



UCI Simulation

Spring/Summer 2018

Issue 11



Cameron Ricks, MD

Director

This year is flying by, we are over 60% complete with the MS 1 & MS 2 simulations, and I want to take a quick moment to thank our small cadre of steadfast instructors that continue to serve our medical and nursing student population. Our student survey results consistently demonstrate the high quality of education you provide – Thank you!

We will be entering into the time where the center is occupied with Clinical Foundations 3

and 4 events in the center along with a myriad of other activities that follow.

We had a great showing at IMSH this year. Our simulation specialists presented a low-cost task trainer at the 4th annual Spectrum of Ideas and we had one abstract that was presented during the rapid fire sessions. Additionally, The Emergency Medicine Dept. won SimWars and Dr. McCoy had five presentations.

We continue to interface with other UC schools through the UC Simulation Consortium as well as other departments within UC Irvine. I continue to instruct a monthly code training session at the hospital (bldg. 50) and am now involved in TeamSTEPPS® and Acute Response Committees at the medical center.

We are working with the School of Nursing as they look to increase their simulation education and utilization at our center.

Cameron Ricks, MD

Director, Medical Education Simulation

As a reminder, in order for the staff to provide the highest quality experience for the faculty and students, we need time to prepare for the simulation sessions. The simulation center has a policy for sessions/courses that rotate scenarios. The simulation center must be notified no later than 5 business days prior the scheduled session to ensure the simulation staff has time to prepare.

(Sim Policy 7.1.4)

Closures

February

19 President’s Day

March

12-14 Maintenance

30 Caesar Chavez Day

May

28 Memorial Day

July

4 Independence Day

Code Training

(Simulation Based Team Training)

Mar 5 1p - 330p

Apr 26 1p - 330p

May 24 1p - 330p

Jun 18 1p - 330p

Location: UCI Medical Center, Building 50

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AMERICAN COLLEGE OF SURGEONS • DIVISION OF EDUCATION
ACCREDITED EDUCATION INSTITUTES
ENHANCING PATIENT SAFETY THROUGH SIMULATION

American Society of Anesthesiologists

Endorsed Program
Simulation Education Network

UC Simulation Consortium

Meetings

On January 16th, members of the UC Consortium met for a lunch meeting while attending the International Meeting for Simulation in Healthcare (IMSH). Topics for discussion included, shared simulation curriculum across the UC enterprise to affect change in select patient safety indicators and planning discussion for the annual spring teleconference.

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

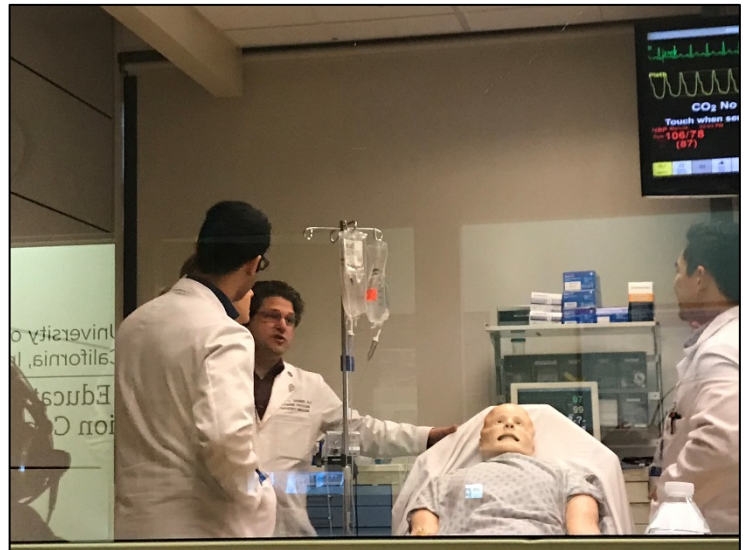
Or

Contact Dr. Ricks directly

Did you know?

