



STEPS

DAVID AND JO ANN SHAW CENTER
FOR SIMULATION TRAINING AND
EDUCATION FOR PATIENT SAFETY

NEWSLETTER

Fall 2021
Issue #1

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When it comes to patient care, experience is everything. At the West Virginia Simulation Training and Education for Patient Safety (STEPS) center, our students are learning life-saving procedures, developing interprofessional communication skills, and using new technologies before entering patient care environments. WV STEPS delivers innovative inter-professional healthcare training to help clinical learners improve their analytical, diagnostic, communication, and crisis-intervention skills. Customized clinical experiences are tailored to the level of each learner, from students to healthcare professions. We use a variety of patient simulators capable of everything from trembling and crying to bleeding or giving birth. Manikins and



trainers give clinicians the opportunity to learn, rehearse, and perfect skills ranging from simple to highly complex.

STEPS can also provide a variety of resources and opportunities for faculty and instructors to assist with research, teaching, and faculty development.

STEPS Website: <https://steps.wvu.edu/>

STEPS Resources

WV STEPS is accredited by the Society for Simulation in Healthcare in Assessment, Research, Systems Integration, and Teaching/Education.



Mother-Child Suite

Birthing manikin, live gasses, and NICU setup.

Classrooms, Debriefing Rooms, Computer Lab, Exam Rooms, and Proctor Station

19,000 square feet of instructional space to provide safe learning environments with fully responsive technology.



Clinical Skills Practice Labs

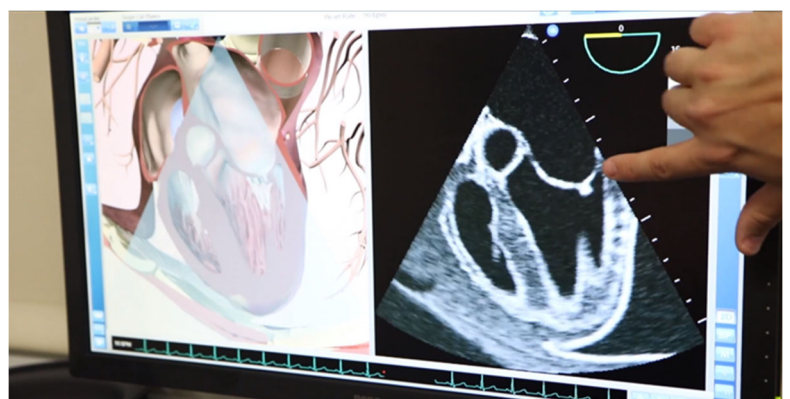
Open labs with individual stations for patients, manikins, or task trainers containing dual angle video recording, computer stations, ultrasound technology, and video screen.

Surgical Education Unit

Large table with video capability, Fundamentals of Laproscopic Surgery trainers, virtual reality endoscopy, projection equipment, and wet lab capacity.

Physical Assessment Lab

Lab space with eye and ear trainer, a variety of heart sounds trainers, virtual reality transesophageal echocardiogram technology, and Anatomage virtual cadaver table.



Did you know...?

STEPS can help you conduct research.

In coordination with the West Virginia University Institutional Review Board (IRB), STEPS has created a research protocol to facilitate investigations of normal educational practices related to simulation. A research committee comprised of STEPS staff, nurses, physicians, pharmacists, physical therapy, researchers and statisticians meet monthly to review research protocols and are available to assist you with your research needs.

