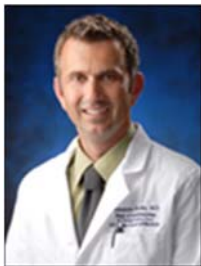




# UCI Simulation

Fall/Winter 2019

Issue 14



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

Another year of simulation operations has been closed out and we have started another great year at the Medical Education Simulation Center.

Last year, the simulation center accomplished 1,783 hours of direct simulation activities and 22,459 total participant hours. We had over 700 different scheduled events, including certifying 385 individuals in AHA Basic Life Support and Advanced Cardiac Life Support, and had 7,206 participants this year.

Our simulation center average utilization was 50% and staff utilization was 88%. These numbers were a little down from last year because we were forced to cancel a couple MOCA courses and had higher than normal session cancellation rates.

The center provided two separate abstracts for the American Society of Anesthesiologist conferences: *Ventriculostomy Management Training: Computer Based Training vs Simulation Training* and *Asynchronous Learning/Simulation Assessment and Procedural Confidence*.

Our center's Director of Operations, Keith, was awarded the SSH Presidential Award for work he has done on behalf of the SSH Accreditation Council.

As we continued to provide medical simulation activities for undergraduate medical students, we were excited to see that the School of Nursing their total simulation education hours nearly doubled. We also saw an increase in utilization from both the Anesthesia and Emergency Medicine departments; and we added Neurology skills training for residents.

Finally, our work with the UC Simulation Consortium netted a funded quality improvement project, centered on sepsis, across five different UC campuses. While we won't be actively involved in the project here at UC Irvine because it requires simulation at UCIMC, we are maintaining visibility on the project with Internal Medicine, and continue to represent UC Irvine at the consortium.

## Upcoming Closures

### November

11 Veterans Day

28 – 29 Thanksgiving

### December

24-31 Holiday Break

### January

1 New Year's Day

20 MLK day

### February

17 President's Day



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# UC Simulation Consortium

The University of California Simulation Consortium met in San Francisco in September. This annual event was hosted by UC San Francisco and included representatives from all of the University of California institutions that have active medical simulation or standardized patient programs.

In addition to individual program updates, there was a presentation from Dr. Ryan Brydges (university of Toronto) on “Inside the Black Box – Refining How We Address Educational & Clinical Issues.”

Most of the discussion for this year’s meeting was centered on the Sepsis Project that the consortium has been planning and piloting.

UC Irvine is scheduled to host next year’s event.



## Operations Tip

### Orientation at the start of a simulation session

A best practice in simulation education is to orient the learners or students to the simulation environment before each iteration of a simulation course or session.

It refreshes the learners on how the simulator will sound (heart and lung sounds), where to locate pulses and equipment and supplies. It also provides time for the instructor or simulation specialist to relay pertinent information concerning the case, and for the learners to ask questions.

Most importantly, it provides the simulation staff the opportunity to go over any safety issues (i.e – live defibrillators) with the learners to ensure they have a fun, safe session.



**Dr. Ricks welcoming brand new medical students during their 1<sup>st</sup> week orientation**

**A medical student teaching ventilations to a high school student during a summer camp visit**





**Keith A. Beaulieu**  
*Director of Operations*  
*Medical Education Simulation Center*

**Budget and Planning**

The budget has been approved as is.

We have been asked to cut back on the overtime that we are accruing during operations; therefore, after hours and weekend events may not be available in the future. This will be on a case-by-case basis with SOM directed activities taking priority.

**Operations**

Data to the right is pulled from our Annual Report to the Dean. The full report can be accessed [here](#).

**Capital Purchases**

No capital purchases are planned this year.

**Scheduling**

All departments who have requested simulation time have been scheduled.

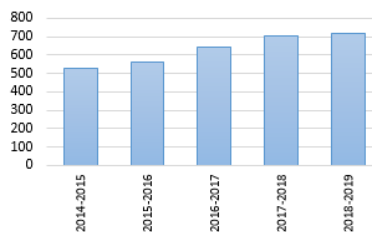
All requests for the 2020-2021 academic year can be submitted after the 1<sup>st</sup> of the year; however, we will not be able to confirm your requests until SOM releases the student clinical foundation schedules (May-June).

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

**Medical Student Core Instructors (2018-2019)**

- 58.8 %** supplied from the Dean's Scholars
- 16.3 %** supplied by Dr. Ricks as Medical Director of the Simulation Center.
- 13.8 %** supplied by volunteers from around the School of Medicine and/or Medical Education
- 12.5 %** supplied from the Department of Emergency Medicine Simulation Fellow
- 5.0 %** supplied from Simulation Staff (Simulation Specialists and/or Director of Operations)

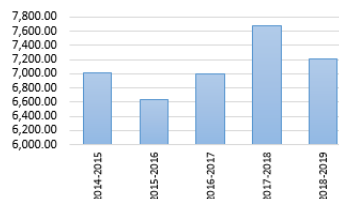
Simulation Sessions Per Year



**720**

**Sessions**

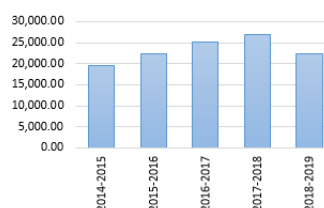
Total Learners Per Year



**7,206**

**Participants**

Total Learner Hours Per Year



**22,459**

**Learner Hours**

# Simulation Staff Retreat

The Simulation Staff had the rare opportunity to take a tour of the NASA Jet Propulsion Lab (JPL) in Pasadena. The staff saw different labs and other types of simulation that occurs at the facility. They also had the rare opportunity to see the Mars 2020 rover in the assembly process for its upcoming mission.

