Bridging the Education to Practice Gap: Virtual Patient Simulation to Evaluate Student Prioritization and Interprofessional Communication Skills

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Purpose
The purpose of this study was to evaluate a pilot version of a virtual patient simulation designed to teach the concepts of nursing prioritization and interprofessional communication skills to students enrolled in the last semester of their pre-licensure program.

Study Methodology
Participants
The Leadership virtual simulation was pilot tested asynchronously with 25 pre-licensure students who were enrolled in their last semester of school. These students came from various online and traditional pre-licensure nursing programs across the United States.

Measures and Procedure
After completing the simulation, students responded to a 22-item (5-point Likert-type and open-ended) online survey related to their overall experience with the virtual simulation, including usability, quality, and realism. Other areas explored were the effectiveness of pre-brief and instructions, usefulness of the virtual nursing tablet, value of learning activities, and fairness of scoring. Responses were confidential and opting out of the survey did not interfere with students’ patient exam simulation in any way.

Simulation Role and Scenario
In this simulation, the student assumed the role of a registered nurse (RN) newly assigned to a medical-surgical unit at a hospital using a day-in-the-life narrative framework. The simulation scenario represented the first portion of a 12-hour nursing shift.

Simulation Learning Objectives
- Describe current leadership and nursing models/theories employed for the delivery of patient centered care
- Analyze effective communication strategies when working as a member of a healthcare team, including interprofessional team development
- Apply concepts of quality and safety to identify clinical questions and discuss impact on delivery of patient care
- Explain ethical decision making strategies and ethical standards to promote patient advocacy, collaboration, social justice, confidentiality and right to privacy

Simulation Learning Activities
- Bedside Shift Report
  Receive two patient bedside shift reports from another nurse in a SBAR style.
- Prioritizing Delivery of Care
  Prioritize delivery of care for two patients according to leadership models and theories.
- Prioritizing Individual Patient Needs
  Conduct a thorough but focused patient assessment in order to best prioritize nursing interventions and in-room care.
- Interprofessional Communication
  Effectively communicate new patient information to a provider.
- Debrief
  Using a debriefing framework, learners reflect and discover how they can improve their thinking and apply their learning to clinical situations

Main Results
Overall, 86% (22) of students had a positive reaction to the Leadership simulation. Prioritization of multiple patients, doing SBAR bedside shift reports, and having the sense of agency in the role of a nurse were mentioned as reasons behind their satisfaction. The most preferred activity by students was Prioritizing Delivery of Care (2.91/5). Not having much practice with prioritization in a hospital setting and seeing it as an important skill to have were mentioned as reasons for their preference.

Conclusions and Implications for Practice
Virtual patient simulations can help students develop a critical understanding of the core concepts behind prioritization and interprofessional communication in nursing as well as the opportunity to apply key leadership knowledge, skills, and competencies needed prior to entering the workforce. bedside clinical nurses must apply clinical leadership skills to ensure safe, high-quality patient care as well as positive patient outcomes. Using these types of scenarios can help educators to teach safe, patient-centered care leadership skills and hospital and health system leaders with better prepared new graduates that can contribute to best patient care and outcomes.

References