

# Dolls Become Simulators: Using Technology to Increase Fidelity and Improve Clinical Judgment During Skills Lab

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## Disclosure

I HAVE NO ACTUAL OR POTENTIAL CONFLICT OF INTEREST IN  
RELATION TO THIS PROGRAM/PRESENTATION.  
NO FINANCIAL RELATIONSHIPS EXIST

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## Learning Objectives

1

Describe how the use of technology can increase fidelity in a skills lab.

2

Explore the AACN Essentials and NCSBN resources used to guide activity development.

3


Discuss the technology implemented to improve clinical judgment in baccalaureate nursing students.

4

Describe Limitations and Implications for Practice.

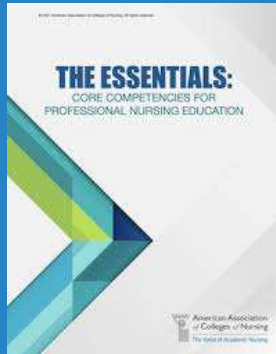
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## Fidelity and Technology

- Levels of Fidelity in Simulation
  - Low, medium, and high
- Technology
- Fidelity + Technology  Increases Realism

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# American Association of Colleges of Nursing (AACN) Essentials



## Domain 1: Knowledge for Nursing

- 1.3 Demonstrate clinical judgment founded on a broad knowledge base

## Domain 2: Person-Centered Care

- 2.3 Integrate assessment skills in practice
- 2.4 Diagnose actual or potential health problems and needs
- 2.5 Develop a plan of care
- 2.6 Demonstrate accountability for care delivery
- 2.7 Evaluate outcomes of care

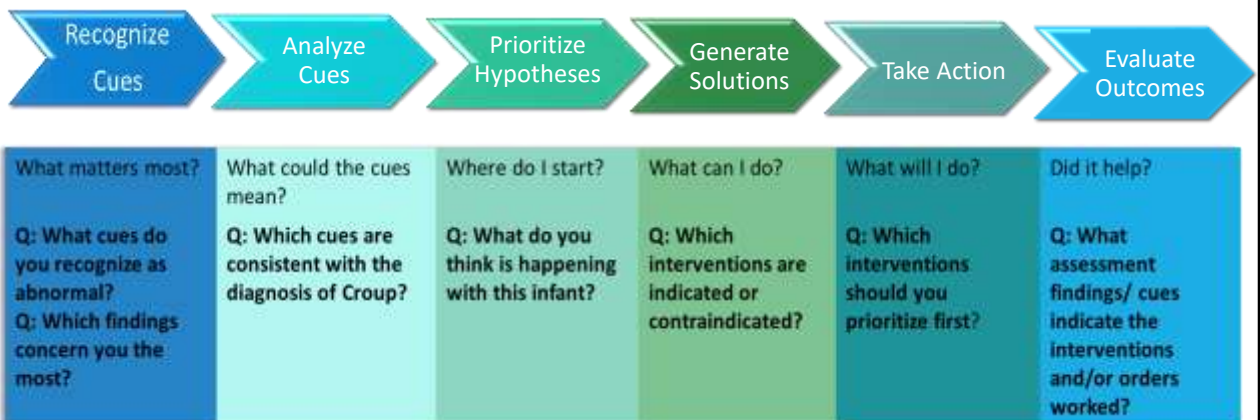
## Domain 8: Informatics and Healthcare Technologies

- 8.2 Use information and communication technology to gather data, create information, and generate knowledge

## Domain 9: Professionalism

- 9.5 Demonstrate the professional identity of nursing
- 9.6 Integrate diversity, equity, and inclusion as core to one's professional identity

# NCSBN Clinical Judgment Measurement Model Layer 3



## Background

### Who:

- 2<sup>nd</sup> semester 12 month accelerated nursing students

### What:

- Pediatric Respiratory Skills Days

### When & Where:

- Pre/post-clinical conference
- School of Nursing Skills Lab

### Why:

- Lack of hands-on experience with Pediatric material and patients
- Lack of student engagement during skills labs
- Need for increased clinical judgment among Baccalaureate nursing students

### How:

- Including Layer 3 of the Clinical Judgment Measurement Model (CJMM)
- Utilizing an Unfolding Case Study
- Implementing a simulated monitor app using iPads

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## Original

## The Case Study

## Updated

The original case study interface consists of two side-by-side screenshots. The left screenshot shows a patient profile for 'Tina' with vital signs and a 'Vital Signs' table. The right screenshot shows a 'Vital Signs' table with a 'Vital Signs' button and a 'Vital Signs' table.

