UCI Simulation

Winter/Spring 2017

Issue 9



Director

IRVINE

It has been a busy year thus far and since the New Year, we are guickly coming to an end to the medical student curriculum for this academic year.

This year we have had to both create simulation scenarios and modify current scenarios to adjust to the new Clinical Skills Immersion model. In addition to that work, the school also increased medical simulation sessions by eight (8) additional sessions, and we have added an orientation session

Cameron Ricks, MD

taught by our simulation specialists.

I would like to welcome our new simulation specialist, Ryan Gouras!

Our Simulation Fellows are/were instrumental in writing scenarios and being able to provide the instruction to our medical students.

We are actively recruiting instructors to facilitate our medical students. Most sessions are Tuesday and Thursday afternoon, and we ask a 4-hour commitment. If you would like to teach basic science instruction via medical simulation for MS 1 and MS 2 students, please contact me.

We continue to service the residency and nursing programs as scheduling allows.

We will be installing a badging system, similar to the hospital, for medical student sign-in. We will also be moving our surveys to Qualtrics as part of center quality improvement process.

As we come into the home stretch of the academic year, we are looking ahead to the upcoming budget process, and new adventures for the next academic year.

Cameron Ricks, MD **Director, Medical Education Simulation**

Code Training (Simulation Based Team Training) April 17 1p-330p May 30 1p-330p June 20 1p-330p Location: UCI Medical Center, Building 50 Sign up today!

Closures

March 31 Sim Center Closed

April None

May 29 Memorial Day

June None

Simulation Instructor **Training Course**

March 27-28

Call us today to reserve your spot!



Facebook





Simulation Education Network

Mobile Simulation

As many of you are aware, UCI has a mobile simulation platform that has been on campus (parked by the helipad) since July 2016. This vehicle is currently owned by Quality and Safety through the Chief Medical Officer. A simulation coordinator was hired in September 2016; however, the position has been vacant since December



2016. Current discussions on the future direction of this project are underway. Inquiries of use and tour should be directed through the Quality and Safety Office.







Do you want to teach medical students?

We are recruiting a cadre of faculty to help instruct some of the basic science simulation sessions next year.

Possible topics include:

- Cardiovascular Physiology,
- Neuroscience,
- Microbiology, and
- Biochemistry

Instructing at the undergraduate level looks great if you are seeking advancement within the UC system.

Minimum commitment time is 4-hours

Contact our office for details 949.824.8835

Or contact Dr. Ricks directly

Inter-professional Simulation-based Team Training (Code Training)

UCI Medical Center, Building 50

Upcoming inter-professional code training dates presented by the Medical Education Simulation Center.

http://sites.uci.edu/hare/

Sign up!

Simulation-Based Team Training at UCIMC Academic Year to Date

Total Sessions: 4 Total learner hours: 107.5 Total learners Jul – present: 43

Total Sessions since Inception: 26 **Total learner since Inception:** 168 August session – cancelled due to learner no show

UC Simulation Consortium

Meetings

On October 28th, Dr. Ricks and Keith Beaulieu attended the 3rd Annual Fall UC Simulation Consortium Meeting. Medical directors and operational directors from UC San Francisco, Davis, LA, San Diego, and Riverside came together to discuss UC simulation in a one-day summit.

This year's meeting was held at UC Davis, and included discussion on operations, research collaboration, simulation fellowship, and amendments of the vision, mission, and bylaws.

On April 24th the Consortium will get together for the Spring Teleconference.

