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"To Err Is Human: Building a Safer Health System"

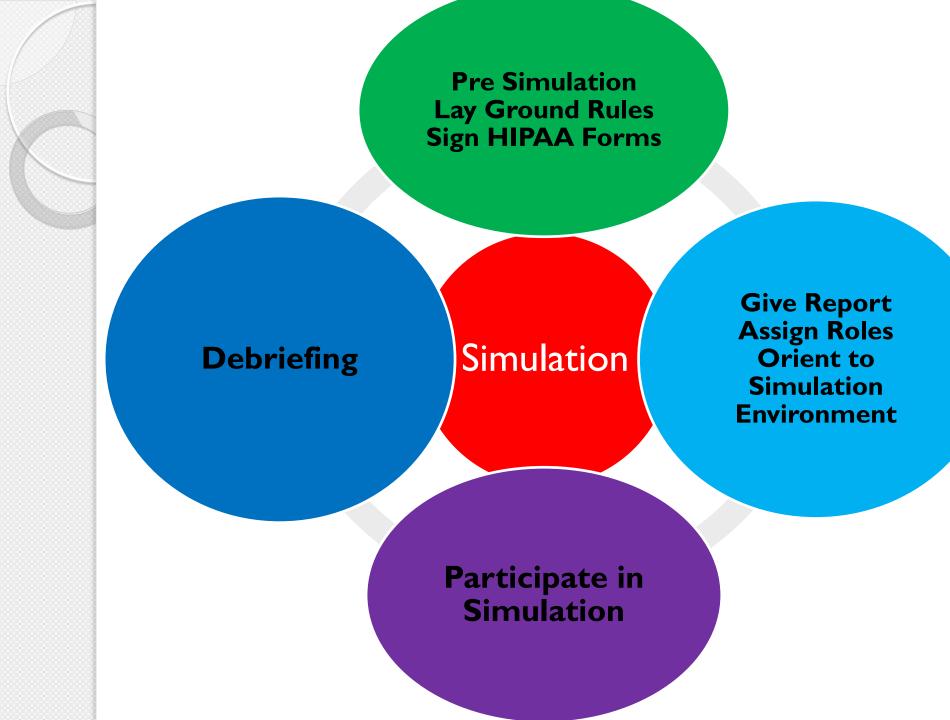




- Simulation provides efficacious active learning environment.
- Simulation is an improved pedagogical method.
- Simulation should provide a safe learning environment.

Debriefing





3 Phases of Debriefing

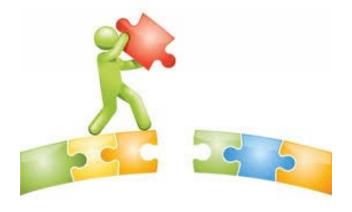
Reaction

Analyze Understanding

Summarize

Gap In Literature

• This study will address the gap in the literature with regard to the *study of repeated simulation* learning and contribute to the growing research of simulation in nursing education.



Statement of the Problem

 The problem was to understand how debriefing after a low-fidelity simulation effects the problem solving processes; that directly related to nursing students' critical thinking skills, self-confidence, and satisfaction in learning.



Statement of the Purpose

 The purpose of this study was to investigate the relationship between critical thinking skills, selfconfidence, and satisfaction in nursing students on repeated low-fidelity simulation after debriefing.

Theories Supporting this Research

Primary Theories

Reflective Simulation Framework

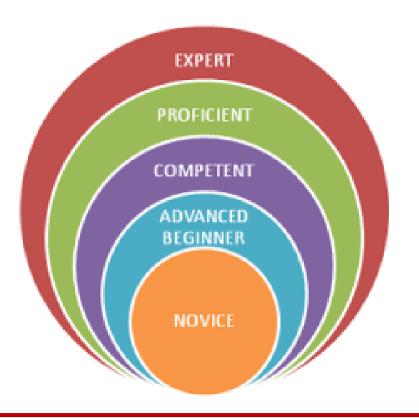
The Nursing Education Simulation Framework

NESF



Secondary Theories

Benner's Theoretical Concept



Secondary Theories

Performance
Outcomes
Past Experiences

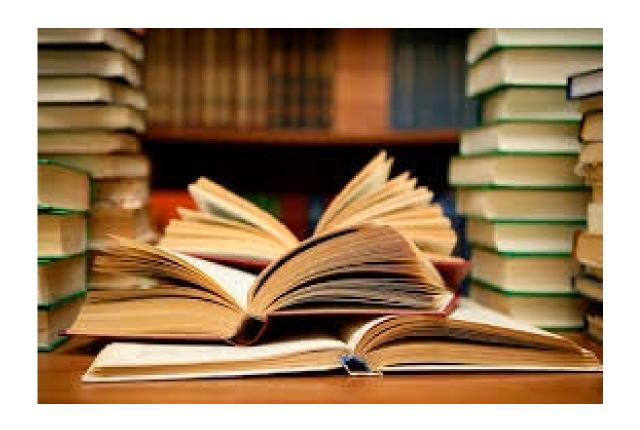
Vicarious Experiences

Modeling Behaviors Bandura's Self-efficacy

Physiological Feedback Emotional State

Verbal
Persuasion
Coaching

Review of Literature



Details of Literature Reviewed by Year of Publication

Type of literature	Older than 5 years	Current	Total
Peer-reviewed articles	32	42	74
Non-peer reviewed articles		0	0
Books	12	0	12
Web pages		4	4

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Methodology Design

 This research design chosen for this study was a quantitative, quasi-experimental study.



