human resilience, purpose, and optimal everyday functioning (Seligman & Csikszentmihalyi, 2000). Ryff (1989) formulated this through a multi dimmensional lens encompassing self-acceptance, environmental mastery, purposeful living, personal growth, positive

interpersonal connections and autonomy. This eudaimonic paradigm differs sharply from hedonic frammeworks prioritising momentary effect or subjective satisfaction (Diener, 1984). For university cohorts, robust psychological health underpines academic drive, collaborative capacity, learning efficacy and recovery from adversity; consequently, chronic strain that degrades these faculties presents a genuine threat (Barbayannis et al., 2022). Within the Indian educational landscape, intense cultural focus on competitive grades and vocational credentials amplifies domestic expectations, exacerbating this dynamic (Deb et al., 2015; Reddy et al., 2018).

1.1 Theoretical Perspectives

Several foundational models explain this interaction: Selye's (1956) General Adaptation Syndrome outlines how physiological systems confront prolonged stress through alarm, resistance and eventual depletion. Extended examination periodswith insufficient rest, risk taking the learners into this terminal exhausation state.

Lazarus & Folkman's (1984) Trandsactional Cognitive Framework indicates that stress develops when perceived situational requirements exceed accessible personal reserves clarifying why identical evaluative tasks provoke varying reactions among peers.

Hobfoll's (1989) Conseravtion of resources paradigm suggests that tension surfaces whenever core assests-- including peer assistance, personal time, energy and self worth are threatened or drained relentless scholastic workloads inherently erode these reserves, dampening personal welfare.

Ryff's Multidimensional model (1989; Ryff & Keyes, 1995) operationalises the multi faceted outcome matrics under evaluation.

1.2 Significance

Because late adolescence and early adulthood are critical windows for psychological vulnerabilities, identifying scholastic stressors remain parammount (Acharya et al., 2018; Pascoe et al., 2020). Existing literature drives towards clinical distress indicators rather than constructive personal capacities, leaving Indian collegiate degraphics under-analysed. Clarifying these kind of patterns often offer actionable guidance for students, educators and curriculum planners, designing stress-alleviation frameworks and balanced assessmment structures.

2. Review of Literature

Synthesizing prior evidence, Barbayannis et al. (2022) confirmed that higher academic distress typically impairs mental stability, with participant gender, academic stage and environmental disruptions altering the outcome. Pascoe et al. (2020) observed that educational tension can damage student welfare and their cognitive performance. But on the other, hand physical activity, mindfulness routines, and interpersonal support can counter these effects. Acharya et al. (2018) highlighted strong associations between mood disturbances and common tertiary stressors. In their assessment of university students, Reddy et al. (2018) determined that grading standards, external expectations and academic competition represent the most potent triggers, which advocates for interventions targeted ath these precise areas.

Ribeiro et al. (2018) reported across a systematic synthesis that severe tension systematically curtails health related quality of life, particularly in intensiveprofessional disciplines. Bedewy and Gabriel (2015) successfully isolated these dimensions into an operational inventory. In an Indian context, Deb et al. (2015) connected academic standards to elevated distress among adolescents. Misra and Castillo (2004) underscored cultural nuances and observed divergent stress triggers and reactions across both

international and domestic groups of students, while Misra and McKean (2000) identified meaningful links among time-structuring abilities, anxiety symptoms, and recreational satisfaction.

Overall, impaired wellness solidly ties with excessive cousework tension. Nonetheless, three main limitations persist: prior projects frequently define well-being through pathology deficits ratherthan flourishing; higher education cohorts from India are poorly examined reletive to sexondary school samples; and investigations overwhelmingly rely on self-report matrics. The present inquiry targets the first two issues by evaluating collegiate samples using a comprehensive, multi-component well-being scale.

3. Method

3.1 Aim, Objectives and Hypotheses

The primary goal was to explore the association between perceived educational strain and multidimensional mental health in higher education. The goals were to:

1. Benchmark baseline indicators for both target constructs
2. Determine the correlation connecting academic stress to psychological well-being
3. Detect potential gnder based differences across every measure

The hypotheses tested were

- H1: A statistically significant negative correlation exists between academic stress and psychological well-being.
- H2: Men and women exhibit significant level of differences in academic stress.
- H3: Men and women exhibit significant level of differences in psychological well-being.