The Medical Education Simulation Center holds two accreditations: American College of Surgeons and American Society of Anesthesiologists.

Even though the center is not accredited by the Society for Simulation in Healthcare (SSH), many of the center's policies and operations are in line with SSH's standards. This includes: mission and governance, simulation operations, fiscal operations, simulation modalities, evaluation, and quality improvement.



Dr. Jeffrey Suchard, Associate Dean of Basic Science Education, steps in and instructs year 2 GI simulation sessions.



17-21 September 2018

The Medical Education Simulation Center will be hosting a staff open house sometime during that week. It provides an opportunity for staff to see what the students do in medical simulation. Stay tuned for further details

Interprofessional Simulation-based Team Training (Code Training)

Simulation-Based Team Training at UCIMC Academic Year to Date

Total Sessions: 4
Total learner hours: 80
Total learners Jul – present: 32

Total Sessions since Inception: 36
Total learner since Inception: 264
Total learner hours since Inception: 660

Important Upcoming Dates

February

- 12 SBTT – Code Training (Bldg. 50)
- 24 World of Medicine

March

- 3 Alumni Reunion Tour
- 5 SBTT-Code Training (Bldg. 50)
- 16 Match Day
- 29 Clinical Foundations 4

April

- 1-6 Clinical Foundations 4
- 9 MOCA
- 10 MOCA
- 26 SBTT-Code Training (Bldg. 50)

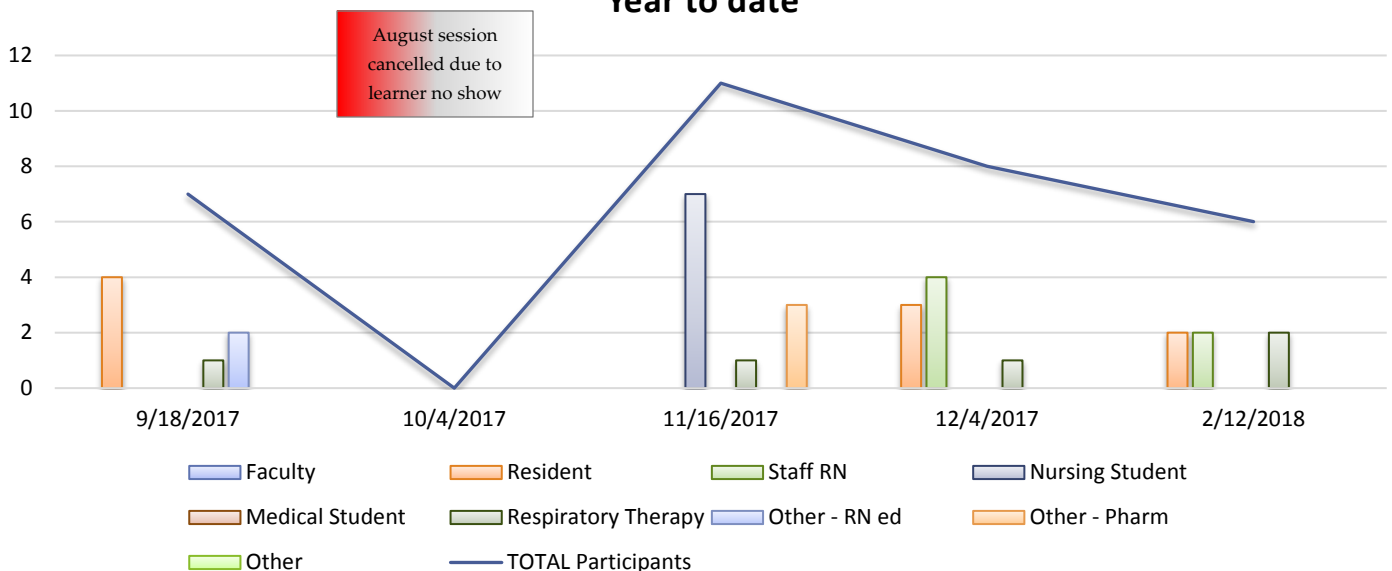
May

- 10-18 Clinical Foundations 3
- 24 SBTT-Code Training (Bldg. 50)

June

- 18-19 ATLS
- 18 SBTT-Code Training (Bldg. 50)

Participation in Hospital Acute Response Training 2017-2018 Year to date



Simulation around UC Irvine

Emergency Medicine Simulation

MS 4 EM clerkship utilized 3 simultaneous simulation sessions with the help of Dr. Sokol, EM Simulation Fellow.



