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Team Highlight



Director's Corner

Marjorie Lee White, MD, MPPM, MA

January is a month for new beginnings and consolidating plans. As you can read in the story on the right, several members of our simulation team were fortunate to participate in the Society for Simulation in Healthcare's International Meeting on Simulation in Healthcare (IMSH) in January. This meeting is our annual opportunity to network with simulationists from centers across the world and vendors

OIPS Team Attends International Meeting on Simulation in Healthcare 2018

Shilpa Register, PhD, OD

who share their newest ideas. Our team both contributed to the meeting in scholarly and academic ways and benefited from learning about new techniques and technologies. A couple key lessons, for me, were the importance leading simulation centers are placing on systems integration and the potential for augmented/virtual reality. We're looking forward to partnering with you to continue to make the best use of simulation tools and tactics at UAB. Won't you partner with us?



This January, OIPS team members travelled to Los Angeles to present UAB's innovative simulation work at the world's largest conference dedicated to healthcare simulation learning, research and scholarship. At the 18th Annual International Meeting on Simulation in Healthcare (IMSH), the OIPS team presented three oral presentations focused on the development and implementation of the comprehensive vascular access team curriculum, the benefits of AIDET training for patient care technicians, and the use of IV sedation emergencies in the dental office. [Read more...](#)

Friday Night in the ER Tabletop Sims

Brad Bertke & Randa Hall, MSHA, MBA



On Monday, January 22nd, Class 53 of the Master of Science in Health Administration (MSHA) Program participated in the "Friday Night in the ER" team-learning game as the first component of their Operations Management and Process Improvement course. The objective of the instructors, Randa Hall and Dr. Nancy Dunlap, was for students to gain a better understanding of the complexities of running a hospital and the importance of systems thinking, innovation, and making data driven decisions in the daily operations of a healthcare organization. The objective of the game is to 'survive' a simulated 24-hour period (shortened to about 1

hour in real time) managing one of four hospital departments (emergency, surgery, critical care, and step down) by making decisions about patient flow. The 24 simulated hours of gameplay revealed many different aspects of the realities that influence clinical and administrative staff on a daily basis and how to collaborate across functional boundaries to achieve system goals. The experience ended with a debriefing that tied many of the themes to real life applications for the future healthcare administrators.

Sepsis Pilot Planning

Amanda Gargus, MSN, RN

Sepsis is a serious medical condition that can result in organ damage or death. The subtle progression and serious effects of this condition led UAB to implement a standardized Code Sepsis algorithm, beginning with a Code Sepsis checklist. OIPS educators Amanda Gargus, MSN, RN and April Belle, MSN, RN along with UAB's Sepsis Coordinator Mary Grace Cox MPH, BSN, RN are working together to create a tabletop simulation that will bring awareness of the importance of the Code Sepsis checklist by allowing learners to walk through the entire process using a simulated patient in the EHR (electronic health record) training area. This collaboration is expected to decrease UAB's sepsis rates and help UAB continue to optimize patient care.



Ambulatory In Situ Simulations

April Belle, MSN, RN



The UAB Office of Interprofessional Simulation for Innovative Clinical Practice (OIPS) has been consistently performing various in situ (on site) simulations throughout inpatient areas at UAB Main and UAB Highlands. In an effort to provide these services throughout the entire health system, OIPS is continuing to expand its reach to ambulatory areas. OIPS continues to host various interprofessional in situ simulations to encourage emergency preparedness while reinforcing strong teamwork and communication principles.

At the request of the Neuropsychology Clinic leadership, OIPS recently hosted an in situ resuscitation on the 6th floor of the Sparks building to help test their emergency response processes. After the unannounced simulation, the office team gathered to debrief and discuss their successes and opportunities. One of their concerns included testing their patient exit strategy. OIPS returned after the simulation debriefing to assist with testing and developing a strategy to remove patients with an unexpected emergency. Now the clinic has a clear and definitive plan for managing a patient with an unexpected resuscitation emergency.

Difficult Airway Workshop Simulation Stations

Erin Blanchard, MSN, RN, CPAN & Pankaj Desai, MD

On Saturday, January 27th, OIPS partnered with the Department of Anesthesiology and Perioperative Medicine to offer simulation stations in conjunction with their annual Difficult Airway Workshop. The hands-on portion of the workshop, organized by Dr. Pankaj Desai, followed didactic sessions and was held in the OIPS simulation lab on the 3rd floor of Quarterback Tower. A total of 11 faculty members facilitated nine procedural simulation stations that ranged from jet ventilation to cricothyrotomy to double lumen tubes and bronchial blockers. Five vendors were also present to interact with attendees. The simulation sessions drew 36 learners consisting of medical students, anesthesia residents and fellows, and nurses and certified registered nurse anesthetists. Learners commented on evaluations that it was a "Great experience!" and that the "large number of stations was great." The two departments hope to continue collaborating to offer these stations annually.



Oral Maxillofacial Surgery Sims



On Friday, January 19, dentists from around the region participated in simulation experiences embedded in their School of Dentistry Sedation Certification Renewal Course. Dentists spent a total of four 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, CPR and automated external defibrillator skills, and to care for sedation-related emergencies in the immersive simulated setting hosted in the Quarterback Tower sim lab. Faculty, residents and nurses 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 13 learners.

This is the third year of involving OIPS in this Moderate Sedation Course. Lessons learned in the past years were used this year to improve the experience of the learners. Airway and medical emergency simulations were used to promote skills in communicating effectively, designating leadership, calling for help early, use of cognitive aids, and other crisis resource management key points. The experiences were positively received by participants and session leaders.

We 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.