In addition to the tour in the afternoon, the day focused on personal wellness and teamwork.



# Simulation Fellowship around UC Irvine

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## *Medical Education Simulation Center*

Dr. Al-Khofi completed his 1-year Medical Simulation Education Fellowship. Dr. Al-Khofi spent the year writing scenarios, teaching medical simulation, and gained some exposure in simulation operations. He also got a chance to spend some time over at Children's Hospital of Orange County (CHOC).

Dr. Al-Khofi has returned to Saudi Arabia to impart his knowledge and experience of medical simulation to his students and colleagues.



# Simulation Faculty Development

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## *Faculty Development Video Series*

The Medical Education Simulation Center has created a Faculty Development Video series.

<http://sites.uci.edu/medsim/education/faculty-development/>

After completion of the video series, please contact Keith Beaulieu, [kbeaulie@uci.edu](mailto:kbeaulie@uci.edu) and he will email you a completion certificate for your records.

## *Medical Education Simulation Center Resource Website*

The Medical Education Simulation Center has a resource website, in addition to the main website.

This website has curriculum resources, past newsletters, past annual reports, policies and procedures, and educational materials.

<http://sites.uci.edu/medsim/>

## *New Simulation Operations Specialist*

The School of Nursing is excited to introduce their new Simulation Operations Specialist, Christian Cannady!

Christian comes direct from UCLA with over 12 years of simulation experience. He helped to build UCLA's nursing simulation program from the ground up and served as a research assistant to Dr. Mary Ann Shinnick. He was a Corpsman in the Navy Fleet Marine Force for 7 years and was deployed in Iraq from 2005-2006. He has been in the medical field for more than 20 years and specializes in combat trauma and prehospital medicine. His hobbies include coin & stamp collecting, as well as deep sea fishing.

In just the short time Christian has been here, he has made our nursing hospital bed unit fully operational! It is now being used by our students to learn and practice physical assessment skills, including normal and abnormal heart and lung sounds and recognition of vital sign abnormalities in the context of patient care scenarios.

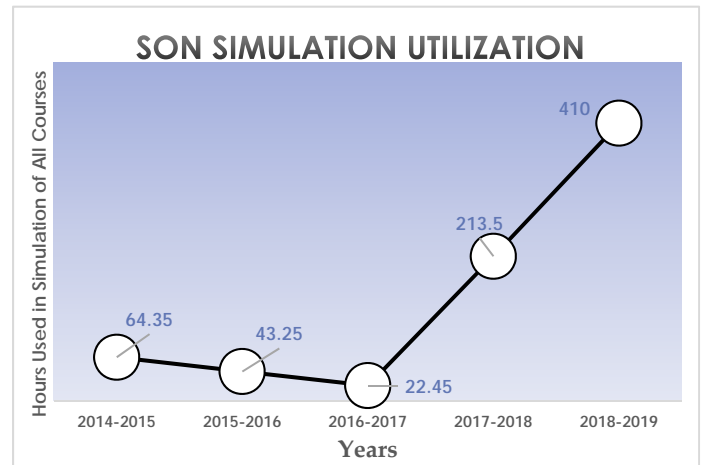


## High Fidelity Simulation Activities Nearly Double

UCI Sue & Bill Gross School of Nursing has been hard at work to thread simulation throughout their pre-licensure curriculum. From the 2017-2018 academic school year to 2018-2019, simulation hours at the Medical Education Simulation Center increased from 213.52 hours to 410 hours!

This does not account for all the simulated activities that occur in the Nursing Skills Lab weekly as the students learn and master physical assessment skills and nursing procedures. Professor Sarah Campbell also incorporated simulation into her Geriatrics course,

demonstrating the challenges and common safety issues elderly patients' face and equipping the students with the skills to navigate these challenges with their patients. As part of the expanded Simulation Center utilization,



the School of Nursing introduced high fidelity simulation into their Medical Surgical course with a scenario involving post-operative venous thromboembolism and atrial fibrillation management. Another new addition has been the induction of simulation into the nursing students' final Preceptorship course with a sepsis case, as well as a multi-patient scenario staged in the emergency department. Pediatrics, geriatrics, and adult nursing care were all incorporated into the multi-patient scenario to provide a well-rounded final simulation experience and help to fine-tune the students' leadership, prioritization, and teamwork skills, prior to graduation.



## *iPads*

Nursing simulation has gone paperless!

iPads and Apple Pencils are being used by facilitators and students during simulation for ease of note taking, chart review, documentation, and resource utilization.