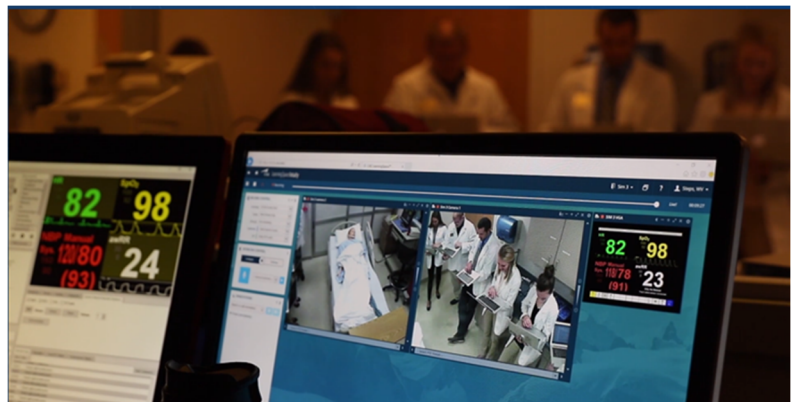
STEPS offers an online research toolkit.

Our toolkit includes information about IRB-required ethics training; resources to help you formulate a research question, review literature, and design a study; links to a repository of instruments used in simulation research, critical thinking tests, and interprofessional collaborative competencies; research “bootcamp” modules from the WV Clinical & Translational Science Institute; and suggested resources to search for scientific literature and validated assessment tools.



STEPS can help you collect educational data.

LearningSpace is healthcare simulation center management tool used by nursing schools, medical schools, and allied health professions that can collect educational data. LearningSpace records video and audio from high definition cameras, syncs data straight from the simulators and live notes from the observers. It allows the collection of multifaceted data based on a single simulation experience from faculty/staff, peers, standardized patients, and learners in order to compare perspectives on the same experience.



Recent Research

Sizemore JN, Kurowski-Burt A, Evans K, Hoffman A, Summers A, Baugh GM. (2021). Interdisciplinary Education Apartment Simulation (IDEAS) Project: An Interdisciplinary Simulation for Transitional Home Care. *MedEdPORTAL*; 17, 1111.



Home-based care (HBC) is a valuable tool to provide care to rural, medically underserved populations. By mitigating geographic and transportation barriers for vulnerable populations, HBC is a promising modality of health care delivery. We implemented a standardized patient simulation of a post-hospital discharge home visit using interprofessional teams of health science learners in a simulated home environment. For all 20 perceived abilities on the Interprofessional Collaborative Competency Attainment Survey, learners showed significant improvement.



Keener TA, Phillips B, Daia Z, Barnhart C. (2021). Pediatric Interprofessional Education Simulation Promoting Compassionate Care, Teamwork, and Communication. *Journal of Interprofessional Education & Practice*, 19(2), 100324.

Some other research conducted at STEPS...

- LGBTQ Cultural Competency Training for Third Year Medical Students on the Family Medicine Clerkship
- Emergency Medicine Resident Opioid Overdose Simulation: High-versus Low-Fidelity Training Scenarios
- NICU Mistake Madness Simulation INSITU
- Central Line Removal: The Right Approach
- IPE Sexual Assault
- Not Your Standard Patient



Faculty Development



Daniel Summers, RN, BSN, CHSE
STEPS Director

Upcoming at STEPS: Simulation Week Workshop Series 2021*

Monday, September 13, 2021

8:00—4:00 PM CHSE BluePrint Review

Tuesday, September 14, 2021

12:00—1:00 PM Faculty Development: *Orientation to Simulation*

1:00— 2:00 PM Faculty Development: *Introduction to Virtual Simulation*

Wednesday, September 15, 2021

12:00 — 1:00 PM Faculty Development: *Debriefing Session*

Thursday, September 16, 2021

12:00 to 1:00 PM Faculty Development: *Death of a Simulator:
To Die or Not to Die?*

Friday, September 17, 2021

12:00— 1:00 PM Faculty Development: *LearningSpace*

1:00— 4:00 PM *Simulation Olympics at STEPS*

*Continuing Education credits will be provided.

Orientation to Simulation at STEPS



Dorian J. Williams, MD, FAAFP, CPI, CHSE
Medical Director



Christy Barnhart, DHSC, MSN, RN, CHSE
Director for Nursing Simulation



Rusty Doerr, CHSE
Lead Simulation Education Specialist



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Questions about research at STEPS?

Contact Amy Summers,
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Questions about LearningSpace?

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