Correlation Between EGPA and First Attempt NCE Scores

Sonja Gonzalez, BSN, RN and Nicole Cavaliere, BSN, RN

Project Chair: Alescia DeVasher Bethea, PhD, CRNA, APRN; Project Mentor: Dana Williams, MBA; Project Reviewer: Lynn Rowe, PhD, APRN Doctor of Nurse Anesthesia Practice

Problem

Entry Grade Point Average (EGPA) has been an admission criterion, yet limited data exists that evaluates if EGPA correlates to first-time NCE scores.

Methods

- Theoretical framework: Vincent Tinto's Longitudinal Model of Student Retention.
- Data was collected about 175 AHU nurse anesthesia graduates.
- Pearson R correlational linear regression analysis was utilized.

Twelve studies selected using GRADE criteria.

Literature Review

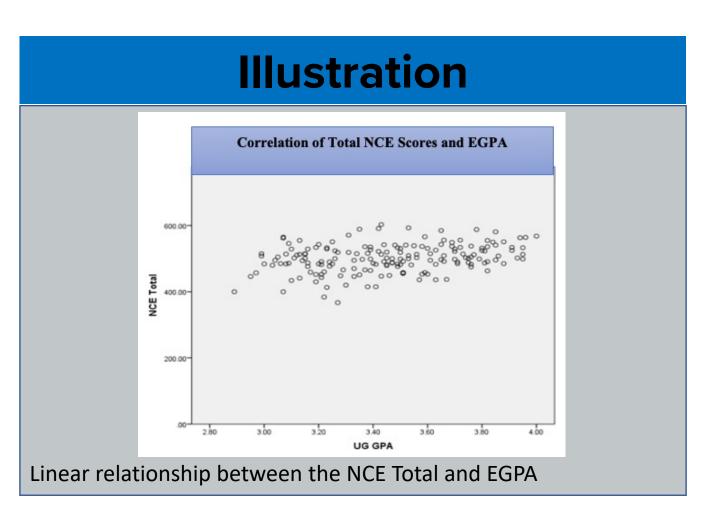
- Each one-point increase in EGPA increases successful program completion by 7.12x.
- Students were also 4.2x less likely to experience academic probation.
- An EGPA of 3.36, science GPA of 3.30, and undergraduate nursing GPA of 3.36 correlates with programmatic success.
- An EGPA of 3.25 and undergraduate nursing GPA of 3.00 reflect up to a 99% program success rate.

EGPAs \geq 3.75 revealed significant correlation

Results

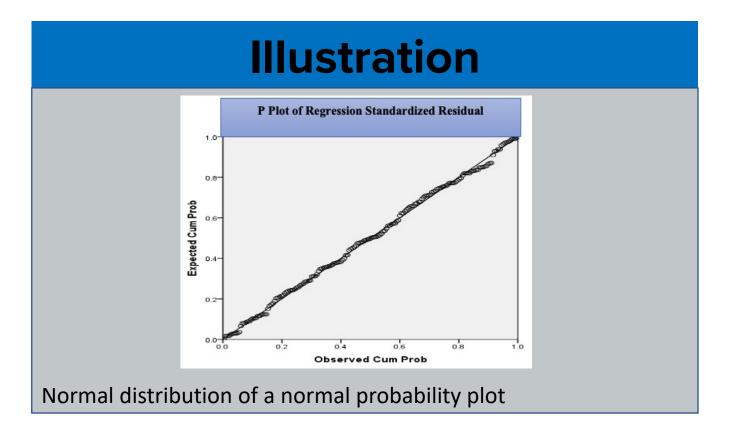
 The individual NCE subcategory, Basic Principles of Nurse Anesthesia, significantly correlated to EGPAs.

(p=.002) with increased NCE total scores.



More Results

- NCE total scores < 450 had an average EGPA of 3.29 with a standard deviation of 0.214.
- NCE total scores ≥ 450 had an average EGPA of 3.48 with a standard deviation of 0.269.



Discussion & Implications

Increasing the minimum EGPA from 3.00 to 3.21 will increase the prospect of a first-attempt total NCE score of 450 or greater.

Limitations included a lack of EGPA breakdown, different undergraduate schools, and utilization of different methods for NCE preparation.

Conclusions

EGPA has a significant correlation to academic success and should continue to be considered in the admission process for AHU's graduate nurse anesthesia program.

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