

EMERGENCY MEDICINE



<https://medschool.ucsd.edu/som/emergency-med>

New Senior Emergency Care Unit Opens at UCSD



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Grand Opening for New Senior Emergency Care Unit at UCSD

San Diego community and UCSD leaders gather to celebrate the opening of the Gary and Mary West Senior Emergency Care Unit at UCSD. Honored guests included US Congressman Scott Peters, San Diego City Council

President Barbara Bry, UCSD Chancellor Pradeep Khosla, and Health Sciences VC David Brenner. Honorees and Philanthropists Gary and Mary West (center) led the official ribbon cutting for the new unit on February 19, 2019.



Cheers!



US Congressman Scott Peters

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EMERGENCY MEDICINE

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Letter From The Chair

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Division Updates

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DEM Family & Friends

On behalf of the UCSD Department of Emergency Medicine, I wish all of our alumni, staff, friends, and family a happy 2020! I am also pleased to present our annual newsletter looking back on the accomplishments and events of 2019.

It has been another banner year for our Department with continuing growth of our clinical, educational, and research programs. Our 3 Emergency Departments in San Diego and Imperial Counties, as well as 2 Urgent Care clinics treat over 150,000 patients annually. We officially opened the Gary and Mary West Senior Emergency Care Unit in La Jolla, one of the first ACEP accredited Geriatric ED's in the nation (and only level 1 GED in California). Our residency program has experienced similar growth and we matched 11 terrific applicants for the Class of 2023! Our scholarly and research efforts now includes collaborations with not only colleagues at the School of Medicine (geriatrics, critical care), but also with our Engineering School, Oceanographic Institute, and newly launched School of Public Health, with funding from a diversity of sources including the NIH, NSF, and Moore Foundation.

As you'll see, our faculty and trainees have received numerous accolades this year with Assistant Prof. Christian Dameff selected as one of EMRA's "40 under 40", resident Emily Sbiroli receiving a Healthcare Leadership award for her commitment to environmental issues, Prof. Steve Hayden and Resident Obi Chidi elected to the San Diego Medical Society Board of Directors, and Prof. Rick Clark chosen as UCSD's "Physician of the Year" for 2019 to name a few! UCSD DEM also sponsored the first ever Women in Emergency Medicine regional conference, as well as joint Women in EM and Internal Medicine symposia. The work of our Department has been featured prominently in the national media including NBC's Today Show, the Wall Street Journal, and Washington Post.

This year unfortunately is not without some sad news. In November, Emeritus Professor Peter Rosen, legendary father of Emergency Medicine, passed away at home with family at his side. Peter left an indelible mark on our Department and training programs here at UCSD for which we are forever indebted. We all learned so much from Peter and treasured our time with him – he will be deeply missed, but always remembered!



Ted Chan, MD | Department Chair



Contact Us!

Please contact Mey Pflaum with any
updates.
mpflaum@health.ucsd.edu

Academic Affairs



Rick Clark, MD

Vice-Chair, Academic Affairs

A New Face

Peter joins us as the new Michelle & Ted Gurnee Chair in Hyperbaric and Division Medicine Research. Prior to UCSD, Peter was a full Professor at the Karolinska Institute and completed post-doc work at Stanford. He is trained as a radiologist and physiologist (a first for our Department) where his research has focused on the respiratory physiology of diving. Peter will be leading our HBO division research initiatives.



Peter Lindholm, MD, PhD

The UCSD DEM has added several new faculty members in the past year, including Jenny Farah, Sukhdeep Singh, and Dan Lasoff. Each of the Divisions have added new academic members and fellows, including Toxicology, EMS, and IT. Many of our faculty hold joint appointments with other departments including Pulmonary/Critical Care, Radiology, Anesthesiology, Medicine, and Bioinformatics. We continue to expand our presence at the VA Medical Center and El Centro Regional Medical center, where an increasing complement of residents rotate. We

maintain leadership roles in the School of Medicine with Kama Guluma as an Associate Dean, and members on both the Committee on Academic Personnel (CAP) the SOM CAP. Our DEM Academic RVU program continues as one of the leading academic achievement programs within the Medical Center designed to recognize teaching, leadership and scholarly work within the Department. We are also developing our faculty mentorship program and are now developing a faculty wellness initiative to promote the well-being of our members.

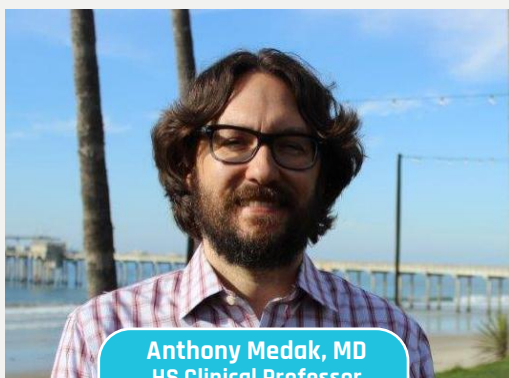
Promotions to Full Professor



Edward Castillo, PhD
Adjunct Professor
Research



Chris Kahn, MD
Professor of Clinical EM
EMS



Anthony Medak, MD
HS Clinical Professor
Ultrasound



Leslie Oyama, MD
HS Clinical Professor
Residency Program Director

New Academic Faculty



Jenny Farah, MD

- College: USF | Biology
- Medical School: USC
- Residency: USC Medical Center + Los Angeles County
- Fellowship: UC San Diego | EMS & Disaster Medicine

■ Jenny joins us after completing her EMS Fellowship right here at UC San Diego. As a fellow, she did an outstanding job (receiving kudos from the City Fire Chief and County EMS Director) and we were lucky enough to convince her to stay on. Prior to that time, Jenny completed her residency at USC, and BS degree in Biology at USF. As faculty, Jenny is off and running, assuming duties as medical director for Chula Vista Fire, San Diego Fire-Rescue Paramedic Program, and our UCSD Base Station.



