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Director's Corner

Marjorie Lee White, MD,
MPPM, MA

October 1st marks my one year anniversary as leader of the Office of Interprofessional Simulation. I want to take this opportunity to thank our team, our stakeholders and partners for your tremendous work. Simulation is tough stuff – it's through the hard work of all of you that we've made tremendous strides towards meeting our mission of embedding simulation-based techniques and tools in education and training for the UAB community to improve patient care outcomes, education, research and health system efficiency.

Physician Assistant Simulations

Chad Epps, MD

The mission of the University of Alabama at Birmingham Physician Assistant (PA) Program is to provide qualified individuals with the knowledge, skills, and judgment needed to assist physicians in the care of patients in surgical and medical settings. Over recent years, the PA program has



This newsletter highlights all of the areas we are working in including core activities, health-system focused training and interprofessional university-targeted learning situations. Last month saw great strides in procedural training, a pilot with standardized patients for a new learner group and the acquisition of a new device to allow us to develop ECMO simulations.

Please also see the article written by Matt Windsor highlighting simulation @ UAB.

<https://www.uab.edu/mix/stories/ever-ready-simulation-accelerates-learning-innovation-across-uab-s-health-enterprise>

increasingly utilized simulation as a way to move towards this mission. The PA Program has intentionally embedded a one hour simulation course, PA 634 Simulated Clinical Concepts, during the fall semester of their 2nd year. Each week, the entire PA class (approximately 70 students) attends the class where four students are randomly chosen to participate in that day's scenario. The simulated scenario is streamed live to the classroom where the remaining students observe. At the completion of the scenario, the four students return to the classroom where a large group debriefing occurs.

This experience allows the PA students to apply knowledge gained over the first 12 months of the program to simulated clinical scenarios before they begin their clinical rotations. The focus of these simulations is appropriate patient management, decision making, and teamwork. While some scenarios force the team to work through complex differential diagnoses, other scenarios are specific critical events that students may otherwise not experience during their clinical rotations (e.g. tension pneumothorax, pulmonary embolus, cardiac arrest).

Orthopedic Ambulatory Standardized Patient Experience

Ruth A. Batemon, RN, MSN, NE-BC



AMC 21 and Foundation for the Future are seeking educational experiences for our ambulatory staff at UAB. On September 12, we were able to pilot a simulation experience using standardized patients in the Orthopedic Outpatient Clinic at Highlands. The orthopedic clinic manager, Bobbi Sandlin, coordinated logistics for this in situ experience to be in the actual clinical setting, allowing staff to be familiar with their environment and equipment used daily. The participants were employees of the orthopedic clinic and were fully engaged and enjoyed the insight they gained during this simulation. This experience was achieved through efforts and collaboration from OIPS, the Clinical

Skills Center of the School of Medicine, HSF Education & Development, Ambulatory Informatics, IDX, and the orthopedic staff. The ambulatory areas of UAB have not had many simulation experiences, but with this pilot, the possibilities for future simulations are endless. This will assist in providing safe patient care to all of our ambulatory patients as well as increase knowledge, skill level, and confidence in our ambulatory staff members.

Allied Sims

Tim Holloway, MSN, RN

Allied simulation is a new immersive interprofessional simulation that promotes teamwork among residents, medical students and nursing students in a clinical environment. A few of the objectives of the simulations are:

- Give the learners an opportunity to perform focused assessments on patients at a variety of acuity levels.
- Communicate with the interprofessional team in acute and non-acute situations.
- Initiate or recommend treatment for these patients.

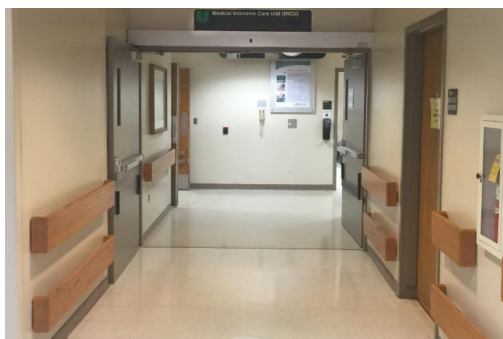


The simulations also allow learners who are actively

practicing to hone their skills in a reassuring environment. Another opportunity the simulation class provides is the chance to become familiar with essential tools that nurses and physicians will use every day like intubation equipment, defibrillators and various medication delivery devices. After the scenario ends, a debriefing is provided, focusing on communication and management of the patient. Sessions are led by Marjorie Lee White, MD, MPPM, MA Director, Office of Interprofessional Simulation. Facilitators include T. Jabril Cooper, BS, RRT, MAEd and Tim Holloway, MSN, RN.

