

April 3, 2017

Director's Corner

Poverty Simulations at UAB

**Simulation Faculty Development
Article Published**

**Second MS BHS Cohort
Participate in Healthcare
Simulation**

Hospitalist Procedural Training

YMCA Simulations

CVAT Update

**Mini-Medical School Alumni
Simulation**

Recent Simulation Presentations

UAB Active Threat Video

**Ultrasound Tags Used in
Simulation**

SimTech Lunch Meeting

OIPS Team Member Highlight



Director's Corner

Marjorie Lee White, MD, MPPM,
MA

It seems spring is the busiest season of the simulation year – in the health system and the health schools. This newsletter provides updates on our mission-based activity. We seek to develop our simulation community of practice, improve the way we deliver simulations @ UAB, and disseminate

Poverty Simulations at UAB

Suzanne Judd, PhD

our expertise (see stories about SimTech lunches, use of ultrasound tags in simulation, and recent research presentations). We are committed to partnering to provide interprofessional simulations for health students across the age spectrum (see the Poverty Simulations, YMCA Sims and Biomedical & Health Sciences Sims stories). We have also focused heavily on developing our procedural skills curriculum and implementation (see CVAT and Hospitalist stories). We are always looking for new partners both for our core team and for our clinical partners. We are currently recruiting for two [Clinical Simulation Equipment Technician](#) positions. Please consider applying or forwarding the announcement to those who might be interested.

Please feel free to reach out if you have an idea or suggestion for how healthcare simulation could be used to improve our care for patients.



When teaching and discussing topics in public health, it is nearly impossible to ignore poverty since lack of resources often exacerbates health concerns. People living in poverty may not have access to health care and may suffer from chronic disease they can't afford to treat. In addition, poverty often means closer living conditions which can lead to more rapid spread of infectious disease. So our students are constantly thinking about poverty and socioeconomic status and how it may impact health. Because of these regular discussions, students often express frustration when we tell them in their senior capstone course that participating in a poverty simulation is one of the components required for the course. They believe they understand poverty and the consequences of poverty.

Their attitudes before the simulation make the comments I hear after the simulation that much more meaningful. [Read more...](#)

"Simulation Faculty Development - A Tiered Approach" Article Published in Simulation in Healthcare Journal

Marjorie Lee White, MD, MPPM, MA

Since OIPS was founded, one of its core activities has been in the development and delivery of simulation facilitator development. It has also been a goal to develop as a leading organization in this field. The development of expertise in simulation has been crucial for our expanded simulation capacity. This, like all of our major efforts, has been a collaboration. Our facilitator development program contains OIPS sponsored courses and is under the leadership of Dawn Taylor Peterson, PhD.

This month, the Journal of the Society of Simulation in Healthcare e-published an article written by Drs. Peterson, Watts, Epps and White entitled "Simulation Faculty Development: A Tiered Approach." The article describes the UAB facilitator development courses and our certification process. We are grateful to all the facilitators who have participated in all of our courses and particularly to those who have chosen to assist us with the continued implementation of our courses. We absolutely could not have developed this robust program without the support of all of our partners including UABMedicine and the Schools of Dentistry, Medicine, Nursing, Health Professions, Optometry, Public Health and the College of Arts and Sciences. We also appreciate those who have taken the extra step to complete OIPS certification. For more information about Office of Interprofessional Simulation facilitator development or certification, please see our [website](#).



Second Master's of Science in Biomedical & Health Sciences Cohort Participate in Healthcare Simulation

Carmel McNicholas-Bevensee, PhD, BSc & Kara Caruthers, MSPAS, PA-C



In partnership with OIPS, the 32 students enrolled in the Master of Science in Biomedical and Health Sciences program are participating in healthcare simulation. In a hands-on session, learners utilized a variety of task-trainers provided by OIPS to practice basic resuscitation, IV insertion and intubation. In addition, over the six week course, each learner will participate in one simulation using mannequins in the Volker Hall Sandbox, observe four others, and debrief as a group. The course is designed to reinforce material taught in prior basic science modules, and apply this knowledge in the context of a clinical case. Each simulation is followed by a classroom session to further evaluate mastery of knowledge from this clinical scenario in a team-based learning format. For some this is the first experience in a clinical setting, but it is a positive learning experience for all! While the learners aspire to a variety of health professions, all will likely utilize simulation in their future training, thus exposure to simulation-based training at this stage in their career path is invaluable. Many thanks to the OIPS team, including Tyler Burks, Teldra McCord, Amanda Gargus and Ben Whitaker for their help in preparing for, and running the simulations!

