



UCI Simulation

Fall/Winter 2018

Issue 12



Cameron Ricks, MD

Director

As operations for the 2017-2018 academic year come to a close and now into the new academic year, **the simulation center accomplished 2,067 hours of simulation activities and 26,000 hours of total participant hours to a total of 7,600 participants.**

For the Medical Education Simulation Center, the School of Medicine medical student simulation activities represented 60% of the total time, residency activities represented 17%, UCIMC code training activities represented 3%, School of Nursing represented 6.2%, and outside activities,

such as AHA BLS and ACLS and MOCA represented 15.5%.

Overall **simulation center average utilization was 55%**. This matched our center target utilization. Our **staffing average utilization was 94%**.

The School of Nursing increased their overall utilization of simulation from 0.7% up to 6.2%. We projected 128 hours for SON this year and in actuality their total time utilization (including necessary prep and admin time) totaled 213.5.

Dr. Kimberly Sokol finished up her Emergency Medicine Simulation Fellowship and was offered a job in Central California as a simulation director. This is a testament that UCI simulation is strong and our simulation instructors are being sought out.

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 at IMSH, The Emergency Medicine Dept. won SimWars and Dr. McCoy had five presentations.

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)

Upcoming Closures

November
22 – 23 Thanksgiving

December
24 – 31 Winter Holiday

January
1 New Year's
21 MLK Holiday

February
18 President's Day

Code Training (Simulation Based Team Training)

No current dates available

Location: UCI Medical Center,
Building 50

[Code Training Website](#)



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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

Did you know?

UC Simulation Consortium

The UC Simulation Consortium continues to meet by conference call monthly. The face to face meeting this year will be scheduled in early January. Dr. Ricks was the chair of the consortium from 2016-2018. Operational directors continue to share data and knowledge across all campuses and the consortium is working with the UC sepsis champions at every campus to look at how simulation can affect change.

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.

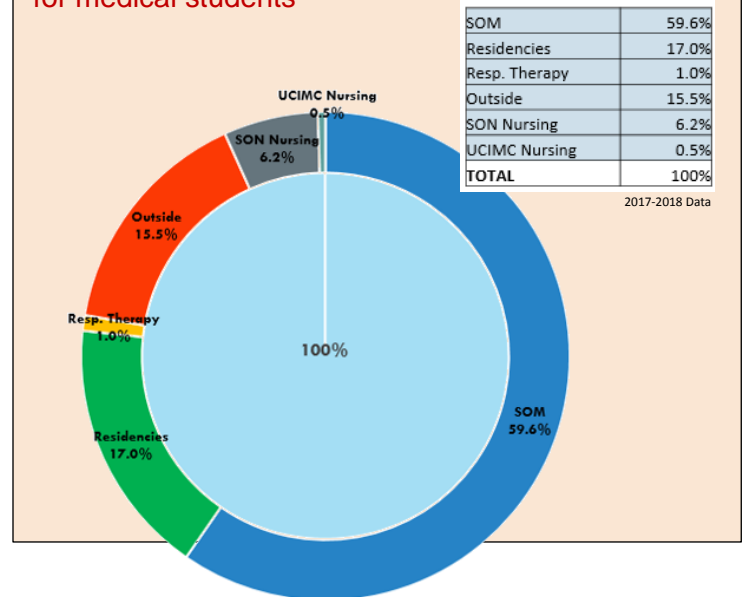
Minimum commitment time is 4-hours

Contact our office for details 949.824.8835

Or

Contact Dr. Ricks or Dr. Wray directly

The Medical Education Simulation Center is not just for medical students



Dr. Ryan Gibney, steps in and instructs year 2 Fever simulation sessions.



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

Medical Education Simulation Center

Medical Education Simulation Center



Keith A. Beaulieu
Director of Operations
Medical Education Simulation Center

Budget and Planning

The budget was submitted to the Dean’s office. We haven’t heard back from them as of this moment; since the budget was largely the same as last year’s approved budget, we are operating on last year’s figures until we hear otherwise.

This year the simulation center completed a strategic plan that aligns with both Medical Education and UCI Health. The 2018-2023 Strategic Plan can be found [here](#).