MICU Deteriorating Patient Simulations

Anand S. Iyer, MD



The care of the deteriorating patient in the intensive care unit is complex and challenging for healthcare providers at any stage of their career, not to mention new critical care nurses or medical interns. It demands quick action as well as effective communication and leadership in a frequently hectic environment. The first time I had to jump to the rescue of a patient in the intensive care unit was memorable, and now I do this nearly every day as a Pulmonary and Critical Care Fellow at UAB. Equally important as rescuing a patient is recognizing and preventing clinical deterioration before it happens. Seeing a need for more education for trainees to develop these skills, the

Medical Intensive Care Unit (MICU) has teamed up with the Office of Interprofessional Simulation to start a recurring "MICU Deteriorating Patient Simulation," built on prior UAB simulation models like the ICU Interprofessional Simulation and Shock Week for Internal Medicine residents. Our first simulation in September was a success with great feedback from participants. Over the next year, Internal Medicine interns, acting interns, new critical care nurses, and nurse orientees rotating through the MICU will engage in a once monthly interprofessional simulation to illustrate a case that challenges these new critical care providers to broaden their differential diagnoses, to improve knowledge of novel diagnostic and management techniques in critical care, and to facilitate better communication between physicians and nurses in hopes of improving early recognition of clinical decline. We are eager to continue developing and refining this learning opportunity for new doctors and nurses at UAB Hospital and excited for its potential to improve the quality and safety of care delivered to some of UAB's most critically ill patients.

OIPS Team Member Highlight - Lisa Bagby

Lisa Bagby is an Advanced Nursing Coordinator with the Office of Interprofessional Simulation. Lisa was born in New Philadelphia, Ohio. She attended Knoedler School of Nursing in Jefferson, Ohio and received her LPN. Lisa went on to serve in the United States Army and attended San Jacinto College in Houston, Texas for her ADN. After Lisa's move to Alabama, she completed her BSN and her MSN at the University of Alabama. Lisa is a Certified Emergency Nurse and a BLS, PALS, ACLS, and NVC I Instructor. She has been with OIPS since January 2015 and has previous simulation experience as a nurse educator. Lisa is married to Ham Bagby, and they have two boys, Milo (8) and Jack (2). Her hobbies and interests include live music, spending time with the kids, and cooking. Her next vacation will be to the beach. Lisa can be found on Facebook, Instagram, Twitter, and Pinterest.



In Situ Basics for Simulation Facilitators



The UAB Office of Interprofessional Simulation (OIPS) has embarked upon a mission to improve the efficiency and effectiveness of our code blue resuscitations through in situ (on site) training. We have an opportunity to play an important role in the training process.

The In Situ Basics for Simulation Facilitators course is for simulation facilitators interested in deploying simulations in various locations. Designed to help equip learners with the skills to lead in situ simulations and debriefings, it will also

give learners tools to lead debriefings after real codes, as well. This course includes an introduction to in situ simulation, instruction in plus/delta debriefing, and an orientation to the UAB methods and techniques for integrating in situ findings into the quality structure.

The inaugural course participants were comprised of multiple professions. Attending physicians and registered nurses completed this simulation course in a safe and interactive learning environment. OIPS is committed to perfecting patient care through excellence in simulation.

