



The U-M Clinical Simulation Center

Advancing care and patient safety with leading-edge technology and education



The NEED

Imagine that when a medical student places a central venous catheter for the first time, a nurse works through a power failure, or a pediatric surgeon performs a delicate new operation on an infant, they have already practiced these scenarios countless times, so they are ready when the stakes are high.

The University of Michigan Clinical Simulation Center makes that possible. Using state-of-the-art simulators along with real medical tools and surgical equipment, our students, faculty, and staff can perform procedures and anticipate critical situations before encountering them in hospitals and clinics.

Simulation for health care training and performance improvement has revolutionized learning by providing early procedural experiences, opportunities for deliberate practice, and standardized assessment. Care givers are now empowered to practice safely, deliberately, and confidently, with skills and competence developed before they interact with patients.

The VISION

U-M has been a pioneer in using simulators to advance medical training and enhance patient care and safety, launching one of the first simulation centers in the country in 2004. Our Clinical Simulation Center covers 13,500 square feet of space in two locations, housing adult,

pediatric, and infant patient simulators equipped with software and sophisticated features that realistically replicate human physiology and response to treatment. that realistically replicate human physiology and response to treatment.

Human simulators can be intubated, ventilated, anesthetized, catheterized, and medicated intravenously. They can have heart attacks or present for childbirth with a range of fetal head positions and heart rates. Mock operating and trauma rooms enable instructors to create medical scenarios that are rare or routine, emergencies or planned. All the while, audio-video equipment records how participants react so they can review their performance, receive feedback from peers and instructors, and improve.

As procedures, knowledge, and approaches to care have advanced, the Clinical Simulation Center has remained at the leading edge of medical education, introducing new technology and opportunities for students, faculty, and staff to maintain and grow their skills.

The center has expanded virtual reality training, enabling users to immerse themselves in environments identical to the ones they will encounter in hospitals and clinics. The center also allows for independent simulation 24 hours a day, seven days a week, giving students and health professionals extended opportunities to practice techniques, take assessments, and refresh their skills in a variety of settings, including the new microsurgery lab.

The OPPORTUNITY

The impact of simulation on health care continues to grow rapidly, and we are striving to lead the way in realizing its full potential. To continue to innovate and set the standard for simulation training, we consistently invest in our infrastructure and equipment while focusing on creating new and impactful opportunities for learning.

As we envision and shape the future of simulation and medical education, we are seeking to expand our simulation space to meet the growing demand from students, faculty, and staff. We are also looking to create more immersive environments that will provide even more realistic scenarios and settings for users.

A gift to the Clinical Simulation Center will make a broad and transformative impact on medical education and health care. Your generosity will help ensure that surgical teams know how to work together to overcome obstacles, that trainees can practice their skills, and that medical personnel at all levels get hands-on simulation experience that benefits patients.

YOU CAN MAKE A DIFFERENCE

By supporting the U-M Clinical Simulation Center, you can help our students and health professionals utilize intensive, risk free-training opportunities to strengthen the quality of their work, improve outcomes, and provide the safest, most effective care possible.

TO PARTNER WITH US, CONTACT:

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