



WISER

Simulation Improving Healthcare

wiser.pitt.edu

WISER facilities include:

- 16,000 square-foot central facility
- 7 satellite centers including: Children's Hospital of Pittsburgh of UPMC and ISMETT in Palermo, Italy, UPMC Shadyside, UPMC East, UPMC McKeesport, and UPMC Passavant
- Dozens of adult and pediatric simulators including partial task trainers
- iPads for classroom use
- Audience response systems
- Video conferencing capabilities
- State-of-the-art simulation theaters that can realistically portray:
 - Operating rooms
 - Emergency and trauma rooms
 - Intensive care units
 - Patient rooms
 - Outdoor disaster sites
 - Many other custom environments



Notable accomplishments of WISER:

- Fully accredited by the Society for Simulation in Healthcare (SSH) for *Teaching, Assessment, Research, and Systems Integration*
- Endorsed by the American Society of Anesthesiologists
- Laerdal Medical Center of Educational Excellence
- Host to the Safar Center for Resuscitation Research Symposium
- WISER Annual Symposium on Nursing Simulation
- The Mediterranean Transplantation, Anesthesiology and Simulation Symposium (MedTASS)
- Basic Life Support (BLS) and Advanced Cardiac Life Support (ACLS) Certification Center
- MOCA certified center, hosting the Simulation Course for Part IV of Maintenance of Certification in Anesthesiology (MOCA®)

Featured courses:

- Central Venous Cannulation Training
- Crisis Team Training
- Difficult Airway Management Anesthesiology Training Program
- Fiberoptic Bronchoscopy Training Program
- iSIM: Improving Simulation Instructional Methods
- MOCA-Simulation Course for Part IV of Maintenance of Certification in Anesthesiology
- WISER Preceptor Program
- Operational Best Practices

The WISER Way

The Peter M. Winter Institute for Simulation, Education, and Research (WISER), a collaboration between UPMC and the University of Pittsburgh, is the world's leading healthcare simulation center affiliated with an academic medical center. At WISER, healthcare professionals at all career and training levels can perform complex and critical procedures on patient simulators. Simulator models include adults, children, and even a pregnant woman and her infant. Task trainers that represent particular anatomical systems help participants learn specific procedures, such as the placement of ventilator tubes and intravenous lines.

WISER offers more than realistic portrayals of human physiology. WISER's sophisticated equipment can make a patient care scenario more challenging by simulating a sudden unexpected complication, such as a decrease in heart rate or a sudden rise in the pressure inside the skull. The software directs the simulated patient to react realistically to the students' interventions. These systems also record data and provide objective feedback to participants after the exercise, enriching and standardizing their learning experience.

The data from the simulation sessions can also be used for research and the development of new education programs. Using the powerful Simulation Information Management System (SIMS) — developed by WISER — to capture and analyze data, faculty can study several different ways to react to a simulated medical emergency and determine the best approach. SIMS also serves as the operational backbone of WISER, facilitating smooth operation of this busy and complex training and research institute. In addition, WISER routinely runs drills at UPMC hospitals to identify how personnel can respond more efficiently to cardiac arrests and other emergencies.

By quickly implementing this learning in the care of actual patients at UPMC facilities, and by sharing results with the healthcare community through published reports, WISER improves patient safety in the Pittsburgh area and around the world.

WISER is creating a safer environment for patients by using simulation and other state-of-the-art educational technology in the training and assessment of students and healthcare professionals.

WISER at a Glance

The WISER mission is to improve patient safety and increase the effectiveness of healthcare education for all care providers. This mission is accomplished through education, research, advanced instructional technology, and the development and assessment of innovative simulation programs.

WISER has been performing healthcare simulation since 1994. Since then, WISER has trained thousands of healthcare professionals in a variety of simulation settings and conducted thousands of simulation-based training encounters. WISER participants include undergraduate nurses, pharmacists, medical students, residents, fellows, practicing physicians and nurses, respiratory therapists, and professionals from many other disciplines.



For more information about WISER, email us at wiserhelp@upmc.edu.

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