

*August 3, 2015*

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## Director's Corner

Marjorie Lee White, MD,  
MPPM, MA

July is traditionally a month of firsts in an Academic Health Center like UAB. Simulation is focused on making "firsts" safe. Our goal is that the first time any provider performs any procedure -- be it an central line or running a code -- that it be in the simulated setting.

For the Office of Interprofessional Simulation (OIPS), we are delighted to have hosted learners from all levels for some of their firsts this month. As you read this newsletter, you'll see that we hosted junior high students, pre-medical students, engineering

## Intensive Care Unit - Interprofessional Education

Penni Watts, PhD, RN

Intensive care units are often busy, chaotic places with many critical incidents occurring. Novice healthcare team members often have few opportunities to independently manage the urgency of these situations. The ICU Interprofessional Simulation experience was designed to provide upcoming healthcare team members exposure to complex patient situations. Seven healthcare professions and students came together to participate in the simulation. Professions participating included medicine residents and interns, physician assistant students, laboratory science students, AMNP nursing students, physical therapy students, respiratory therapy students, and nuclear medicine students. The total number of learners for this event was



students, new resident trainees and many others for their "first" patient care encounters. An important set of firsts included interprofessional groups who practiced medical codes. Perhaps our busiest week was that of ICU IP, where we turn the former MICU in Quarterback Tower back into an ICU -- and had 7 professions' students work collaboratively to care for 6 patients. Important first conversations ensued!

We've also been continuing our first priority -- training simulation facilitators so that they'll be able to partner with us to meet our mission of expanding simulation throughout the UAB community. Leading this effort for OIPS is **Dawn Taylor Peterson, PhD**. I'm delighted to announce that Dawn is now a full-time faculty member in the School of Medicine's Department of Medical Education embedded full-time in the Office of Interprofessional Simulation. She will serve as our Director of Facilitator Development and Programs. In this capacity, she will serve on our leadership team and focus on facilitator and team development. Please join me in congratulating her on her faculty appointment when you see her next. You can also read about her in her team profile below.

As always, I am interested in your feedback. Feel free to get in touch with me @ [mlwhite@uab.edu](mailto:mlwhite@uab.edu) or to read more about what we are doing on our website, [www.uab.edu/simulation](http://www.uab.edu/simulation).

184. The entire simulation experience and debriefing lasted two hours.

Within the simulated ICU, 6 patients suffered from complex diagnoses needing resuscitation and high levels of intervention by the healthcare team. Two standardized patients and 4 high fidelity simulators were used. A unique aspect to this simulation was the inclusion of the clinical laboratory. Two laboratories were used for this ICU simulation. The ICU setting contained a stat lab where simulated specimens were analyzed and blood products were issued to nursing staff. A large lab where real blood and body fluid specimens were analyzed was housed at the School of Health Professions Clinical Lab Science student lab. The progression of the scenarios was in part dependent on the results the laboratory students produced.

Each profession entered the simulation after receiving their respective checkouts and entered the simulation to care for patients. Strategic scripting of each patient case included intentional interactions between the different professions. After the simulation, debriefings were conducted in three stages. Immediately post simulation, learners received a quick post case debriefing in each individual patient room. A large group debriefing was then held with all disciplines for 45 minutes focusing on communication, teamwork, and resource management. Individual profession debriefs were conducted at the end of the entire experience to discuss any specific profession questions. Learners commented: "The experience was valuable to learn the roles of each profession." "I liked practicing new skills in a high pressure environment." "Teamwork is essential in providing the best patient care."

The ICU IP Simulation Experience is one of the largest events of its kind, and its mission is to emphasize to learners the importance of communication and collaborating together as a team to provide the highest quality patient care.

## Shock Week

April Belle, MSN, RN



Each year, Internal Medicine residents beginning their second year make a transition. These residents are given the great responsibility of carrying the Code Blue pager. Dr. Ryan Kraemer and Dr. Jason Morris partner with the Office of Interprofessional Simulation (OIPS) to provide a preparatory simulation experience. Chad Epps, Associate Director for OIPS, is the liaison for Resident Mock Code Week affectionately known as Shock Week.