Research Tols



Methodology Instrumentation

The Student Satisfaction Self-Confidence
 Learning (SSSCL). The National League of
 Nursing developed and validated the validity and
 reliability of this tool utilizing the Cronbach's alpha.

 The second tool that will be utilized is the Watson Glaser Critical Thinking Appraisal (WGCTA)

Research Questions



Methodology Research Questions

- RQ1 What is the effect of repeating a low-fidelity simulation after reflection in the development of critical thinking skills in nursing students?
- RQ2 What is the effect of repeating a low-fidelity simulation after reflection in the development of self-confidence in nursing students?
- RQ3 What is the effect of repeating a low-fidelity simulation after reflection in the development of satisfaction of learning in nursing students?

Methodology Sample

 The target population of this study consists of male and female freshmen Associate Degree Nursing students between 19 and 50 years of age.

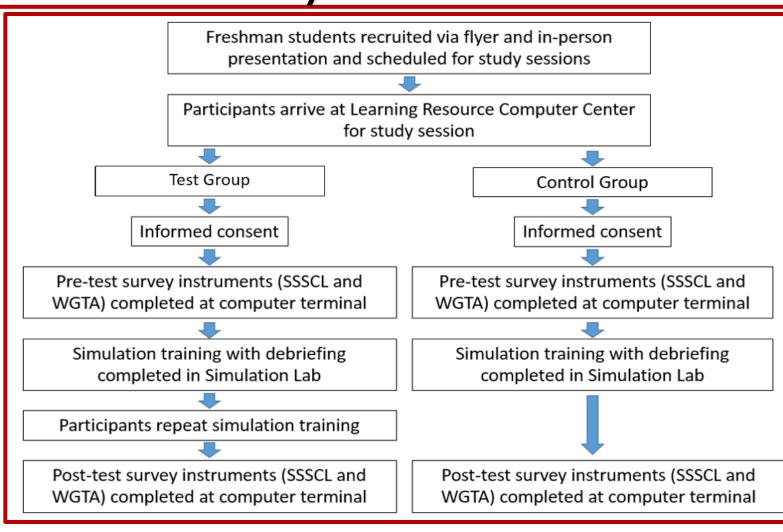


Data Collection

- 24 Associate Degree Nursing students participated in the study
 - 12 assigned to control group
 - 12 assigned to test group (repeat simulation)



Review of Study Procedures



RESULTS



Research Question 1

H01 – There is no significant effect of repeat lowfidelity simulation after reflection in the development of critical thinking skills in nursing students.

- An independent samples t-test was conducted to determine if there was a difference in critical thinking skills at posttest between the control and test groups.
- The results showed no significant difference between the control and test groups (t(20) = 1.22, p = .237). H01 was not rejected.

Research Question 2

H02 – There is no significant effect of repeat lowfidelity simulation after reflection in the development of self-confidence in nursing students.

- An independent samples t-test was conducted to determine if there was a difference in self-confidence at posttest between the control and test groups.
- The results showed no significant difference between the control and test groups (t(22) = -0.19, p = .855).
 H02 was not rejected.

Research Question 3

H03 – There is no significant effect of repeat lowfidelity simulation after reflection in the development of satisfaction of learning in nursing students.

- An independent samples t-test was conducted to determine if there was a difference in satisfaction at posttest between the control and test groups.
- The results showed no significant difference between the control and test groups (t(22) = -0.66, p = .517). **H03** was not rejected.

Recommendations



Recommendations

- A mixed method or quantitative comparative design. With one
 of these other approaches, the null hypothesis may have a
 better chance of being rejected if all participants participated
 in a simulation with debriefing only and a simulation with
 repetitive simulation then completed the post-test
 assessment.
- Another recommendation would be to repeat the study with a baccalaureate and graduate level population.
- One last recommendation for future research would be to utilize a different tool other than the Watson Glaser Critical thinking assessment. I would recommend the utilization of an established tool that measures clinical decision-making. The NLN does have a tool of this nature.

Conclusions

It is imperative to deliver simulation experiences in a consistent manner that yield optimal student outcomes.

Contributing to the development of a teaching model that utilizes simulation will maximize student learning and outcomes. To achieve these goals, continued research of simulation is vital.

Thank you for your time



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