

December 1, 2015

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Director's Corner

Marjorie Lee White, MD,
MPPM, MA

November 2015 saw continued excellence in simulation activity throughout the UAB enterprise. On the University side, physicians assistant students finished their semester of simulations in the Volker Hall Sandbox. We had two weeks of interprofessional simulations for

UAB QEP Interprofessional Teamwork Simulation

R. Lynn Holt, MS, C.G.C.

The School of Health Profession's Department of Clinical and Diagnostic Sciences (CDS) has partnered with the Office of Interprofessional Simulation (OIPS) to develop curriculum for the university's new quality enhancement plan (QEP)

www.uab.edu/accreditation/qep that



medical students and nursing students. We also continued to support the Poverty simulations. On the Health System side, the Critical Care ANCs continued their integration of simulation into orientation and in situ simulations continue to show how we can improve our care for patients.

We're 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 so that we can dramatically improve learning, patient outcomes and efficiency at UAB and be an international leader in applying simulation to education, training, patient care delivery and research. Please feel free to contact me by email (mlwhite@uab.edu) if you have suggestions for how we can improve.

is focused on learning in a team environment. In previous years, the CDS faculty has presented an interprofessional teamwork panel discussion with the goal of increasing students' awareness of the role of different members of the healthcare team. In 2015, this presentation was enhanced, with the support of OIPS, to expand the goals of the session to include a demonstration of effective team and personal communication in patient care.

In October, 124 first year graduate students from five programs in CDS observed an interprofessional team meeting and bedside consultation utilizing a standardized patient. The interprofessional simulation team included faculty representation from biotechnology, clinical and laboratory science, respiratory therapy, physician assistant studies, genetic counseling, nuclear medicine, internal medicine and nursing. Following the simulation, students met in small groups with a facilitator to debrief about the simulation. The debriefing focused on the role of effective communication in patient care, the role of each discipline in patient care and the connection between personality type and emotional intelligence in team communication. Based on student feedback, the session was well received. CDS plans to continue to include this enhanced session in the department's QEP curriculum.

UA Health Services Foundation Skills Lab

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



UAHSF HR Education & Development started a skills validation check off experience for all new hire clinical staff members in 2013. This skills validation has expanded to include simulation as an integral role in supporting the educational needs for our staff. In the John Whitaker Building, an ambulatory orientation is held every other week (following UAB Medicine Orientation) and clinical staff members utilize the skills lab to have initial onboarding skills validation check offs upon hire. There are simulation models

to assist with: blood pressure readings, how to manually take vital signs, intramuscular injections, medication administration, venipuncture, AED operation, crash cart training, performing an EKG, assisting with pelvic exams, as well as other specialized skills. This assists in providing safe patient care to all of our ambulatory patients as well as increased knowledge, skill level, and confidence in our ambulatory staff members.

RCDP: Nursing Mock Code Labs

Summer Langston, DNP, CRNP, ACNP-BC, AACC

Understanding how to perform safely and confidently in an emergent patient situation is something all nurses must know. In order to meet this need, UAB School of Nursing senior level BSN students participated in mock resuscitation labs as part of their advanced skills course in their fourth semester. The School of Nursing faculty partnered with the OIPS to facilitate these events in the Volker Hall Sandbox. Students had been previously instructed on current AHA ACLS guidelines and faculty had been trained on advanced



simulation techniques. During their lab, they participated in a mock resuscitation utilizing rapid cycle deliberate practice (RCDP) simulation with a ventricular fibrillation case. RCDP is a simulation technique in which students are stopped and coached in order to improve performance and provide for "perfect practice." Students worked in resuscitation teams to apply the AHA ACLS cardiac arrest algorithm and were coached to pause, rewind, and restart when faculty identified areas for improvement. At the end of the session, students reported increased confidence in their ability to work with a team and care for a patient during an emergency situation. Additionally, the students demonstrated increased knowledge and skill when operating emergency equipment after the events. During the first week of December, nursing students will participate in a mock resuscitation simulation with other professions including PA, RT, and CLS in order to put their previously learned skills into deliberate practice.

