Perceptions of Pharmacy Educators Regarding the NAPLEX Pass Rate Puzzle

Hope Brandon, PharmD, MBA^{1,2,3}; Clark Kebodeaux, PharmD, BCACP²; Elizabeth Autry, PharmD, BCPPS^{2,3}; Sara Stallworth, PharmD, MPH, BCCCP^{1,2}; Tyler Bosley, PharmD, MBA, BCPPS^{2,3}; Mandy Jones, PharmD, MPAS, BCPS²; Aric Schadler, PhD^{2,3}; Frank Romanelli, PharmD, MPH, FCCP, FAPhA, BCPS, AAHIVP²

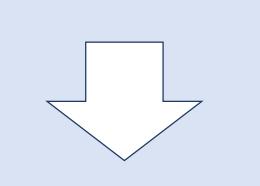
University of Kentucky HealthCare¹ University of Kentucky College of Pharmacy² Kentucky Children's Hospital³



Background

NAPLEX pass rates have dropped from approximately 97% in 2012 to 78% in 2023

Current literature identifies nonmodifiable factors associated with NAPLEX success



Can we identify modifiable factors for schools to consider when thinking about response to pass rates?



Email AACP membership

Survey forwarded linicians

Descriptive

statistics

Pearson's chi-square or Fisher's exact test

ANOVA with posthoc test utilizing a Bonferroni correction factor Demographic data

Categorical variables

Continuous variables

Further information and citations:



Survey Structure

43 items 6 question domains

Likert scale (1-5)

 Preparatory Programs

Summative milestone examinations Curricular and

Survey Domains



 Online learning Online testing

Stress

 Online experiential learning

 NAPLEX blueprint changes

- Delays in students being able to test
- Student choice to delay testing

- SAT/ACT changes
- PCAT



- Pre-pharmacy training
- Admission standards Student

 Technology quality utilization

 Study habits Critical thinking

Memorization

In-person class

Pharmacy work

attendance

experience

Priorities

pedagogical

changes

The recent decline in NAPLEX pass rates is a significant problem. Mean 3.67, SD 0.89 (scale: 1-5)

Results

Pha

Pharm.D. Female (65%) degree (80%) White (79%) Residency training (58%) 726 Responses Actively practicing as a Southern United States (51%) licensed pharmacist (78%)

Top 5 Influencing Factors

Student Quality mean 4.07, SD 0.87

Critical thinking skills mean 3.93, SD 0.94

Pharmacy school admission standards mean 3.78, SD 1.08

Online learning during COVID-19 mean 3.67, SD 1.01

> Online experiential education mean 3.64, SD 1.06

Bonferroni Comparison

15 questions with statistically significant differences

Faculty vs. Mixed Clinical Faculty 6 statistically significant differences

Clinicians vs. Mixed Clinical Faculty 7 statistically significant differences

Faculty vs. Clinicians 12 statistically significant differences

Factors associated with the decline in pass rates are multifactorial.

Practice setting influences perception of influencing factors contributing to the decline in pass rates.