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Is Their Foundation Solid Enough to Build On: An Investigation into the Information-Seeking Skills and Self-Efficacy Levels of New Nursing Students

Patricia J. Mileham, Valparaiso University Kimberly J. Whalen, Valparaiso University



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Background

- Nurses must be able to effectively identify, analyze, and synthesize evidence. (AACN, 2008; ACRL, 2000)
- Literature regarding confidence levels, self-efficacy, and information literacy skills was reviewed. (Freeman, 2004; Gross & Latham, 2012; Swenson-Britt & Reineck, 2009)
- Tools to assess confidence and self-efficacy of information literacy skills were explored. (Kurbanoglu, 2003; Stokes & Urquhart, 2011; Geffert & Christensen, 1998)

Objective

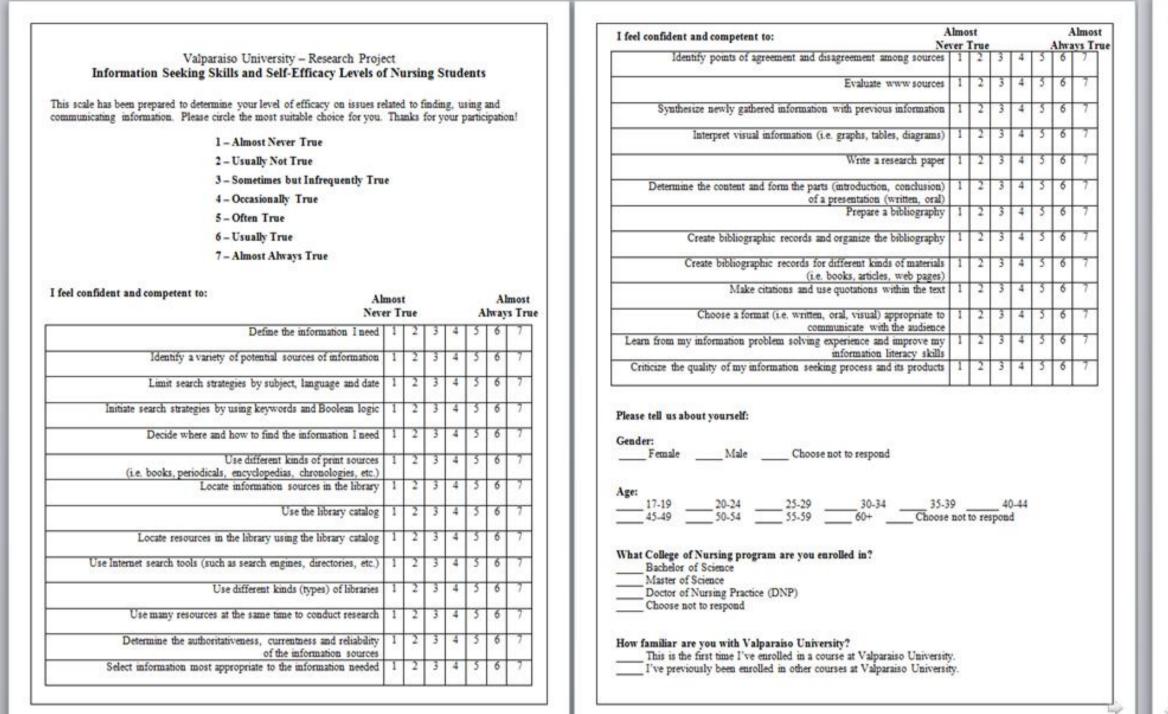
To compare the information-seeking skills and selfefficacy levels of newly enrolled nursing students at the start of their first semester of coursework to their information-seeking skills and self-efficacy levels at the end of their first semester of coursework.

