

The Evaluation of Service-Learning as an Innovative Strategy to Enhance BSN Students' Transcultural Self-Efficacy

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Introduction

- Fertility and migration rates, demographic patterns, multiracial and multiethnic populations, technological advances have contributed to cultural changes (Jeffreys & Zoucha, 2001).
- Educational models and health care delivery systems have not been responsive to shifting needs (Andrews et al., 2011).
- Nurse educators are challenged to make curricula changes.
- Health care disparities among various ethnic groups still exist (American Association of Colleges of Nursing, 2008a).



Significance to Nursing Profession

- Transcultural nursing (TCN) assists nursing students to become culturally competent.
- TCN promotes health and reduces health care disparities (Douglas & Pacquiao, 2010).
- Nurse educators/researchers should evaluate educational interventions to determine if they have caused changes in nursing students' self-efficacy (Jeffreys, 2010).
- The Essentials of Baccalaureate Education for Professional Nursing Practice (AACN 2008b) provided direction for nurse educators/administrators.



Theoretical Framework

- Giger and Davidhizar's Transcultural Assessment Model (Giger & Davidhizar, 2008)
- Bandura's Social Cognitive Theory (Bandura, 1986)
- Jeffreys' Cultural Competence and Confidence (CCC) Model (Jeffreys, 2010)
- Service-Learning (Seifer & Conners, 2007)
- Servant Leadership (Greenleaf, 1970)



Purpose

The purpose of this nonequivalent quasiexperimental study was to evaluate service-learning as an innovative teaching strategy to change generic baccalaureate nursing students' perceived selfefficacy in providing culturally competent nursing care to diverse populations.

Sample

- 133 BSN students enrolled in the study.
- 111 cases were used to answer the 5 research questions.



Instrumentation: TSET (Jeffreys, 2006)

- Measures the students' confidence on a 10-point rating scale
 - 1 = not confident and 10 = confident
- 83 items (three domains)
 - Affective (30 items)
 - Cognitive (25 items)
 - Practical (28 items)
- TSET Reliability for this sample
 - Cronbach's Alpha ranged from 0.94 to 0.98



Descriptive Statistics for SEST Scores (N = 111)

Interview (n = 69)

- 84% under age 30
- 88% English as first language
- 77% White
- 64% Previous healthcare experience
- 75% Prior college-level diversity course

Service-Learning (n = 42)

- 88% under age 30
- 81% English as first language
- 83% White
- 64% Previous healthcare experience
- 83% Prior college-level diversity course



Q 1. Is there a Significant changes Repeated occurred from pre- to statistically Measures significant change **MANOVA** post- for all 3 SEST in pre-licensure subscale scores as well as the composite (p < .001). **BSN** students' Relatively high effect sizes perceived (68% - 78%) show the cognitive, practical, and changes from pre- to postaffective are explained by the dimensions of intervention (independent transcultural selfof the type of intervention). efficacy as a Repeated result of an Measures educational **ANOVA** intervention?

Q 2. Are there statistically significant correlations between the cognitive, affective, and practical selfefficacy pre- and post-test scores? Pearson
Product
Moment
Correlation

High correlations between cognitive SEST post-test scores and the practical SEST scores (r(111) = $.725, R^2 = 0.53$). **Moderate correlations** between the affective **SEST pre- and practical** post-test scores as well as between the affective **SEST post- and affective** pre-test Pearson Product **Moment Correlation** scores.

Q 3. How will **MANOVA Pre-test scores were** significantly different for selected language (p = .001) and demographics race (p < .001). Univariate (age, language, race, and previous **ANOVAs (with Bonferroni** educational/work correction): All three preexperience) test SEST scores were influence presignificantly different for race: Affective, p = .001, η^2 licensure BSN = .097; Cognitive, p = .013, students Practical: p = .000. perceived **Composite Univariate** confidence prior **ANOVA** to an educational **ANOVAs: Scores were** significantly different for experience? language, p < .001 and for race, p < .001.

Q 4. Is there a statistically significant difference in the amount of change in prelicensure BSN students' perceived transcultural selfefficacy as a result of the type of treatment in the educational intervention (servicelearning vs. interview)?

Repeated Measures MANOVA

No significant difference in improvement of SEST scores in any subscale, based on the type of intervention: Wilks' $\Lambda =$.993, F(3, 107), p > .05,multivariate $\eta^2 = .007$, observed power = 10%.

Repeated Measures ANOVA No significant difference for the composite scores F(1,109) = .168, p > .05, $\eta^2 =$.002, observed power = 6.9%.

Measures **MANOVA** Repeated Measures ANOVA

Repeated

Statistically significant interactive effect (with slight to moderate effect) between intervention and race: Wilks' $\Lambda =$.896, F(3, 107), p < .05, multivariate η^2 = .104, observed power = 84%. Univariate results (with Bonferroni correction) **Statistically significant** differences (with a slight effect) were found in practical and affective subscales for race (p < .05)Interactive effect found between the intervention and language and between the intervention and race, both were statistically significant (p < .05).

Additional Findings

- Non-English as a first language and non-White participants had significantly û pre-test SEST scores.
- Service-Learning participants had the highest post-test SEST scores and the greatest mean difference in 2/3 of the subscales and in the composite.
- Pattern in the sample means suggests a larger sample size may provide a û observed power and demonstrate more significant difference between the two intervention groups.
- Change in pre- to post affective and practical SEST scores was significantly

 for White participants than non-White.
- Change in pre- to post-test composite SEST scores was significantly 1 for the English as a first language participants and the White participants.



Study Results

- Add to the current body of knowledge about TSE.
- Support the assumption that TSE is dynamic and changes after an effective cultural educational intervention (Jeffreys, 2006).
- Revealed that both interventions significantly affected change in the students' TSE.



Implications for Nursing Education

- Evaluate nursing students' TSE and language and race classifications to see if similar results are found with other populations.
- Use a larger target population to Increase the power of the results.
- Design longitudinal studies to determine if exposure to a variety of cultural experiences throughout the program affects TSE changes.
- Add a qualitative component to investigate students' reflection papers after service-learning experiences for common themes.



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