2nd and 3rd Floor Reorganization

Over the next year or two the Clinical Skills, Simulation, and Ultrasound departments at MedEd will be reorganizing and combining into one larger unit.

Capital Purchases

There are currently no projected capital purchases at this time.

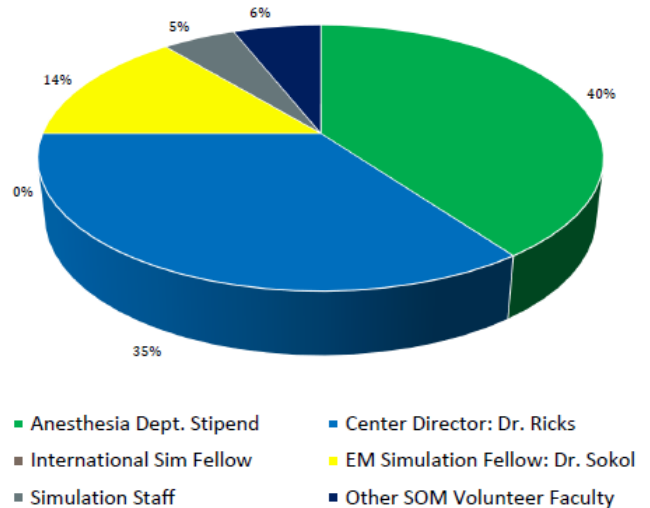
Scheduling

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.

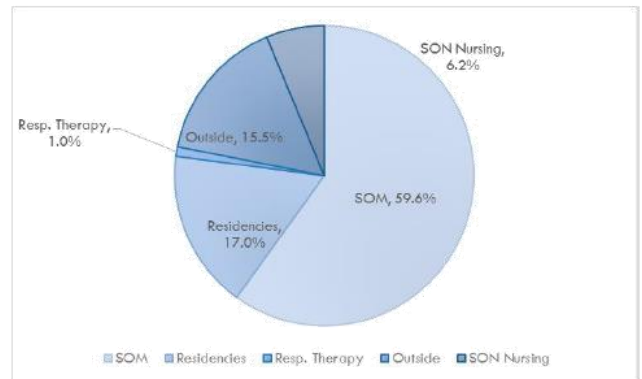
Curriculum

This is the second year of the Clinical Skills Integration (CSI). The simulation curriculum was modified a bit to accommodate some new sessions

Percentage of Total MS Simulation Hours



Utilization between SOM/Residency/Other (AY 2017-2018)



Month2	% Hours		
	Actual Sim Operation	% Hours Prep	% Hours Admin
July	61%	16%	24%
August	60%	16%	25%
September	64%	16%	20%
October	60%	16%	23%
November	61%	16%	24%
December	66%	15%	20%
January	47%	13%	40%
February	55%	18%	26%
March	67%	15%	18%
April	60%	17%	24%
May	60%	18%	22%
June	51%	17%	32%

60% industry average

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/>

Vomit Trainer

Simulation Specialists **John Vicente** and **Ryan Gouras** created a vomit trainer at the Medical Education Simulation Center. This trainer will help train learners on specific skills such as vomiting during intubation, and general suctioning techniques.

Materials used:

Laerdal Advanced Airway Trainer
Aquarium pump
5-1 connector
O-ring
Miscellaneous Tubing
Suction device and reservoir
Yankeur



Dr. Wray joins Medical Education



Welcome to **Dr. Alisa Wray** from Emergency Medicine! Dr. Wray joins as the Director of Clinical Skills Assessment and the Clinical Foundations Director.

Dr. Wray earned a medical degree from Tulane University School of Medicine in New Orleans, then UCI for a residency in Emergency Medicine. Wanting to continue her training and further specialize, Dr. Wray completed a UCI fellowship in multimedia design, education and technology due, hoping to blend her love of teaching and technology. Dr. Wray says she finds teaching medical students and residents rewarding, especially when she can open their minds. “I love to see when things click for them and watch them grow,” she says.