Sukh Singh, MD

- College: Cal State Fresno | Chemistry
- Medical School: UC Davis
- Residency: Baystate Medical Center
- Fellowship: Baystate Medical Center | Emergency Medicine Ultrasound

■ Sukh was originally born in Punjab, India, but grew up in California's Central Valley. After getting his undergraduate degree at Fresno State and medical degree at UC Davis, he completed his training in EM and fellowship training in Clinical Ultrasound at Baystate Medical Center in Massachusetts where he was on faculty for a few years. He returned to San Diego and now joins our UCSD DEM family and also serves as Ultrasound Director at the El Centro ED.



Dan Lasoff, MD

- College: Northwestern University | Economics
- Medical School: Univ of Illinois
- Residency: UCSD
- Fellowship: UCSD | Toxicology

■ Dan grew up on the East Coast and completed his initial education in the Midwest, earning an Economics degree from Northwestern and his medical degree from the University of Illinois. He then completed his EM residency and Clinical Toxicology Fellowship here at UCSD, staying on now as core faculty for the Division of Medical Toxicology. Dan is off and running having recently secured 2 research grants to initiate MAT (Medically-Assisted Treatment) in the ED for patients addicted to opiates.

Clinical Care

Clinical Operations at the UCSD Department of Emergency Medicine continues to grow in total volume despite reported census reductions at other regional hospitals. The Hillcrest and La Jolla EDs are seeing a combined census of well over 80k visits a year, including increased volumes in our Senior Emergency Care Unit (SECU)- our accredited geriatric ED. Our El Centro Emergency Department saw over 46k patients last year and has also been accredited as a geriatric emergency department this year. The acuity level of the El Centro ED patients is up with an admission rate about 50% higher than just 4 years earlier.

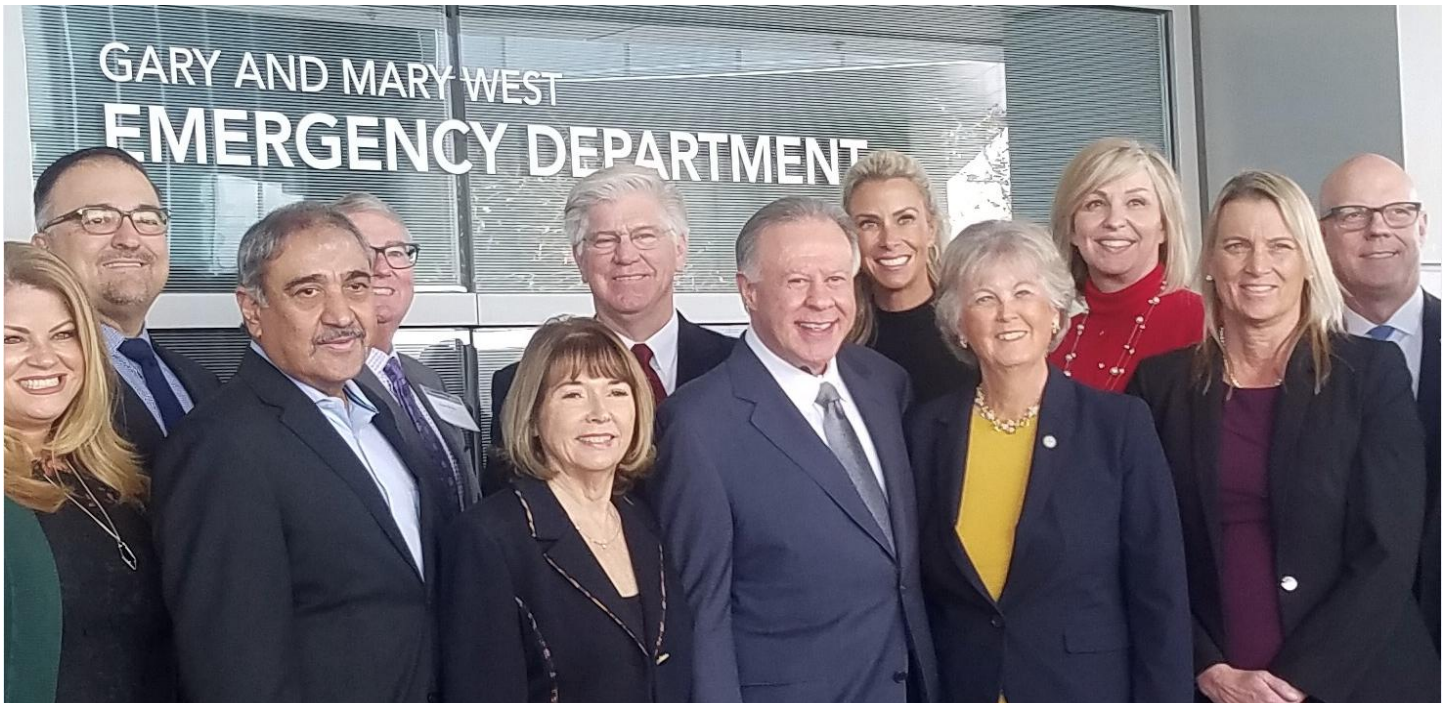
Our EM faculty are also engaged in getting the VA Emergency Department accredited as well as a geriatric ED. In our first year as an accredited geriatric ED at La Jolla, we demonstrated a reduction in readmissions by 20%. Our urgent care volumes at La Jolla and Rancho Bernardo have been hitting record volumes this past year, recently caring for over 100 patients a day at the two sites, and seeing over 37k patients last year. We have expanded our observation program at the La Jolla ED and are seeing increased growth in this population as well. This year we introduced a collaborative and integrative approach to managing oncology patients in observation to facilitate more efficient care and reduce inpatient admissions. Overall, the past year has seen positive upward trends at all clinical growth levels.