School of Medicine 5th Annual RIME Summit

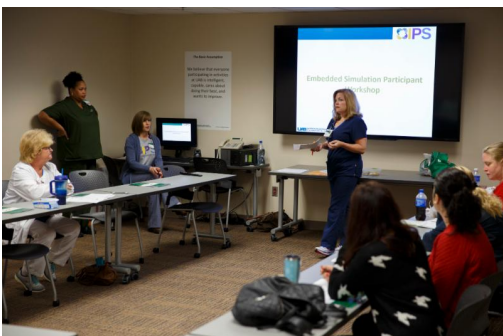
Dawn Taylor Peterson, PhD

The School of Medicine held its 5th Annual RIME Summit on September 17 and 18. RIME stands for Research and Innovations in Medical Education and focuses on teaching skills and innovative strategies for clinician educators. OIPS faculty (Dawn Taylor Peterson, PhD; Penni Watts, PhD, RN; and Marjorie Lee White, MD, MPPM, MA) facilitated a workshop on approaching interprofessional differences with mutual respect and curiosity. Participants were encouraged to reflect on ways they interact with colleagues from different professions as well as colleagues within their own discipline. Specific strategies from simulation debriefing literature were discussed and demonstrated as a way to avoid assumptions and move from certainty to curiosity when interacting with others in difficult or challenging situations. Concepts from this workshop will be incorporated into a future OIPS facilitator development course called Facilitating Interprofessional Debriefings. Please visit the OIPS website or contact Dawn Taylor Peterson (dtpeterson@uab.edu) for more information.



Embedded Simulation Person Workshop

Penni Watts, PhD, RN



Having trained "embedded simulation persons" or ESP's is integral to the success of a simulation. The term "embedded simulation person" or ESP is used to describe someone who is part of the simulation experience and supports the learners in their experience. Examples of ESP's are persons who play family members, healthcare providers, consultants, or even "sim helpers" in the room. As the scenario unfolds, often learners may drift from the intended objectives or intentions of the simulation. ESP's facilitate the simulation by providing gentle cues to the learners to keep the case on track. The "sim helper" or "sim nurse" helps support those in the simulation by validating

information such as physical assessment findings, operation of equipment, and location of supplies. Additionally the ESP can be the liaison providing lab and diagnostic results as well as locating other providers as they are needed to care for the simulated patient.

The ESP Workshop is designed to provide the participants with a general understanding of the role of the ESP in various simulations. The course offers a brief didactic presentation with majority of the course focused on the review of simulation videos discussing the various techniques and tips related to being a successful ESP. Participants also work in groups to troubleshoot common scenario issues and learn how to facilitate the progress of the case to ensure the simulation is successful. While the course is an introduction to the role of the ESP, we encourage participants to observe additional simulations as well as working with experienced ESP's to become more comfortable and skilled.

ECMO Simulation Training

Lisa Bagby, MSN, RN

In August, Lisa Bagby, ANC for simulation, traveled to The University of Arizona Center for Simulation and Innovation in Phoenix, Arizona to attend an ECMO Management conference offered through a partnership of the Extracorporeal Life Support Organization (ELSO) and the Society of Critical Care Medicine (SCCM). The intensive two day conference employed lectures, workshops, equipment demonstrations and immersive simulation to teach learners the components of the ECMO circuit, to diagnose equipment malfunction, recognition and treatment for common ECMO emergencies and determination of optimal ECMO settings for disease processes commonly treated by ECMO. This training was undertaken in preparation for the delivery of our newest simulation equipment, the EigenFlow ECMO simulator from Curtis Life Research. The Office of Interprofessional Simulation, in partnership with ECMO care providers from multiple professions, is in planning to develop high fidelity, interprofessional ECMO simulation in the coming year. Stay tuned - more to come in the near future!



EigenFlow ECMO Simulator

Jarrod Young, Clinical Simulation Specialist



The Office of Interprofessional Simulation is proud to announce the unveiling of our brand new ECMO simulator. We are one of three centers that have purchased this new product. The EigenFlow from Curtis Life Research connects to the ECMO circuit and allows the facilitator to simulate thrombi, line obstructions, air emboli, and cardiac and pulmonary changes in a high fidelity environment. The EigenFlow is easy to control with an iOS app from the App Store. The simulator allows for fluid to be pushed through the circuit to simulate the oxygenation of blood in the circuit. The EigenFlow also connects to a patient monitor to display the vital blood parameters needed for patient care.

Upcoming Events

October 1, 2015

[Facilitating Interprofessional Debriefing](#)

October 5, 2015

[SimConnect Journal Club](#)

October 9, 2015

[Poverty Sims](#)

October 27, 2015

[Sim 1](#)

October 28, 2015

[Sim 2](#)

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compiled by Kristopher Maday, MS, PAC, CNSC | Assistant Professor, Academic Coordinator

These summaries are available at www.uab.edu/simulation/resources under the "Simulation Articles" tab.



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