

Richard A. Henson Medical Simulation Center

About the Medical Simulation Center

The Simulation Center is housed within the College of Health and Human Services (CHHS) at Salisbury University. The CHHS academic programs that utilize the Simulation Center include nursing, respiratory therapy, social work, health and human performance, and exercise science. The Center is also utilized by other programs and groups outside of CHHS including the Physician Assistant Program at the University of Maryland Eastern Shore, the grant-funded Faculty Academy and Mentorship Initiative of Maryland (FAMI-MD) Program, the SU Eastern Shore Opioid-Impacted Family Support Program (OIFSP), as well as other continuing education programs and local community groups.

The Simulation Center is the only free-standing, collaborative, multidisciplinary health care pre-professional experiential learning facility on the Eastern Shore of Maryland. The facility features a 600-square-foot anatomy learning lab that contains five digital cadaver dissection tables and a 9,000-square-foot flexible, clinical practice environment that replicates real-world clinical settings that include:

- Medical/Surgical Adult Hospital Suite
- Pediatric Hospital Suite
- Labor Delivery Recovery Postpartum Suite
- Neonatal Intensive Care Unit Suite
- Outpatient Pre-Operative Suite
- Nurse's Station with a Pyxis Automated Medication Dispensing System
- Inpatient or Outpatient Mental Health Treatment Room
- Emergency Department Suite
- Home Health Suite
- Respiratory Therapy Suite

The use of high-fidelity manikins (robots), Standardized Patients (highly trained actors) and Standardized Patients wearing sophisticated prosthetic simulators offer learners the opportunity to care for simulated patients who exhibit a wide variety of disease conditions, illnesses and injuries. These simulations, in combination with structured pre-briefing and debriefing sessions and the opportunity to review each encounter via video recordings, offer learners a rich educational experience.



The Most Sophisticated Simulation Manikin Available Today

The Henson Medical Simulation Center uses the most advanced technology available for immersive health professional learning, such as the HAL S5301 Advanced Adult Manikin. HAL is the only one of his kind used in nursing education programs in the State of Maryland, and he offers many opportunities to advance learner experiences that are unique, some of which include:

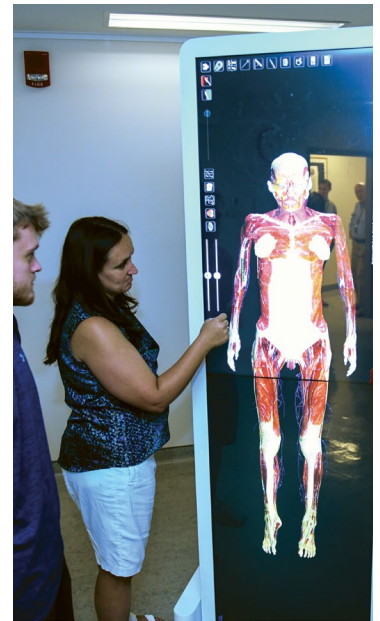
- HAL allows learners to evaluate his level of consciousness to assess for head trauma.
- HAL can shake his head, roll his eyes and abnormally move his arm, head and neck, allowing learners to diagnose and treat seizures.
- HAL allows learners to assess his depth of neuromuscular blockade (muscle paralysis) using nerve stimulation or train of four monitoring in intensive care or surgical settings.

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- HAL has artificial intelligence, and he can spontaneously respond to learners' verbal questions based on a preprogrammed patient chart.
- HAL allows learners to insert a chest tube to treat for a pneumothorax (collapsed lung) or hemothorax (accumulation of blood between the membranes lining the lungs).
- HAL's face and eyes can droop, and his grip strength can be weakened, which allows learners to recognize and assess that he is having a stroke.

Simulation-Based Individualized Elective Practice

The time it takes to reach clinical skill mastery varies widely between each learner, but opportunities to practice independently are typically constrained within traditional time-anchored fixed curricular settings at most universities. At the Henson Medical Simulation Center, all health care professional students are offered opportunities to repeatedly practice procedural skills without regard to how much time they need to reach best practices defined mastery achievement objectives. During these elective sessions, learners are immersed

in meaningful social practice environments where they can insert peripheral IV catheters, provide tracheal suctioning care, insert foley catheters, or listen to heart and lung sounds with Standardized Patients who are wearing advanced prosthetic simulators. While completing these procedural tasks, students concurrently practice patient-centered care by communicating, comforting and educating a variety of patients.

Digital Anatomy Learning Lab

The Simulation Center has the most technologically advanced visualization system for CHHS learners to conduct virtual cadaver dissections. Reconstructed from people who donated their bodies for health science education, the full-size digitized cadavers on five Anatomage™ Tables exhibit a similar level of anatomical detail and richness that can only be found in real cadavers. Learners master important concepts of normal and abnormal anatomy and physiology by manipulating the digital cadaver on a three-dimensional interactive, life-sized touchscreen. In addition to anatomical structures, learners can simulate functional responses, including cardiac motions and nerve pathways.



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