Gary Vilke, MD

Vice-Chair, Clinical Services

Gary & Mary West Senior Emergency Care Unit



Gary and Mary West, County Supervisor Dianne Jacobs, Chancellor Pradeep Khosla, UCSD Health CEO Patty Maysent and our San Diego hospital leaders at the JMC Gary & Mary West Senior Emergency Care Unit.

Revolutionizing Emergency Care for Seniors in the San Diego Region, Across California, and in the Nation

By Vaishal Tolia, ED & SECU Medical Director

Thanks to the visionary leadership and generosity of Gary and Mary West, UCSD Emergency Medicine is leading the nation in improving and revolutionizing care for seniors in the ED.

February 19th marked the grand opening of the Gary and Mary West Senior Emergency Care Unit in the ED at UCSD Jacobs Medical Center in La Jolla. This state-of-the-art unit, designed specifically to meet the needs of older patients in the ED is only one of 3 initially designated “Gold” level Geriatric EDs accredited by ACEP across the nation, and the only such institution in California. To mark the occasion, featured speakers at the ribbon cutting included Congressman Scott Peters,

San Diego Council President Pro Tem Barbara Bry, UCSD Chancellor Pradeep Khosla, WestHealth CEO Shelley Lyford, UCSD Health CEO Patty Maysent, and of course Gary West.

UCSD DEM is also leading a UC-wide initiative to improve Senior Emergency Care across all our sister UC campuses including UCLA, Irvine, Davis, and UCSF. This \$3million grant project (funded by West Health) will improve care across California over the next 3 years to reach the same level we have attained here at UCSD Health. To launch this initiative, we held a “GED Bootcamp” for our sister campuses that included ED, geriatric and other ancillary services from across the UC health campuses.

Our Department, in collaboration with San Diego County and West Health is also leading the initiative to improve senior care in EDs across our County. Spearheaded by County Supervisor Dianne Jacobs, leaders from all major health institutions including the VA, Sharp, ScrippsHealth, Kaiser, VA, TriCity, Palomar, and Alvarado to name a few, signed a pledge at UCSD to achieve GED accreditation in the next 18 months.

With our rapidly aging population, UCSD DEM is proud to lead these innovative efforts as a model for other institutions across our country, in California, and in our community here in San Diego.

Ribbon Cutting

Gary and Mary West Senior Emergency Care Unit

February 19th, 2019 marked the grand opening of the Gary and Mary West Senior Emergency Care Unit at UC San Diego Health. The day was celebrated with a ribbon-cutting ceremony and tours of the new facility.

Attendees included U.S. Congressman Scott Peters, Council President Barbara Bry, Gary and Mary West, UCSD Chancellor Pradeep Khosla, Vice Chancellor for Health Sciences David Brenner, West Health CEO Shelley Lyford, and UCSD Health CEO Patty Maysent.



Council President pro Tern Barbara Bry presenting Gary & Mary West with a proclamation that February 19th is "Gary & Mary West Day" in the City of San Diego.



Dr. Zia Agha and Gary and Mary West at the Ribbon Cutting Ceremony for the SECU.



Gary and Mary West with Aaron Chang, the photographer responsible for all of the beautiful artwork in the newly opened SECU.



The
SECU
in the
News:

THE
WALL STREET
JOURNAL



The San Diego
Union-Tribune



SAN DIEGO
BUSINESS
JOURNAL

KUSI
NEWS



The SECU featured on the American Spanish-language television network, Univision.

JOURNAL REPORT | ENCORE



than 100 are in the process of getting accredited nationwide, according to ACEP's Dr. Biese.

At the UC San Diego facility in La Jolla, the geriatric ER occupies a separate space with sound-absorbing walls, a lighting system that orients patients to the time of day to combat delirium—a common condition for older adults in hospitals—and non-slip flooring to protect against falls.

"Many of the structural elements are meant for safety and to provide a soothing environment for them and their families," says Dr. Vaishal Tolia, head of the UC San Diego unit.

Geriatric ERs typically rely on a multidisciplinary team with advanced training. At the UC San Diego unit, nurses trained in geriatric care screen patients for issues such as cognitive impairment, depression, elder abuse and fall risk. These nurses are empowered to pull in case managers, social workers, nutritionists, physical therapists and, in some cases, palliative-care specialists. Pharmacists

will consult on drug side effects and interactions, since seniors are often taking several medications.

Mark Rosenberg, chair of emergency medicine at St. Joseph's Health in Paterson, says he was thinking about his elderly mother when he established one of the first dedicated geriatric emergency rooms in 2009. His mother made numerous trips to an ER in her South Florida community in 2005 following treatment for an aortic aneurysm.

"Every time she would go there, she was afraid," Dr. Rosenberg says. "She was either near somebody who was a drug overdose, a stabbing victim or a crying child, and she hated it so much that sometimes she would even leave, against medical advice."

In the 20-bed emergency room for seniors at St. Joseph's, the goal is to have no patient wait longer than 14 minutes to be seen, Dr. Rosenberg says. Care providers have geriatric training and conduct risk assessments for factors like dementia and dietary problems that might worsen patients' health problems. These providers can make referrals to specialists and connect patients to community resources like Meals on Wheels.