Methods

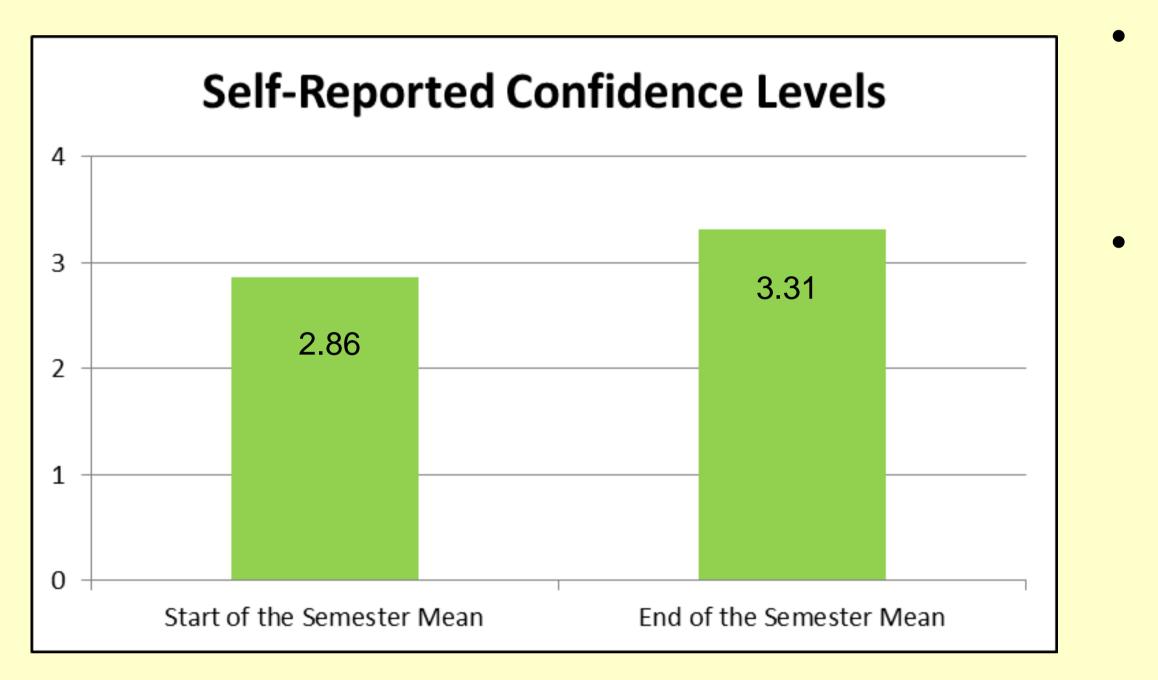
- Setting was a mid-sized, faith-based university located in the Midwest.
- Data was gathered from newly enrolled nursing students in a baccalaureate, masters, and doctorate in nursing practice program.
- The 28-item Information Literacy Self-Efficacy Scale (ILSES) developed in 2006 by Serap Kurbanoglu was administered to newly enrolled nursing students at the start and at the end of the fall 2012, summer 2013, and fall 2013 semesters.

Respondent Demographics					
Eligible Participants – 285 Newly Enrolled Nursing Students					
	Start of Semester Sample	End of Semester Sample			
Number of Respondents from Eligible Participants	227 (80%)	108 (38%)			
Sex					
Female	195 (86%)	86 (80%)			
Male	29 (13%)	15 (14%)			
Chose Not to Respond	3 (1%)	7 (6%)			
Age					
17-19 Years	80 (35%)	25 (23%)			
20-24 Years	68 (30%)	39 (36%)			
25-29 Years	25 (11%)	18 (17%)			
30-34 Years	12 (5%)	7 (6%)			
35-39 Years	11 (5%)	6 (6%)			
40-44 Years	13 (6%)	6 (6%)			
45-49 Years	13 (6%)	2 (3%)			
50-54 Years	0	1 (1%)			
55-59 Years	3 (1%)	1 (1%)			
60+ Years	Û	0			
Chose Not to Respond	3 (1%)	2 (2%)			

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Results – Self-Reported Confidence Levels



