HBCU Learning Collaborative
Virtual Simulation Webinar
August 11, 2020
Today’s Webinar

• Provide purpose, standards, expectations, and requirements for virtual clinical simulations.

• Provide program perspective, implementation, and recommendations for virtual clinical simulations.

• Introduce and provide a walk through sample of available virtual clinical simulation programs.

Vernell DeWitty, PhD, RN
Director of Diversity and Inclusion, American Association of Colleges of Nursing and Consultant, Campaign for Action
Teresa Gore, PhD, DNP, FAAN
Professor, University of South Florida College of Nursing
Presenter

Executive Director of Simulation and Assistant Professor at Columbia University School of Nursing’s Helene Fuld Health Trust Simulation Center

Kellie Bryant, DNP, WHNP, CHSE
Gaea Daniel, PhD, RN

- Postdoctoral fellow at Emory University
- Future of Nursing Scholar and New Careers in Nursing Scholar, Robert Wood Johnson Foundation
Teresa Gore, PhD, DNP, FAAN
Professor
University of South Florida College of Nursing
Disclosure

• Dr. Teresa Gore
  – None
Objectives

• Provide participants with
  – Purpose
  – Standards
  – Expectations
  – Requirements
for virtual clinical simulations.
INACSL Standards of Best Practice

- Simulation Design
- Outcomes and Objectives
- Facilitation
- Debriefing
- Participant Evaluation
- Professional Integrity
- Simulation – Enhanced Interprofessional Education
- Simulation Operations
- Simulation Glossary
Objectives

MEASURABLE

APPROPRIATE TO LEVEL OF KNOWLEDGE AND EXPERIENCE OF PARTICIPANTS

ADDRESS DOMAINS OF LEARNING

CONGRUENT WITH OVERALL PROGRAM OUTCOMES

INCORPORATE EVIDENCE-BASED PRACTICE

HOLISTIC CARE OF THE PATIENT

ACHIEVABLE IN AN APPROPRIATE TIMEFRAME
Kellie Bryant, DNP, WHNP, CHSE
Executive Director of Simulation and Assistant Professor Columbia University School of Nursing’s Helene Fuld Health Trust Simulation Center
Objectives

- Discuss implementation of virtual simulations.
- Describe strategies for using simulation to promote cultural awareness.
- Summarize evaluation methods for virtual simulation.
Problem: Closure of academic setting

Needs: Meet outcomes for clinical practice and simulation remotely

Strategies: Remote, hybrid & screen-based simulation

Implementation: Selection of resources, training for faculty & students, integration into curriculum

Evaluation: Are outcomes being met? Is it effective?
Healthcare Education

**Didactic**
- Lectures
- Exams

**Clinical**
- Patient Care experiences

**Simulation**
- Patient Simulators
- Standardized Patients
- Task Trainers
- Extended Reality
Screen-Based Simulation Programs

- **Synchronous**
  - Live streamed hybrid simulation
  - Facilitated Screen-based

- **Asynchronous**
  - Screen-based simulation
  - Online case study
  - Mobile Applications
Patient Care Simulation

• Simulates real patient encounters

• Used to evaluate competency and clinical knowledge attainment

• Enhances students clinical reasoning, critical thinking, situational awareness, communication, teamwork, & clinical judgment skills
Commercial Screen Based Simulation Programs

- Oxford Health
- Shadow Health
- Aquifer
- iHuman
- Vsim
- Body interact
- ATI Real Life Scenarios
Online Case Studies

Medscape Education
Patient Simulation Cases
Meet and Treat Virtual Patients with Abdominal Pain and Diarrhea: A Patient Simulation

Earl is a 60-year-old healthy male who presents to his annual exam with 6 month history of abdominal pain and occasional diarrhea.

Karen is a 27-year-old female with a 2-year history of irritable bowel syndrome (IBS-D).