In Situ Isolation

April Belle, MSN, RN

Following our recent Joint Commission Accreditation visit, hospital leadership discovered an opportunity to test our hospital system regarding infection prevention. The Office of Interprofessional Simulation (OIPS) and Infection Prevention recently collaborated to host an in situ (on site) resuscitation simulation. Dr. Chad Epps, Associate Director for OIPS, and Dr. Bernard Camins, Medical Director for Infection Prevention, worked together to create a scenario to address caring for patients on contact isolation during a resuscitative event.

The simulation was offered on ICVU, W6NW. This interprofessional simulation included registered nurses, medical doctors (residents and fellows), respiratory therapists, pharmacists, infection preventionists, and more. The goal of the simulation event was to test our hospital system's ability to manage the resuscitation of a contact isolation patient while preventing the spread of infection. The interprofessional team worked together to successfully resuscitate the simulated patient, provide the very best care, and protect patients in surrounding environments from the spread of infection.

Following the simulation, there was a debriefing session that allowed participants to discuss the care provided and ask questions regarding the specifics of resuscitating isolation patients. Dr. Camins

provided insight regarding hand washing/antiseptics, personal protective equipment, and contact precaution specifics. OIPS also provided insight regarding resuscitation performance metrics, working in teams, and strategies for effective communication.

There are many opportunities for collaboration between departments for improved patient care. OIPS will continue on its mission to improve patient care through team-based simulation experiences. Simulation provides a chance to practice until perfect.

OIPS Team Member Highlight - Jabril Cooper

Jabril Cooper is a Clinical Simulation Specialist and Educator with the Office of Interprofessional Simulation. She is originally from Town Creek, Alabama in Lawrence County. Jabril attended UAB and obtained her Baccalaureate in Respiratory Therapy. She went on to receive her Master's degree in Health Education and is currently working on her PhD in Health Education/Health Promotion. Jabril has been involved with simulation since 2013 during her time as a teacher with the UAB Respiratory Therapy Program. She is currently planning a wedding with her fiancé, Daylin, and enjoys spending time with her friends and family including her nieces and nephews: Destyne, Trinity, and Gage. Jabril likes to shop, cook and spends a little time watching the latest episodes of "Say Yes to the Dress." She serves as Central District Representative on the Alabama Society for Respiratory Care Board of Directors. Jabril is looking forward to attending the International Meeting on Simulation in Healthcare (IMSH) in San Diego in January.



Harvey© Simulations

Anna Neklyudova



Recently in October 2015, 25 Clinical Skills Scholars (faculty preceptors in the School of Medicine's "Introduction to Clinical Medicine" clinical skills curriculum) had an opportunity to train with Harvey©, the heart and lung sounds simulator. The simulation experience proved indispensable to the Clinical Skills Scholars, who enjoyed refining their auscultatory skills and enthusiastically supported plans to incorporate similar training sessions into the clinical skills curriculum for medical students. Leaders of the ICM

curriculum and the Cardiovascular Module in the School of Medicine curriculum are currently collaborating on integrating a new interactive and hands on learning experience of cardiac heart sounds using Harvey© simulation into the first year medical student curriculum.

2016 Facilitator Development Opportunities

Dawn Taylor Peterson, PhD

OIPS is thrilled to unveil the new Development Opportunities section on our website. This newly designed webpage can be found by hovering over the For Facilitators tab on the [OIPS home page](#) and dropping down to Development Opportunities. The [Development Opportunities landing page](#)



now contains all of our SimUAB™ courses as easy to view buttons with additional opportunities on the right hand sidebar. You will notice that in 2016 we are adding four new courses to our current list of offerings - a [Facilitating Interprofessional Debriefing Course](#), a [Rapid Cycle Deliberate Practice Instructor Course](#), an [In Situ Facilitator Course](#), and a [Procedural Skills Facilitator Course](#). Click on any of the large, colorful buttons on the landing page to read more about our facilitator development courses and to register for a date and time that is convenient for you. We are also adding regularly scheduled [Debriefing Practice](#) sessions for our facilitators. These informal sessions will be offered five times throughout the year during lunch and will be tailored to the participants who register for that session.