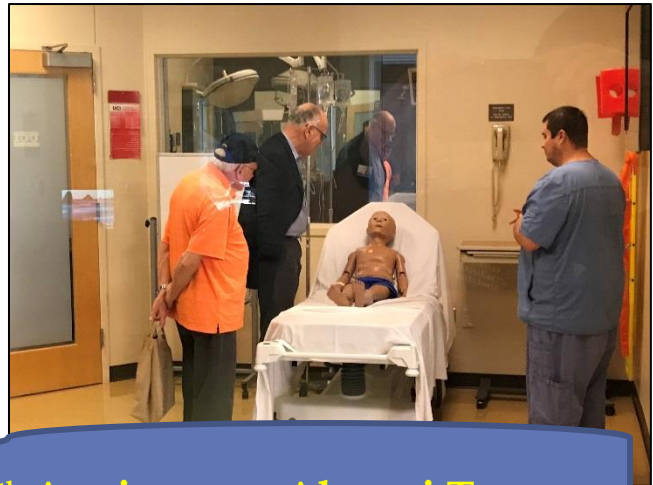
Working at the forefront of a constantly changing medical environment, will help to shape the future of medical education, Dr. Wray believes. Her research interests include the exploration of how different technologies and modalities affect the way students, residents and patients learn. Dr. Wray already plans to incorporate innovations into the boot camp for fourth-year medical students, as well as to completely overhaul the foundations courses. We expect her excitement and experience to bring much positive change to our department and UCI School of Medicine.

Excerpt from Emergency Department
Newsletter

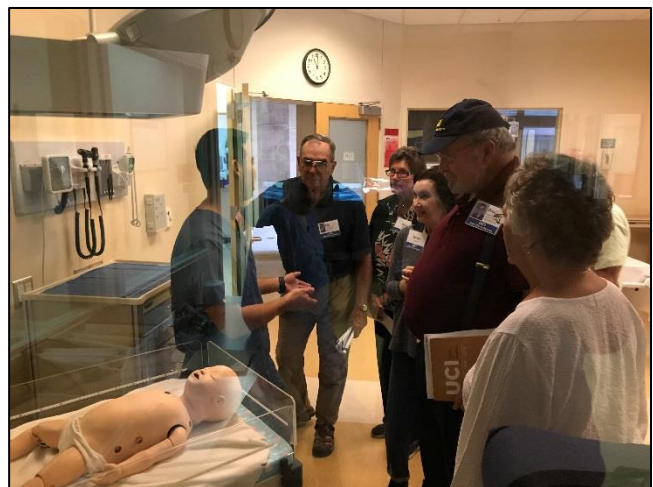
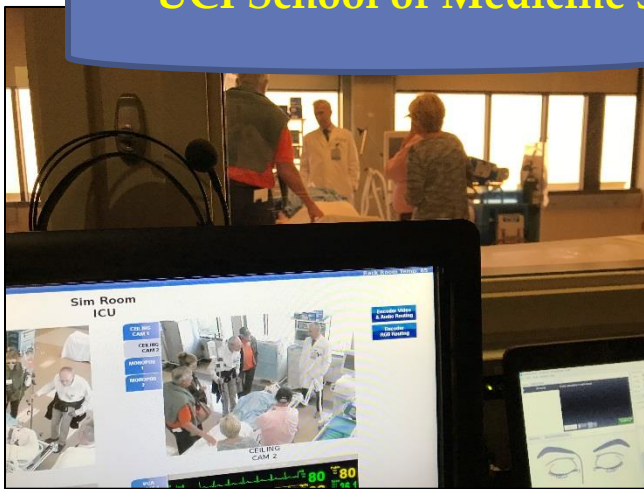
Permission to use rescinded by owner

UC Irvine Policies and Procedures Manual highlighted on HealthySimulation.com

UC Irvine Medical Education Simulation Center's Policies and Procedure manual got highlighted in the latest article from HealthySimulation.com. The article can be found - [here](#)



UCI School of Medicine 50th Anniversary Alumni Tour



Simulation around UC Irvine

Medical Education Ultrasound

SAVE THE DATE

SEPTEMBER 12 - 15, 2019

We invite you to sunny California to join us for a weekend of revolutionary research, scanning workshops, and small group sessions with pioneering sonologists. The 7th Annual World Congress of Ultrasound, hosted this year at the University of California, Irvine, is the place to master your skills, network with fellow sono-evangelists, learn modern teaching methodologies and leverage the latest POCUS technology.

