

*May 1, 2017*

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## Director's Corner

Marjorie Lee White, MD, MPPM,  
MA

Sitting down to write this at the end of April heading in to May, I am reflecting on what has been our busiest time yet. We've had activity across the spectrum of health care students and practitioners both internal and external to UAB. Please read more about the breadth and depth in the accompanying articles.

## Dental Emergency Simulations

Carly T. McKenzie, PhD

There were many days this month when every room (including hallways and elevator lobbies) was full and up to four simultaneous events were taking place. While I'm thrilled that the space we have is being used, it is notable that we have had to say no to people who wanted to partner with us to schedule simulation experiences and that the space we currently have is inefficiently organized and inadequate for current and near future activity. We can and should provide world-class space for our learners!



In April 2017, the School of Dentistry partnered with OIPS to hold a simulation experience at the Quarterback Tower Sim Lab. Two different groups of learners, periodontal residents and second-year pre-doctoral dental students, participated in a series of medical emergency simulations. Approximately 72 learners were engaged in simulation activities that occurred on three different days. Participants utilized the Quarterback Tower Sim Lab in order to practice effective management of common medical emergencies encountered in the dental office. These simulations also focused on communication among members of a dental team during an unexpected health event in the office. School of Dentistry representatives Drs. Tilashalski, Abou-Arraj, and McKenzie developed the scenarios and facilitated the simulation experience. A special thanks to Dawn Taylor Peterson, Charlie Prince, Amanda Gargus, Ben Whitaker, Tyler Burks, and Andres Viles for their assistance in making this experience a success.

## Intra-Operative MRI Space Simulations

Erin Blanchard, MSN, RN, CPAN

On April 25, the UAB Department of Facilities and Capital Projects partnered with OIPS to hold a simulation experience in an effort to get feedback from staff who will be working in an Intra-operative MRI (iMRI) suite that is scheduled to be constructed in the Women and Infant's Center (WIC). The simulation was held on the 8th floor of the WIC, directly one floor above where the iMRI suite is set to be built. The mockup included one of the Operating Rooms, the Diagnostic Room, where the MRI magnet will be housed, and the Control Room. Lighting and boom vendors also took part in the simulation in an effort to make sure the simulated space provided an accurate representation of what the proposed space would look like if it were built according to the current plans.



The simulations consisted of 33 learners, with disciplines such as nurses, scrub technicians, surgeons, radiology technicians, CRNAs, and anesthesiologists represented. A common theme of the experience was size and positioning of equipment, especially as the iMRI magnet enters the operating room for an intraoperative patient scan. Staff observations and preferences were gathered and will be considered in construction and planning of the space.

# Biosafety and Infectious Disease Response Training

Elena Kidd



On April 18 and 19, the Deep South Biosafety Worker Training Program (WTP), led by OIPS staff member Andres Viles and School of Public Health Program Manager Elena Kidd, provided health and safety training to individuals in a wide range of occupations who may be at risk during an infectious disease outbreak. While trainings are normally conducted in the Deep South Region (Alabama, Mississippi, and the Florida panhandle), the Deep South Biosafety WTP was invited to conduct an awareness, operations, and train-the-trainer course in Kennewick, Washington by the Region 8

Public Health Emergency Preparedness and Response section of the Benton-Franklin Health District. Participants of this training included nurses, laboratory workers, healthcare technicians, and EMS from across the Tri-Cities area. The courses covered topics such as chain of infection, isolation precautions, infection prevention, guidelines, standards and regulation compliance, and safety risk assessment. Participants also received practical, hands-on training in donning and doffing personal protective equipment that would be used to protect themselves and others if responding to an infectious disease threat. The goal of the training is to increase participants' skills and knowledge of biosafety and infection prevention and then use this knowledge to train others at their organization. Funding for this training was made possible by a grant from the National Institute of Environmental Health Services (NIEHS). For more information about the Deep South Biosafety WTP or the course offerings, please visit <https://www.soph.uab.edu/dsb/> or email [dsbwtp@uab.edu](mailto:dsbwtp@uab.edu).

## SRNA CVL Procedural Training

Brad Page, MSN, CRNA & Stephanie Hall, MSN, CRNA

On March 7 and April 4, the Department of Anesthesiology partnered with OIPS to hold a simulation experience at Jefferson Towers Simulation Lab. The simulation consisted of 5 Student Registered Nurse Anesthetists (SRNA) from UAB School of Nursing and 5 Certified Registered Nurse Anesthetists (CRNA) from Anesthesia Services. Participants utilized the Ultrasound-guided Central Venous Line (CVL) Simulation in order to verify basic competency and understanding of the UAB standard for CVL insertion. The SRNAs and CRNAs were able to familiarize themselves with using ultrasound for CVL insertion, as well as being able to look at the CVL kits that UAB Hospital utilizes.