The updated case study interface is a single screenshot showing a patient profile for 'Tina' with vital signs and a 'Vital Signs' table. The interface is more modern and includes a 'Vital Signs' table with a 'Vital Signs' button and a 'Vital Signs' table.

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# Implementing a Simulated Patient Monitor Application



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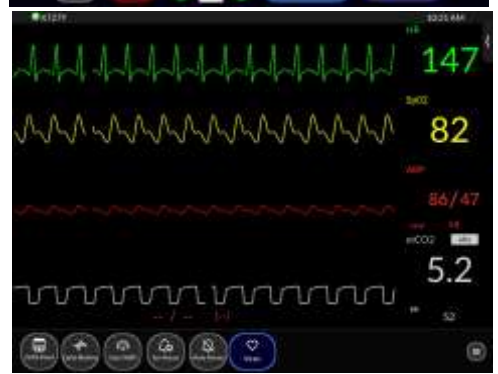
## Skills Day



Setting up the scenario

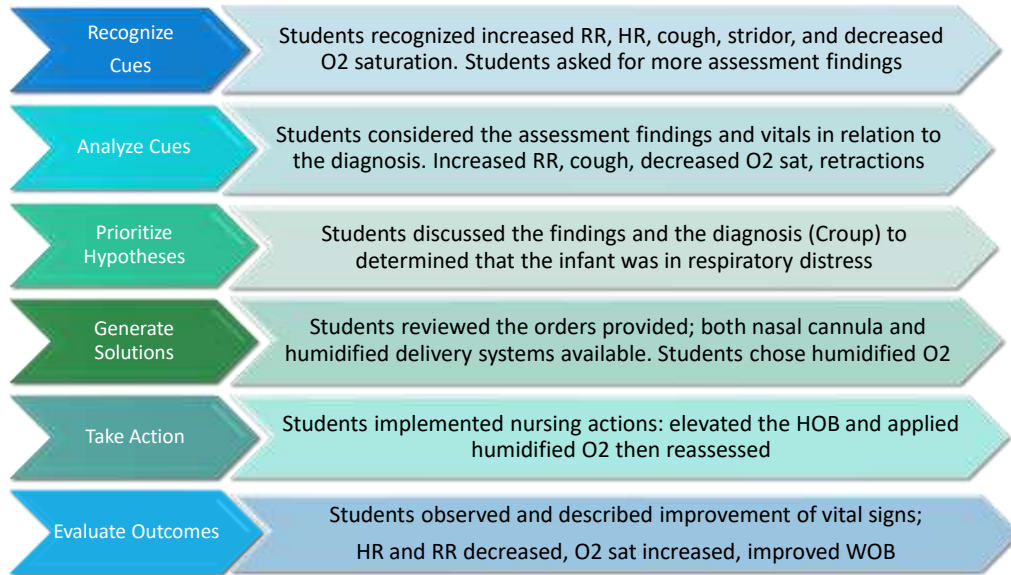


Running the scenario



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# Clinical Judgment: Scenario Outcomes



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## Student Feedback



"I loved this station! Seeing the vitals change in real-time helped me to work through the concept."

"It is one thing to read a case study and another to be involved in one."

"I thought the use of the monitors was great in making the skills lab experience as close to reality as possible. You get to see the "results" of your interventions in a real way. I quite enjoyed it and hope that it is implemented in more of these skills exercises".

"This experience allowed students to physically be involved with a case study. For students who learn best from hands on experiences, it helps put things into perspective that maybe we had not thought of before. ...it has helped students be able to connect what we have learned in didactic versus what we have seen in clinical into one experience!"


"I think actually working through an unfolding case study helped to solidify concepts way more than just reading a case study would have. Reading case study's is great, but being able to practice how to clinically apply nursing interventions was more beneficial."

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## Limitations

- **Accessibility**
  - Choosing an application
  - Free vs Upgrades
- **Buy-in**
  - Faculty
  - Student
- **Cost**
  - Monitor Application
  - Dolls

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## Conclusions & Implications for Practice

### **Affordability & Accessibility**

Domains 1 & 8

### **Increases Fidelity**

Domains 1 & 8

### **Increases Student Engagement & Satisfaction**

Domains 2 & 9

### **Integrates Diversity**

Domains 2 & 9

### **Encourages Collaboration**

Domains 1, 2, 8 & 9

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# Questions?



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## Contact Information

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