

# The Medical Record

Simulation Education for Improved Professional Practice

A Newsletter of the Richard A. Henson Medical Simulation Center • Salisbury University

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## Welcome!

Thank you for your interest in the Richard A. Henson Medical Simulation Center at Salisbury University. We are located just south of main campus on Pine Bluff Road. This newsletter is designed to keep faculty and friends informed about events at the Sim Center. If you are interested in using our facilities for any of your educational needs, or have questions or comments, please feel free to contact us at the directory information listed to the right.



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## Spotlight: New Pediatric Simulator

The staff of the Richard A. Henson Medical Simulation Center is pleased to announce the arrival of our new high fidelity pediatric simulator. The addition of this manikin to our growing “family” of simulators was made possible through a grant from the Maryland Clinical Simulation Resource Consortium (MCSRC), a statewide funding initiative, which is part of the Health Services Cost Review Commission (HSCRC) Nurse Support Program II (NSP II).

This wireless and tetherless, high-fidelity, five-year-old, pediatric simulator HAL® S3005, manufactured by Gaumard, significantly improves the participant’s simulation experience by eliminating the need for the large controller box that had been required with our previous pediatric manikin. The simulator, itself, has many new capabilities.

The software that runs this simulator allows instructors and simulation specialists to manipulate the manikin’s physiologic states and conditions from a distant control

room. Learners are able to see changes in vital signs in the manikin and simultaneously on the monitor while the simulation unfolds. A unique feature of Gaumard simulators is the ability to file share images, lab results or multimedia presentations to the monitor in the room. The manikin comes preprogrammed with many scenarios, but simulation specialists also have the ability to create their own.

Additionally, participants will have the ability to orally or nasally intubate the manikin, and the manikin can simulate right mainstem intubation or gastric inflation if performed incorrectly. He has sounds in his upper airways, lungs, heart and bowels. The simulator has carotid, brachial and radial pulses. His pupils will respond to light, just as a real patient’s would. He also has injection sites on his shoulders and thighs and intraosseous access at the tibia. The simulator also is able to simulate central cyanosis, or lack of oxygen in the blood, by turning his cheeks blue. This pediatric manikin can also “talk” through pre-recorded vocal sound clips or wirelessly through an



instructor headset.

This manikin has the ability for use not only in nursing and respiratory

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Salisbury  
UNIVERSITY

[www.salisbury.edu/henson/simcenter](http://www.salisbury.edu/henson/simcenter)



## Spotlight: New Pediatric Simulator

therapy simulations, but also in teaching CPR. Learners will be able to simulate chest compressions on the manikin, and the software will evaluate the quality of their efforts. He has lung compliance refined to deliver chest rise when ventilating at

20 cm H<sub>2</sub>O with ventilations measured and logged. The simulator allows defibrillation, cardioversion and pacing with real energy.

This state-of-the-science, pediatric simulator will provide invaluable learner experiences of common

complications, and life-threatening and rare situations in a safe and friendly environment. Please contact the staff of the Sim Center for more information about the simulator's capabilities or to reserve time with our new child.

## Special Events

### MEDICAL CAREERS CLUB

February 2016

The SU Medical Careers Club visited the Simulation Center to learn how simulation is used in healthcare education. Approximately 25 Salisbury University students, with varying interests in medical careers ranging from medical doctor to veterinary practice, participated with this hands-on experience. The center received feedback that the event was meaningful, hopeful and thought provoking for the students. We hope to do this again next spring. A special thanks to Dr. John Lee, Marylane McGlinchey and Khadijah Sampson (student president, SU Medical Careers Club) for organizing this event for the students.

### HONORS TOUR

March 2016

Dr. James Buss, dean of the SU Honors College, and eight freshman and sophomore Honors students toured the Sim Center with Dr. Lisa Seldomridge, director of Graduate and Second Degree Nursing

Programs, to learn more about the use of high-fidelity manikins and standardized patients in the education of University health professions students. The academic majors of the visiting students included nursing, respiratory therapy, computer science and biology. One student expressed an interest in developing more advanced manikins that could sit up and walk on their own! Several students were eager to participate in Sim Center research projects with the hope of developing their Honors theses around this pedagogy.

### ADMITTED STUDENTS DAY

April 2016

Newly admitted students were invited to SU for Admitted Students Day. Those declaring nursing and respiratory therapy majors were invited to tour the Sim Center as one of the many sessions offered by this program. Students had very positive feedback after the event, many mentioning their visit to the Simulation Center as their "favorite part." The students appreciated seeing the technology that they

would be using during their programs of study. One student even called the Sim Center's technology "mind blowing."

### WORCESTER TECH HIGH SCHOOL VISIT

April 2016

The students from Worcester County Technical High School's Biomedical Class visited the Simulation Center in April. Approximately 16 students, currently high school juniors, met Dr. Bob Joyner and Dr. Mike Scott (associate deans of the Henson School of Science and Technology) at the Sim Center for discussions on health care and STEM fields. Students enjoyed learning about how to succeed in their science-related education and careers. The students' instructor stated "in 10 years of teaching I have never had such a positive and enthusiastic response from students regarding a field trip." Drs. Joyner and Scott and the staff at the Sim Center were impressed by the maturity and focus on education that these students held and look forward to offering this field trip again in the future.

