



UC Simulation

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Issue 5

Director

Cameron Ricks, MD

Medical Education Simulation Center



Happy New Year to everyone! As we start this New Year off the Medical Education Simulation Center is busier than ever.

Last November, I was asked to be a part of the UCIMC Ebola interdisciplinary simulation. This training brought several groups, from around the hospital, to test the facilities Ebola isolation protocols during a code scenario. Physicians, nurses, respiratory therapy all practiced the protocols to don and doff personal protective equipment (PPE) and how to function in patient care with PPE. The simulation sessions were followed up with debriefings which yielded several potential system-based improvements.



Dr. Ricks in PPE.



The Medical Education Simulation Center once again represented University of California Irvine and the School of Medicine at the International Meeting for Simulation in Healthcare (IMSH). The conference enables the staff to attend a number of continuing educational sessions that are directly applicable to work and allows opportunities to network with a variety of simulations experts and colleagues from around the world.

As the New Year begins, so does the plans for the new upcoming MS 1 class begins. This year the SOM is conducting curriculum reform, so as of yet, we do not have specifics to what impact it will have on the ongoing and future operations. We will also be begin drafting the budget for the 2015-2016 and look to submit that in March.



The Simulation Center has recently added a SharePoint page to keep faculty and staff informed of news and events that affects the simulation center. This will also be a repository of simulation articles and other things related.



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UC Irvine Medical Education Simulation Center

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We want to include information and stories from around UCI Health, so please forward your news so we can include it in the next edition of the newsletter. Our new UC Simulation committee meeting will be on 22 January, 1 PM @ the Grunigan Library. Last meeting minutes can be found [here](#). Hope to see you there.

I hope everybody has a great end of winter and into spring.

Cameron Ricks, MD
Director, Medical Education Simulation Center

UCI Medical Center, Building 50, Simulation Based Team Training (SBTT)

Listed are the upcoming inter-professional code training dates presented by the Medical Education Simulation Center.

January 20, 1pm-3:30pm

Additional Dates: **March 24, April 20, 28 May, 16 June**

Simulation-Based Team Training at UCIMC Academic Year to Date

Total Sessions: 4

Total learners Jul – present: 24

Total hours/learner: 72

Total Sessions since Inception: 13

Total Learners since Inception: 86

Total hours/learner since Inception: 258

Director of Operations—

Keith A. Beaulieu,
Medical Education
Simulation Center



Happy New Year everyone. I hope that everyone got a little bit of down time over the holidays to spend some times with family and friends and stayed warm doing so...the southern California winter can be brutal. :-)

Operationally we are entering a busy time and coming up on several time sensitive events that need to take place, in addition to support on-going operations of the medical school.

Budget and Planning

Over the next month or two, Dr. Ricks and I will be going over the operational requirements for the upcoming academic year to submit our operational budget to Medical Education. Financial reform took place all throughout this current academic year, so going forward the financial models should stabilize a bit depend



on a number of factors that we are still awaiting guidance from Medical Education.

As far as manning goes, toward the beginning of this academic year we had three (3) simulation specialists, and Ryan left us for family reasons. We currently operate with two (2) simulation specialists and (1) administrative assistant. Unless requirements change dramatically from the medical school, I expect this current staffing to remain static for the next academic year.

From the planning perspective, we are not projecting to add additional simulation sessions this next academic year; however, with the curriculum reform, we may have to re-tool some of the existing curriculum to tie it into the students' curriculum; this is still very fluid at this point. This current academic year we instituted the Inter-professional Team Critical Incident Training that couples medical students and nursing students to learn how to work together in critical incidents. We will continue to refine this course for the upcoming year to keep the sessions interactive.

Over the last several years, talk among simulation circles has been increasing on the topic of medical student skill competency. In May of 2014, the Association of American Medical Colleges (AAMC) published a report outlining core entrustable activities that medical students should be able to perform on first day of residency. The report can be found [here](#). As the School of Medicine enhances their curriculum, there may be opportunity for skill competency to be integrated into the clinical foundations courses.