WWW.WCUME2019.ORG

SEVENTH WORLD CONGRESS
ULTRASOUND IN MEDICAL EDUCATION

UCI School of Medicine



Emergency Medicine

Dr. Eric McCoy, director of the emergency medicine simulation fellowship, will be representing UC Irvine at the 2019 International Meeting in Simulation in Healthcare, in San Antonio, TX.

He will be providing several educational courses at the conference, including a workshop on how to incorporate evidence-based medicine concepts to design and build strong research study protocols. His courses have been some of the most well attended and highly rated.

You can find him on the front page of the International Meeting on Simulation in Healthcare 2019 website when registering for the conference!

<http://imsh2019.com/>

Anesthesia Perioperative



Dr. Corey Nelson and Razan Duella continue to work with the OB/GYN department in doing monthly in-situ simulation sessions in UCIMC.

For more information, please contact:

Corey Nelson, MD

Director of Simulation for Anesthesiology
& Perioperative Care

Department of Anesthesiology and Perioperative Care

Dean's Scholars

In alignment with the UCI Health Strategic Plan, the School of Medicine has developed an academy of medical education leaders to advance medical student clinical skills and assessment

Coming from a variety of specialties and educational backgrounds, the Dean's Scholars were specifically selected from top UCI faculty for their love of medical education and commitment to teaching. These outstanding educators are teaching clinical skills and critical thinking, participating in small group instruction, ultrasound and simulation education.

2018-2019 Dean's Scholars

Robert Edwards, MD
Dawn Elfenbein, MD
Mohammed Helmy, MD
Penny Murata, MD
Ariana Nelson, MD
Tan Nguyen, MD
Matthew Reed, MD
Andrew Reikes, MD
Nathan Rojeck, MD
Sangeeta Sakaria, MD
Bobby Sasson, MD
Sonia Sehgal, MD

Simulation Fellowship around UC

Irvine

Medical Education Simulation Center

We would like to welcome and introduce **Dr. Mohammed AlKhofi** who just started his one-year Medical Simulation Education Fellowship. Dr. AlKhofi is from King Fahd Hospital of the University, Alkhobar, Saudi Arabia and specializes in Pediatric Emergency Medicine. Throughout the year, Dr. AlKhofi will dive into medical education by not only teaching medical students and residents, but also learning and applying aspects of curricular development, and operations of a simulation center.



Emergency Medicine Simulation



Dr. Reid Honda was born and raised in Honolulu, HI. After completing college at Loyola Marymount University and obtaining a degree in biology and studio arts, Reid worked as an EMT in the cities of Santa Monica and Torrance. Then, he returned to Hawaii to complete medical school at the University of Hawaii, John A. Burns School of Medicine. Dr. Honda completed his residency in Emergency Medicine at UC Irvine in 2018. During his last year of residency, he served as the chief resident of simulation, which is where he developed his interest in simulation, and is currently a simulation fellow at UC Irvine. After completing his fellowship, he plans to return to Hawaii and work clinically as well as become involved in medical education at the University of Hawaii.



Dr. Tiffany Nielsen has been named the Simulation Coordinator for the Sue & Bill Gross School of Nursing! The School of Nursing is working to increase its utilization of simulation education within each clinical practicum course to develop enriching learning experiences for its students and address the current challenges in prelicensure nursing clinical placements in California. The literature supports the use of simulation in nursing education and the California Board of Registered Nursing advocates for schools to utilize up to 25% of required clinical time in simulation and/or simulation-related activities.

Dr. Nielsen will be working closely with the School of Nursing Faculty and the Medical Education Simulation Center to incorporate simulation throughout the nursing curriculum and create innovative and meaningful experiences for our future nurses. She held a simulation orientation for the SON faculty in September to provide updates on best practices, create a consensus for debriefing among nursing faculty, and identify short-term and long-term simulation goals for the School of Nursing.