The unit has age-friendly design elements, such as thicker mattresses for frail bodies, and pleasant lighting. It also features creature comforts from aromatherapy and books to live harp music.

A typical stay is about four hours, says Dr. Rosenberg. "So we wanted them to be comfortable and have whatever they needed, just like they were in the first-class cabin of a high-class airline."

Ms. Howard is a writer in Charlotte, N.C. She can be reached at ms.howard@wsj.com.

Emergency Rooms Get a Makeover for The Elderly

Traditional ERs are ill-suited to geriatric patients—who find it hard to bounce back after a visit to the hospital

BY BETH HOWARD

Marcus Overton isn't a stranger to emergency rooms—and he doesn't like them.

"They're chaotic and loud," says the 75-year-old San Diego resident, who battles diabetes and heart-valve problems. "They usually put you in a bed, pull a curtain around you, and you wait."

But last month, the former actor and arts administrator sought treatment for shortness of breath at an ER designed for elderly patients and their families. It was a wholly different experience.

"It's quiet," he says of the 11-bed unit at UC San Diego Health in La Jolla, Calif. "You're in a room where you can look at a beautiful mural and doze in between visits from the folks who are trying to find out what is wrong with you."

ERs designed for seniors are being created across the country. Hospitals with geriatric emergency departments

27%

The jump in ER visits by people over 65 from 2005 to 2015, according to the Centers for Disease Control and Prevention. The increase is helping spur the growth of ERs designed for seniors.

son, N.J., Holy Cross Hospital in Silver Spring, Md., five **Aurora Health Care** hospitals in eastern Wisconsin, and Mount Sinai Health System in New York. And more such centers are expected as the retirement-age population continues to increase. Visits to emergency rooms by people over age 65 rose by more than 27% from 2005 to 2015, according to the Centers for Disease Control and Prevention.

"There's a growing awareness that the traditional design of emergency-department care isn't well suited to frail, older adults," says Kevin J. Biese, an emergency-medicine physician who heads the new Geriatric ED Accreditation Board of the American College of Emergency Physicians, or ACEP.

Emergency care was designed for things like heart attacks and gunshot wounds, Dr. Biese says, but seniors tend to present with complications from conditions like diabetes and heart failure, and injuries from falls. While any ER can treat heart issues and broken bones, geriatric ERs also look at the context of the emergency. In the case of a fall, for example, the staff typically will investigate its cause, such as a medication side effect or sign of a medical condition, check a patient's balance and

The geriatric ER at UC San Diego Health in La Jolla, Calif., includes private examination rooms (unlike the spaces partitioned by curtains in most hospital ERs), which helps to buffer sounds. Rooms also feature murals of relaxing, peaceful scenes.

A key goal of geriatric ERs is to save the patients from being admitted to the hospital, where they face a greater risk for hospital-acquired infections, delirium and falls. Even short hospitalizations can have detrimental long-term effects.

"Older patients tend to not bounce back as well if they're admitted to the hospital the way a younger person would have," says Denise Nassasi, director of the geriatric emergency department at Mount Sinai. "They will often lose one of their activities of daily living, perhaps irreversibly."

To prevent a potential downward spiral, staff of a geriatric ER might instruct a social worker to assess a patient's home for problems like rugs that can cause falls. Doctors might prescribe a visiting-nurse service so a patient can receive IV antibiotics at home, or a stint in a rehabilitation facility.

So far, more than 50 geriatric emergency departments have earned the Geriatric Emergency Department

UCSD's Gary and Mary West SECU was featured in the Wall Street Journal in April 2019.

Education



2019 Stats

41 Residents

24 Fellows

186 Medical Students*

* Rotated in 2019



UCSD DEM at CORD 2019

Congratulations to CORD 2019 CPC Divisional Runner Up Winner Dr. Frannie Rudolf and Faculty Discussant Winner Dr. Kristy Schwartz.

Education Updates

Welcome Party!

EM residents gather at the Annual Department Welcome Party for new residents, fellows and faculty at the Mission Bay Yacht Club.



Binh Ly, MD

Vice-Chair, Education

Educational programs in the Department of Emergency Medicine (DEM) continues to expand and evolve. As we close the decade in 2019, the number of trainees completing our residency and fellowship programs as well as students from the School of Medicine (SOM)

rotating through our ED and subspecialty divisions surpassed all other years in the history of the Department. Currently, we are offering training in 11 subspecialty fellowship disciplines with 24 total fellows, nine School of Medicine courses that are primarily directed by faculty members of the DEM, and 41 residents.

To provide perspective from 20 years ago when I first joined the faculty, we only offered 3 subspecialty fellowships each recruiting 1 fellow per year, 1 sub-internship in EM, and the total complement of residents was 18. This tremendous growth is largely due to expansions of the ED footprint in both Hillcrest and La Jolla and also the success of faculty leadership at the medical center, UCSD SOM, and the San Diego and Imperial Counties. Some faculty DEM faculty also enjoy dual appointments in the Departments of Medicine (Hospital Medicine, Pulmonary Critical Care, Biomedical Informatics), Pediatrics (EM), With growth of our clinical and educational programs, the UCSD DEM has amassed a robust and talented group of clinician educators and academicians. As we embark on a new decade the DEM is poised to shape the future of emergency care through the domains of innovation, research and education.



Women in Emergency Medicine (WEM)

The Women in Internal Medicine (WIM) and WEM came together to host an evening of mentorship and mingling. A panel of UCSD women in medicine discussed work-life balance in the realms of clinical care, research, personal life and advocacy obligations. Panelists included Dr. Karen Van Hoesen, Emergency Medicine/Hyperbaric Medicine/Wilderness Medicine and a graduate of the first UCSD EM residency class, Dr. Tricia Santos Cavaola, Internal Medicine/Endocrinology and a diabetes advocate, and Dr. Kristy Schwartz, Emergency Medicine/Pediatric Emergency Medicine and an advocate of children's health/preventative care. These events are held quarterly and are open for all to attend.