# Education Corner: Henson Medical Simulation Center MyClasses Canvas Page



We are pleased to unveil the Henson Medical Simulation Center MyClasses Canvas site (above). Designed to improve access to materials associated with simulations, the site is available to SU faculty and students in the nursing and respiratory therapy programs beginning fall 2016. On this site, users will find various modules to help them navigate the Sim Center and its many features. If users need assistance on how to use Learning Space, directions can now be found under the Learning Space module (pictured to the right). If faculty or students wish to register for a CPR course, they can find the registration information within the Sim Center website module.

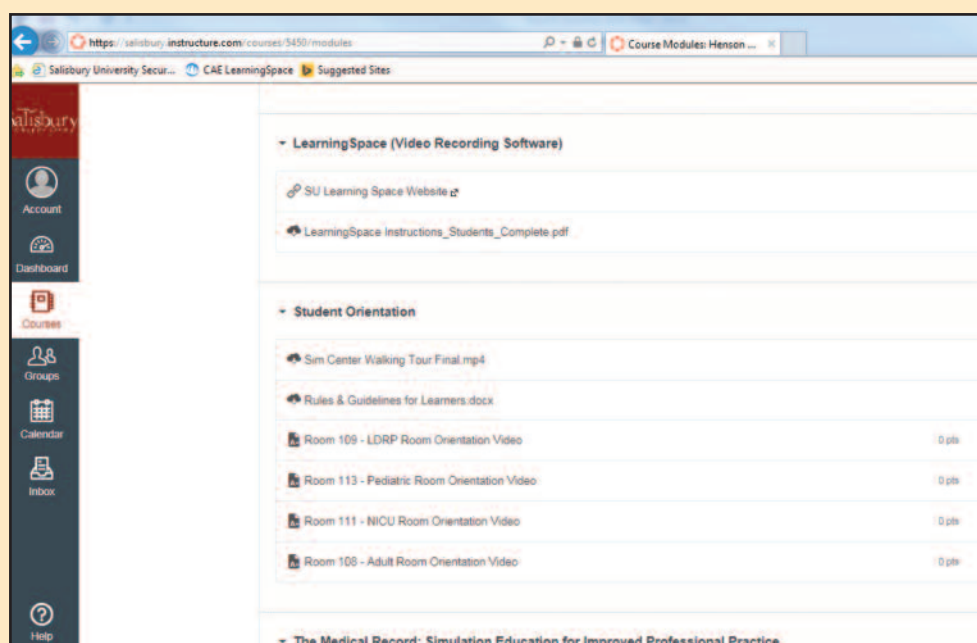
Sim Center staff also prepared orientation videos designed to familiarize users with the center. All users should watch both the “Walking Tour” and the

individual “Room Orientation Video” prior to their simulations. Important rules of the center also are posted in this section.

A faculty group within the Canvas site has been created for uploading and storing important course documents for use in conjunction with

simulation activities.

If you have further questions about the Henson Medical Simulation Center MyClasses page or suggestions for improvement, please do not hesitate to contact the Simulation Center.




## Education Corner: Electronic Medical Record

Managing patient information is an essential element of simulation, whether reviewing a medical history, laboratory and radiology results, physician orders, or documenting care provided. To improve the quality of the experience and more closely simulate this learning, the sim specialists created an Electronic Medical Record to replace the “paper charting” system. During simulations, learners can click on each tab to review the patient’s past medical history, provider orders, results of lab and diagnostic studies, and medication administration record, among others. They also will be able to chart directly within the electronic medical record on various forms. Faculty can determine how much or how little medical information is available to learners as well as provide feedback on the quality and accuracy of the learner’s documentation.

We are eager to incorporate this cutting-edge feature into our simulations!

**SALISBURY SIMULATION HOSPITAL**



**PATIENT DEMOGRAPHICS**  
NAME: HERNANDEZ, MATTHEW  
DATE OF BIRTH: 05/14/1964  
FIN # 684521  
HOME ADDRESS:  
828 MAIN STREET  
SALISBURY, MD 21801  
PHYSICIAN: DR. JONES

**History of Present Illness:** Mr. Hernandez just walked into the ER with shortness of breath and chest pain at a 5/10 severity since breakfast this morning. He describes it as “an elephant sitting on his chest.”

**Past Medical History:** Hypertension, Type 2 Diabetes Mellitus, PAD (peripheral arterial disease), smokes 1 ½ packs of cigarettes per day.

**Medications/Allergies:** Tenormin, Glucophage, Ticlid, KNDA

**Pre-op Vital Signs:** HR 88, BP 143/76, RR 14, T 97.6, SpO2 94% on RA, Weight 98 kg, Height 6'

PATIENT HISTORY	ORDERS	CHARTING
LAB	LABS/RADIOLOGY	COMMUNICATION

## Special Thanks

The staff at the Richard A. Henson Medical Simulation Center extend special thanks to Paul Clements and Bill Adkins. Behind the scenes, they have made repeated visits to the Sim Center to work on equipment we use daily. They have repaired switches on our infant warmers, simulation suite cameras, defibrillators, replaced manikin batteries (not as easy as it sounds) and numerous other things. Most recently, they saved the Sim Center thousands of dollars by repairing an ultrasound machine that was damaged after a large water leak in the Human Performance Lab. It is truly those working tirelessly behind the scenes who makes our Simulation Center an invaluable experience to the learners. Without people like Clements and Adkins, the Sim Center would not function nearly as well.