Hospitalist Procedural Training

Lisa Bagby, MSN, RN

On March 13, 2017, OIPS collaborated with Dr. Kierstin Kennedy, medical director of the Hospitalist Procedure Service to pilot procedural training for providers that are new to the service. The training sessions, based on a program created by Dr. Joshua Lenchus at The Gordon Center for Research in Medical Education at the University of Miami, consisted of thoracentesis, paracentesis, lumbar puncture, and central line insertion. These procedures all utilize ultrasound guidance, which was practiced in the session. Dr. Kyle Rudemiller joined the group to facilitate the lumbar puncture portion of the session and highlight ultrasound usage in the procedure.



This pilot session, held in the OIPS Jefferson Tower procedure labs, included attending physicians, registered nurse clinical care coordinators, and advanced practice providers. Overall, the training was well received. Thank you to Dr. Kennedy, Dr. Lenchus, and Dr. Rudemiller.

YMCA Simulation Pilot

Robin Lorenz, MD, PhD



On Thursday, March 30, 2017, the UAB Chapter of the American Physician Scientist Association (UAB APSA) partnered with OIPS to hold a simulation experience at Volker Hall. The simulation was part of a visit to UAB by ~25 YMCA Camp K-3rd graders and their counselors. The students participated in two simulations to learn about food allergies/anaphylaxis and asthma. The simulations used a manikin who exhibited the classic symptoms and required immediate emergency medical help. The goals of the simulations were for the students to be able to identify the early warning signs and symptoms of an anaphylactic attack

and asthma, to learn what things can trigger allergies/asthma, and to learn how to respond by calling for adult help, calling 911, and helping to administer an EpiPen and/or an inhaler. More generally, the simulation helped further a long-term effort of UAB APSA to positively impact the Birmingham community by inciting a passion for science and/or healthcare-related fields among local students. Thanks to Tyler McCaw, Jeremie Lever, Josh Jackson, Ryan McMonigle, Randy Seay, Paige Souder, Ashleigh Irwin, Rylie Hightower, Dr. Robin Lorenz, Dr. Marjorie White, and Dr. Dawn Taylor Peterson for their help in designing and presenting this simulation.

Comprehensive Vascular Access Team Update

Heather Jones, RN & Lisa Bagby, MSN, RN

In February, pilot training sessions for the Comprehensive Vascular Access Team (CVAT) were initiated. Facilitated by UAB's vascular access experts, these sessions included training for external jugular vascular access, ultrasound guided peripheral vascular device insertion, and peripherally inserted central catheter (PICC) training. Training continued throughout March and included central venous line (CVL) insertion training for Advanced Practice Providers who will work with the CVAT.



Feedback from learners participating in these sessions has been positive. After a procedural simulation session, one learner commented, "This will make me a better nurse. Trying the procedure on a trainer arm is so valuable to the patient. Actually being able to 'do' is so amazing!"

Mini-Medical School Alumni Event

David Resueher, PhD



On February 24, the University of Alabama School of Medicine and the Medical Alumni Association partnered with OIPS to hold a simulation experience at the Volker Hall Simulation Sandbox. The simulations consisted of medical educators from several departments and disciplines. One of the simulations was on the integration of ultrasound into the curriculum in conjunction with the medical student's anatomy training. The session was led by Dr. David Resuehr (Asst. Prof., Dep. Of Cell, Dev. And Integrative Biology) who is part of the core anatomy faculty and an ultrasound evangelist. During the session,

participants (alumni and their guests) were first given an overview of the current, modernized anatomy education our students at UABSOM receive. In addition to the seamless integration across several organ modules during the first two preclinical years, Dr. Resuehr created a program called B.A.T.S. (Basic Anatomy Training with Sonography) which allows students with a special affinity for ultrasound to further deepen their knowledge and skills, for instance during a week-long ultrasound course that is offered annually in partnership with the Emergency Medicine Department. After the presentation, several of our MS-2 and MS-3 students demonstrated their ultrasound skills in a live session on standardized patients in the simulation sandbox. Students were able to show alumni first-hand how, even with limited training, ultrasound can be an incredibly powerful tool for physicians of the 21st century.

Recent Simulation Presentations

Shilpa Register, PhD, OD

In March, Marjorie Lee White, Dawn Taylor Peterson, and Shilpa J. Register traveled to Philadelphia to represent UAB OIPS at the 2017 Annual National Academies of Practice (NAP) Meeting and Forum. National Academies of Practice represent 14 different health care professional academies of distinguished professionals advancing interprofessional healthcare through collaboration and advocating for policy. Our team presented a workshop to a group of practicing and teaching professionals where we focused on holding high expectations and high regard for our team members using three strategies including holding the basic assumption. In addition, we were able to learn from several posters, panel presentations, and workshops during our time in Philadelphia.