SIMWARS

At our annual simulation meeting UCI had a huge presence. The EM Residency simulation team brought home the gold (first place) at SimWars.

PRESENTATIONS

Dr. Eric McCoy had 5 presentations during the conference:

- Incorporating Evidence-Based Medicine into simulation study designs-rapid fire session
- Designing strong simulation study protocols (Workshop)
- Implementing telesimulation at your institution
- Simulation in Emergency Medical Services
- Educational strategic planning



Manual Castro, Rob Rowe, and Reid Honda

Dr. McCoy's IMSH Video

https://www.youtube.com/watch?v=xuoOpJA_Kjk

Anesthesia Perioperative Simulation



The Department of Anesthesiology would like to welcome **Razan Duella** as a new simulation coordinator. Razan will coordinate all of the department's simulation activities and help with departmental research. Razan will also take an active role in MOCA courses.

For more information, please contact:

Corey Nelson, MD

Director of Simulation for Anesthesiology & Perioperative Care
Department of Anesthesiology and Perioperative Care

Medical Education Simulation Center

With revenue received from hosting MOCA courses it has allowed the center to be able to upgrade the monitor in debriefing room 1 from a 40 inch to a 70 inch monitor.



Keith Beaulieu was voted in for a second term as an at-large voting member of the Society for Simulation in Healthcare (SSH) Accreditation Council.



Quality Initiatives
Medical Education Simulation Center

Current Quality Improvement initiatives:

- Course Preparation Cards
- Simulation Session Student Surveys
- Instructor Evaluations
- Faculty Development Videos
- Resource Website

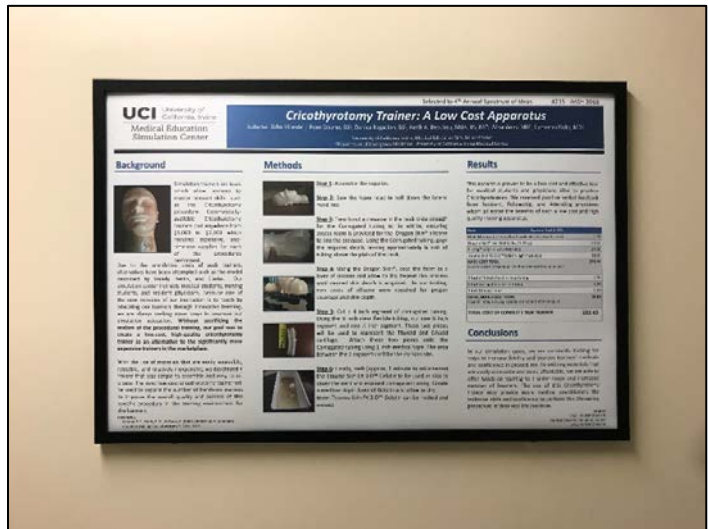
Posters are on display in the simulation center control room hallway

International Meeting for Simulation in Healthcare (IMSH)

