INTEGRATING TELEMEDICINE AND IPE INTO SIMULATION

MARCY AINSLIE, EDD, APRN, FNP-C JANINE REALE, MS, RN, CNE CHERYL BRAGDON, MS, RN, CNE, CHSE

LEARNING OUTCOMES

Upon completion of this educational activity, participants will be able to:

- 1. Examine the modality of telemedicine as a framework for sim- IPE
- 2. Prepare undergraduate and graduate nursing students for workplace expectations regarding informational technologies
- Implement clinical competency assessment into distance education programs via the modality of telemedicine

NEARPOD

Nearpod app Nearpod.com/student on laptop WHO WE ARE

Rivier University Nashua NH

- Undergraduate nursing program
- Public health program
- Graduate nursing program
 - FNP
 - PMHNP



WHY THIS MATTERS • Essentials of Master's Education in Nursing (American Association of Colleges of Nursing, 2011) • The Essentials of Baccalaureate Education for professional Nursing Practice (American Association of Colleges of Nursing, 2008) • The Essentials of Baccalaureate Education for Professional Nursing, 2008) • Telemedicine- one technological option • Video conferencing between patient and provider • Providing health services using telecommunication technologies • Effective mechanism for delivering services to rural and remote

CREATING AN INTER-PROFESSIONAL EXPERIENCE

Developing Simulation Experiences for Community Health Course

- Changes in Community Health curriculum
- Aligns with course outcomes, NCLEX, Baccalaureate Essentials
- Collaboration with FNP faculty
- Available resources:
 - Polycom equipment
 - Backup plan:
 - iPad or laptop
 - Smartphone

CREATING AN INTER-PROFESSIONAL EXPERIENCE (CONTINUED)

Results:

- Week 1: End of Life scenarios NLN scenario about Julia and Lucy as resource
- Week 2: Home Care client/patient visits using Telemedicine technology
 - Three scenarios per day
 - One hour each: 45 minutes for visit, 15 minutes for debriefing

DEVELOPING THE TELEMEDICINE SIMULATION SCENARIOS UG & FNP FACULTY

- Patient case studies selected to build on UG and FNP theory content
- \checkmark Increased from 2 to 3 scenarios in 2018 to accommodate number of UG students
- ✓ UG students assigned roles of: Home Care nurse, Standardized patient and family members
- ✓ UG students given scripts and resources ahead of time to prepare for the scenarios

SCENARIOS

- Scenario 1: Lucy Grey 73 years home visit after hospital discharge for atrial fibrillation and falls. Lucy was the caregiver for Week I Hospice patient Julia Morales (NLN case study)
- Scenario 2: Ester Cramer-Martin 38 years old lives in Appalachia with husband Esteban and two sons, metabolic syndrome, last PCP visit 2 years ago with no return visit
- Scenario 3: Molly Rivers 23 years old in Transitional care following Rehab for Substance abuse, single parent to a 3 year old and 12 month old.

LOGISTICS AND DEMONSTRATION

A week in advance:

- FNP students provided case study background information to prepare
- UG students provided with assigned roles and scripts

Day of Simulation:

- FNP student(s) connect to Polycom
- · UG students not in scenarios observe
- Faculty remain out of view during visit

Show brief video here

PRE-BRIEFING AND DEBRIEFING

Prior to simulation day, all students complete preparation activities

Before each Telemedicine visit UG students:

- Benefits of telemedicine
- Populations who could benefit
- Home Care nurse's role
- Prepare for patient roles
 Prepare "set"
- Prepare "s

After the visits:

- UG students feedback to FNP students
- FNP student feedback on self reflection
- UG and FNP faculty comments

STUDENT COMPETENCIES

- I. Benefits of telemedicine
- 2. Nursing in the home/community setting
- 3. Working with provider as eyes, ears, hands
- 4. Taking and clarifying orders/plan
- 5. Assessment of patient: organization/ compassion/ presentation
- 6. Establishing a relationship via telemedicine
- 7. Role transition: to RN/ from RN to APRN
- 8. Importance of family and friends to a successful plan of care