At the 2017 NAP Conference, Dr. Shilpa J. Register was selected to serve as one of three Associate Editors for the Journal of Interprofessional Education and Practice where she will work alongside Editor, Dr. Al Rundio, from Drexel University.

In March, Carlie McKenzie and Ken Tilashalski presented a poster with co-authors Marjorie Lee White and Dawn Taylor Peterson at the 2017 American Dental Education Association in Long Beach, California. The poster focused on teaching clinical communication skills to dental students using high-fidelity simulation.

UAB Active Threat Video

Tyler Burks, Manager - Clinical Simulation Operations



Last year, the OIPS team had the opportunity to work with multiple groups in the hospital to run an "Active Shooter" simulation. This year, Emergency Management, UAB Police, and OIPS got together and edited the video from that simulation. What came out of this effort was an educational version of the video which was shown by the Emergency Management team during its quarterly meeting. Their plan is to start using it as an add on to their current education about dealing with an active threat situation.

Ultrasound Tags Used in Simulation

Amanda Gargus, Clinical Simulation Specialist, RN

SonoSim Ultrasound Skin Tags were recently used in the MICU simulations. SonoSim LiveScan instantly transforms live volunteers and manikins into ultrasound training cases with real pathologic conditions. This allowed learners the opportunity to see life-like images from a tag placed on the manikin to bring realism into the simulation and to use knowledge of ultrasound to treat patients in the simulated environment. The appropriate ultrasound tag for the simulation can be incorporated into the sim to allow learners to gain experience with using ultrasound. Learners can then respond to what is being shown on the ultrasound window screen in order to provide care for the patient in the simulation. To use the ultrasound tags, simply apply SonoSim LiveScan Tags to designated anatomic locations on mannequins, use the probe to scan and probe movements are displayed in real-time within the SonoSimulator. Once the area has been scanned, learners can assess and provide the appropriate care to the simulated patient.



The initial response from learners using the ultrasound tags in simulation was very positive. Currently, the only area that learners can use the ultrasound is where the tag is placed on the manikin. Scenarios will have to be examined individually so that proper ultrasound images that match with the simulation can be utilized with the tags.

Quarterly SimTech Lunch Meeting

Tyler Burks, Manager - Clinical Simulation Operations



The SimTech lunch is a quarterly meeting for those interested in discussing and learning about new operational and technical developments in simulation. During our March meeting, we discussed our new simulation labels, policies and the implementation procedure. Moving forward, these labels will replace the "not for human use" labels. The group also discussed a portable A/V unit for in situ simulations that was created by OIPS. Other topics included current testing of tattooing moulage techniques for manikins. Images are printed and then transferred to a skin molded for the purpose and applied to the manikin. The next meeting will be held on

OIPS Team Member Highlight - Levi Stone

Levi Stone is a student worker with the Office of Interprofessional Simulation. He is originally from Sylacauga, Alabama, where his mom, dad, brother, and sister still reside. Levi is a proud foster uncle to his sister's four foster children. He is currently enrolled at UAB and is pursuing an honors degree in Biology with minors in Chemistry and Spanish. Levi also has an interest in medical sociology, specifically in rural populations. His hobbies include playing the drums, ukulele, and occasionally singing. Levi's favorite food is a calzone, and the last book he read was "A Long Way Gone: Memoirs of a Boy Soldier," by Ishmael Beah - which offers an eye-opening look into the often-neglected injustices occurring in Sierra Leone. His next vacation will be a road trip to the Grand Canyon. Levi will attend medical school next year, where he hopes to bring all of the valuable simulation experience that he has gained to the healthcare community. He can be found on Snapchat and Instagram.



Important Dates for Simulation Community and/or Facilitator Development

April 3, 2017	<u>Sim 1</u>
April 21, 2017	<u>Procedural Skills Facilitator Course</u>
April 24, 2017	SimShare
April 26, 2017	<u>Procedural Skills Facilitator Course</u>
April 26, 2017	<u>SimConnect</u>
April 28, 2017	<u>Sim 2</u>
May 5, 2017	<u>Sim 1</u>
May 8, 2017	<u>DASH© Series 3</u>
May 8, 2017	<u>Procedural Skills Facilitator Course</u>
May 12, 2017	<u>ESP Workshop</u>
May 18, 2017	<u>Procedural Skills Facilitator Course</u>

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>



Join Our Mailing List