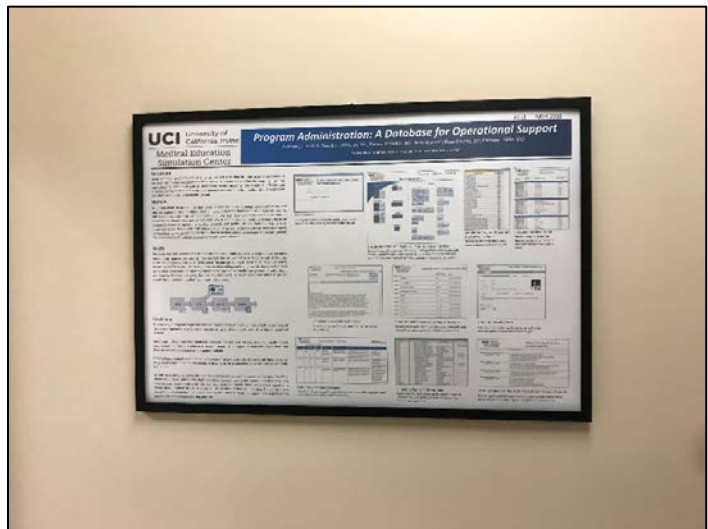
John Vicente and Ryan Gouras presented at the Showcase of Ideas during IMSH for their low cost Cricothyrotomy trainer.



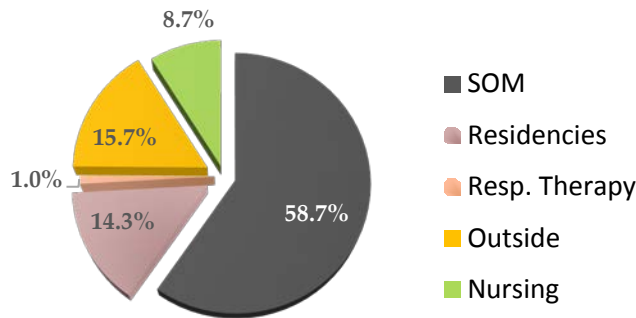
Jamie Hyneman from Discovery Channel's Mythbusters® even stopped by to take a look



The team also submitted a program administration abstract that was selected for presentation at the rapid-fire presentations during the conference.



**Medical Education Simulation Center
Total Time
1 July - through 31 January 2018**



Utilization by Month		
Month	Center	Staffing
July	29%	49%
August	59%	99%
September	60%	95%
October	60%	100%
November	60%	99%
December	61%	93%
January	47%	99%
February	0%	0%
March	0%	0%
April	0%	0%
May	0%	0%
June	0%	0%

*Nationwide simulation center average utilization is 60%

Simulation Fellowship around UC Irvine

Medical Education Simulation Center

The center was not able to secure a viable/qualified candidate for this academic year. We continue to seek out qualified domestic and international medical simulation fellowship candidates.

Work from our previous simulation fellows:

Lilot M, Evain JN, Bauer C, Cejka JC, Faure A, Balança B, Vassal O, Payet C, Bui Xuan B, Duclos A, Lehot JJ, Rimmelé T. *Relaxation before Debriefing during High-fidelity Simulation Improves Memory Retention of Residents at Three Months: A Prospective Randomized Controlled Study.* Anesthesiology. January 2018. doi: 10.1097/ALN.0000000000002045.

Anne Beissel, Christian Bauer, **Marc Lilot**, Keith Beaulieu, Baptiste Balanc, Thomas Rimmelé, Cameron Ricks. *A Trans-Atlantic High-Fidelity Mannequin Based Telesimulation Experience.* Anaesthesia Critical Care & Pain Medicine, August 2017. <http://www.sciencedirect.com/science/article/pii/S2352556816301680>

Emergency Medicine Simulation



Dr. Kimberly Sokol is in the 2nd year of a two year simulation fellowship with the Department of Emergency Medicine. Upon completion of the Fellowship, Dr. Sokol has accepted a position at Kaweah Delta in Visalia, California as full-time Emergency Department staff and Director of Simulation. We congratulate Dr. Sokol!



Dr. Reid Honda will start his simulation fellowship with the Department of Emergency Medicine in June 2018.

On Thursday, January 4, 2018, The Sue & Bill Gross School of Nursing had a successful **Critical Care Boot Camp** for 50 Senior Nursing Students.