SEE EARL

SEE KAREN
Telehealth Standardized Patient Scenarios
Psychomotor Skills Acquisition

• Virtual open practice

• Mail students skills training kits

• Mobile applications

• Screen-based programs
Mobile Applications

- Learning Nurse
- Medical Joyworks, LLC
- SkillStat
Online Clinical Skills Courses

The MammaCare Foundation

The Introduction of Clinical Breast Examination Standards with Hands-on Practice

Course Topics:
- Normal breast structure
- Normal change in the breast
- Disorders of the breast
- Development of breast cancer
COVID-19 Orientation for Frontline Healthcare Providers in the Acute Care Setting
Preparing Students to Care for Patients with Covid-19

- Ten minute screen-based simulation donning and doffing of PPE.
- Based on CDC guidelines.

https://www.etrainetc.com/covid19PPE-емicrosim
Infection Prevention - Personal Protective Equipment (PPE)

COVID 19
Evaluation Methods

- Evaluation rubric
- Direct feedback from Standardized Patient
- Computer generated evaluation
- Formative feedback from instructor
- Debriefing
INACSL COVID-19 Mini Webinars Series

Access to the webinars can be found:
https://www.inacsl.org/education/webinars/

- Evidence to Support Virtual Simulation as an Effective Pedagogy During the Pandemic: Research and Policy Implications
- Debriefing Virtual Simulation: The Evidence and Recommendations
- Introduction to the CAN-Sim Shared Repository of Virtual Simulation Games and Other Resources
- Delivering Virtual Simulations through on-line Platforms
- Standards of Best Practice Simulation- A Lens Toward Virtual Simulation
- Prebriefing Guide for Online, Remote and Virtual Simulations
Resources

• Society for Simulation in Health Care

• International Nursing Association for Clinical Simulation and Learning

• National League for Nursing

• Quality and Safety Education for Nurses Institute
Promoting Diversity through Simulation

- Ensure manikins, task trainers, Standardized Patients are diverse
- Refrain from using biases in your scenarios/case studies
- Add cultural considerations to all patient backgrounds
- Design scenarios focused on cultural awareness
Lessons Learned

- Selection of activities should be based on learning objectives and outcomes.
- Think outside the box and be flexible.
- Use your resources.
- Be prepared for technical glitches and learning curves.
- Collaboration is key.
- What are we going to keep post-COVID-19? What’s the correct balance?
CONTACT INFORMATION

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Objectives

- Tips for engaging students
- Resource
- Virtual simulation demonstration
Tips for engaging students

• Set expectations at the beginning of the simulation
• Provide supplemental materials for preparation
• Prepare discussion questions
• Share professional experiences

The National League for Nursing provides:
  • Free resources
  • Paid resources
Advancing Care Excellence

Vulnerable Populations

- Seniors
- Alzheimer’s Patients and Caregivers
- Veterans
- Persons with Disabilities
- Pediatrics

ACE Unfolding Cases

Millie Larsen Example
ARISE Simulations

Chippewa Valley Technical College

Topics

- Assessments
- Diagnoses
- Skills

How it works

- Requires an iPad or iPhone
- Download application: Search “ARIS”
Virtual Healthcare Experience Portal

Centennial College, Ryerson University, and George Brown College.

Focus Areas:

- Emergency
- Maternal & Child Health
- Medical-Surgical
- Mental Health
- Pediatrics

Simulation Portal
Virtual Simulation Demonstration

Red River College & eTV Learning Technologies

- Disaster management scenario:
  - Simulation
  - Theory
  - Quiz
  - Debrief

Turbulent Sky Homepage
Discussion Questions

1) What questions, comments or reactions do you have?

Press #6 on your telephone key pad to unmute your phone to answer or ask a question
OR
Use the “chat” feature to send “everyone” a question.

If you are having trouble asking a question, please click the “Raise Hand” button on the bottom right of your screen.
Campaign Resources

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http://campaignforaction.org/resources

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