

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!

Welcome back for the spring semester of 2015! Thank you for your interest in Salisbury University's Richard A. Henson Medical Simulation Center. We are located just south of main campus on Pine Bluff Road. This quarterly newsletter is designed to keep faculty and interested parties abreast of the happenings at the Sim Center. If you are interested in using the facilities for any of your educational needs, or have any questions, comments or concerns, please feel free to contact us at the directory information listed here.



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New Staff



I'm Christopher Evans. I am a graduate student in the Applied Health Physiology Program and the graduate research assistant for the Department of Health Sciences. I graduated

from SU with my B.S. in exercise science in 2014. I was previously enlisted in the Marine Corps, working as a helicopter mechanic before deciding on a career change. I have a strong interest in the cardiac/pulmonary rehabilitation field and hope to pursue a career in it.

Spotlight: Lucina's Arrival

The Simulation Center introduces you to our newest manikin, CAE Fidelis Lucina Maternal Fetal Simulator. She fits in perfectly with our growing family of simulators. She has user-friendly software that is very similar to that of the adult and pediatric manikins. Lucina's most unique feature is her ability to replicate realistic labor and childbirth experiences as well as common complications that occur before, during and after birth.

Lucina is as lifelike as it gets. Like iStan, she has physiologic modeling, heart sounds, breath sounds, palpable pulses, pupillary response, the ability to secrete fluids and, of course, the ability to speak! Lucina is different from iStan in many ways, however. She has multiple cervixes that allow students to practice realistic pelvic exams. The simulator has articulating joints and pelvic tilt, allowing a variety of delivery positions and childbirth maneuvers. We can even position her in a squatting position for delivery! Lucina also has a realistic, flexible airway that allows for emergency procedures and a respiratory system that allows for

mechanical ventilation.

Lucina is primarily a birthing simulator and can be used to simulate a variety of scenarios, including normal vaginal delivery, shoulder dystocia and breech delivery. Other scenarios include pre-eclampsia with seizures and post-partum hemorrhage. A simulated full-



Lucina® - CAE Healthcare

term fetus can be inserted into Lucina's abdominal cavity where it will descend and rotate through the birth canal. The baby has a realistic-feeling umbilical cord that is attached to a simulated placenta. The baby, who weighs about 5.5 pounds, is flexible and has hip articulation, palpable landmarks, the ability to cry, and a mouth and nose that can be suctioned, all of which add to the realism of the experience. After delivery, the technology provides one- and five-minute APGAR scores based on how well participants manage the delivery.

Both Lucina and her baby can be controlled from the bedside or at a distance, creating a safe learning environment where learners can gain confidence and independence. Lucina has sensors that can detect maneuvers performed by learners, records and integrates this information with software that shows improvements or deterioration in Lucina's and the baby's condition. An emulated maternal-fetal monitor displays maternal and fetal physiological data on a screen in the simulation lab for viewing by learners in real-time or

later via video recording. Debriefing and coaching by faculty helps participants gain insight into their clinical decision making.

This state-of-the-science, maternal-fetal simulator provides invaluable experiences to learners by exposing them to common complications and life-threatening and rare situations in a safe and friendly environment. Please contact the staff of the Sim Center to reserve time with Lucina.

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Special Events

The Richard A. Henson Medical Simulation Center has had many important visitors since opening in December 2011. This semester, President and CEO of Atlantic General Hospital Michael Franklin and Representative Andrew Harris (pictured right), one of Maryland's representatives in Congress, visited and toured our Sim Center. There were very impressed with the services that the Sim Center offers to students and the community and commented how vital simulation education is to learning,

especially in the medical fields. As an obstetric anesthesiologist for over three decades, Rep. Harris exclaimed "Now I feel at home!" when he walked through the doors of our labor, delivery, recovery and postpartum (LDRP) simulation suite. They were able to see Lucina and hear about the unique experiences that she can provide to learners of any level. The Simulation Center staff thank Franklin and Rep. Harris for their interest in our facility, while also congratulating Rep. Harris on his success in the recent election.

