Correlation of Variables for Program Success and First Time SEE Brian Anderson, BSN, RN, SRNA and Derik Gotay, BSN, RN, SRNA

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Problem

- Nurse anesthesia programs are difficult and have limited seat availability
- Selection and admission requirements have been established, but program admission does not guarantee graduation
- Preadmission variables may identify applicants most likely to succeed within the program and ultimately the NCE

Literature Review

- For every one-point increase in cGPA, the chance of successfully completing a graduate nursing program increases up to 7.12 times and students were 4.2 times less likely to experience academic probation
- For every one-point increase in sGPA, students were 3 times less likely to experience academic probation
- An average cGPA of 3.25 and undergraduate nursing GPA of 3.00 predicted a 99% success rate for master's nursing students
- cGPA of 3.36, sGPA of 3.30, and undergraduate nursing GPA of 3.36 significantly correlate to student success
- Pre-admission GPA of 3.25 showed high probability of successfully passing the NCE
- SRNAs with an average program cGPA of 3.64 or a program sGPA of 3.53 are associated with higher scores on NCE than SRNAs with an average program cGPA of 3.37 or a program sGPA of 3.14

Methods

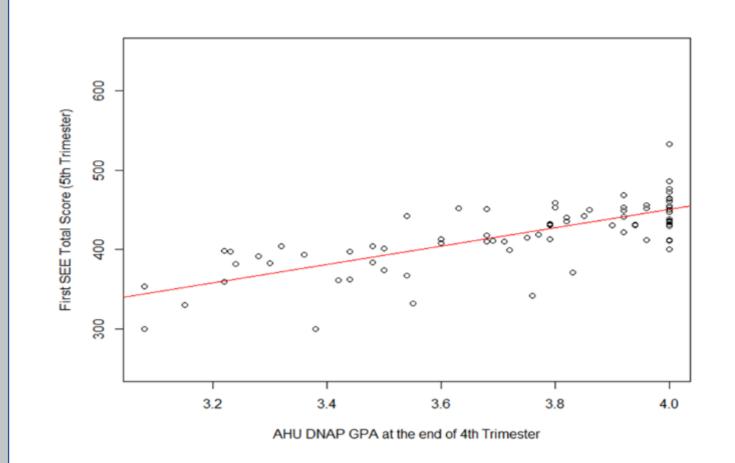
- Data was collected about 80 (N= 80) AHU DNAP Program SRNAs from the graduating cohorts of 2021 through 2023
- The Spearman's Rho Correlation
 Test was performed on cGPA,
 sGPA, total GRE score, and HSRT
 overall score to determine if there
 was a predictive correlation
 between the NAPGPA and SEE
 total score
- Using one standard deviation (SD 35.4) below the minimum SEE total score that correlated to a passing performance on the first-time NCE attempt (443.1), a SEE total score of 407.7 was used as a benchmark for academic recommendations

Results

This study found four statistically significant correlations:

- Moderate positive relationship between cGPA with NAPGPA (r = 0.437, p<0.001)
- Moderate positive relationship between cGPA with SEE total score (r = 0.359, p=0.001)

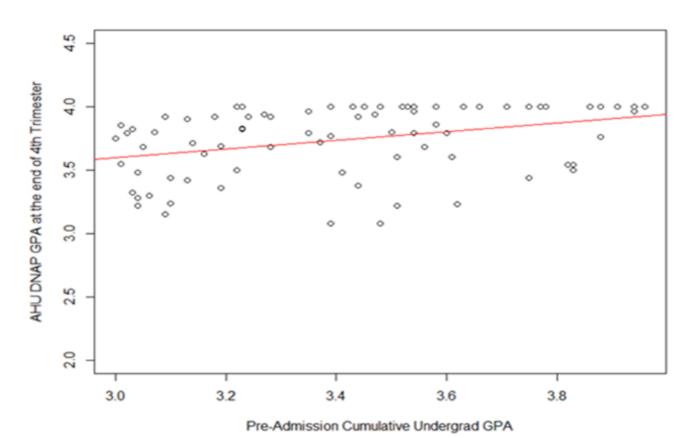
NAPGPA with SEE Total Score



More Results

- Moderate positive relationship between sGPA with SEE total score (r = 0.329, p=0.015)
- Strong positive relationship between NAPGPA and SEE total scores (r = 0.76 and p<0.001)

CGPA with NAPGPA



Discussions & Recommendations

- Increase the minimum cGPA requirement from 3.00 to 3.10
- Add sGPA into the preadmission requirements with a minimum sGPA of 3.10
- Student with a NAPGPA below
 3.60 be place on a PIP
- Do not use the HSRT as a replacement for the GRE
- Consider minimal weighting of the total GRE score in the admission rubric
- Limitations: Small sample size, data gathered from only one university

Conclusions

 These recommendations may lead to changes in AHU's DNAP Program as pre-admission criteria to help select candidates who may have the highest probability of completing the program and passing the NCE on the first attempt and/or to changes in AHU's DNAP program's progression requirements

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