Transforming the Healthcare Simulation Spectrum: Now, Next and Beyond

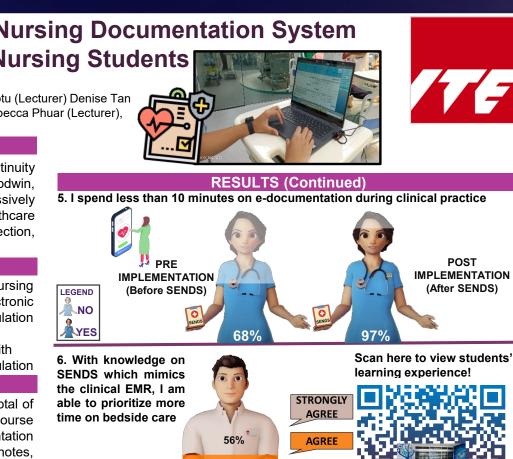19 - 21 October 2022 | Academia, Singapore

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Institute of Medical Simulation

SESAM PROMOTING SIMULATION IN HEALTHCARE EDUCATION

SIMGHOSTS

Perceptions of Simulated Electronic Nursing Documentation System (SENDS) among Year 2 ITE Enrolled Nursing Students

AUTHORS

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BACKGROUND

Accurate nursing documentation plays a critical role in ensuring the continuity in nursing care workflow, resulting in providing quality patient care (Goodwin, 2019). Over the last decade, the Ministry of Health has progressively developed the National Electronic Health Record (NEHR) and healthcare organizations are also integrating these technologies for data collection, communication, decision-making into the clinical practice.
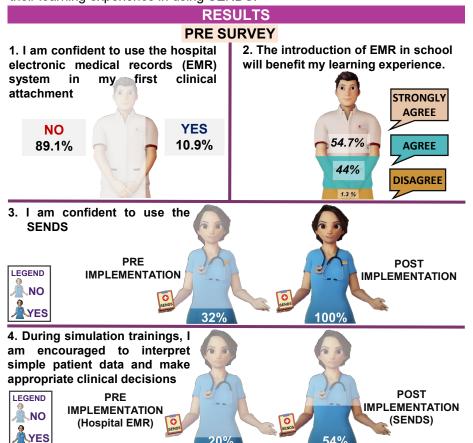
STUDY OBJECTIVES

(1) To explore the Institute of Technical Education (ITE) nursing student's perceptions on the use of Simulated Electronic Nursing Documentation System (SENDS) through simulation training.
(2) To explore the effects of student's learning experience with the introduction of SENDS in ITE Healthcare Simulation

METHODOLOGY

A quasi-experimental study was done and a purposive sampling of a total of **146** 2nd year, enrolled nursing students from ITE, *NITEC* in Nursing course were recruited. SENDS software was designed for nursing documentation with real-life clinical scenarios inclusive of patient's data, nurses' notes, doctor's orders and diagnostic results. All students were completed a pre-implementation questionnaire before attending two sessions of simulation training which were conducted over a period of ten weeks. They were also required to use SENDS to document their nursing care. Thereafter, a post-implementation questionnaire was used to evaluate students' perceptions on their learning experience in using SENDS.

RESULTS

PRE SURVEY

1. I am confident to use the hospital electronic medical records (EMR) system in my first clinical attachment

NO 89.1%   YES 10.9%

2. The introduction of EMR in school will benefit my learning experience.

STRONGLY AGREE
54.7% AGREE
44%
1.3 % DISAGREE

3. I am confident to use the SENDS

LEGEND NO YES

PRE IMPLEMENTATION 32%   POST IMPLEMENTATION 100%

4. During simulation trainings, I am encouraged to interpret simple patient data and make appropriate clinical decisions

LEGEND NO YES

PRE IMPLEMENTATION (Hospital EMR) 20%   POST IMPLEMENTATION (SENDS) 54%

RESULTS (Continued)

5. I spend less than 10 minutes on e-documentation during clinical practice

LEGEND NO YES

PRE IMPLEMENTATION (Before SENDS) 68%   POST IMPLEMENTATION (After SENDS) 97%

6. With knowledge on SENDS which mimics the clinical EMR, I am able to prioritize more time on bedside care

STRONGLY AGREE 56%
AGREE 41%
DISAGREE 2%
STRONGLY DISAGREE 1%

Scan here to view students' learning experience!

DISCUSSION

Through this study, it is evident that integration of electronic nursing documentation system into the simulation training will increase nursing students' confidence and enhance their skills proficiency in their clinical training. As healthcare needs transits from the traditional labour intensive approach to the use of technology to ease the workload of the nursing duties, it is necessary for nursing schools to consider integrating healthcare informatics into their curriculum to meet the increased use of technology in the healthcare setting globally. There is a need for healthcare informatics system to be added into the nursing curriculum to prepare students to use these systems competently (Wilbanks, Watts & Epps, 2018). The exposure to healthcare informatics, which mimics actual ward-based practice of electronic documentation, prepares the students to be work ready in their roles as Enrolled Nurses.

CONCLUSION

Healthcare information technology has increased the complexity of the role of a nurse today, thus it is important for formal nursing education to incorporate information technology into the curriculum (Badowski et. al, 2018). In conclusion, the use of electronic documentation system in simulation training enhances students' learning experience during their clinical trainings hence it is critical to include information technology into nursing curriculum.

REFERENCES

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