Stations included: medication administration simulation, IV Lines/IVPB, and RESP/EKG.

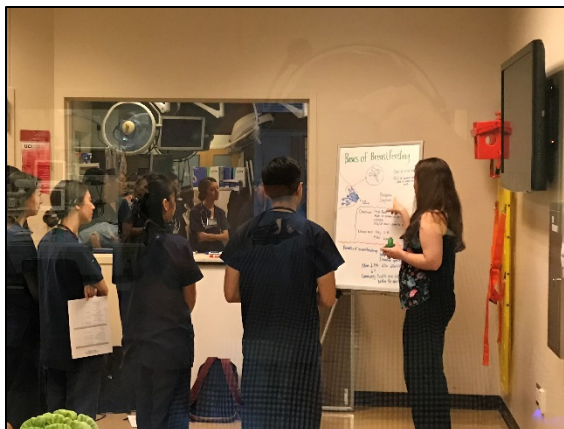
Instructors present were:

- Mo Espinoza, MSN, RN, CNS, CCRN
- Kim Hicks, MSN, RN, CCRN
- Andy Sarjeant, MSN, RN, WCC
- Philip Amante, BSN, RN, CEN, TCRN, CCRN
- Joel Kirouac, BSN, RN, PHN
- Doug McCallum, DNP, APRN, ACNP
- Denise Beck, MSN, RN, CCRN

The School of Nursing continues to explore the use of medical simulation as an adjunct educational modality to the current nursing curriculum.

Recent Article:

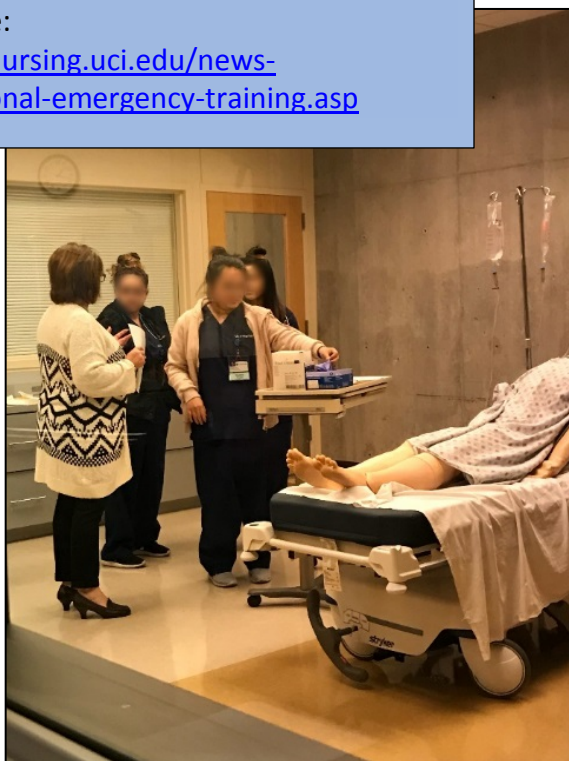
<http://www.nursing.uci.edu/news-interprofessional-emergency-training.asp>



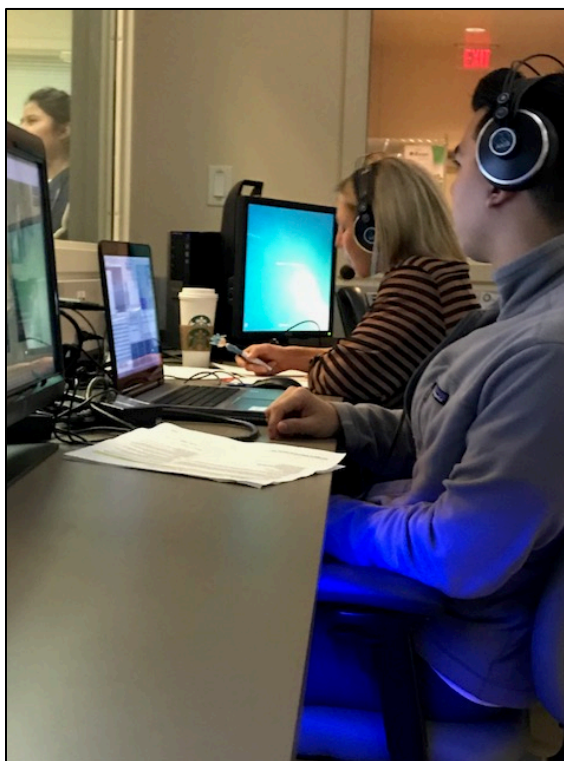
Nursing students learn about breast feeding during boot camp