## Prep for Practice Simulations

Brooks Vaughan, MD

On April 10-20, the Schools of Medicine, Nursing and Health Professions partnered with OIPS to present an intense intraprofessional experience in the OIPS facility in Quarterback Tower. This was a unique event which allowed for students in a variety of courses across campus to work together as learners. The simulations consisted of medical students, nursing students and students from the



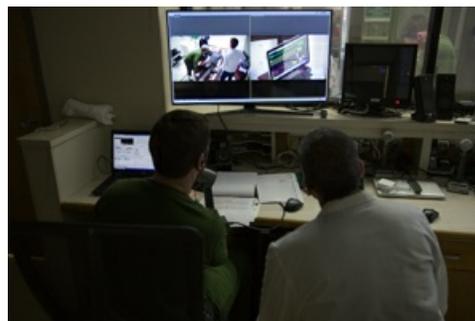
Masters of Science in Health Administration program in the School of Health Professions. Participants utilized high fidelity simulations in order to work on a variety of skills critical to physicians, nurses and hospital administrators. Included were scenarios where physicians might need assistance from hospital administration, and a variety of simulations involving critically ill patients and teamwork between physicians and nurses involved in their care. Common themes of the experience included effective interprofessional communication, problem solving under stress, and recognizing when to ask for help or assistance in problem

solving. Thanks to William Sasser and Brooks Vaughan from the School of Medicine, Summer Langston, Penni Watts and Tracie White from the School of Nursing, Amy Landry from the School of Health Professions, and Jordan DeMoss from the UAB Hospital administration for their assistance with teaching and coordinating the students for this endeavor.

## Oral Maxillofacial Surgery Simulations

Patrick J. Louis, DDS, MD

On Friday, March 10 & April 7, 2017, dentists from around the United States participated in simulation experience embedded in their School of Dentistry Intravenous Moderate Sedation Course. Dentists spent a total of eight hours in simulation experiences to improve their ability to recognize and manage medical emergencies in their offices. Participants had an opportunity to practice airway skills and intravenous access skills in the procedural skills area and to care for sedation-related emergencies in the immersive simulated setting. Faculty, residents and a nurse from the Oral and Maxillofacial Surgery Department and staff from the School of Dentistry CE department partnered with OIPS to develop this course to improve the experience of these learners.



This is the second year of involving OIPS in this Moderate Sedation Course. Lessons learned last year were used this year to improve the experience of the learners. Airway and cardiac emergency simulations were used to promote skills in communicating effectively, designating leadership, calling for help early, use of cognitive aids and other CRM key points. Plans are underway to incorporate OIPS in other courses. The experiences were positively received by participants and session leaders.

I would like to thank members of the Office of Interprofessional Simulation for Innovative Clinical Practice, the Department of Oral and Maxillofacial Surgery and the School of Dentistry Continuing Education Department for partnering to make this a successful education event.

## Alabama League for Nursing Annual Conference

Shilpa Register, OD, MS, PhD



**Alabama League  
for Nursing**

We are proud that simulation research performed at UAB was shared with other healthcare professionals at the 2017 Alabama League for Nursing Annual Conference which was held at the UAB School of Nursing in March.

We had one oral presentation which focused on

interprofessional simulated intensive care unit experiences and its use in developing team and crisis management skills which was presented by Penni Watts, Kevin Leon, Summer Langston, Jabril Cooper, Dawn Taylor Peterson, Norman Bolus, Michelle Brown, James (Rick) Kilgore, April Belle, Jason Morris, and Jerry King. Laura Debiasi, Laurel Hitchcock, Sallie Shipman and Dawn

## Pediatric In Situ Simulation Pilot

April Belle, MSN, RN

UAB Hospital is working to maintain resuscitation preparedness for patients of all ages. In an effort to assess our state of readiness, the Office of Interprofessional Simulation for Innovative Clinical Practice (OIPS) recently hosted a pilot pediatric in situ (on site) simulation in the West Pavilion Conference Center. The conference center team initiated the appropriate emergency response system, and UAB's resuscitation team responded quickly to care for our simulated patient, Baby Tory.



Testing hospital systems using simulation is a responsible and savvy method for maintaining responsive and prepared healthcare teams. At UAB, in situ simulation is often used as a method for identifying successes and opportunities within our current practices. OIPS will continue to use in situ simulation as a technique to test the readiness of our emergency responses and teams for the benefit of our patients.