OIPS is expanding [SimConnect](#) in 2016 to occur every month instead of every other month and to also include a variety of interesting lectures on popular simulation topics. If you would like to be added to our distribution list for SimConnect, please email simulation@uab.edu. A calendar invite will be emailed out two weeks prior to the [SimConnect](#) event and will include information on the topics covered in the lecture or in the journal article. If you are part of the SimConnect distribution list, be sure to respond and let us know if you plan to attend as we serve lunch at these events.

OIPS looks forward to continuing our partnership with you in 2016 and to developing even more experienced facilitators and debriefers who deliver quality simulation experiences throughout the UAB enterprise. If you have questions or feedback about our development opportunities, please contact Dawn Taylor Peterson, PhD - Director, Faculty Development & Training at dtpeterson@uab.edu.

Laerdal Training and the SimMan© Family

Tyler Burks, Clinical Simulation Specialist



I recently attended a class offered by Laerdal. Laerdal is the company responsible for the creation of SimMan©, nursing Anne, MegaCode Kelly™, MegaCode Kid, and a lot more. The SimMan© family is run by a SimPad© and has an optional touchscreen computer on which the learner can view live vitals of their SimMan©. During the class, we were shown the basics of how to change the vitals manually as well as being able to go online and create a theme. The themes are an outline of the vitals used during a scenario.

As a scenario progresses the vitals can be pre-programmed and timed to change. SimMan© can be

taken from a baseline to a predetermined level that can reflect either a decline in health or an increase. Usually, this will go in order from baseline to a decline and then, with the appropriate responses of the learners, a return to a more healthy state.

The class also offered up a quick view of a newly released function. The updated software now allows for the use of a webcam with the touchscreen computer. This merges all of the changes in vitals, introduction of pharmaceuticals, resuscitation, and recovery with audio and video of the simulation. The video option is new and the information was limited, but I look forward to testing the new options myself and I know that it will add a new level to the OIPS simulation experience.

SimMom® Upgrade

Jabril Cooper, Clinical Simulation Specialist

SimMom© is our high fidelity birthing simulator. She is used to perform obstetrics and gynecology simulations. In October, OIPS purchased an upgrade that included converting to wireless tethering and the addition of the Automatic Delivery Module. The wireless tethering addition gives SimMom© the ability to be moved without being physically connected to the computer that is used to control her. This adds to the realism and allows us to travel throughout the hospital with SimMom©. The addition of the



Automatic Delivery Module is an upgrade that now allows the SimMom© to deliver her full term infant automatically instead of manually. Before this upgrade, an embedded simulation participant had to facilitate normal delivery by manually pushing the baby down and out while positioned at the head of the bed. SimMom© is now able to give birth at the push of a button. Some examples of simulations in which SimMom© can be used include:

- Pre/Post Natal Care
- Normal Vaginal Delivery
- Breech Presentation
- Shoulder Dystocia
- Abnormal Uterine Bleeding

For more information about SimMom© or for information about planning a simulation, please contact us at simulation@uab.edu

Upcoming Events

December 4, 2015

[Sim 1](#)

December 7, 2015

SimShare Educational Networking

December 10, 2015

Sim 2

December 11, 2015

Advanced Debriefing Workshop

December 15, 2015

ESP Workshop



Top Row (left to right): Betty Farley (Program Director III), Kelly Markham (Administrative Associate), Lisa Bagby (Simulation Coordinator Senior), Jarrod Young (Clinical Simulation Specialist), Brian Mezzell (Program Administrator II), Tim Holloway (Faculty Educator), Marjorie Lee White (Director), April Belle (Simulation Coordinator Senior)

Seated (left to right): Charlie Prince (Program Director II), Dawn Taylor Peterson (Director, Faculty Development & Training), Jabril Cooper (Clinical Simulation Specialist), Penni Watts (Faculty), Chad Epps (Associate Director)

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

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