

# ***Nursing Students' Perceptions of Satisfaction and Self-Confidence with High Fidelity Simulation***

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# Learning Objectives

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By the end of the presentation:

- Participants will be able to quantify nursing students' satisfaction and self-confidence in learning when high fidelity simulation is used as a teaching strategy

# Introduction

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There are few quantitative studies about student satisfaction and self-confidence in learning when simulation is used as the teaching strategy. Learning outcomes may be affected by student satisfaction and self-confidence.

# **Purpose**

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To determine if high fidelity simulation provides nursing students with learning experiences which promote satisfaction and self-confidence in preparation for their practice of clinical nursing

# Question

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Are nursing students satisfied and self-confident with their learning after completing high fidelity clinical simulations in preparation for clinical nursing practice?



# Framework

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Alfred Bandura's Social Cognitive Learning Theory: learning is the interaction between the person's

- Behavior
- Personal factors
- Environmental factors

# Method

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Voluntary cross-sectional study after completion of high fidelity clinical simulation session

- Demographic form and questionnaire
- Data analysis:
  - Cronbach's alpha
  - Pearson's r
  - Descriptive statistics

# **Subjects**

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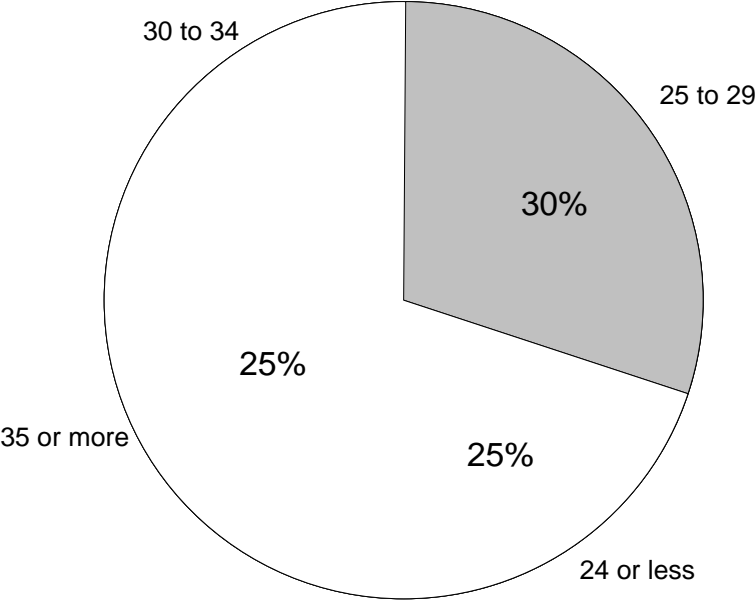
Third year baccalaureate nursing students enrolled in a medical surgical nursing course



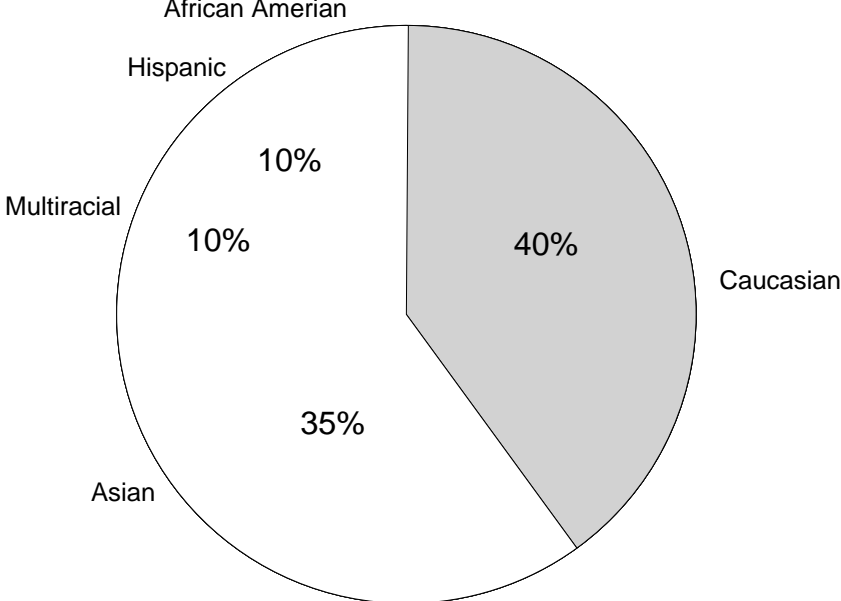
# Demographic Profile

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### Age Distribution



### Ethnicity Distribution



# Data Collection Instrument

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## *Student Satisfaction and Self-Confidence in Learning* questionnaire

