

BACKGROUND

- Pharmacy schools and colleges in the US use NAPLEX pass rates to gauge the effectiveness of program outcomes and student learning methods.
- Despite previous research on other school characteristics, the literature is scant on whether faculty size impacts NAPLEX pass rates.
- Theoretically, having a high number of faculty members in a pharmacy school may enrich student experience and promote individualized learning. However, previous research did not address the impact of this factor on NAPLEX pass rates.
- Previous research demonstrated that NAPLEX pass rates are impacted by school age (graduates of older schools have higher pass rates) and student size (larger classes tended to have higher NAPLRX pass rates).

OBJECTIVE

- This study aimed to investigate the association between faculty size and NAPLEX first-attempt pass rates using the published 2023 data.
- We hypothesized that a higher number of faculty is linked to higher NAPLEX pass rates.

Impact of Number of Full-time Faculty Members on **NAPLEX First-Attempt Pass Rates**

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METHODS

- Data was downloaded from 3 sources that are available publicly:
 - The National Association of Boards of Pharmacy website¹
 - The American Association of Colleges of Pharmacy website²
 - Individual pharmacy schools' websites.
- Analysis was limited to US-based pharmacy schools.
- Following IRB approval, a bivariate analysis was conducted to investigate the association betweer 2023 NAPLEX first-attempt pass rates and the number of full-time faculty members reported for the academic year 2022-2023.
- A linear logistic regression model was conducted to answer the research question.
- The following variables were added to the regression model to be controlled for:
 - program age
 - program structure (accelerated vs. traditiona
 - program type (public vs. private)
 - class size (number of degrees conferred).
- Analysis was conducted using SPSS version 28.

Faculty size was positive				
analysis ($r = 301$ n = 1	vely correlated with NAPL 43, <i>p</i> < .001). However, t			
	del ($p = .323$) after controll			
Linear Logistic Regression	Model Showing The Predic	tors of Pas	s Rates, 2023	
	Unstandardized Coefficients		Standardized	t
	B (95% CI)	Std. Error	Coefficients Beta	
(Constant)	.762 (.715808)	.024		32.135
Number of Faculty	.000 (.000001)	.000	.111	.992
Age of School/College	.000 (.000001)	.000	.195	2.021
Type (Public/Private)	038 (076001)	.019	186	-2.050
Program Structure	065 (117013)	.026	208	-2.487
(Traditional/Accelerated) Number of Students	-6.187E-5 (.000000)	.000	030	295
	CONCLUSI			
Although having a large			with curriculum c	deliverv ar
distribution of workload,	this factor is not necessar	•		
pass rates.				
Program administrators	•	•		•
supporting student educ robustness.	ation, such as student eng	jagement,	curriculum contei	nt, and pr



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