

College of Nursing and Health Professions



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The Effect of Human Simulation on Student Outcomes

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UNDERGRADUATE PROGRAM

- ◆ Competency involves the assimilation of theory and the development of skills.
- ◆ The integration of a human simulation standardized patient experience is one method to enable students to demonstrate competency of complex skills in a controlled or testing environment
- ◆ The human simulation standardized patient experience is part of a new generation of 'authentic assessment exercises' that challenge students with realistic simulations of clinical experiences likely encountered in practice



STANDARDIZED PATIENT

The experience may include any of the following

- ◆ Therapeutic communication experience
- ◆ Dealing with a difficult, anxious or agitated patient experience
- ◆ Complex patient teaching experience
- ◆ Ethical dilemma experience
- ◆ Summative evaluation of a patient encounter including history taking, focused physical exam and patient teaching

METHODOLOGY

- ◆ The student participants completed a demographic data sheet instruments at the beginning of the academic year and immediately following the human simulation experience
- ◆ Instruments
 - Nursing Activity Scale (NAS)
 - Perceived Competence Scale (PCS)
 - Performance Self-Esteem Scale--Short Form (PSES-Short)



OUTCOMES

- ◆ A paired sample Wilcoxin test indicated significant differences following the intervention

Nursing activity $z(37) = -2.16, p = .03$

Perceived confidence $z(37) = -4.527, p = .000$

Performance self esteem $z(37) = -3.427, p = .001$

- ◆ The human simulation experience is an effective experience for undergraduate nursing students
- ◆ This study has shown that this experience made a significant difference in the undergraduate nursing student's confidence, nursing activity and self esteem