UCSD SOM Showdown

The UCSD School of Medicine's EM Interest Group held its 2nd annual "EM Subspecialty Showdown" on October 2, 2019. Eight UCSD DEM fellowships were represented, including: Ultrasound, Anesthesia Critical Care, Toxicology, Wilderness Medicine, Education, Research, EMS, & Hyperbaric Medicine.

UCSD DEM Ultrasound and EMS divisions won for the "Most Informative" and "Most Entertaining" awards, respectively. Way to go! Pictured here are Jenny Farah and Sukh Singh.

**FOR MORE INFORMATION ON OUR RESIDENCY
& OTHER TRAINING PROGRAMS, PLEASE
VISIT:**

<https://medschool.ucsd.edu/som/emergency-med>

Residency Updates

UCSD Department of Emergency Medicine Residency Program continues onward with our mission of offering a top-notch breadth and depth of experiences to train the best and brightest EM doctors and future leaders in our field. Our clinical experiences span from our home institution with exposure to numerous EM specialties (10 fellowships) & the new Gary and Mary West Senior Emergency Care Unit at Thornton, two community experiences at Palomar and Tri City, a rural experience at El Centro, a longitudinal Pediatric EM experience at Rady Children's hospital and the Veteran's Administration hospital in San Diego. The diversity of these experiences offers a rich exposure to the breadth of the different practice settings affording our residents the opportunity to explore the variety of what EM offers while in residency.

Our curricular innovations have integrated modern teaching techniques including paired faculty/resident core lectures, flipped classrooms, interactive lectures and small group learning. Additionally, we have new initiatives focused on Diversity and Inclusion, social determinants of health care and wellness/resilience. These groups have initiated a visiting medical student scholarship for under-represented minorities, a Social EM Journal Club, and wellness activities (women in EM, men in EM, and families in EM) respectively. Our residents have initiated community outreach efforts including beach clean-up and homeless clothing/toiletries drive. Finally, we continue to support and

foster the many interests our residents have including amazing opportunities to grow their specific interests in EM including high altitude medicine at Everest Base Camp, Aerospace Medicine, Health Care sustainability, EM in Berlin, Cape Town, Chamonix Mt. Blanc, China, Kathmandu and Vietnam.



Ashely Alker

Congratulations to resident Ashely Alker for winning several awards in 2019:

- Essentials of EM Education Audio Podcast Fellowship
- AWAEM Outstanding Resident Award
- EMcrit Fellowship Award

- PGY3 Mike Self, SAEM, Las Vegas, "The Impact of Age on Sepsis Revisits and Readmissions."
- PGY3 Eileen Shi, ACEP San Diego, "Impact of specialized geriatric care coordination within a senior emergency care unit"
- PGY1 Nico Kahl, CORD 2020 New York, "Simulation First 5 for EM Interns: Critical Actions in Managing Unstable Patients"



UCSD DEM Flag Football

Crew of nurses, techs, pharmacists, and docs joined together for a game of flag football.



Leslie Oyama, MD
Residency Program Director

Presentations

- PGY4 Jess Brice, FeminEM, FIX 2019, "Bridging the Divide". <https://feminem.org/2019/04/24/bridging-the-divide/>
- PGY4 Sam McGlone, ACEP, San Diego, Meclizine Prescriptions in the Emergency Department and Return Visits in an Elderly Population
- PGY4 Vishnu Parthasarathy, SAEM Western Regional, Psychosocial Factors Affecting ED MRI Use for Lower Back Pain
- PGY3 Emily Sbiroli, FeminEM, FIX 2019, "On the Front Lines of Climate Change." <https://feminem.org/podcast/on-the-front-lines-of-climate-change/>
- PGY3 Emily Sbiroli, Cal ACEP Lightening Talk 2019
- PGY3 Dennis Liu, SAEM Indianapolis, "Evaluating vancomycin and piperacillin-tazobactam in emergency department patients with severe sepsis and septic shock"
- PGY3 Rahul Nene, ACEP, San Diego, "EM Department Patients with Cancer"
- PGY3 Rahul Nene, Oncologic Emergencies, MD Anderson Houston, "ED Patients with cancer: How do outcomes at NCI designated hospitals compare to the general population."



Dr. Emily Sbiroli (on left) with Dr. Amy Collins and Dr. Hilary Ong after receiving the Health Care Without Harm's Emerging Physician Leader award.



Awards

- PGY3 Emily Sbiroli, Health Care Without Harm's Emerging Physician Leader Award for her work on climate-smart health care and vision for a sustainable future.
- PGY3 Emily Sbiroli, SAEM Chair of Education, Climate Change & Health Interest Group
- PGY2 Morgan Carlile, EMRA Vice Chair Clinical Informatics Committee

Meet our New Class of Residents



Class of 2023

Back Row | Medical School | Interests

Jake Del Rosso | USC | Surfing, birdwatching, lord of the rings, cooking, piano, photography, aviation

Alex Anshus | UC Irvine | Volleyball, surfing, snowboarding, wakeboarding, hiking, scuba diving, guitar, photography, daydreaming about breakfast burritos

Robert Shrake | Univ Nevada, Reno | Spending time with family, mountain biking, skiing, climbing, cooking, going to the beach, and working on cars and bikes

Nico Kahl | UC Irvine | Beach volleyball, snowboarding, hiking, SCUBA, Italian cuisine, HIIT, musical vocals and guitar, traveling

