

September 1, 2015

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Director's Corner

Marjorie Lee White, MD,
MPPM, MA

We continue to rock and roll in the Office of Interprofessional Simulation. We're sponsoring, supporting and tracking simulation courses in our two main facilities -- Quarterback Tower's Center for Advanced Patient Safety and Medical Simulation and Volker Hall's Simulation Sandbox.

In QBT, this month we had many highlights. See the stories about the revamped Critical Care Orientation and the Continuous Renal Replacement Academy simulations. These are examples of how we are changing the way healthcare practitioners train and improving their

Leveraging simulation to teach multi-disciplinary teams how to effectively manage Continuous Renal Replacement Therapy

Ashita Tolwani, MD & David H. James, RN, DNP, CCRN, CCNS

Continuous Renal Replacement Therapy (CRRT) is a special type of dialysis used to support critically ill patients with acute kidney injury. It is a technically challenging procedure which involves multiple disciplines including nephrology, critical care, nursing, and pharmacy. Traditionally, CRRT providers, including nephrology trainees, learn CRRT through a didactic education program. Many



care of patients.

We also had the pleasure of hosting faculty from the Center for Medical Simulation, Boston, MA who served as faculty for the Institute for Medical Simulation @ UAB. We are proud to have 21 simulationists who now have advanced credentials and skills. We are looking forward to seeing what they will do with their newly acquired simulation expertise.

On the campus side, the summer break meant that we've had time for special topics courses and to prepare for the upcoming academic year.

I'm most excited about welcoming Wayne Hamberger to the Volker Hall Clinical Skills Center. He brings much needed additional support to the Standardized Patient Program. Please see the profile below for information about Wayne.

As always, I'm interested in hearing from you about how you'd like to partner to change the way we educate students and train practitioners using simulation. Please feel free to contact me mlwhite@uab.edu.

nephrology training programs do not have the expertise for adequate hands-on or practical training of fellows beyond didactics. For nearly 10 years, UAB Hospital has sponsored an annual two day CRRT Academy with the aim of providing a practical based understanding of CRRT. The Academy is open to nephrology and pulmonary/critical care fellows, clinicians, nurses, nurse practitioners, and pharmacists from all over the United States. After a day of didactic content and case studies, participants spend the second day in a series of mini breakout stations in the UAB Center for Advanced Patient Safety and Medical Simulation. By providing smaller faculty-to learner-ratios, these sessions allow participants to acquire working knowledge of the CRRT machine, develop skills in troubleshooting machine alarms, and improve aptitude in caring for CRRT patients using interactive scenarios.

Recently, there has been increasing national interest in expanding the role of simulation-based training for nephrology fellows to enhance clinical performance, skill retention, and interdisciplinary communication. This year, CRRT Academy implemented a multi-disciplinary simulation at the end of the course. Pulling from content learned during the on-site Center for Medical Simulation (CMS) training and the expertise from the UAB Office of Interprofessional Simulation, the CRRT simulation utilized a high fidelity "medi-man" in a critical care environment complete with a ventilator, CRRT machine, IV infusions, and family member. The simulation centered on common CRRT related medication errors. The debriefing explored the complex topics of error disclosing and interpretation of CRRT lab abnormalities. Feedback from participants and the CRRT faculty highlighted the value and engagement of the simulation. This year, we had participants from California, Wisconsin, New York, and Puerto Rico, as well as from UAB. We are looking forward to building more interdisciplinary simulations into the 2016 CRRT Academy.

Institute for Medical Simulation (IMS) at UAB

Dawn Taylor Peterson, PhD



OIPS hosted its second Center for Medical Simulation (CMS) course, Simulation as a Teaching Tool, August 11 - 14. This four day intensive course is designed for educators who seek to create and deliver high-quality healthcare education programs using simulation as a teaching tool. Participants were selected from across the UAB enterprise and included faculty and staff from the School of Medicine, School of Nursing, School of Health Professions, School of Dentistry, UAB Hospital, and Children's of Alabama. Faculty from CMS partnered with three OIPS faculty, Chad Epps, MD; Dawn Taylor Peterson, PhD; and Penni Watts,

PhD, RN, to deliver this interactive course which includes didactic sessions, simulations, small group discussions, and multiple opportunities for debriefing practice. Offering the CMS course at UAB allows us to capitalize on the expertise of world renowned faculty and to further the mission of OIPS in training healthcare professionals to use simulation-based techniques in education and training to improve patient care outcomes, education, research, and health system efficiency. OIPS plans to host two additional CMS courses in June and August of 2016.