Storage space is at a premium. As some of you may know, the Medical Education Simulation Center was built without adequate storage space. From the opening (2010) to present, we have relied on the empty space on

the 4th floor as makeshift storage. I am told that early spring we will be required to vacate the 4th floor as work begins on Dr. Fox's Ultrasound remodel. In December, my staff and I downsized and cleaned up the storage area in preparation for relocation. So if you see more supply items in and around the simulation center, that may be why, and ultimately we are going to have to adopt a just in time (JIT) approach to supply items for simulation session with priority emphasis on medical student sessions.

Audio/Visual

Since the last upgrade (July 2014) the status of the audio and visual has come leaps and bounds from the state it was in. There are still a few glitches that we have to work around and can only be done via programming. I am expecting that we will have the programmer out in June sometime to fix the minor glitches.

Scheduling

We remain in a holding pattern until Medical Education releases the new curriculum to determine the impact of the curriculum on the schedule after 1 July. **Currently, we are not scheduling any sessions beyond 1 July.** Our administrative assistant, Catarina, will notify all residencies and external agencies of schedule availability when it is released and we have slotted all medical student sessions.

Curriculum



After the new medical school curriculum, the Medical Education Simulation Center will perform its own curriculum reform to ensure that the sessions match up with the medical school. All session objectives and resources will still be available in Ilios for the students.

Current versions of general scenario template and companion guide are located in our [SharePoint](#) page.

The Simulation Center is working to create curriculum specific to the need of the School of Medicine. The simulation center has also created an operational database to be able to track student competency, as well as provide a platform for operational activities of the center.

The data base is finishing up the developmental phase and will be soon moving to functional testing.

NCSBN National Simulation Study

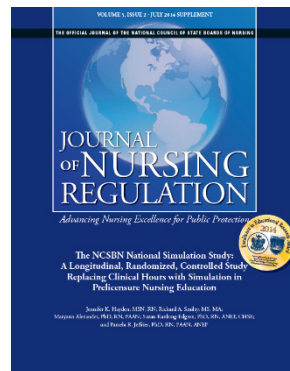
Simulation Instructor Training Course (SITC)

The next scheduled instructor course is
June 29-30, 2015

Contact the program office, 949-824-8835 or sign up through the simulation center website, www.medsim.uci.edu.

Hurry, the course fills up fast and may be the only one for this year....don't miss out!

In July the National Council of State Boards of Nursing released their National Simulation Study. This two year study looked at clinical experiences versus clinical simulation. The results of the study provided substantial evidence that **substituting up to fifty percent (50%) of traditional clinical hours produces comparable end-of-program educational outcomes.**



Click on the picture to go to PDF

Simulation Fellow Update

Dr. Anne Beissel, a visiting simulation fellow from Lyon, France, has submitted an IRB for simulation research that focuses on the comparative nature of faculty versus residents in teaching skills and skill acquisition. If approved, the study will be conducted from Feb-Jun 2015. Dr. Beissel has also created several scenarios for the Interprofessional Team Critical Incident (ITCI) sessions.

UC Simulation Committee

Next Meeting: 22 January 1 p.m.

Location: Grunigan Medical Library
Conference Room, 1st Floor

Come and discuss current simulation topics and medical education happenings at UC Irvine

We do offer the following courses:

- Basic Life Support (HeartCode BLS)
- Advanced Cardiac Life Support (HeartCode ACLS)
- Pediatric Life Support (HeartCode PALS)
- Curriculum Development Course
- Simulation Operations, Planning, and Management (SOPM) Course
- Simulation Programming Course
- Maintenance of Certification in Anesthesia (MOCA)
- Simulation Instructor Training course

Emergency Medicine Fellow

Dr. Julie Sayegh's fellowship work has been focusing on Tele-simulation and EMS pre-hospital/resident curriculum. She also has an IRB in development to potential Ebola training during medical student years.

UCI Medical Education Simulation Center and School of Medicine supported the California Student Symposium for Emergency Medicine put on by the Emergency Medicine Interest Group (EMIG)

November 2014

The Medical Education Simulation Center supported the California Student Symposium this year by providing task trainers for use during the symposium and opened its doors for Emergency Medicine Fellow, Dr. Julie Sayegh to facilitate high-fidelity simulation using our simulation center. Over 150 medical students from around California attended.