Niels Naimon | Eastern Virginia | Hiking, rock climbing, kayaking, camping, pretty much anything outside, cooking, food of any kind

Matt Mason | Virginia Commonwealth Univ | climbing, botany, creative writing, surfing

Front Row | Medical School | Interests

Jessica Holdaway | Univ Rochester | Hanging out with my family and dog, running, water skiing, playing piano, learning languages, board games

Emily Pott | USC | Fitness (find me at Barry's Bootcamp), skiing, hiking, country music, Italian cooking, and finding new restaurants

Julia Sobel | Univ Arizona, Tuscon | Hanging with any and all dogs, but especially my dog (Goose). Exploring San Diego with my husband. Running, hiking, camping, drawing, international travel

Rachel Spann | Tulane Univ | Travel, food, live music, current events, podcasts, beaches, hiking, crawfish boils, parades, and talking to my pets as if they were little humans

Maya Stawnychy | Rutgers | Skiing, surfing, photography and videography, impromptu road trips, exploring new places, traveling, and anything that involves being outdoors

Fellowship Updates

The number of fellowship offerings available through the UC San Diego Department of Emergency Medicine (DEM) continues to not only be top tier in quantity but also in quality producing graduates that go on to practice and obtain leadership positions in all practice settings whether it be academic, public, private, urban, or rural

In 2019, the Clinical Research fellowship saw a transition in leadership from Dr. Gary Vilke who was at the helm of the program for a decade since its inception in 2009 to Dr. Chris Coyne. Dr. Coyne boasts an impressive training pedigree. He completed residency training at Los Angeles County/USC in 2014 and subsequently completed our Clinical Research fellowship in 2016. While in fellowship, Dr. Coyne was also concurrently completed a Masters in Public Health (epidemiology) from San Diego State University and is now poised to advance the fellowship into a very bright future.

Otherwise all of our other fellowships enjoy a stellar reputation nationally and continue to successfully recruit highly qualified residency graduates from across the country into their respective programs. The success of our fellowship programs is emblematic of both the breadth and depth of faculty expertise in the DEM at UC San Diego and this diversity continues to be a

priority as we continue to grow our faculty.

In addition to training fellows our several of our fellowships consistently offer rotations to trainees from other specialties (pediatrics, internal medicine, occupational medicine, critical care) and other institutions in the region (UC Irvine, UCLA, UCSF, Eisenhower Medical Center in Palm Springs, Kawaeh Delta Medical Center in Visalia.

Fellowship	Program Leadership	Positions
1. Clinical informatics*	Jim Killeen, MD	2
2. Clinical Research	Chris Coyne, MD	1
3. Critical Care - Anesthesia*	Christopher "Kit" Tainter, MD	2
4. Critical Care - Medicine*	Gabe Wardi, MD	1
5. EMS/Disaster*	Chris Kahn, MD	1
6. Medical Education	Steve Hayden, MD	1
7. Medical Toxicology*	Alicia Minns, MD	4
8. Pediatric Emergency Medicine*	Paul Ishimine, MD	8
9. Ultrasound	Amir Aminlari, MD	1
10. Undersea and Hyperbaric Medicine*	Charlotte Sadler, MD	4
11. Wilderness Medicine	Christanne Coffey, MD	1
*denotes ACGME accredited program		

Medical Student Updates

The UCSD DEM offers longitudinal experiences in Emergency Medicine at the UCSD School of Medicine (SOM) throughout the medical school curriculum. The DEM hosts several dedicated elective EM courses available to 1st, 2nd, 3rd and 4th year medical students, as well as clinical shadowing opportunities via the UCSD Emergency Medicine Interest Group (EMIG). EMIG also organizes highly popular lunchtime lectures and workshops (featuring UCSD DEM faculty, fellows & residents) on campus throughout the academic year. Multiple UCSD DEM faculty also volunteer as official Ambulatory Care Preceptors for 1st and 2nd year medical students: allowing them to regularly shadow their clinical shifts. The DEM ultrasound division formally teaches bedside US to all UCSD medical students in the 1st and 2nd year medical school curriculum; furthermore, many DEM faculty, fellows and residents teach simulation and procedure workshops during the required UCSD SOM 4th year Residency Bootcamp: a new month-long course organized by Dr. Gabe Wardi. Many medical students are also actively involved in learning activities and clinical research within each of the DEM divisions throughout medical school. Currently 15 UCSD 4th year medical students are applying to emergency medicine for residency, and over 20 3rd year medical students are strongly considering applying to EM for residency!

Course	Student Year	2019 Enrollment	Faculty Coordinator
1. Subinternship EM	4	74	Jorge Fernandez, MD
2. Clinical EM	3	36	Jorge Fernandez MD
3. Intro to EM	1-2	10	Jorge Fernandez MD
4. Toxicology	4	14	Aaron Schneur MD
5. Ultrasound	4	13	Anthony Medak MD
6. Undersea/Hyperbarics	4	6	Charlotte Sadler MD
7. Wilderness Medicine	1,4	19	Christanne Coffey MD
8. Multi-organ System Disorder	2	134	Chris Coyne MD
9. Transition to Residency	4	110	Gabe Wardi MD

Socially, the San Diego region continues to be a diverse community racially, ethnically, and economically. The National Institutes of Health has identified several groups of Underrepresented Minorities (URM) spanning race, ethnicity, or financially disadvantaged backgrounds. We feel that it is important to have physicians with backgrounds, training that allow them to empathize with the community they serve. As we seek to preserve and enhance our faculty diversity, the DEM has created a

scholarship for academically meritorious students from URM to defer some of the cost associated with doing clinical rotations in our department. We hope that this will translate into enhanced diversity in our residency and fellowship programs.