3.2 Design and Participants

This research applied a quantitative, cross-sectional questionnaire strategy. Cross-sectional sampling tracks concurrent association without establishing direct casual pathways. The final sample contains 60 individuals (30 males and 30 females; mean age M=20.5 years, range 18-24) persuing Science, Commerce, Humanities programmes. Inclusion criteria mandated active colligiate enrolment, minimum age of 18, English language comprehension and informed voluntary participation. At 30 individuals per gender sub group the statistical power remains restricted to discerning large effect sizes (Cohen, 1988).

3.3 Assessment Instruments

- Perception of Academic Stress Scale (PAS): developed by Bedewy and Gabriel's (2015), this 18-item instrument measures academic expectations (4 items), workload and testing pressures (8 items), and personal academic self-perceptions (6 items). Responses uses a 5 point Likert's scale (1=strongly disagree, to 5= strongly agree). Items 2 , 3 ,9 ,11 and 16 require reverse-scoring. Aggregate values range between 18 and 90 with elevated sums reflecting intensified stress.
- Ryff's Psychological Well-being Scale (18 item form): Derived from Ryff and Keyes (1995), this short inventory allocates 3 items across 6 distinct well-being subscales, rated on a 6 point scale. Reverse coded items are adjusted so that higher overall scores (range 18-108) indicate healthier psychological functioning.
- Demographic details were gathered via an introductory profile questionnaire.

3.4 Procedure, Ethics and Analysis

The instruments, demohragphic quiries, and informed consent statements were compiled into a single survey protocol requiring 10-15 minutes to complete. Enrolment remained optional and fully anonymous. Participants retained the right to discontinue at any stage, and collected values were

evaluated collectively. Contact information for psychological support channels was provided to all participants. Following dtata cleaning and score reversal, complete entries (N=60) were analysed using descriptive parameters, bivariate Pearson correlation (H1), and independent samples t-tests (H2, H3) at a two-tailed alpha of 0.05.

4. Findings

Descriptive statistics revealed moderate-to-elevated educational tension alongside marked variation in personal well-being across the cohort.

Table 1 summarises the scores. Academic stress was moderate to fairly high, and well-being varied considerably across students.

Table 1. Descriptive statistics (N = 60)

Variable	Min	Max	M (Mean)	SD (Standard deviation)
Academic stress (PAS)	38	82	58.42	8.21
Psychological well-being (PWB)	45	98	72.55	10.43

H1. The correlation between the two variables was $r = -0.65$ ($p < .01$), a strong negative relationship, so H1 was supported. Higher stress went with lower well-being.

H2 and H3. As Table 2 shows, men and women did not differ significantly in stress ($t = -0.49$, $p = .62$) or in well-being ($t = 0.93$, $p = .35$); the small mean differences (Figure 1) were within chance variation. H2 and H3 were therefore not supported.

Table 2. Gender comparison of academic stress and psychological well-being

Variable	Gender	N	M	SD	t	p
Academic stress	Male	30	57.90	8.52	−0.49	.62
	Female	30	58.94	7.95		
Well-being	Male	30	73.80	10.12	0.93	.35
	Female	30	71.30	10.65		