During this week, the second year residents participate in interprofessional simulations with hospital staff nurses, respiratory therapists, and pharmacists. These simulations offer an opportunity for healthcare providers to practice patient care in a safe learning environment with an emphasis on working in teams and developing effective communication techniques. We continuously strive to improve patient care delivery. Shock Week is an exemplar example of training in interprofessional teams to provide the very best care.

## PRIME Students Get a Head Start on Patient Simulation

Carmel M. McNicholas-Bevensee, PhD (PRIME Program Director)

Incoming medical and dental students recently completed the Prematriculation in Medical Education (PRIME) summer program. The six-week program is made possible largely due to a grant administered through the

School of Medicine's Office of Diversity and Multicultural Affairs. An important and popular component of the program are multiple simulation sessions. An early introduction to interprofessional interactions in a format similar to that which the students will encounter in simulation during their upcoming modules was aimed at building confidence and enhancing communication between students. All sessions incorporated material presented in their formal lectures, and the learning experience was enhanced by discussion of the physiology and pathophysiology during the debriefing sessions. Sessions were designed by the PRIME Simulation Co-Director Chrystal A. Rutledge, MD. A collaboration between the schools of Medicine and Nursing with assistance from members of OIPS led by T. Jabril Cooper BS, RRT, MAEd provided staffing for the sessions. A combination of manikin centered as standardized patient and family members provided an opportunity to gain experience on obtaining patient history, physical diagnosis, and treatment plans. Mock code sessions reinforced basic life support training provided by the UAB Department of Emergency Medicine. Students also participated in a session providing IV training organized by Bonnie S. Bibb, MSN RN with help from several senior nursing students. Other faculty included Todd A. Peterson, MD, Timothy Holloway, MSN, RN, Penni Watts, PhD, RN.



## OIPS Team Member Highlight - Dawn Taylor Peterson



Dawn Taylor Peterson is the Director, Faculty Development & Training for the Office of Interprofessional Simulation and has four years of experience in simulation and over twenty years of experience in education. Dawn is originally from Birmingham, Alabama and she attended the University of Montevallo for her Bachelor of Science degree in Elementary Education. She continued her education at UAB where she received her Master of Arts degree in Education. She received her Educational Specialist degree at Samford University. Dawn spent ten years teaching in the elementary classroom before earning her PhD in Instructional Design

and Development from the University of South Alabama and transitioning into adult education. Dawn is married to her husband Karl and has two rescue dogs, Simon and Sabrina. Her favorite book is "Gone With the Wind," and her most recently read book was "Thanks for the Feedback." Dawn enjoys running, pilates, traveling and singing classical choral music. She was in the Opera Birmingham Chorus for ten years and the Alabama Symphony Orchestra Chorus for 7 years.

## School of Engineering - Student Project Lab

Jarrod Young, Clinical Simulation Specialist

The Office of Interprofessional Simulation has recently partnered with School of Engineering's newly developed Student Project Lab to give undergraduate students the ability to work on professional

design projects. Keaira Lloyd, Vaishali Nijampatnam, and David Smith are the Biomedical Engineering students that have been observing simulations to help identify projects that would benefit OIPS. These students have been in constant contact with Jarrod Young, a Biomedical Engineering graduate and current OIPS staff member, and Lisa Bagby, OIPS Nurse Educator, to make sure the project is accurate for clinical training. The team's current project is to redesign a Central Venous Line training pad. After getting their design ideas approved by the OIPS staff, the team has begun the initial design testing phase. The first prototype yielded positive results and even spawned new information that will create a better final prototype. We would like to extend a special thanks to the faculty members that have made this partnership possible.