Results – Self-Reported Information Skills Interventions Utilized

- Students reported using a variety of interventions to learn how to find information or use the library in their first semester of coursework.
- The intervention most reported was attendance at a library led lab session/class – 62% of all students attended a lab session and 43% attended a class. The second most reported intervention was the students themselves – 34% of all students reported teaching themselves.
- A multiple linear regression was calculated to predict participants' self-reported confidence levels based on their use of 11 interventions. A significant regression equation was found (F(12,95) = 1.947, p < .038), with an R^2 of .197.
- Being helped by a classmate or friend was a significant predictor of confidence levels, p < .010. No other intervention was a significant predictor of end of the semester confidence.

	emester, how familiar were you with Valparaiso University's information resources?
(Choose all th	
	ery familiar with using a college university library for academic research.
I wasn'	t at all familiar with using a college university library for academic research.
	't used a college university library in 1-5 years.
	't used a college university library in 6-10 years.
	't used a college university library in 11-15 years.
	't used a college/university library in 16+ years. not to respond
	and to respond
During this n	ast semester, how have you learned about using the library or how to find information?
(Choose all th	
	ed a library class here at VU focused on using information resources.
	ed multiple library classes here at VU focused on using information resources.
	d a NUR 201 lab session and obtained help from a VU librarian/staff.
Met, tal	ked with or emailed a VUlibrarian.
Met, tal	ked with or emailed someone working at the Writing Center.
	ked with or emailed someone else working at the Christopher Center (CCLIR).
Helped	by a librarian or someone else at another library.
Helped	by a professor.
	by a parent.
Heiped Taught	by a classmate or friend.
	not to respond
	and to respond
At the bosins	ing of this course, how confident were you in your ability to locate information
	or your assignments, projects, research and papers using a range of sources?
Very co	
	confident
	v confident
Not at a	all confident
	t are you NOW in your ability to locate information appropriate for your assignments,
	arch and papers using a range of sources?
	mfident
	onfident
	y confident ill confident
INOT at a	al confident
	Thank you for your input with this project!

- The self-reported confidence level mean at the start of the first semester (n=227) was 2.86 and 3.31 at the end of the semester (n=108).
- An independent-samples t test comparing the mean confidence level from the start of the semester participants to the end of the semester participants found a significant difference between the mean of the two groups (t(333) = 6.474), p<.05). The mean of the end of the semester group was significantly higher (*m*=3.31, sd=.63611) than the mean of the start of the semester group (*m*=2.86, s*d*=.58555).

Interventions Utilized				
During First Semester (n=108)				
	Number	%		
Attended an undergraduate nursing library/lab session at VU	67	62%		
Attended a library class at VU	46	43%		
Taught myself	37	34%		
Helped by a classmate or friend	30	28%		
Helped by a professor	23	21%		
Met, talked with or emailed the Writing Center	23	21%		
Helped by a librarian or someone else at another library	20	19%		
Met, talked with or emailed the VU librarian	17	16%		
Met, talked with or emailed someone working at the VU library	12	11%		
Attended multiple library classes at VU	10	9%		
Chose Not to Respond	4	4%		
Helped by parent	1	1%		

Note: Percentage does not add to 100 because of multiple answer possibilities by each respondent.

Conclusions

Recommendations

References



• Nursing students in their first semester of coursework are fairly confident in their ability to locate information appropriate for assignments, projects, research, and papers.

 Utilizing a combination of information literacy skills interventions throughout the first semester of coursework resulted in a significant increase in students' confidence in learning how to find information or use the library by the end of the semester.

• Peer teaching and learning can make a significant difference in students' confidence in learning how to find information or use the library.

 Additional research is needed to correlate confidence in information-seeking skills to the actual information literacy skills of newly enrolled nursing students within their first semester of coursework.

 Think-pair-share and other active peer-to-peer learning strategies should be incorporated within library led lab sessions/classes.

• To better correlate students' actual skill level with confidence level, self-efficacy and confidence assessment tools should be paired with actual skills assessment tools.

• Students are fairly confident in learning how to find information or use the library at the start of their first semester. Heightening awareness of their actual skill limitations might lead to increased participation in information skills interventions.

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