Our expert faculty continue to be recognized by students for their exceptional teaching. This past year Dr. Gabe Wardi (UCSD EM Class of 2015, UCSD Critical Care Medicine Class of 2017) was recognized with the prestigious Kaiser Excellence in Teaching Award by the UCSD School of Medicine (SOM) Class of 2019 at their commencement ceremony. Not to be outdone, Dr. Anthony Medak was also recognized with an "Award for Excellence in Teaching" by the SOM Class of 2021. Lastly, the Emergency Medicine Interest Group comprising of about 50 1st and 2nd year UCSD medical students recognized Drs. Jenny Farah (EMS) with the "Most Entertaining" and Dr. Suhkdeep Singh (ultrasound) with the "Most Informative" presentations at their annual EM Subspecialty Showdown. Congratulations to our award recipients! What an amazing collection of faculty we have in the UCSD DEM.

Meet our New Fellows



Brian Khan , MD
Clinical Informatics

■ Residency: Huntington
Hospital



Faith Quenzer , MD
Clinical Research

■ Residency: Desert Regional
Medical Center



Danny Dos Santos , MD
Critical Care

■ Residency: MCGovern Medical
School at UTHealth



Stephanie Benjamin, MD
EMS

■ Residency: UCSF- Fresno



Hideaki "Leo" Tanaka , MD
Hyperbaric Medicine

■ Residency: Wright State Univ



Kirsten Hornbeak , MD
Hyperbaric Medicine

■ Residency: Stanford



Frannie Rudolf , MD
Medical Education

■ Residency: UC San Diego



Sam Ontiveros , MD
Medical Toxicology

■ Residency: Univ of
Massachusetts



Priya Srihari, MD
Medical Toxicology

■ Residency: Maricopa Medical
Center



Danika Brodak , MD
Ultrasound

■ Residency: Medical Univ of
South Carolina



Mahmoud Sabha, MD
Hyperbaric Medicine

■ Residency: UT Southwestern
Medical Center



Damien Williams , MD
Hyperbaric Medicine

■ Residency: Walter Reed
National Military Medical
Center



Lauren Altschuh, MD
Wilderness Medicine

■ Residency: Wellspan York
Hospital

Division Updates

Clinical Informatics

Clinical Informatics has had a fantastic 2019! Christian Dameff our first ACGME fellow graduate has joined our department as faculty. He has become the Director Medical Cybersecurity and joined the ranks of our IS Physician faculty. Jeremy Bass continues his training and has assisted in many clinic “Go-Lives” including Student Health on campus. Brian Kahn is our new Internal Medicine fellow this year from Los Angeles. His interests lie in data and deep learning. Our Project successes this year includes the expansion of our learnings within the Mary and Gary West Senior Emergency Care Unit in La Jolla in which we assisting our sister UC institutions (UCI, UCLA, UCSF & UCD) to also become

ACEP accredited Level 1 GED centers of excellence. Leveraging our similar EMRs we are creating a UC-wide Senior Registry to assist and learn how to better care for our seniors. The fellows continue to assist our fellow departments in optimizing our teams time on computer so providers can continue to spend more Face to Face or Face to Video time with our patients.

The clinical informatics fellowship continues to innovate in the domains of healthcare technology, research, education and care delivery. Central to this mission is the close integration between our fellowship and UCSD Health’s Information Services, where our fellows rotate in various domains across the enterprise.



Clinical Informatics fellow Dr. Christian Dameff was invited to speak at the FDA annual summit in Washington DC regarding Medical Device Cybersecurity.

Cyber Security

At the third annual CyberMed Summit, the worlds first and largest clinically oriented healthcare cybersecurity conference, DEM faculty and residents utilized high fidelity simulations to model ransomware cyber attacks on hospitals. This effort raised international awareness and improved health care’s cyber resiliency.

- Click [HERE](#) for Union Tribune article
- Click [HERE](#) for KPBS article



EMS/Disaster Medicine

UCSD’s EMS and Disaster Medicine Division continues to show robust growth and national excellence. Faculty provide medical direction for the cities of San Diego and Chula Vista, Mercy Air, and the North County Dispatch JPA. We also serve as base hospital medical directors for UCSD-Hillcrest and El Centro Regional Medical Center. This year, we have developed new medical direction agreements with the National Park Service and the US Forest Service, and (through San Diego Fire-Rescue) the US Coast Guard. Division members have published well over a dozen articles in 2019, and have received honors such as winning the inaugural New Speaker Series competition at the National Association of EMS Physicians. A particular focus over the last year has been the further integration of prehospital and in-hospital records to improve continuity of care and in-hospital awareness of prehospital care, along with feedback from hospitals to prehospital providers. We are excited to provide excellent prehospital medicine and disaster

medicine training to our students, residents, and fellows, and to play an active role in researching, developing, and implementing evidence-based policies and protocols to provide optimal care to every person seeking prehospital care in the County of San Diego.



