

Title:

Can Nursing Content Standardized Tests Predict NCLEX-RN Outcomes?

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Session Title:

NCLEX Outcomes

Slot:

2D: Friday, April 4, 2014: 11:45 AM-12:30 PM

Scheduled Time:

12:05 PM

Keywords:

NCLEX-RN predictors and Standardized tests

References:

Dr. Marcia Miller, Associate Professor of the Baccalaureate Nursing Department, Indiana State University

Learning Activity:

LEARNING OBJECTIVES	EXPANDED CONTENT OUTLINE	TIME ALLOTTED	FACULTY/SP EAKER	TEACHING/LEARNING METHOD	EVALUATION/FEEDBACK
Example Critique selected definition of the term, "curriculum"	Example Definitions of "curriculum" <ul style="list-style-type: none">• Course of study• Arrangements of instructional materials• The subject matter that is taught• Cultural	Example 20 minutes	Example Name, Credentials	Example Lecture PowerPoint presentation Participant feedback	Example Group discussion: What does cultural training mean to you?

	"training" <ul style="list-style-type: none"> Planned engagement of learners 				
Identify NCLEX-RN predictors among the nursing content standardized tests	Problem statement <ul style="list-style-type: none"> Nursing shortage The impacts of NCLEX-RN failure Literature review <ul style="list-style-type: none"> Predictors of NCLEX-RN success on the first-attempt Predictors of NCLEX-RN failure on the first-attempt Controversy Purpose statement Research questions Data analysis methods <ul style="list-style-type: none"> t-test Logistic regression Participants Comparison of the scores on the standardized tests Predicting the probabilities of NCLEX-RN success <ul style="list-style-type: none"> 	30 minutes	Yei-Jin Yeom, RN, MSN	PowerPoint presentation Q&A	Participant feedback

	Regression coefficients for predicting NCLEX-RN success Predicting the probabilities of NCLEX-RN failure •Regression coefficients for predicting NCLEX-RN failure Conclusions Limitations Significance of Study				
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Abstract Text:

This study was to investigate effective predictors of NCLEX-RN outcomes on the first-attempt among nursing content standardized tests (adult medical-surgical, fundamentals for nursing, pharmacology, maternal-newborn, nursing care of children, mental health, community health, and leadership and management) conducted throughout the nursing program.

NCLEX-RN outcomes and individual adjusted scores on the standardized tests of 151 graduates (118 graduates who passed and 33 graduates who failed the NCLEX-RN on the first-attempt) from the baccalaureate nursing program were analyzed by a *t*-test and logistic regression. .

There were significant statistical differences between the two groups with NCLEX-RN success and failure in the individual adjusted scores on the standardized tests except the fundamental for nursing ($p=.62$) and nursing care of children ($p=.759$) tests. The result of logistic regression indicated that the overall model was statistically reliable in distinguishing those who succeed on the NCLEX-RN on the first-attempt (-2 Log likelihood=111.713, $X^2(2)=46.854$, and $p=.000$). The model correctly classified 93.2 percent (110 out of 118) of the NCLEX-RN success. Also, the overall model was statistically significant in distinguishing those who failed the NCLEX-RN on the first-attempt (-2 Log likelihood=111.713, $X^2(2)=46.854$, and $p=.000$); however, the model correctly classified only 33.3 percent (11 out of 33) of the NCLEX-RN failure cases. Adult medical-surgical, pharmacology, and community health standardized tests were central to the prediction of both NCLEX-RN success and failure; however, a much lower percentage of NCLEX-RN failure than success was classified

The adult medical-surgical, pharmacology, and community health standardized tests were effective in predicting NCLEX-RN success and not effective in predicting NCLEX-RN failure on the first-attempt. The NCLEX-RN success predictors can be utilized to identify students at risk and provide early remediation. After early remediation is implemented, the comprehensive standardized tests may be used as a mid-point indicator of the remediation's effectiveness before taking the NCLEX-RN.