UNEXPECTED BENEFITS

- Priorities in the home/community differ from inpatient/acute care
 - ✓ Nurse a guest in "patient's territory"
- Home Care is a family affair spouses, partners, children are also the patient
- >UG students know something too!
- Able to invite distance students to participate in the Simulation experience
 - \checkmark i.e. MS in Nursing education learning about uses of simulation

UNDERGRADUATE SURVEY

- Used Delphi study (van Howelinger et al., 2016) on Telehealth Competencies to create the online Checkbox survey
- Received Rivier University IRB permission to share results in this presentation
- Survey

 Students self-evaluated competencies using following Likert Scale:

Not Competent - Beginning Competence - Competent - Very Competent

COMPETENCIES EVALUATED

- I can:
 - explain the benefits of telemedicine/ telehealth to patients and health care
- prepare and teach the patient to use telemedicine to gain access to health care.
 use telemedicine technology to share information with colleagues and providers to improve care and patient learning.
- 4. collaborate with a provider to assess and implement a plan of care.
- 5. receive and clarify the provider's plan/orders.
- organize and communicate information with patients, families, and healthcare team members in a form that is understandable, avoiding discipline-specific terminology when possible.
- portray an ethically correct attitude during videoconferencing (honesty, confidentiality, personal and professional integrity)
- recognize and use techniques that communicate empathy to the patient when using telehealth/telemedicine technology.
- 9. reflect/debrief on my individual and the team's performance with the goal to improve.
- 10. conduct a home assessment focusing on the safety of children and older adults.

DEFINING COMPETENCE

Adopted by the ANCC Competency-Based Education for Doctoral-Prepared APRNs Work Group (2016):

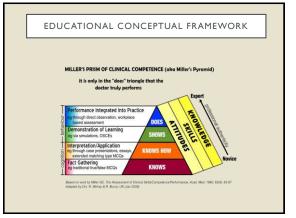
> The array of abilities across multiple domains or aspects of performance in a certain context. Statements about competence require descriptive qualifiers to define the relevant abilities, context, and stages of training. Competence is multidimensional and dynamic. It changes with time, experience, and setting.

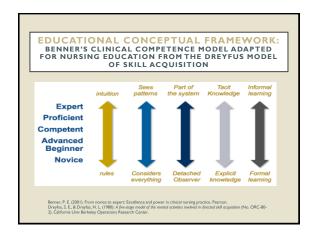
Frank, et al., 2010, p. 641

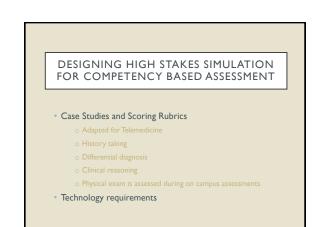
WHY COMPETENCE MATTERS

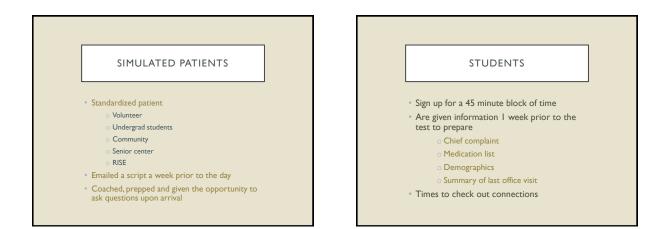
What people will do in a situation, or how they perform, does not always correlate with what they know about how to perform or what they are capable of (Miller, 1990)

- Components of CBA employ cognitive, technical, integrative, relational, and affective functions (Epstein & Hundert, 2002; Kalet & Pusic, 2014; Norman, 1985; Saucier, et al., 2012; Van der Vleuten, et al., 2012)
- * Components of CBA equate to employment evaluations classifications of Knowledge, Skills, and Attitudes
- Certification exams are summative tests of knowledge
 Research supports that this method of assessment does not establish clinical competence









DAY OF STANDARDIZED HIGH STAKES SIMULATION ASSESSMENT

- > 3 rooms each with an iPad, external speaker and standardized patient
- \succ Each room is streamed to the control room where an instructor is assigned to each room
- > Video is recorded and saved and shared with the student
- \geq 30 minute visit and 15 minutes of debriefing and reviewing the scoring rubric