Critical Care Orientation Simulations

Jennifer Oswald, RN

Upon completion of the Sim 1 course in February, many of the advanced nursing coordinators were inspired to take the critical care orientation in a new direction. A complete redesign of the critical care orientation has occurred over the last several months. After much collaboration with April Belle and the Office of Interprofessional Simulation, the critical care advanced nursing coordinators held their first simulation session on August 21. Together, we developed four simulations based around the following diagnoses: stroke, acute myocardial infarction, sepsis and pulmonary embolus. Each simulation day includes 25 new nurses divided into four groups. Each group participates in two simulations and observes two simulations. This means that we do four simulations twice in the span of only four hours. From our initial pilot group, positive feedback was received regarding the use of simulation as a learning tool. Comments from many who participated included: "I now understand the importance of escalation and communication." Nurses also stated they could now visualize their role as a nurse in these critical situations with real patients. Jennifer Oswald and Mary Ann Degges are the program coordinators who really pushed to make this happen. However, to put on two simultaneous simulations takes the entire team. While we are still learning and perfecting our own skills, we are bringing this exciting new way for our new hires to learn.



The critical care advanced nursing coordinators include the following:

Tammy Marshall (HTICU)-chair, Mary Ann Degges (CICU/S5S)-secretary, Peggy Abbott (SICU/GISO), Erin Blanchard (Preop/PACU), Ja-Lin Chen (W9N,S8S), Carolyn Curry (W6NW/ICVU/W5N), Vernessa Long (TBNU/ATCU), Gerick Marshall(TBICU/GISU), Wendy McCay (BMT/HOSU/W8N), Jennifer Oswald (MICU/S6S), Doris Strother (CCU/HICU), Melissa Callahan (Staffing Pool and UAB Highlands)

OIPS Team Member Highlight - Wayne Hamberger



Wayne Hamberger recently joined the Clinical Skills Center as the Program Manager. Wayne was born and raised in York, Pennsylvania and came to Alabama in 1977 with the U.S. Army. Wayne now calls Springville, Alabama home. He attended Jacksonville State University (JSU) while enlisted in the Army and following entrance to Officer Candidate School in 1979 was commissioned as a 2nd Lieutenant in Armored Cavalry and served four and a half years on the East-West German border. Wayne returned to JSU in 1991 to complete his Bachelor of Science degree in Psychology and English. He then continued his education to earn his Master of Science degree in Counseling &

Development in 1993 while working as a counselor/therapist in mental health. Wayne was awarded his license as an Alabama Licensed Professional Counselor in 1995 and his National Certification in 1996. He has attended numerous professional schools, including the University of Alabama Trauma Certification Program, the UAB Management Essentials, Safe Zone, and Disability Support Services and has over 900 hours of professional development in counseling. Wayne has over nine years of simulation experience in the US Army with gunnery maneuver, sand table and field training exercises as well as 10 years of simulation experience as a professional counselor using sand tray and play therapy while working with abused and traumatized children. He is married to Stephanie Hamberger, Director of Scholarships, Recruiting, & Evaluation at the UAB School of Nursing and has three daughters; Amanda, Ashley, and Amber Allen. He loves to cook German and Italian meals and hopes that his next vacation is an Alaskan cruise in 2016.

Special Topics Simulations

Stephanie Morris, MD

DocSkills is an aptly named Special Topics course designed to provide aspiring doctors hands-on experience with procedures commonly needed for the practice of medicine. Special Topics are one-to-two week immersion courses embedded within the School of Medicine curriculum on a variety of topics that students may select based upon interest. There is time allotted in the academic calendar from the second-to-fourth year curriculum for students to engage in Special Topics offerings.