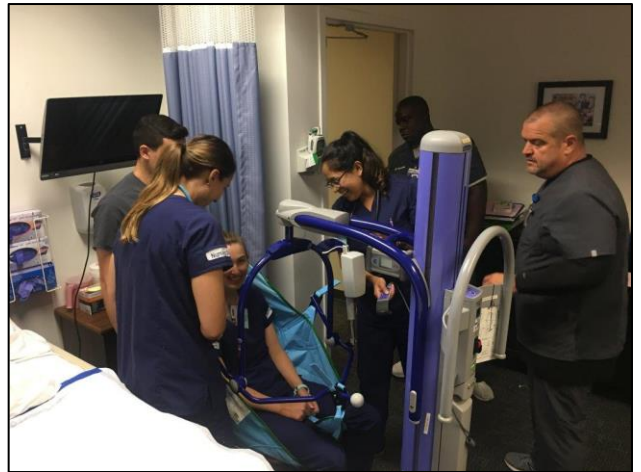
NCIS: UCI, Nursing Camp in Summer 2018

The Sue & Bill Gross School of Nursing, recognizes society's increased need for nurses in coming years and decades. In an effort to develop a pipeline of future nurses, the SON introduced Nursing Camp in Summer at UC Irvine (NCIS: UCI) for high school students in 2017. The only program of its kind in the state, NCIS: UCI provides a hands-on introduction to the many types of nursing for high school students who are interested in exploring nursing as a career.

Over this past Summer, the SON hosted a total of 56 high school student campers from 5 different states including California, Oregon, Washington, Massachusetts, and Pennsylvania. The student campers participated in actual and simulated clinical nursing experiences, many of which were held in the Medical Education Simulation Center. Campers learned nursing skills such as IV insertions, injections, vital signs, CPR, first aid, and splinting, among many other real-life procedures. The Simulation Center was used to simulate an Asthma patient, engaging the campers in hands-on learning and physical assessment techniques. Campers also had the opportunity to learn about and listen to various heart murmurs on one of the SimMan 3G manikins. Many of the student campers expressed that NCIS: UCI opened their eyes to the various pathways that a nursing career offers, and expanded their view of the profession.

Master's Entry Program in Nursing (MEPN) Foundations Course

Our Master's Entry Program in Nursing (MEPN) students also participated in simulation over the Summer as part of their Nursing Foundations course. They were exposed to their very first patient encounters as nursing students at the Simulation Center, caring for an elderly female following a hip replacement, as well as a young male adult requiring insertion of a chest tube. The students had the opportunity to put their physical assessment and nursing skills to practice in a safe and dynamic learning environment, organized by Professor Sarah Campbell. Professor Stephanie Au also executed an interdisciplinary educational activity with the Lift Team from UCI Medical Center. The MEPN students learned proper body mechanics when lifting and transferring patients, were educated about the various assistive devices available in acute and ambulatory settings, and some even took a ride in the hydraulic lift, gaining invaluable insight on the patient perspective and experience.



School of Nursing Pediatric/Maternal Child Boot Camp



Nursing faculty, Professor Kathy Saunders and Dr. Sara Brown, hosted the Annual School of Nursing Pediatric/Maternal Child Boot Camp for both the undergraduate and MEPN nursing students. The boot camp was held prior to the start of the 2018 Fall Quarter to get the students ready for their upcoming clinical rotations in these specialty areas. Fifty-seven undergraduate senior nursing students rotated through multiple stations at the Medical Education Simulation Center. The Maternal Child content covered intrapartum and postpartum assessments and care, fetal

monitoring, head to toe newborn assessment and APGAR scoring, and lactation promotion and techniques. In the area of Pediatrics, the students reviewed basic infant care, immunization scheduling and injection skills, principles of pediatric medication administration, and tracheostomy and gastrostomy tube care. The students were also tested on weight-based medication calculations, IV infusion rates, and safe medication administration. A variety of task trainers and the Nickie medical training doll were used to provide students with hands-on practice and skill refinement.