Skills station breakout during boot camp



Maureen Movius giving the students a pre-brief prior to the simulation session



Tiffany Nielson and Ryan Gouras observe nursing students during simulation activities



Keith A. Beaulieu
Director of Operations
Medical Education Simulation
Center

Budget and Planning

The Medical Education Simulation Center has submitted the draft budget to MedEd finance for inclusion in the MedEd budget that will be sent to the School of Medicine. The budget remains largely the same as last year.

Capital Purchases

This fiscal year, the center was able to purchase a new SimMan 3G. This was a planned purchase as part of the centers technology refresh cycle.

Not only does this provide a new simulator platform for utilization in the center, and increase our overall simulator capability, but it also allows the center to take advantage of the new features that were not previously available on the other simulators.

We were also able to purchase a new gurney to replace an old one.

Scheduling

Residencies can now submit requests for next academic year. Once we receive the schedule for the medical students and School of Nursing, we will begin looking at the residency programs for scheduling. All residency scheduling will be on a first come, first serve basis.

We will be continuing to schedule based on the “block” method, meaning there are 2 blocks of time per day 0800-1200 and 1300-1700. This method helps minimize overtime costs

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

Curriculum

With the exception of a few tweaks for MS 2 Neuro, the medical student curriculum for 2017-2018 is now complete. For additional curriculum resources, as well as medical education and simulation resources, can be found at <http://sites.uci.edu/medsim>.

Instructor Evaluations

Per our policy, we continue to complete simulation instructor evaluations for this academic year. The faculty instructors have been receiving evaluations by the simulation center. Information pertaining to the process can be found here: https://youtu.be/6K_1tAzLZNo or by logging on to the Medical Education Simulation Center Resource Website: <http://sites.uci.edu/medsim/education/faculty-development/>.

Learner Sign In and Surveys

This year, we started using the badge reader for sign in of the medical students (MS 1 & 2) and nursing students with good success. Starting 1 July, we will also be adding the MS 3 & 4 students and all residencies to the badge sign in process as well. Residency coordinators, please remind the residents to bring their badge when they come over to the simulation center.

This year also marked the first time we have used Qualtrics for the post-session surveys for the students (MS 1 & 2) and nursing students. Starting 1 July we will begin to apply the surveys to MS 3 & 4 clerkships and all residencies.

Between now and 1 July, we will be testing/piloting the sign in and surveys on select sessions.

Quality Improvement

Recently the center sent out a survey asking for stakeholder opinion on various services at the center. The results will be looked at to provide better service in the future.

SIMulation Interest Group

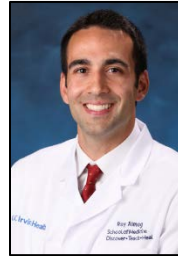
Simulation Interest Group is made up of medical students interested in medical education and medical simulation.

President- Alex Marlow
VP Education – Lauren Chen
VP Outreach- Jason Cosman
VP Research – Param Bhatler
Education/Research Committee- Roy Almog
Secretary- Logan Grimaud
Webmaster- Melissa Huang
Treasurer -Sophia Raefsky



Alex Marlow

Simulation is not only an excellent way to utilize the didactic materials we learn in class, but it is also a fun and engaging experience. UCI School of Medicine's SIM center is an incredible accompaniment for any medical school or medical center to have as it provides hands-on experience before we even begin working directly with patients. I'm very excited to work more closely with the SIM Center and its wonderful staff this next upcoming year. I am also very interested in continuing the SIM interest group's research into game-ification of simulation as well as to research better ways to integrate SIM into our curriculum to enhance our learning.