Upcoming Dates

March

- 20 MOCA
- 27 Sim Instructor Course

April

- 6-7 Clinical Foundations 4 simulation
- 10-14 Clinical Foundations 4 ACLS
- 17 SBTT-Code Training (Bldg. 50)
- 24-25 ATLS
- May
 - 15-19 Clinical Foundations 3
 - 22 MOCA
 - 30 SBTT Code Training (Bldg. 50)

June

- 12-13 ATLS
 - 20 SBTT-Code Training (Bldg. 50)

Simulation around UC Irvine

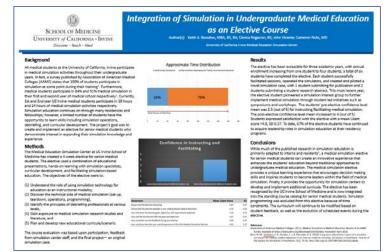
Medical Education Simulation Center

Manuscript published

Anne Beissel, Christian Bauer, Marc Lilot, Keith Beaulieu, Baptiste Balanc, Thomas Rimmele', Cameron Ricks. **A Trans-Atlantic High-Fidelity Mannequin Based Telesimulation Experience.** Anaesthesia Critical Care and Pain Medicine [Ahead of Print]. http://www.sciencedirect.com/science/article/ pii/S2352556816301680

<u>Abstract</u>

Beaulieu, Keith; Rogacion, Danica; Vicente, John; Ricks, Cameron. Integration of Simulation in Undergraduate Medical Education as an Elective Course. Presented at IMSH 2017. Published in Simulation in Healthcare: The Journal of the Society for Simulation in Healthcare, December 2016 (11:6), Pg. 452.



Abstract presented at IMSH 2017

Emergency Medicine Simulation

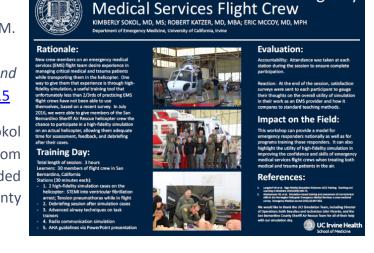
Manuscript published

McCoy, C. E., Sayegh, J., Alrabah, R., & Yarris, L. M. (2017). **Telesimulation: An Innovative Tool for Health Professions Education**. *AEM Education and Training*, 1–5. http://doi.org/10.1002/aet2.10015

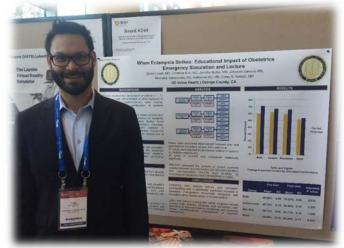
Back in July 2016, Dr.'s McCoy, Katzer, and Sokol along with John Vicente and Keith Beaulieu, from the Medical Education Simulation Center, provided an all-day training event for San Bernardino County Sheriff's Office Helicopter teams.

Perioperative Simulation Center

We have a new simulation coordinator that will be replacing Sara, Rhonda Chu. We had a research abstract and technical abstract accepted to IMSH, "When Eclampsia Strikes: Educational Impact of Obstetrics Emergency Simulation and Lecture" and "The Use of Ad-Hoc Networks for In-Situ Simulations." Finally, we are continuing to provide monthly multidisciplinary trainings through our OB In Situ Simulation Program, and have anecdotally gotten very positive feedback on the utility of the simulations, system-based near miss catches, and reinforcement of TeamSTEPPS and communications tools.



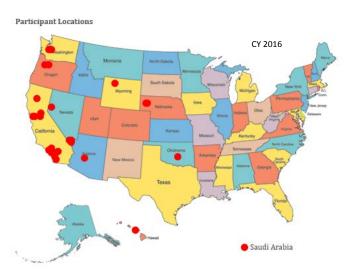
Helicopter Simulation for Emergency



Dr. Nelson at IMSH 2017

Maintenance of Certification in Anesthesia (MOCA)

The Medical Education Simulation Center completer another successful year of MOCA courses. Our participants came from several different locations (see right). MOCA Simulation Course is one of the options anesthesia providers have in order to re-certify with the American Board of Anesthesiology (ABA). The course is facilitated by board-certified Anesthesiologists from the Department of Anesthesiology and Perioperative Care and operated from of the Medical Education Simulation Center as a service. In CY 2016, we facilitated the training of 40 Anesthesiologists over 6 separate course dates. The



American Society of Anesthesiologists (ASA) provides aggregated survey results to endorsed programs each year. Here are some of the selected survey results (right).