California Student Symposium for Emergency Medicine
Tatiana Ramage, MSW VP Symposium 2014-2015
Emerson Poyadis, MSW UC Irvine Health School of Medicine

UCIEM+G

Nearly 150 attendees at the Western Regional Emergency Medicine Student Symposium (WREMS) this year explored emergency medicine (EM) topics such as FAST cases and acute asthma exacerbation, participated in mock interviews with California residency program directors, and learned "from the horse's mouth," so to speak, what qualities it takes to succeed in EM.

Beginning in 2006, this annual student symposium has been co-hosted by UC Irvine and University of Southern California. This year UC Irvine returned to organizing and hosting the event. One of the original cotranslators of the symposium was its attendance, Dr. Warren Wechsman, currently Assistant Clinical Professor of EM at UC Irvine and the Associate Dean of Instructional Technology. It was no surprise that the day was bursting with technology. Paper programs were replaced by a smartphone app, in addition to iPad interviews "booths" and "Selfie" stations that dotted the outdoor patio. Google Gtats was raffled off to these lucky attendees for the day, and the program panel incorporated a live Twitter feed for real-time questions and comments.

The morning commenced with an exceptional group of speakers that included Dr. Chakravarthy, UC Irvine Residency Program Director, who gave the crowd-pleasing talk titled "A day in the life of an EM doctor: What Medical Schools don't tell you!" Each speaker provided their own perspective on the good, the bad, and the ugly of EM and spotlighted what traits are crucial for success in the field.

Other highlights of this year's symposium include the utilization of UC Irvine's state-of-the-art simulation center to run two EM simulations, coordinated by UC Irvine Simulation Fellow Dr. Julie Sayegh. Another new feature this year was a mock interview and speed-mentoring workshop which proved to be a favorite amongst third and fourth year medical students. Students were able to have two hours of face-time with program directors for practice questions and feedback in an informal and relaxed setting.

This conference is designed for everyone, from undecided first year medical students to fourth year medical students preparing for their EM interviews. By providing two tracks, one for the pre-clinical students and one for the clinical students, we were able to tailor educational workshops toward what was most relevant to their particular interests. In addition to the educational workshops, the symposium was a great social event for networking with EM physicians and medical students. This year there were twelve residency programs that sent representatives for the residency fair and students traveled from eleven different medical schools to be there.

Responses to the post-event survey indicated that the majority of attendees rated the symposium 5 out of 5 and 100% of the attendees rated the symposium at least 4 out of 5 (with 1 being poor, 3 being good, and 5 being excellent). One attendee commented, "wonderful speakers and residents who were willing to help our students" which highlights the real strength of the conference. The strength of the WREMS is that it brings together a large number of EM physicians (at this event there were over 30) who travel to talk to medical students, teach, answer questions, and provide resources to help these EM-interested students with their bidding careers.



Figure 1. Dr. Erik Burton, Department Chair of Emergency Medicine at UC Irvine, at the head interview station.

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[Click document for PDF](#)