- Two sections:
  - Satisfaction with Current Learning
  - Self-confidence in Learning
- Responses quantitatively describe students' attitudes or beliefs
- Developed by National League of Nursing

# Questionnaire Responses

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Key for scores:

1 = Strongly disagree

2 = Disagree

3 = Undecided

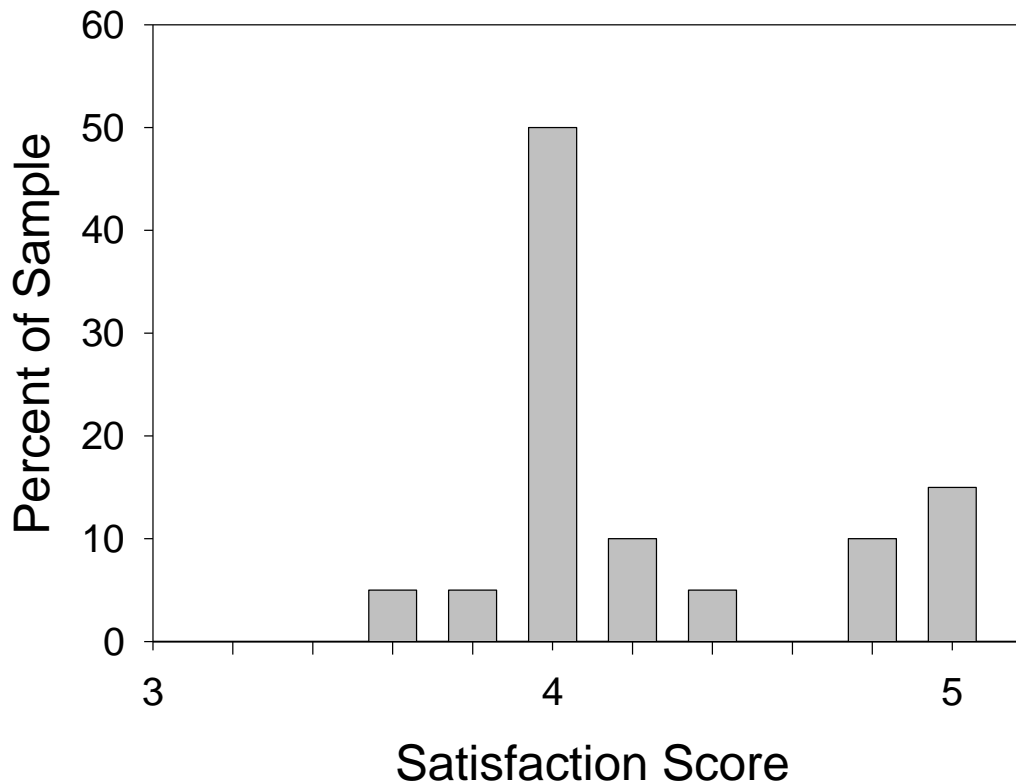
4 = Agree

5 = Strongly agree

# Satisfaction with Learning

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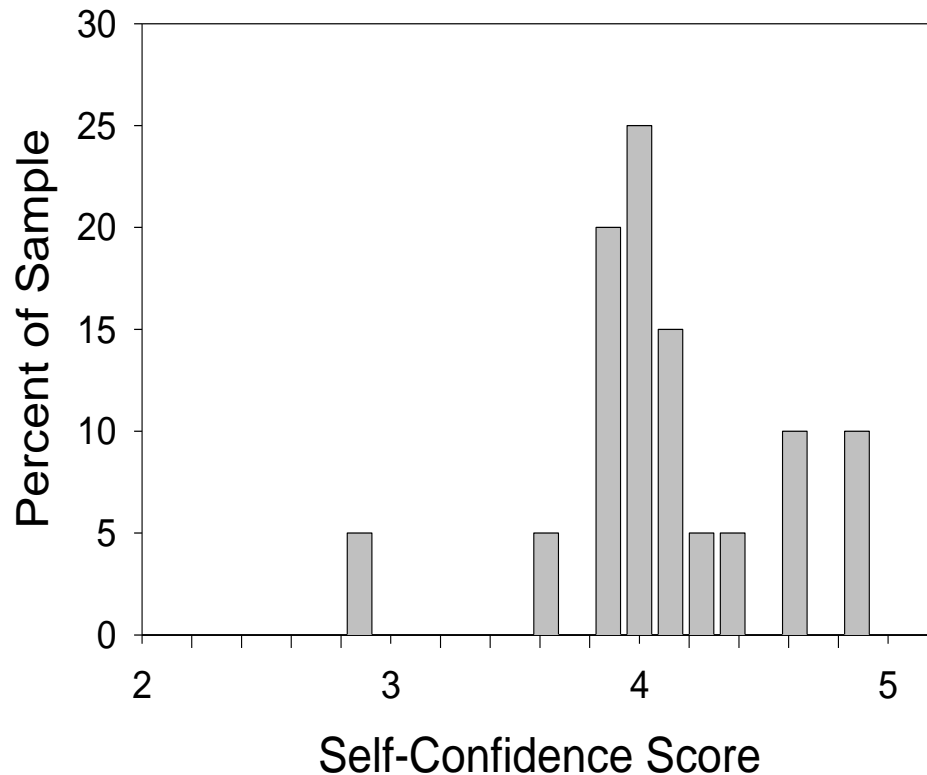
## Histogram of Satisfaction Scores



