

# Years as RN, Specific RN experience, Hours worked while in the NP program Do any of these matter for NP program success?? Dr. Diane M. Wink FNP-BC, ARNP, FAANP

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## PROBLEM

- · High number of applicants and limited space
- · Need to identify applicant characteristics which predict success in NP program
- · Need to identify student characteristics which support success in NP courses

### **RESEARCH QUESTIONS**

#### For FNP. Adult NP. and Adult Gerontology Primary Care NP Students

- Does number of years of experience as a RN impact course grade in the Adult 1 NP course?
- · Does a specific type of prior RN experience impact course grad in the Adult 1 NP course?
- Does number of hours worked impact course grade in the Adult 1 NP course?

## LITERATURE REVIEW

- Relationship between preadmission characteristics of students (personal characteristics, clinical skills and professional characterizes) based on the opinions of educators reviewed student files are the foundation for some studies.(Crosby et al, 2003).
- Program success based on selected criterion (undergrad GPA, undergrad science GPA, GRE). Findings indicate undergraduate GPA and to lesser degree GRE scores were predictors of success (Andrews et al, 2006; Ortega et al. 2013; Suhayda, et al, 2008).
- Program success best predicted by undergraduate GPA. Length of time as a critical care nurse had a negative relationship to academic progression (Burns, 2011)
- Andrews, A., Johansson, C, Chinworth S. Akroyd, D. (2006). Cognitive, collegiate, and demographic predictors of attrition in professional physical therapist education. Journal of Physical Therapy Education, 20, (1), 14-21.
- Burns, S., M. (2011). Predicting academic progression for student registered nurse anesthetists. AANA Journal, 79(3), 193-201.
- Crosby, F., Dunn, J., Fallacaro, M., Jozwiak-Shields, C., & MacIsaac, A. Preadmission characteristics of advanced practice nursing students. Journal of American Academy of Nurse Practitioners, 15(9), 424-431.
- Ortega, K., Burns, S., Hussey, L, Schmidt, J., Austin, P. (2013). Predicting success in nurse anesthesia programs: An evidence-based review of admission criteria. AANA Journal 81(3) 183-189
- Suhayda, R. Hicks, F., Fogg, L. (2008). A decision algorithm for admitting students to advanced practice programs in nursing. Journal of Professional Nursing, 24, (5), 281-284



STUDY PROCEDURE

- · Course taught in blended format by same teacher
- Data extracted from pre-course survey and course grade reports between 2008 and 2014 ٠ Significance set at 0.05

#### STUDY SUBJECTS

- FNP, ANP, and AG Primary Care NP Students in Adult 1 course
- N = 280 (71%) of students taking course between 2008 and 2014

## STUDENT CHARACTERISTICS

Years as	Average	Number/	Clinical	Average		Weekly	Average	Numbe
RN	Grade/SD	Percent	Specialty	Grade/SD	Number	Wk Hr	Grade/SD	Percen
			Adult					
	92.2	5	Acute	91.847	194	0-20	91.1	5
One Year	(5.15)	-	Care	(8.00)	(66.9%)	hours	(11.53)	(21.1%
	(0.00)	(/		(0.00)	(22.27.0)		(	(
			Maternal					
Two to	92.57	116	Child	90.058	31	21-40		18
four years	(9.02)	(41.4%)	Health	(15.66)	(11.1%)	hours	92 (8.10)	(67.5%
Five +	90.96	159		91.842	55		90.4	3
vears	(8.49)	58.8%	Other	(4.75)	(19.6%)	41+ hours	(4.53)	(11.4%

### RESULTS

- Does number of years of experience as a RN impact course grade in the Adult 1 NP course? No statistically significant difference in course grade based on years as RN but trend
- suggests students who were RNs for fewer years had better grades Does a specific type of prior RN experience impact course grad in the Adult 1 NP course?
- · No statistically significant difference in course grade related to clinical specialization prior to first NP clinical course but trend suggests students who have Adult Acute care experience had better grades than those with MCH or other specializations
- Does number of hours worked impact course grade in the Adult 1 NP course?
- No statistically significant difference between hours worked and course grade

## LIMITATIONS

- One school
- Data drawn from survey done for another reason. Required categorization of some data (e.g. grouping of clinical specialization reported, number of hours work per week).
- Numerical grades available only for classes in 2013-2014. Mid score for each letter category used for 2008-2012.
- Could not confirm work hours planned were actual work hours during the course.

#### DISCUSSION

- No statistical difference between grades of students based on clinical specialization before course, years experience as RN, or expected work hours during course.
  - · No support for consideration of these factors in admission criteria.
- While not statistically significant, students who are more than one year but less than five years since licensure and those with adult care experience may have higher grades.
- Impact of length of RN work experience partially supported by work of Burns (2011).
- · Can guide focus of support for students after admission.
- Confirmatory research based on more focused data planned.

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Impact of Years as RN				
on Course Grade				
Variable	t Value	P-Value		
Years as				
RN	-1.43	0.1463		

Impact of Weekly Work Hours				
on Course Grade				
Variable	t Value	P-Value		
Weekly				
Wk Hr	-0.63	0.5297		

Comparison of Impact of					
<b>Different Clinical Specializations</b>					
on	on Course Grade				
Variable	t Value	P-Value			
Adult vs					
MCH	1.06	0.2883			
Adult vs					
Other	0	0.9966			
MCH vs					
Other	-0.91	0.3618			

Interaction of Years as RN and				
Weekly Work Hours				
on Course Grade				
Variable	tValue	P-Value		
Years as				
RN	-1.43	0.1528		
Weekly				
Wk Hr	-0.58	0.5633		

Statistical Support from Biostatistician Dr. Xin Yan



Stands For Opportunity