## SimMom Flat Belly

Ben Whitaker, Clinical Simulation Specialist



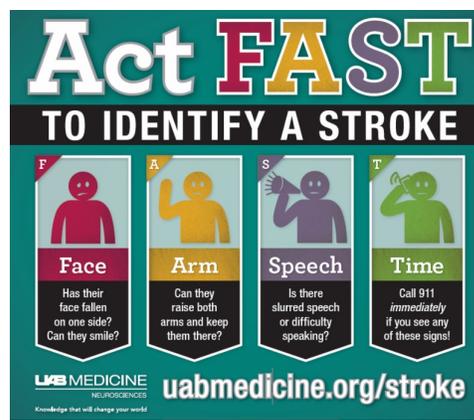
Recently, the OIPS acquired a new flat belly for SimMom. SimMom is an advanced full body birthing simulator designed for inter-professional obstetric training. Until now, the operations team has been limited to using SimMom's rounded pregnant belly, which has the potential to distract learners from their intended learning objectives when a pregnant belly is not needed. The flat belly allows the team to use her more like a regular patient manikin for scenarios that do not require a gravid belly. The belly contains two speakers which allow for the auscultation of bowel sounds and provides a more versatile appearance that can be used to help meet a

variety of learning objectives.

## Optometry In Situ Stroke Simulation

April Belle, MSN, RN

On Tuesday, April 4, 2017, the School of Optometry partnered with the Office of Interprofessional Simulation for Innovative Clinical Practice (OIPS) to host an in situ or on site simulation at The Eye Clinic. The simulation consisted of Optometry students and Eye Care Clinic staff. Participants utilized in situ or on site simulation in the Contact Lens clinic to care for a standardized patient with active stroke symptoms. The goals of the simulation were to identify signs and symptoms of an active stroke and activate the emergency response system within the Eye Care Clinic. The participants demonstrated quick assessment skills and intervened appropriately to care for the patient.



Thanks to Dr. Jill Ziemanski and Dr. Beth Steele for coordinating and facilitating this simulation experience.

## OIPS Team Member Highlight - Alyssia Williams



Alyssia Williams is a work study student with the Office of Interprofessional Simulation. She is originally from Demopolis, Alabama where she was Color Guard Captain in her high school band. Alyssia's family includes one brother, two sisters, two step-sisters and a dog. She is currently enrolled at UAB and is pursuing a degree in Materials Engineering/Pre-dental. Alyssia is planning to go to Dental School at UAB, but she is also considering pursuing a master's degree or joining the military. Her hobbies include creating do-it-yourself items like blankets and wreaths. She also enjoys movies, time with friends and family, being outside, exercising, and

playing video games. Alyssia's favorite food is pepperoni pizza, even though she has a slight allergy to tomatoes. She follows Vloggers - Natural Hair videos on YouTube, and her next read will be Stephen King's "It." Alyssia's next vacation will be to the beach, and she hopes to visit Las Vegas one day. She can be found on Facebook, Twitter, Instagram, Snapchat, and Pinterest.

### Important Dates for Simulation Community and/or Facilitator Development

May 5, 2017	<a href="#"><u>Sim 1</u></a>
May 8, 2017	<a href="#"><u>Procedural Skills Facilitator Course</u></a>
May 12, 2017	<a href="#"><u>ESP Workshop</u></a>
May 18, 2017	<a href="#"><u>Procedural Skills Facilitator Course</u></a>
May 24, 2017	<a href="#"><u>First Annual SimConnect Reception</u></a>
June 6, 2017	<a href="#"><u>Sim 2</u></a>
June 9, 2017	<a href="#"><u>Procedural Skills Facilitator Course</u></a>
June 13 - 16, 2017	<a href="#"><u>IMS @ UAB</u></a>
June 26, 2017	<a href="#"><u>SimShare</u></a>
June 26, 2017	<a href="#"><u>Procedural Skills Facilitator Course</u></a>

For Facilitator Development Opportunities visit  
<https://www.uab.edu/simulation/development-opportunities>



Top Rows (left to right): Andres Viles (Simulation Coordinator Senior), Brandon Smith (Clinical Simulation Specialist), Lisa Bagby (Director of Procedural Simulations), Ben Whitaker (Clinical Simulation Specialist), April Belle (Director of In Situ Simulations), Kelly Markham (Administrative Associate), Betty Farley (Program Director III), Brian Mezzell (Program Administrator II), Brad Bertke (Program Coordinator I), David Mathews (Clinical Simulation Equipment Technician), Erin Blanchard (Simulation Educator Senior), Marjorie Lee White (Director)

Seated (left to right): Tyler Burks (Manager - Clinical Simulation Operations - Audio Visual), Amanda Gargus (Clinical Simulation Specialist), Shilpa Register (Director of Research), Dawn Taylor Peterson (Director, Faculty Development & Training), Charlie Prince (Director of Operations)

For more information, please visit us on the web  
at <http://www.uab.edu/simulation>



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