	Survey Results out of 5.00
Average of I had sufficient opportunity to actively participate in the scenarios.	4.98
Average of I had an opportunity to reflect on my performance.	4.92
Average of I have a better understanding of the subject matter.	4.92
Average of What I learned will change my practice.	4.83
Average of This was an effective use of my time.	4.81
Average of Overall, this was a positive learning experience.	4.90
Average of I would recommend this course to my colleagues.	4.88

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Simulation Fellowship around UC Irvine

Medical Education Simulation Center

For the 2016-2017 year, the Medical Education Simulation Center has had the privilege of having Dr. Rheem Almhizai as a simulation fellow from the Saudi Arabian Cultural Mission (SACM). Dr. Almhizai is a Saudi Arabian Board Certified Pediatrician and Assistant



Professor of Pediatrics at AL-IMANM University. Throughout this year Dr. Almhizai has been instrumental in creating many of the new scenarios that were added to the curriculum, and thus far has taught over 40 hours of medical simulation to medical students including 16 hours of residency skills to UCI's first year residents during the annual resident skills day.

Dr. Almhizai's interests include clinical teaching and medical education through the application of simulation.



Dr. Sokol observing an EM simulation session

Emergency Medicine Simulation

Dr. Kimberly Sokol is in the middle of her first year of a 2 year simulation fellowship with the Department of Emergency Medicine.

Dr. Sokol has been active in creating new medical student scenarios and has over 30 hours of medical student instruction this year, on top of her clinical requirements. Dr. Sokol has also taught simulation-based code training at UCI Medical Center and is an instructor for the Simulation Instructor Course.

Dr. Sokol is also active in the Simulation Interest Group and research for the Department of Emergency Medicine.

Sue & Bill Gross School of Nursing

The UCI Nursing Program is now UCI Sue and Bill Gross School of Nursing

Building on the highly ranked nursing program established at UCI a decade ago, the new Sue & Bill Gross Nursing School was created by the University of California Board of Regents on January 26, 2017. The School will grow rapidly to address a nationally identified need for 1.2 million new



nurses in the next five years. The nursing school also welcomed its Founding Dean, Adey Nyamathi PhD, ANP, FAAN on January 1. Thanks to a \$40 million gift from the William & Sue Gross Family Foundation, the School of Nursing will embark on construction of a state-of-the-art building that includes increased classroom and research space.



The School of Nursing is looking to fill a newly created position for a full-time Skills Center Specialist (Req. number 2017-0247).

Juality Initiatives

Medical Education Simulation Center



This next academic year, the Medical Education Simulation Center will be enacting some quality initiatives to better align ourselves with best practices, improve efficiency, and provide better overall service to our stakeholders. Many of these initiatives will be background work you may not see. A few of the new quality initiatives that you may see include: discontinuation of paper signin, the use of badging in for attendance, use of Qualtrics[®] for postsimulation surveys, and provide more feedback from the program office to simulation instructors. We've invested in a few iPads for the smaller groups to accomplish attendance and surveys.

Simulation Interest Group (SIMIG)

President - Daniel Meller
VP Research - Luke Walls-Smith
Research Committee - Christina Kong, Katherine Moran
VP Education - Divya Ramakrishnan
Operations - Diane Shin

Simulation Interest Group is made up of medical students interested in medical education and medical simulation. Activities include Simtoberfest and collaboration with Ultrasound Interest group for Ultrafest 2017 and Neuro Interest Group for Brain Day 2017.











Keith A. Beaulieu Director of Operations Medical Education Simulation Center

Staffing

As many of you are aware one of our simulation specialists resigned last October. It took a bit, but we have hired Ryan Gouras as a simulation specialist. He started in January and has quickly learned the position. Welcome Ryan!

Budget and Planning

It is that time of year again that each of the departments submit their budget for the upcoming academic year. The Medical Education Simulation Center has met with finance and sent a draft budget to Medical Education. The proposed budget will look similar to last year's approved budget. Going forward, the simulation center is committed to providing high quality education through medical simulation. We continue to increase our integration within the school curriculum, and continue to push to have a presence in the simulation community.