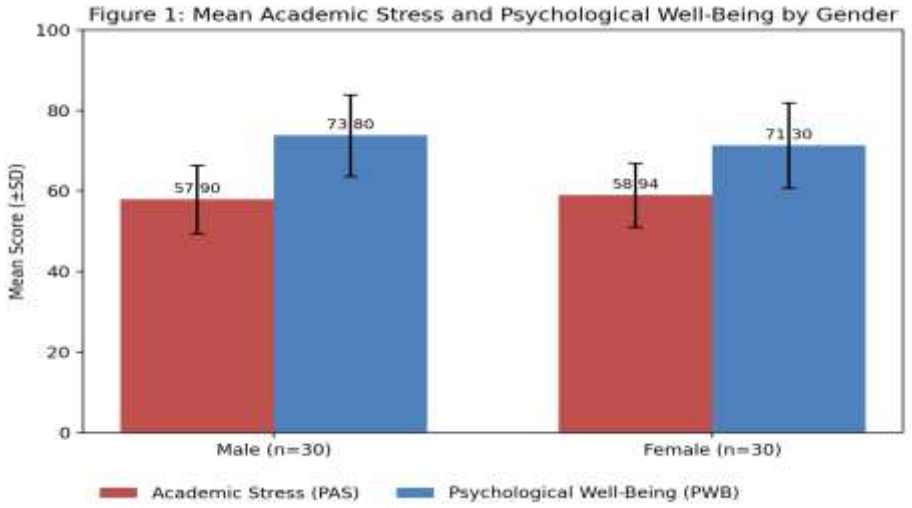

Figure 1. Mean scores (±SD) by gender.

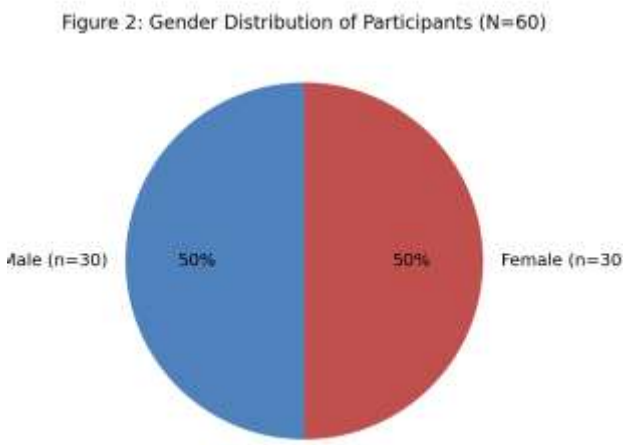

Figure 2. Gender composition of the sample.

5. Discussion

The substantial inverse relationship between educational strain and personal well-being mirrors earlier findings associating high studies strain with degraded mental health and lower quality of life (Acharya et al., 2018; Barbayannis et al., 2022; Ribeiro et al., 2018). These patterns aligns with established theory: Hobfoll's (1989) resource framework highlights how perpetual scholastic demands consume emotional stamina and self-esteem, while Lazarus and Folkman's (1984) transactional concept suggests that students struggle when academic presuure surpasses perceived coping mechanisms. Through Ryff's multidimensional lens, perpetual pressure likely degrades environmental competence, self worth, and existential focus because this research relies on correlational data, bi-directional dynamics cannot be rules out---learners with compromised well-being may also find academic tasks inherently more overwhelming.

The lack of observable gender discrepancies points to a shared eexperience of scholastic pressure among both men and women in this kind of setting. However, the modest subgroup sizes restric the capacity to detect minor variances, and previous work emphasizes that gender linked divergence often flactuates based on cultural and institutional varibales (Barbayannis et al., 2022). Institutional initiatives may consequently yeild better outcomes by targeting personal situational coping rather than designing gender segregated programmes.

5.1 Limitations

Generalizability remains bounded by the modest sample scale drawn from a localised educational setting. Reliance on self report questionnaire introduces vulnerabilities related to subjective appraisal and social desirability tendencies. Furthermore, cross-sectional evaluation fails to illuminate temporal shifts across test cycles or determine casual direction. Unmeasures lifestyle and social parameters including sleep quality, social networks, individual coping techniques and cummulative academic standing could also play significant moderating roles.

5.2 Implications and Recommendations

Higher education authorities can introduce low-barrier counseling programs, establish faculty-student advicing networks to catch academic struggle early, and run interactive workshops focused on coping styles, time organization and emotional regulation. Instructional teams should ensure transperancy

around grading benchmarks, provide prompt constructive remarks, and distribute exam milestones sensibly throughout the term. Viewing holistic health as integral to scholarly achievement will help colleges integrate psychological monitoring into core campus structure.

6. Conclusion

Within this cohort of 60 higher education students pronounced academic stress was tied to reduced psychological well-being, while gender differences remained statistically inconsequential across both factors. Academic development and emotional well-being should therefore be viewed as interconnected prioroties. Subsequent inquiries would benefit from broader participant pools, longitudinal and mixed methods research designs, and explicit tracking of sleep parameters, individual coping strategies, and support frameworks.

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