Adapting High-Fidelity Simulation to the Virtual Environment

High-Fidelity Simulation is an essential and versatile tool in educating health care providers on professional communication, clinical decision making, teamwork, and procedural competence. The Yale Center for Medical Simulation has adapted to using virtual and hybrid models to bring high-fidelity simulation to health care students and professionals throughout the COVID-19 pandemic. In this workshop, we will demonstrate how high-fidelity simulation can be adapted to the virtual environment by navigating verbal and written communication, adapting manikin-based scenarios, and fostering student growth through debriefing.

Learning Objectives:
1. Apply educational tenets of high-fidelity, manikin based simulation to a virtual environment
2. Foster professional communication between participants across verbal and written communication
3. Develop simulation scenarios based on participant educational needs to be used in a virtual or hybrid format

Facilitators:
Samuel Buck, MD, is an instructor in emergency medicine and has been involved in simulation since medical school, competing in simulation competitions internationally. During the COVID-19 pandemic, he aided in the development of YSM’s first virtual medical student clinical elective. He administers YSM’s preclinical and clinical medical student simulation sessions using virtual, hybrid, and in-person formats.

Leigh Evans, MD, is an associate professor of emergency medicine and executive director, Yale Center for Medical Simulation (Sim Center). She designed the six week elective for YSM students who were unable to attend clinical wards during the pandemic. She is the Principal Investigator for an RO1 grant “Improving patient and clinician safety during COVID-19 through a rapidly adaptive simulation intervention.”

Melissa Joseph ,MD, Assistant Professor is the Director of Resident Education at YCMS. Dr. Joseph leads our resident education through in-person and virtual simulations, as well as leading interprofessional hybrid simulations with the departments of emergency medicine and trauma surgery. She is also an investigator on our R01 grant.

Ambrose Wong, MD, MSEd, MHS, is the Research Director and Associate Fellowship Director at the YCMS. He has expertise in hybrid, in-situ and virtual simulation with interprofessional simulations with medical students, residents, pharmacists, and nurse. He is also an investigator on our R01 grant.

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