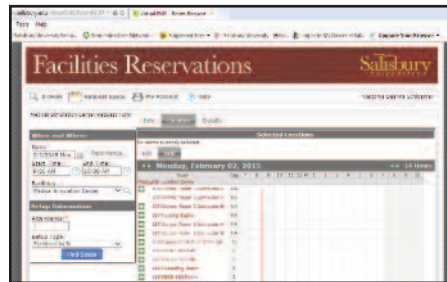


Facilities Reservations

The Simulation Center has a family of high fidelity manikins and incredibly powerful technology in use, but until recently, reserving space at the center has been through an antiquated paper and pencil process. In partnership with Scott Garrison and Kara Funkhouser of SU's Facilities Reservations, the Sim Center has moved its request form online. We believe that this online web reservation system is a simple, easy-to-use solution by allowing SU's faculty/staff and interested community members request Simulation Center space and resources while also allowing a live calendar view of current space usage.

This form can be accessed through the Facilities Reservations Center at www.salisbury.edu/reserve. To begin, click "Online Request Center." On the Facilities Reservations landing page, video tutorials are available to you, which can guide you through creating and editing a request. On this page, users select the "Medical Simulation Center Request Form" from the "Request Space" drop down menu. Users will fill out a date, time and attendance for the simulation for which they would like to request space and click "Find Space." This will open up a grid view for all of the available rooms. If a room is occupied, the reservation will appear in blue and if the facility is closed, those times will appear gray.

To reserve space, click the green plus sign next to the rooms you'd like to reserve. If a simulation requires on-site video recording, please be sure to reserve a control room and computer. Once rooms have been selected from the "Location" tab, the user can click the "Details" tab and complete all necessary fields. If equipment or services are needed, please be sure to add them to the reservation. Once a request has been submitted, users can edit requests by selecting "View My



Requests" from the "My Account" drop down menu.

The Simulation Center kindly asks that all bookings be added under one request heading. For example, if the same scenario will be repeated on several different dates, the event should be entered in the following manner: The "Event Name" is the class number and the scenario name. An example of this is "RESP 401- PALS Megacodes." To select several dates, click "Add Booking" in the "View My Requests" form or by selecting "Recurrence" on the "Medical Simulation Center Request Form."

Once requests have been submitted, the staff at the Richard A. Henson Medical Simulation Center will review your request and respond with a confirmation email. Please note that your requests have not been confirmed until you have received the confirmation email and the Simulation Center staff may need to edit your requests due to reservation conflicts, inappropriate use to space or resources, or inability to provide videography services. Adjustments to your requests will be included in your confirmation email, so please read carefully.

Requests should be submitted a minimum of five university business days in advance. If users have a unique request that cannot be accommodated through the "Online Request Center" or questions about the equipment or space, please

contact the simulation specialists directly. If users have questions about completing the form, please contact Carmel Boger (ciboger@salisbury.edu or 410-543-6420) or Edith Hooke (elhooke@salisbury.edu or 410-543-6401) in the SU Nursing Department. If users receive an error message, please contact either Scott Garrison (sagarrison@salisbury.edu or 410-548-3344) or Kara Funkhouser (ktfunkhouser@salisbury.edu or 410-548-2208) at Facilities Reservations.

To reserve space, interested parties that are not connected to Salisbury University can contact the Simulation Center directly at the directory information listed at the top of this newsletter.

Education Corner Custom Scenarios

Have you developed a new scenario for your students this semester? Would you like it to be programmed into one of our high-fidelity manikins? The staff of the Simulation Center can do this for you! Each manikin's software enables us to build patient profiles, load patient histories, develop handoff reports, pre-program stages of a scenario (e.g. admission to emergency care, treatment, discharge from emergency care, follow-up visit) and store preparation instructions (e.g. equipment needed, moulage, supplies). It also saves learning objectives, learning performance measures and key points to discuss during debriefing. These features facilitate standardization of simulations, smoother transitions between stages of scenarios and customized guidelines for effective debriefing. If interested, please contact the Simulation Center staff to schedule an appointment to discuss your scenario. It would be our pleasure to assist you.