The newly termed "School of Nursing" is asking for increased collaboration in the next upcoming year so they can increase the simulation integrated into their curriculum. Discussions are currently underway at the Dean's level.

Scheduling

We can begin to take requests for clerkship and resident simulation scheduling through our

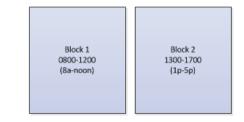
website; however, we cannot confirm nor slot those requests until the MS 1 & 2 simulation curriculum is firmly on the schedule.

We will be sitting down, in the near future, with Dr. Suchard, Clinical Skills, Ultrasound, and the CF coordinators to begin the schedule building process for the next academic year.

All requests for scheduling can be submitted via the <u>www.medsim.uci.edu</u> website. If you have any questions regarding scheduling, please contact us at 949-824-8835.

Important Change this year

All scheduled sessions starting after August 1 will fall into "time blocks." This means, based on request, your scheduled simulation session will fall into 0800-noon block or 1pm-5pm block. If you request an all-day slot, your session will still be within these block times with a lunch break during 1200-1300. This doesn't affect most of your programs, but a few programs may have to start a little later.



This is being operationalized in effort to keep overtime costs and time down and give my staff time for lunch (as required by union rules) and time for setup/cleanup.

Curriculum

This year we've had to redo the entire simulation curriculum to align to the Clinical Skills Immersion model. Canvas and Ilios are being used for medical student curriculum. Once the MS 1 & 2 simuation sessions are scheduled, all of the simulation documents and resources, specific to courses will be added to the simulation sessions.

The simulation center staff are going through the current curriculum and scenarios to provide quality assurance to the accuracy of the scenario as well as the appropriateness of treatment. We are also reviewing the learning objectives to ensure that the learning objectives for the simulation sessions match/align with the course that the sessions fall into.

Curriculum resources as well as medical education and simulation resources can be found at http://sites.uci.edu/medsim.

Student Sign in, Disclosure, and Surveys

As part of the simulation center's quality improvement processes, starting with this upcoming academic year the simulation center will be transitioning from the paper student signin and disclosure forms to electronic medium.

Student sign in

Will be accomplished with badge swipe at the beginning of the session. The data will be sent to the clinical foundation coordinators for attendance purposes.

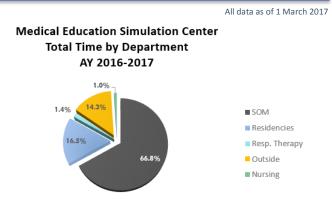
Confidentiality and Disclosure

All MS 1 students will be required to fill out a confidentiality and disclosure form via Qualtrics at Simulation Orientation. This will be applicable for all 4 years of medical school

Surveys

Campus EEE is being phased out. The simulation center uses EEE for all post-simulation surveys. Because of this, the simulation center will be transitioning all surveys to Qualtrics for the new and subsequent academic years.

Medical Education Simulation Center Current Operational Metrics



Month	% Hours Actual Sim Operation	% Hours Prep	% Hours Admin	
July	69%		18%	
August	37%	16%	48%	
September	58%	16%	25%	
October	61%	16%	23%	
November	58%	19%	23%	
December	58%	16%	26%	
January	56%	15%	29%	
February	56%	17%	28%	
March				
April				
May				
June				

Utilization by

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Month		
Month	Center	Staffing
July	73%	106%
August	31%	85%
September	82%	140%
October	86%	140%
November	85%	145%
December	78%	134%
January	60%	107%
February	58%	103%
March	0%	0%
April	0%	0%
May	0%	0%
June	0%	0%
Overall Avg	69%	120%

*Nationwide simulation center average utilization is 60%

Medical Education Simulation Center Mission

To provide state-of-the-art health care education and research using medical simulation technology to promote superior clinical care and patient safety by delivering quality immersive education to healthcare professionals and the community.



Mission

Discover • Teach • Heal



If your organization has a simulation related story you wish to share in this newsletter, please contact Keith Beaulieu, kbeaulie@uci.edu.



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