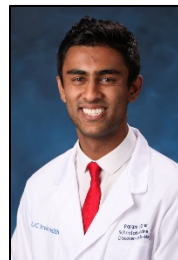
Roy Almog

I am excited to be involved with the simulation interest group because I believe that the best way to learn skills is by doing them in a safe environment where one can take an active approach to problem solving. I have had experience in the past as an intern at OHSU's Simulation Center and saw the value of simulation in medicine early on. I am excited to coordinate both education and research to continue to grow the interest in simulation at UCI.



Logan Grimaud

As a student, I appreciate the practical experience that simulation offers; it puts what we learn in lectures into perspective and breaks up the monotony of power point slides. I'm not yet entirely sure what specialty I plan to pursue, but I do know that experience with SIM will be valuable wherever I find myself in the future.



Param Bhatler

I personally enjoy SIM for the problem solving and case base aspects that it provides medical professionals, giving a much more engaging and dynamic learning experience as compared to didactic lecture. This year I hope to integrate more research projects with healthcare technology under the SIM interest group and reach out to students at UCI SOM who want to specifically get involved in these areas"



Sophia Raefsky

Simulation is important to me as I've seen first-hand the benefits of SIM in teaching skills to both medical students and medical professionals. I believe having exposure to scenarios in a simulation setting will improve the care we provide at the patient's bedside, including being more skillful, confident, and relaxed, allowing for greater focus on listening and caring for our patients.



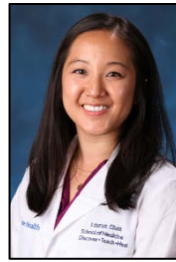
Melissa Huang

I've always loved exploring medicine and technology, and simulation sits at the intersection of these two fields. As a medical student, I have been very privileged to learn at the UCI Simulation Center, and I hope to research how simulation can improve medical education and skills in our surrounding community.



Jason Cosman

SIM is an amazing addition to our education at UCI because it challenges students to take all the information that they learned in the lecture hall and apply it in a safe, constructive learning environment. SIM scenarios resemble real-life situations and students learn how to think on their feet under time constraints and stress.



Lauren Chen

Simulation is important for medical education because it provides an opportunity to apply and integrate didactic knowledge in a lower stress environment. As a first year medical student, simulation turns learning into a memorable experience, by having a patient present with significant physical exam findings, changing vitals, and real-time progression of disease. No current research ideas for next year, but I'd love to learn more about how simulation is used in other parts of medical education aside from what we are exposed to through in CF.

UCI ULTRAFEST

UCI School of Medicine hosted its 7th annual UltraFest on February 3rd. UltraFest seeks to teach and develop students' skills in bedside ultrasound, through hands-on practice and small-group instruction with live models and clinician instructors.

This year's event saw over 200 medical, osteopathic, and physician assistant students from 14 Universities across California participating!



John provides the learners with an orientation prior to the session's simulation



Simulation Faculty Development

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 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/>



The University of California offers on-line e-learning, and one such offering is the UC People Management Series and Managing Implicit Bias

UC System-wide People Management Series

The UC People Management Series is a self-directed and self-paced certificate program consisting of standard system-wide courses, and courses offered at the local level.

http://training.uci.edu/staff/leadership/uc_people_management/index.html

UC Managing Implicit Bias Series

As part of UC's commitment to diversity, equity and inclusion, this system-wide program was created to increase awareness of implicit bias and reduce its impact at the University. This series also is good because it discusses schema formation and mental shortcut that is commonly seen in medical simulation

http://training.uci.edu/staff/diversity/implicit_bias.html

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.