# Self-Confidence in Learning

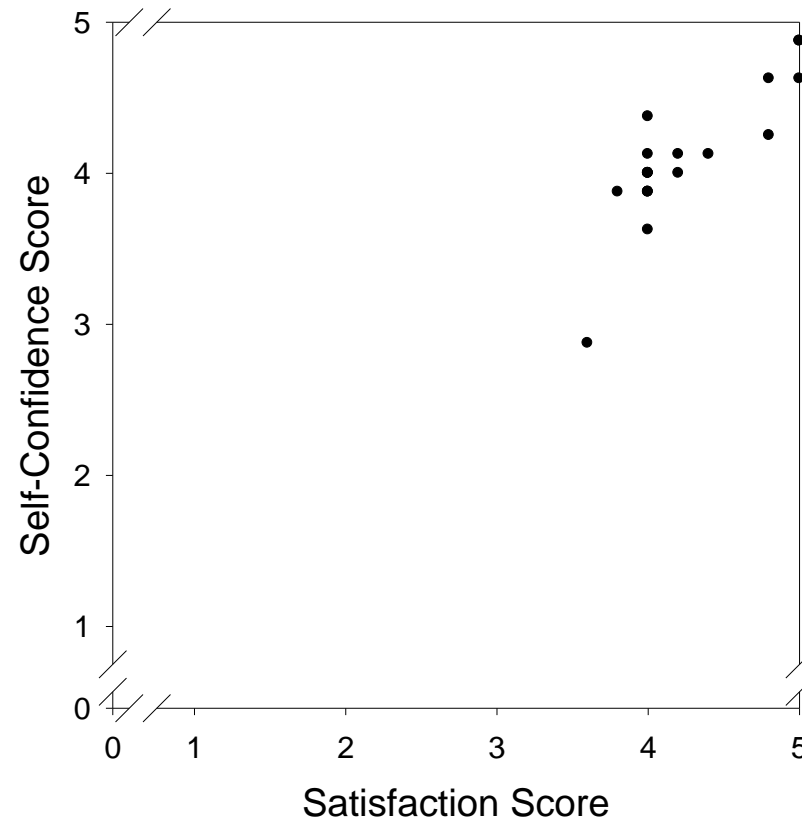
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## Histogram of Self-Confidence Scores



# Scatter Plot of Pearson's $r$ Correlation

Satisfaction and Self-Confidence



# Results

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Cronbach's alpha:

0.89 for satisfaction, and  
0.80 for self-confidence with learning

Pearson's r:

0.85 (95% CI .64 to .94,  $p < .001$ )

# Results

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Variable	<i>N</i>	<i>M</i>	<i>SD</i>	<i>Mdn</i>
Satisfaction	20	4.24	0.35	4.0
Self-Confidence	20	4.10	0.45	4.0



# Findings

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- Students are generally satisfied and self-confident with learning
- There is a correlation between satisfaction and self-confidence with learning from high fidelity simulation

## **Limitations Related to**

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- Student population
- Lack of a way to measure variances linked to questionnaire responses
- Mechanism to measure changes in student perceptions longitudinally
- Validity of content for simulation session

# Conclusion & Recommendations

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## High fidelity clinical simulation

- Nursing students are satisfied and self-confident with learning
- An effective teaching strategy
- Further research is needed with
  - Diverse student populations enrolled in different nursing courses
  - Longitudinal studies