This technology has also been incorporated into the Nursing Skills Labs and the classroom to provide innovative educational experiences. These new technologies allow our learners to leverage their resources in order to provide safe patient care by reviewing medication administration guidelines on pharmacy apps, looking up unfamiliar concepts, watching faculty recorded videos, and following standard protocols and provider orders.



## *Inter-professional Simulation with Chapman University*



UCI's senior nursing students have had the opportunity to participate in inter-professional simulation with Chapman University's Physician Assistant and Pharmacy students. Students are being exposed to the various roles and dynamics of the patient care team and learning how to leverage each other's strengths to provide quality patient care. Teamwork, mutual respect, and communication during critical situations have been the overarching themes and takeaways. This has been an overwhelmingly positive experience for all involved and future inter-professional activities with both Chapman University and UCI School of Medicine are currently being explored.



## *Nursing Camp in Summer (NCIS) 2019*

For the 3rd consecutive year, the UCI Sue & Bill Gross School of Nursing hosted the Nursing Camp in Summer at UC Irvine (NCIS:UCI), a one-week program that introduces the nursing career to high school students. Students from all over the country come to UCI and engage in both classroom and simulated experiences, creating health education research projects, writing college personal statements, and learning various nursing skills through hands-on workshops. The success of this program allowed us to add a second cohort of students this Summer. In all, 58 students participated, and ten student scholarships were awarded by the School of Nursing, allowing students with financial needs and exceptional academic performance to attend.



## *NCIS: UCI Student, Aryana Norrian Saves Dad's Life*



As part of the NCIS curriculum, students obtain BLS certification, learning to perform CPR and the Heimlich maneuver. The evening after attending the BLS certification course, Aryana used the Heimlich Maneuver to heroically save her father as he choked on a piece of bread. Aryana's father, Dr. Nader Noorian, stated that he would have choked to death within 30 seconds had his daughter not saved his life.

*Aryana recalls, "I almost disregarded the whole thing — it was sort of traumatic and my adrenaline was rushing. You assume you'll never have to use the Heimlich!"*

*"UCI's nursing camp was like nursing school sped up in a week," Aryana explains.*

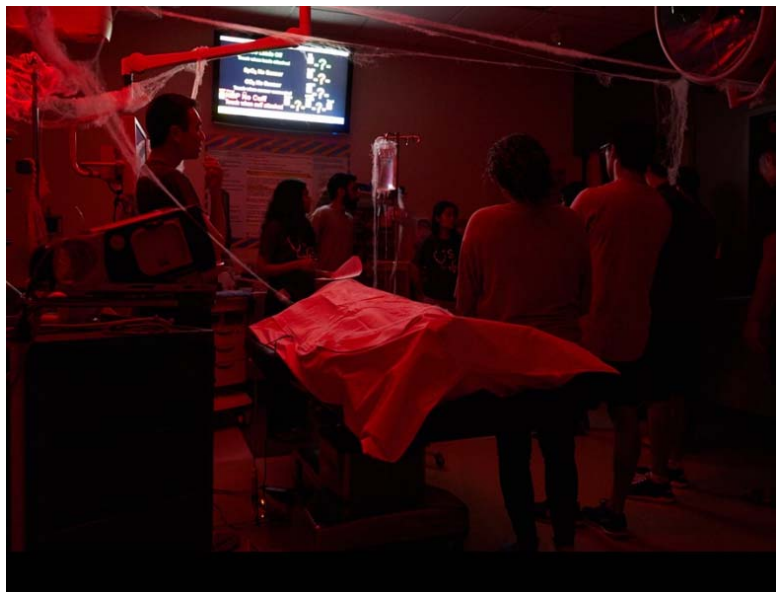
*"You got to get a glimpse a little of everything — a lot of which I've already seen in the Medical Magnet Program but I really wanted to see it in real life. This helped validate that nursing is what I want to do."*

We look forward to seeing Aryana's future as a nursing professional!

# SIMulation Interest Group

Simulation Interest Group is made up of medical students interested in medical education and medical simulation.

## Simtoberfest 2019



## Noteworthy Links

Medical Education Simulation Center Resource Site  
Medical Education Simulation Center Main Site  
UC Irvine College of Health Sciences  
UC Irvine School of Medicine  
UC Irvine, Bill and Sue Gross School of Nursing  
Society for Simulation in Healthcare  
Association of Standardized Patient Educators  
International Association for Clinical Simulation & Learning

<http://sites.uci.edu/medsim/>  
<http://www.medsim.uci.edu>  
<http://www.healthsciences.uci.edu/>  
<https://www.som.uci.edu/>  
<https://nursing.uci.edu/>  
<http://ssih.org>  
<http://www.aspeducators.org>  
<http://www.inascl.org>

### Medical Education Simulation Center Mission

The Medical Education Simulation Center advances UCI Health's mission of Discover•Teach•Heal by developing, delivering, and evaluating pre-clinical, graduate, and interprofessional medical simulation education and training activities for learners, faculty, and staff to enhance competence and strengthen collaborative practice across the continuum of care.



### 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](mailto:kbeaulie@uci.edu).**