Our most recent course was held in the newly equipped procedural training space in the SOM's Volker Hall Simulation Sandbox for ten 2nd year medical students the week of August 10. The students gained experience with skills as simple as (but commonly overlooked during medical school training) IV line placement to more complex procedures such as lumbar puncture. Utilizing ultrasound-compatible task trainers, the students also gained hands-on experience using ultrasound to guide the placement of internal jugular central venous catheters. Course directors for the course include Drs. Marquita Hicks and Stephanie Morris. Simulation support was provided by the Office of Interprofessional Simulation's student workers. Jabril Cooper, Lisa Bagby and Tim Holloway also assisted with setting up this event.

School of Health Professions - Health Care Management Project

Brian Mezzell



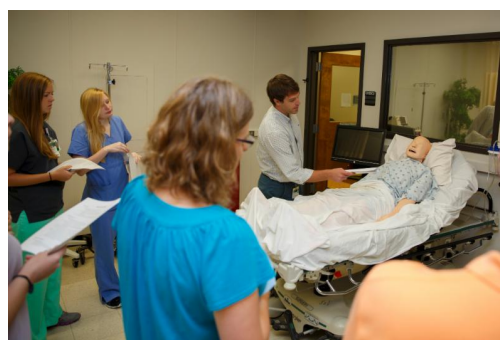
The Office of Interprofessional Simulation recently partnered with the Healthcare Management Program in the UAB School of Health Professions to assist a three person student team with their summer project. The Healthcare Management Program "exists to deliver high-quality market relevant education that builds the knowledge and skills required for successful management careers in the healthcare industry." The project was an operational analysis of OIPS and evaluated organizational elements such as manpower, capacity, and planning. The objectives were to understand how simulations are generated and delivered and gain an in-depth knowledge of the operations

management activities of OIPS. The students conducted their own research and met with OIPS team members and attended OIPS operations meetings to gain an understanding of how simulations are delivered throughout the UAB Campus and UAB Health System. Healthcare Management Students accomplished this by documenting current operations and strategies and through a detailed analysis of OIPS operations management activities and created a report of their findings for the Office of Interprofessional Simulation. OIPS would like to thank Pamela Paustian, Associate Professor and Director - Health Care Management, in the UAB School of Health Professions.

Student Teaching Assistant Orientation

Todd Peterson, MD

On August 22, the Simulation Teaching Associate program entered its second year with an orientation session for a new group of associates. The program is a training opportunity for fourth year medical students and senior nursing students to spend a year learning how to be simulation educators. The orientation provided an intensive overview of the world of simulation. After learning about the basics of running manikins and the technology associated with simulations, the associates had an introduction into debriefing principles and practice. After a primer on the many different roles and responsibilities of a simulation team, they had the opportunity to put their new found



knowledge to the test by putting on simulation cases for each other. The students gained a greater understanding and appreciation of what it takes to run a successful simulation program. They will have further opportunities to learn more about simulation by helping with interprofessional simulation modules throughout the academic year. It appears to be an outstanding group, and the OIPS team looks forward to another successful year. We'd like to send a special thank you to the following individuals who helped to make the event a success: Marjorie Lee White, Dawn Peterson, Tim Holloway, Penni Watts, Jarrod Young, Jabril Cooper, Charles Prince, and the entire OIPS Team.

Limbs & Things Trainer Demos

Jarrod Young, Clinical Simulation Specialist

The Office of Interprofessional Simulation was recently able to demo a few new trainers from Limbs and Things. For two weeks, we were able to demo a Shoulder for Joint Injection trainer and a Knee for Aspiration trainer. Thanks to everyone who was able to make it by and see the trainers or inquired about them while they were here. We would also like to say a special thank you to Dr. Penni Watts for organizing this demo for the UAB faculty and staff. Bringing in new trainers is a great way to keep our institution aware of all the great products that are available for simulation.

Upcoming Events

September 16 & 18, 2015

RIME Abstract Poster Sessions & Workshop

September 18, 2015

Critical Care Orientation Sims

September 22, 2015

DASH© Series

September 24, 2015

Sim 1

September 25, 2015

Sim 2

View the Latest Simulation Journal Articles

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

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