#### Faculty Members:

Timothy Wick- Program Director

Robert Hergenroher- Assistant Program Director

Desland Robinson- Professional Development Director

Stacey Holloway- Design/Art Advisor

Lauren Lake- Design/Art Advisor

## Rapid Cycle Deliberate Practice

Lisa Bagby, MSN, RN



Rapid cycle Deliberate Practice (RCDP) is a technique used to teach algorithm based clinical concepts. It is an effective tool in teaching resuscitation. RCDP is based on research from Johns Hopkins University. OIPS has been employing this teaching technique for resuscitation training for several months. The technique has been well received by learners of multiple disciplines and by students as well as practicing clinicians.

In June, The Office of Interprofessional Simulation offered two sessions of an interprofessional pilot course called "Teaching with Rapid Cycle Deliberate Practice" to help develop facilitators of this technique. The course sought to

describe and define RCDP, identify specific methods for delivery, and allowed the learners opportunity to practice use of the method. The course was well received, and additional offerings are planned. Please contact OIPS at [simulation@uab.edu](mailto:simulation@uab.edu) for further information or to register for a Teaching with RCDP course.

#### What is RCDP?

- \* Through deliberate practice, instructor seeks repeated performance
- \* Directive feedback encourages desired actions and closes performance gap through repetition of ideal actions
- \* Instructor-driven
- \* Useful for learning dynamic team performance
- \* Team paused as mistakes are made
- \* Team paused as praise is warranted
- \* Interspersed feedback (coaching) throughout scenario
- \* Progressive difficulty through rounds of scenario

Hunt EA, Duval-Arnould JM, Nelson-McMillan KL, Bradshaw JH, Diener-West M, Perretta JS, Shilkofski NA. Pediatric resident resuscitation skills improve after "rapid cycle deliberate practice" training. *Resuscitation*. 2014 Jul;85(7):945-51.

# Breakthrough Birmingham Scholars Tour Quarterback Tower Sim Lab

Brian Mezzell

The Office of Interprofessional Simulation recently hosted a group of Breakthrough Birmingham scholars for a tour of the Quarterback Tower simulation lab and a short simulation experience in the lab. Breakthrough Birmingham partners with Birmingham City Schools to provide first hand, professional experiences for motivated low-income middle-school students. The students were given a tour of the simulation lab and a brief overview about simulation at UAB. Students divided into two groups for their simulation experiences. Their simulation experiences mimicked health care scenarios that may occur in the middle-school setting. One group practiced CPR on a Laerdal Resusci Anne® while the other group's experience included diagnosing anaphylaxis and then administering epinephrine. Thanks to Janice Wagnon in the Office of the Provost for coordinating the group's visit to the simulation lab.



## CMS Technical Apprenticeship

Jarrold Young, Clinical Simulation Specialist

In order to continue to provide the best simulation experience possible at The University of Alabama at Birmingham, the Office of Interprofessional Simulation recently sent Jarrold Young, one of our Clinical Simulation Specialists, to Boston for a week long training. Jarrold attended the Center for Medical Simulation to complete a Technical Apprenticeship in Medical Simulation. The Center for Medical Simulation has been a leader in the field of medical simulation for years. During this week-long apprenticeship, Jarrold was able to gather knowledge from the educational principles taught at the CMS Instructor Course, as well as the simulation operations information. The simulation operations training cover different topics, such as: event preparation, technical skills, leadership skills, moulage, and modeling clinical knowledge. The combination of didactic and hands-on learning gave Jarrold many new ideas and technical skills to bring back to UAB to implement to future simulations.

### Upcoming Events

August 3, 2015

[Sim 1](#)

August 4, 2015

[Sim 2](#)

August 11-14, 2015

[IMS at UAB](#)

August 20, 2015

[CRRT Academy](#)

August 21, 2015

[Critical Care Orientation](#)

August 21, 2015

[SimConnect Journal Club](#)

### [View the Latest Simulation Journal Articles](#)

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



Top Row (left to right): Jarrod Young (Clinical Simulation Specialist), Kelly Markham (Administrative Associate), Betty Farley (Program Director III), Lisa Bagby (Advanced Nursing Coordinator), Brian Mezzell (Program Administrator II), April Belle (Advanced Nursing Coordinator), Marjorie Lee White (Director), Wayne Skipper (Clinical Simulation Specialist)

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

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

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