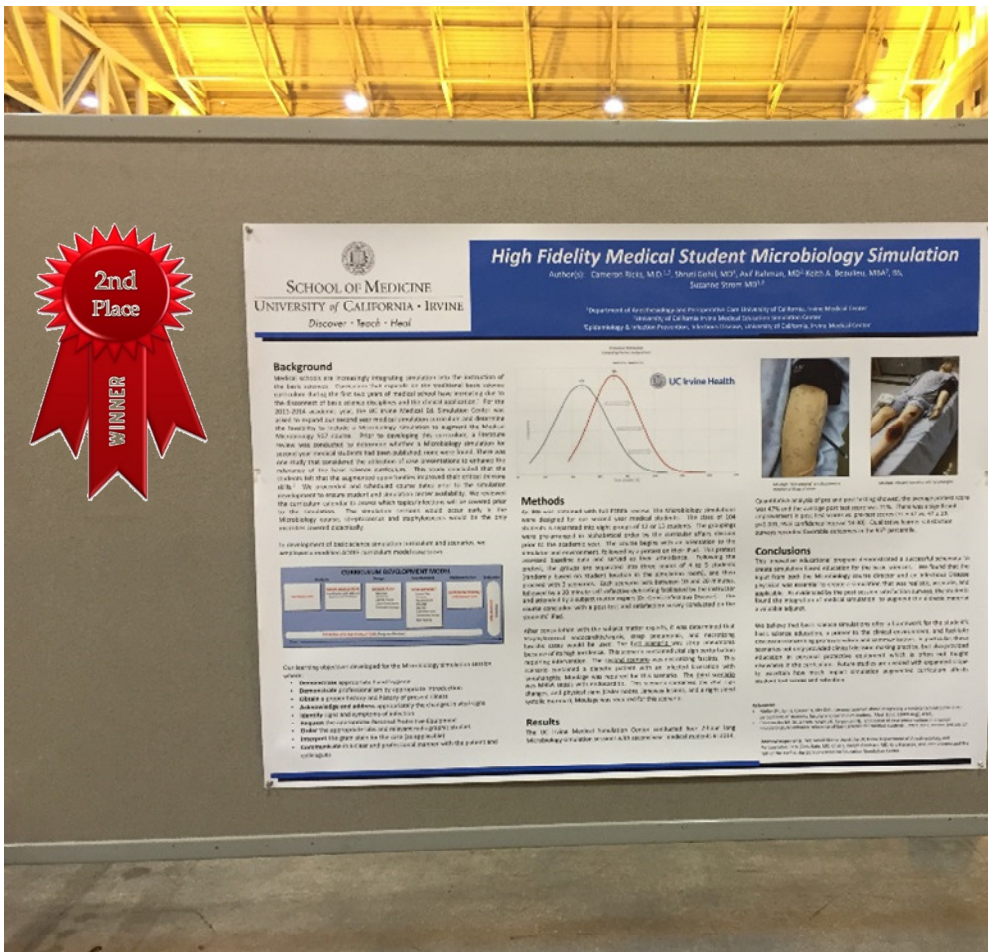


A picture from a recent Interprofessional Team Critical Incident (ITCI) Training. In its pilot year the ITCI course has received very positive comments from both medical students and nursing students.

IMSH 2015

UC Irvine was represented by a total of nine(9) staff/faculty. We had representatives from not only the Medical Education Simulation Center, but also from the Department of Anesthesiology and Perioperative Care and Emergency Medicine. We were also able to bring both Simulation Fellows, Dr. Julie Sayegh and Dr. Anne Beissel.

In a few weeks, we will be looking at how we can contribute to next years' IMSH, 2016 in San Diego, CA.



High Fidelity Medical Student Microbiology Simulation
 Authors: Cameron Ricks, MD; Shruti Gohil, MD; Asif Rahman, MD; Keith A. Beaulieu, MBA, BS, BA; Suzanne Strom, MD

Background
 Medical schools are increasingly integrating simulation into the curriculum of one's basic sciences. However, most medical schools have not integrated simulation during the first two years of medical school. We are excited to be a part of the 2015 IMSH Simulation Center, which is the first of its kind. The 2015 IMSH Simulation Center was created to provide our medical students with a high-fidelity simulation experience that is focused on the study of microbiology. The purpose of this poster is to describe the development of a high-fidelity simulation experience for microbiology students. We created the simulation experience to provide a high-fidelity simulation experience for microbiology students. The simulation experience was designed to provide a high-fidelity simulation experience for microbiology students. The simulation experience was designed to provide a high-fidelity simulation experience for microbiology students.

Methods
 An initial survey of 100 medical students was conducted to determine their interest in a high-fidelity simulation experience. The survey results showed that 75% of the students were interested in a high-fidelity simulation experience. The simulation experience was designed to provide a high-fidelity simulation experience for microbiology students. The simulation experience was designed to provide a high-fidelity simulation experience for microbiology students.

Conclusions
 The simulation experience was well-received by the students. The simulation experience was well-received by the students. The simulation experience was well-received by the students. The simulation experience was well-received by the students.

References
 1. [Reference 1]
 2. [Reference 2]

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Presentation Abstract that was presented at the 15th Annual International Meeting for Simulation in Healthcare

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