SIMulation Interest Group

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



Dr. Kenneth Seiff providing instruction and facilitation during World of Medicine, Feb 2018



Dr. Waffarn teaching APGAR during World of Medicine, Feb 2018



Dr. Kenneth Seiff providing instruction and facilitation during World of Medicine, Feb 2018



Learners are practicing knot tying during World of Medicine 2018

Join us for a spooky night at ...

SIMtoberfest

Hosted by UC Irvine Simulation Interest Group and our simulation team

What: Learn clinical skills including IV placement, intraosseous infusion, lumbar puncture, emergency spine stabilization, and diagnose the cause of a mysterious illness in an escape-room style sim. All simulations led by our team and trained physicians.

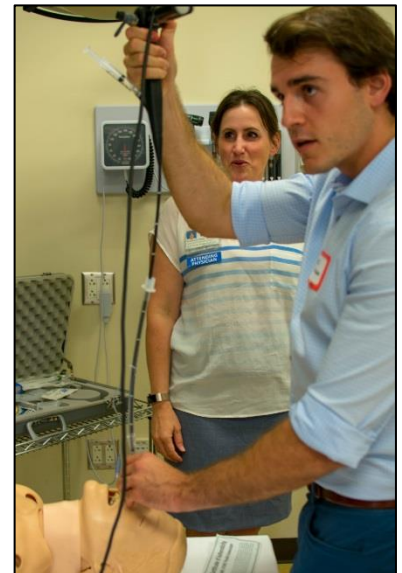
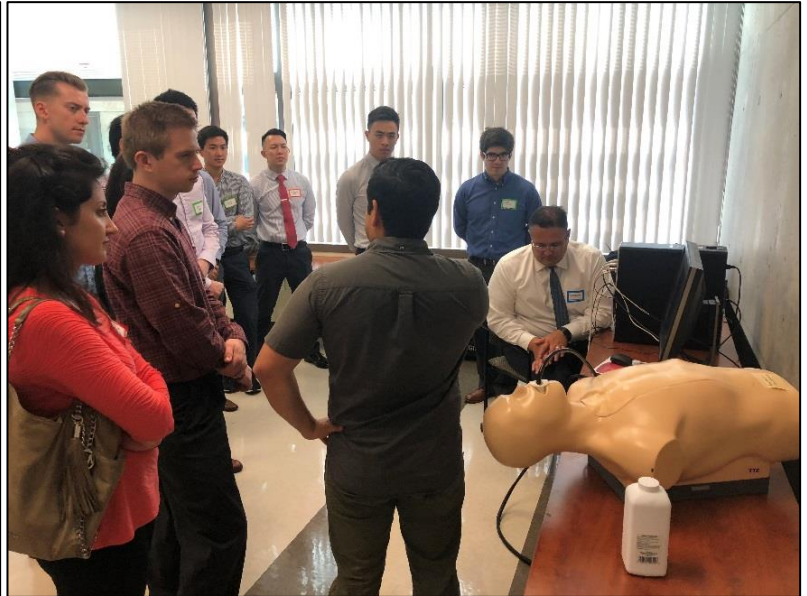
When: Monday, Oct 15th, 4:30-7:30pm

Where: UC Irvine Simulation Center (2nd Floor of Medical Education building)



Anesthesia Interest Group

California Anesthesia Medical Student Symposium



The 7th Annual California Anesthesia Medical Student Symposium took place at UC Irvine on September 22nd. This is the 4th time since 2012 that UCI has hosted this event.

This year's theme was ***"Anesthesia: What's Next in Tech?"*** and included lectures from UC Irvine's Dr. Leslie Garson and Dr. Jay Shen, as well as UC Los Angeles' Dr. Maxime Cannesson.

Nearly all California's anesthesiology programs were in attendance, including: UC Irvine, UC Riverside, UC Los Angeles, UC Los Angeles-Harbor, UC San Diego, UC San Francisco, USC, Cedars-Sinai Medical Center, Loma Linda University, and Stanford University.

Attendees spent the afternoon rotating through a variety of hands-on workshops in the Medical Education Simulation Center that exposed them to skills and techniques that will serve them well regardless of their chosen specialty.

The event was wildly successful with attendance maxed out at 115 medical students registered.

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.