

Stress and Coping in PA Students: A Mixed Methods Exploration

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Introduction	Methods	Results					
PA students experience significant stress due to the combined pressures of rigorous academics, clinical responsibilities, and financial demands	Participants	Summary Statistics					
		Perceived Stress Scores					
	In 2022, students completed an online survey upon graduating from their programs			n	Range	М	SD
When left unmanaged, elevated stress levels can contribute to burnout, depression, and reduced academic performance ¹	 1,185 graduating students from 109 PA programs 56.0% of all eligible graduating PA students 	Adaptive strategies	Engaged (1)	1,055	0-14	5.73	2.62
			Did not engage (0)	127	0-15	6.49	2.97
Coping strategies are critical in managing stress; adaptive approaches like exercise and social support are linked to improved mental health and academic outcomes ²⁻³	<u>Measures</u>	Neutral strategies	Engaged (1)	251	0-13	5.94	2.66
	 Students provided free-text responses describing how they coped with stress during PA school. Coping strategies were categorized as adaptive, maladaptive, or neutral based on emergent themes. Adaptive (e.g., exercise, social support) Neutral (e.g., leisure activities like watching 		Did not engage (0)	931	0-15	5.78	2.67
		Maladaptive strategies	Engaged (1)	77	0-15	7.35	3.14
In contrast, maladaptive strategies can worsen stress, while neutral strategies may offer only temporary relief without addressing root causes ²⁻³			Did not engage (0)	1,105	0-14	5.70	2.60
		 Model Results Interaction terms between coping strategies were not statistically significant, suggesting the effect of one strategy on stress did not depend on the presence of others Interaction terms were removed from the final model for simplicity 					
<u>Purpose</u>	television) Maladaptive (e.g., substance use, avoidance) 						
This mixed-methods study explores stress and coping among PA students, examining the impact of adaptive, maladaptive, and neutral strategies to inform efforts that promote resilience, reduce stress, and support student well-being and success in their programs.	Each response was coded as having engaged or not engaged in each identified coping strategy.	 The final regression model was significant F(3, 1178) = <0.001, p < 0.05 Explaining 2.4% of the variance in stress levels (r² = .024). Adaptive strategies: β =188, P = .538 Neutral strategies: β = .125, P = .553 Maladaptive strategies: Engaged > Did not engage β = 1.556, P ≤ .001 					
	 All students completed the Perceived Stress Scale (short-form). e.g., "In the last month, how often have you felt that you were unable to control the 						
References	important things in your life?" (1 = Almost never; 4 = Very often) ⁴	Summary					
 Bullock G, Kraft L, Amsden K, et al. The prevalence and effect of burnout on graduate healthcare students. <i>Can Med Educ J</i>. 2017;8(3):e90-e108. Cohen S, Wills TA. Stress, social support, and the buffering hypothesis. <i>Psychol Bull</i>. 1985;98(2):310-357. doi:10.1037/0033-2909.98.2.310. Cooper ML, Russell M, George WH. Coping, expectancies, and alcohol abuse: a test of social learning formulations. <i>J Abnorm Psychol</i>. 1988;97(2):218-230. doi:10.1037/0021-843X.97.2.218. Cohen S, Williamson G. Perceived Stress in a Probability Sample of the 	 <u>Analytical Plan</u> Qualitative responses were analyzed using grounded theory (open, axial, and selective coding). Multiple linear regressions were conducted to 	 Coping strategies did not interact, suggesting each strategy's effect on stress is independent of others Maladaptive coping strategies were significantly associated with higher stress levels among students Adaptive and neutral coping strategies did not show a significant effect on stress levels The overall model explained a small but statistically significant portion of the variance in perceived stress 					
 United States. In: Spacapan S, Oskamp S, eds. <i>The Social Psychology of Health.</i> Sage Publications; 1988:31-67. Acheampong C, Davis C, Holder D, Averett P, Savitt T, Campbell K. An exploratory study of stress coping and resiliency of Black men at one medical school: a critical race theory perspective. <i>J Racial Ethn Health Disparities.</i> 2019;6(1):214-219. doi:10.1007/s40615-018-0516-8. 	investigate whether students' engagement in coping strategies was significantly associated with their perceived stress levels.	Conclusion					
		Maladaptive coping significantly contributes to higher stress levels in PA students, whereas adaptive strategies alone may not sufficiently reduce stress. This highlights the need for programs to implement initiatives that directly address maladaptive behaviors. Institutional					
PAEA would like to thank the PA students who participated in these surveys and the PA programs that facilitated data collection.		support remains essential in helping students manage stress effectively. Building on prior research in medical education, future studies in PA should examine how stress and coping vary across student populations to inform strategies that address a range of experiences and needs ⁵					