REFERENCES

Andra M. (2017). Competency Based Christ Education for Advanced Protein Register Advances Andre Marine Raine and Erobert and Section 2018 Andrew For Advances Advanced Protein Register distantiation of the All O. S. (2015). Telemedicine education in nursing carricula. Nurse Education, Advances and Advances and Colleges of Nursing (2011). Essential of Instan's education in nursing Rentieved horner week accusation of Colleges of Nursing (2011). Essential of Instan's education in nursing Rentieved horner week accusation of Colleges of Nursing (2011). Essential of Instan's education in nursing Rentieved horner week accusation of Colleges of Nursing (2015). Cymerge Zase of APN Clinica Education (YMne American Advances and Processing 1015). Cymerge Zase of APN Clinica Education (YMne American Advancession of VP). (2017). NPI fact these: Rentieved from Instanti-Inverse and orginal advances horing Processing Colleges of Nursing (2017). NPI fact these: Rentieved from Instanti-Inverse and orginal advances American Advancession of VP). (2017). NPI fact these: Rentieved from Instanti-Inverse and orginal advancession).

Bray, C. O., & Otsen, K. K. (2009), Family NP clinical requirements: Is the best recommendation 500 hours? Journal of the American Academy of NPs, 21(), 135-139. http://dx.doi.org/10.1111/j.1745-7599.2008 00084.

Gallagher-Lepak, S., Scheibel, P. & Gibson, C. (June, 2009). Integrating Telehealth in Nursing Curricula: Can You Hear Me Now Online Journal of Nursing Informatics (OJNI), 13, (2). Retrieved from https://ii.org/13.2/Gallagher-Lepak.pdf

REFERENCES

Giddens, J. F., Lauzon-Clabo, L., Jeffries, P. G., McQuade-Jones, B., & Ryan, S. (2014). Re-envisioning clinical education for NP programs: Themes from a national leaders' dialogue. Journal of Professional Nursing, 30(3), 273-275.

Hallas, D., Besecker, B., & Newland, J. A. (2012). Evaluation of the clinical hour requirement and attainment of core clinical competencies by NP students. Journal of the American Academy of NPs, 24(9), 544-553.

Hawkins, S. Y. (2012). Telemedicine NP student clinical experiences: An essential educational component for today's health care setting. Nurse Education Today, 32, 842-845.

INACSL Standards Committee (2016). INACSL standards of best practice: Simulation participant evaluation. Clinical Simulation in Nursing, 12(5), S26-S29. http://dx.doi.org/10.1016/j.ecns.2016.09.009.

INACSL Standards Committee (2016). INACSL standards of best practice: Simulation Simulation design. Clinical Simulation in Nursing, 12(5), 55-512. http://dx.doi.org/10.1016/j.ecns.2016.09.005.

INACSL Standards Committee (2016). INACSL standards of best practice: Simulation Simulation-enhanced interprofessional education. (am-IPE). Clinical Simulation in Nursing, 12(5), 534-538. http://dx.doi.org/10.1016/j.ecm.2016/07011

Institute of Medicine. (1999). To er is human: Building a safer health system. Retrieved from Institute of Medicine: http://www.iom.adu/~/media/files/Report%20files/1999/To-Erris-HumanTo%20fer%20is/20Human%201999%2020report%20fer/df.20HumanTo%20fer/df.20Huma

REFERENCES

Natura of Malarine (2011). Coming the quality clasm. A new health system for the 11st century Washington, CIC Natura of Natura (2013). Health proteinson: education: A briegt to quality. Washington, CIC, Natural Acatemia Natura, Philatene, 2011). This factor of norsing Leading change, solencing health. Washington, CIC, Natural Acatemia Natura, Structure, Structu

Smuleten in Narning (2015) 11, 244-230. van Howelinger, T.M., Moerman, A., Ettema, R., Kort, H. & Case, O. (2016) Compatencies required for nursing telehabit activities. A Deplo-tady: Narie Education Today, 39, 50-62, retrieved from http://www.narie-education/optic/article/50210-6971 (100014-591).iteex

CONTACTS

• Marcy Ainslie- mainslie@rivier.edu

- Janine Reale- jreale@rivier.edu
- Cheryl Bragdon- <u>cbragdon@rivier.edu</u>

• Division of Nursing and Health Professions

- Rivier University
- 420 S. Main St
- Nashua NH 03060