Tech Update: Completion Trainer

David Mathews, Clinical Simulation Equipment Technician

The Jefferson Tower Procedural Room (JT 229) is a dedicated space where learners practice clinical skills through procedural simulation that seems to be an ever-changing flux of technology and rapidly evolving procedural trainers.

The Central Venous Line insertion training module here at UAB grew exponentially as increased learner hours coupled with expensive replacement parts for CVL training torsos became a sustainability concern. OIPS values creativity and innovation, and with these values in mind, a new Completion Trainer was created and introduced. The new trainer gives participants the opportunity to perform elements of the procedure that were previously not possible due to procedural trainer limitations.

The Blue Phantom CVL torso is a wonderful trainer for developing the fine motor skills necessary in ultrasound guided needling techniques for successful venous access and verification of guide wire placement. The soft tissue inserts of the torso are designed for multiple injections but do not support specific elements of placing a Central Venous Line such as dilation, catheter insertion/flushing, suturing or dressing applications without substantially compromising costly replacement parts. Manufactured in house by OIPS using 3D print technology and a variation of platinum cure silicone products mimicking skin, the CVL Completion Trainer is specifically designed to further teach those skills and substantially reduce general wear and tear of trainer inserts.



Building a Local Community of Practice

Dawn Taylor Peterson, PhD



Much discussion is currently taking place in the field of simulation with respect to developing Communities of Practice. One way to enhance the UAB simulation community and to build our local Community of Practice is to engage in conversation and share lessons learned after attending a national or international meeting. The 18th Annual International Meeting on Simulation in Healthcare (IMSH) was held in Los Angeles in mid-January. UAB sent 20 faculty and staff from OIPS, the Health System, School of Medicine, School of Nursing, School of Health Professions, and Children's of Alabama. Lessons learned from the conference were shared at a

UAB simulation community debriefing lunch on Friday, January 26th at the Edge of Chaos. Take aways from the conference included updated information related to virtual simulation, facilitator development, and a focus on Safety II and resiliency in healthcare.

In Situ Simulation: Closing the Loop!

Andres Viles, MSN, RN

In situ (on site) simulation is an experience that occurs in the clinical environment and provides a way to improve safety in patient care areas.

OIPS coordinates mock resuscitations all over the hospital system as part of a strategy to reinforce and practice resuscitation skills. The goals of these simulations are to test the hospital system as well as discover opportunities for improving important resuscitation metrics.



Key stakeholders and frontline staff need to be aware of the identified hazards or deficiencies in clinical systems, the environment, or resuscitation metrics in order for improvements to occur. To that end, OIPS created a reporting document using the TeamSTEPPS® SBAR (Situation, Background, Assessment, and Recommendation) format as a template. The SBAR format, used to communicate critical information requiring immediate attention, allows OIPS the opportunity to "close the loop" with our stakeholders in a clear and concise manner. To date, the form has been well received and feedback from stakeholders positive.

Team Highlight - MSHA Intern, Jordan Anderson



Jordan Anderson joined the Office of Interprofessional Simulation for Innovative Clinical Practice to complete an internship in simulation. He is currently enrolled in the Master of Science in Health Administration and Master of Business Administration programs UAB. He is excited to learn about the field of simulation and the important role it plays in improving patient care.

Jordan was born in Nashville, Tennessee but grew up in Frisco, Texas. He originally attended Arizona Western College, in Yuma, Arizona to play football. Jordan stayed at Arizona Western for a year before transferring to Butler

Community College, in El Dorado, Kansas for a semester and was then offered a football scholarship to Troy University in Alabama. He completed his undergraduate degree at Troy University. His family includes his mom and dad, a brother, who works in banking for Morgan Stanley, a sister, who works as a communications director for UT Southwestern's Kidney Cancer Program, and a sister, who is a model in Dallas and New York and will be starting college soon. His interests include: traveling, hiking, golfing, working out, and spending time with family and friends. Jordan's favorite food is Italian food, and the latest book he read was "Infectious Madness" by Harriet Washington. He also loves listening to the Ted Radio Hour podcasts. His next vacation will be to Chicago and you can find Jordan on Instagram, Twitter, Facebook, and Snapchat.

Important Dates for Simulation Community and/or Facilitator Development

February 1, 2018	ESP Workshop
February 6, 2018	Introduction to TeamSTEPPS®
February 13, 2018	Sim 2
February 20, 2018	SimShare
February 26, 2018	SimConnect
March 8, 2018	Sim 1
March 20, 2018	Difficult Debriefings Workshop
March 20, 2018	SimConnect
March 31, 2018	MOCA Course

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



Standing (left to right): Charlie Prince (Director of Operations), Andres Viles (Simulation Coordinator Senior), Marjorie Lee White (Director), Amanda Gargus (Clinical Simulation Coordinator), Teldra McCord (Clinical Simulation Equipment Technician), Kelly Markham (Administrative Associate), Erin Blanchard (RN Simulation Educator Senior), Brian Mezzell (Communications Specialist), Betty Farley (Program Director III), Brad Bertke (Program Coordinator I), Shilpa Register (Director of Research), Shelby May (Clinical Simulation Equipment Technician), Fenil Patel (Simulation Coordinator), Ben Whitaker (Clinical Simulation Specialist)

Seated (left to right): Lisa Bagby (Director of Procedural Simulations), Tyler Burks (Manager - Clinical Simulation Operations - Audio Visual), Dawn Taylor Peterson (Director, Faculty Development & Training), David Mathews (Clinical Simulation Equipment Technician), April Belle (Director of In Situ Simulations), Joe Castongia (Clinical Simulation Equipment Technician)

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



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