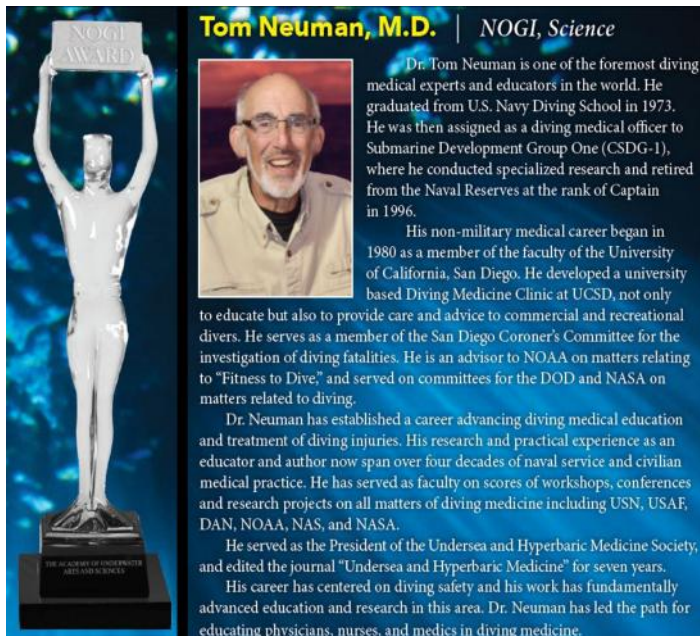
Hurricane Dorian

Disaster Medical Assistance Team (DMAT CA-4), including DEM faculty member Dr. Chris Kahn, returns from being deployed to Florida for Hurricane Dorian. (see image above)

- Click [HERE](#) to see the news coverage

Hyperbaric Medicine and Wound Care

This academic year is flying by! Our four fellows are doing an excellent job, and we as a division are involved in some exciting research. We have welcomed Dr. Peter Lindholm to our faculty as our new Ted and Michelle Gurnee Endowed Chair of Hyperbaric Medicine and Diving



Congratulations to Emeritus Professor Tom Neuman as he received the 2019 NOGI for Science at the Academy of Underwater Arts and Sciences this last November 2019.

Research. He is one of the world's experts on breath hold diving and has really hit the ground running. The division is involved in numerous research projects including the HOBIT trial. This trial is being conducted as part of the SIREN network, and it is looking at the early use of hyperbaric oxygen therapy in the critically ill, traumatic brain injured patient. We are currently open to enrollment for this study.

Dr. Lindholm and Dr. Sadler are working with the GI division on an NIH grant looking at the use of hyperbaric oxygen therapy for the treatment of inflammatory bowel disease. This is an exciting opportunity for our division and subspecialty!

At the end of October, UCSD hosted the UHMS Physician Training in Dive Medicine course under the direction of Dr. Peter Witucki. The course was formally held in Seattle but due to logistical reasons was relocated to San Diego this year. The course was a success, with a majority of the UCSD hyperbaric faculty lecturing and helping with the course. We are excited as the summer approaches because the UHMS Annual Scientific Meeting will be held in San Diego this year. We are looking forward to several presentations by our fellows and faculty at the upcoming conference.

Medical Toxicology

The Division of Medical Toxicology continued to set high standards of teaching and research for the DEM in academic year 18/19. Dan Lasoff was awarded two grants for opioid dependence treatment totaling more than \$300,000. This innovative approach provides funding for buprenorphine initiation and management. Faculty and fellows continue to publish manuscripts and present abstracts at national meetings such as the North American Congress of Clinical Toxicology, the American College of Medical Toxicology and the Society of Academic Emergency Medicine. The Division continues to be honored for its teaching skills as Rick Clark was awarded the DEM Medical Student Teaching Award and the Toxicology resident and student elective rotation remains one of the most highly rated within the School of Medicine.



Marijuana Tourists

DEM faculty, Dr. Richard Clark, featured on local public radio story on "marijuana tourists" visiting California.

■ Click [HERE](#) to see the news coverage

Road to Recovery for Opioid addicts

Dr. Dan Lasoff featured in San Diego Union Tribune article on how a trip to the Emergency Department can send opioid-addicted patients on the road to recovery.

■ Click [HERE](#) to see the news coverage



Pediatric Emergency Medicine

The Division of Pediatric Emergency Medicine (PEM) continues to play an active role in clinical care, education, and research. Kristy Schwartz MD, MPH, a PEM faculty member, was appointed to the position of assistant residency director of the UCSD EM residency program. The Division also continues to support the pediatric emergency medicine fellowship (in collaboration with the Department of Pediatrics). One of the four first-year fellows, Sarah Gomez MD, is a graduate from the emergency medicine residency at Oregon Health & Sciences University and has started to moonlight in the UCSD Urgent Care sites and in the El Centro ED.

PEM faculty helped plan the largest, regularly scheduled pediatric emergency medicine educational conference in California, the San Diego Regional Pediatric Emergency Medicine Conference, held in

August 2019. The faculty lead monthly pediatric simulation sessions for the residency program and annual PEM education and training for the EM faculty. Furthermore, Dr. Paul Ishimine was appointed to the ACGME Emergency Medicine Review Committee, which oversees the certification of emergency medicine residency and PEM fellowship programs nationwide.

The division faculty also continue to participate in important research collaborations. The largest of these research collaborations is a multi-year, multi-center collaboration seeking to validate the PECARN head and abdominal CT imaging rules in children who sustain traumatic injuries. Division faculty are also participating in the National Emergency Airway Registry (NEAR) research collaborative.

Ultrasound



On the way to Kumasi Regional Hospital in Ghana for the Emergency Medicine Boot Camp and Essential Ultrasound Course.

Our Ultrasound Division has grown steadily since its inception in 1999. We have a very dynamic division with nine core between four facilities. We cover UCSD medical centers, Rady Children's Hospital, El Centro Regional Medical Center and the VAMC of San Diego. Our faculty include Colleen Campbell as the Division Director, Anthony Medak as the Director of Medical Student Ultrasound Education. This position has grown significantly as we now teach all first and second year as well as fourth year UCSD Medical Students point of care as part of their core curriculum. Atim Uya as the Director of Ultrasound at Rady Children's Hospital, and Sukh Singh as the Director of Ultrasound at El Centro Regional Center.

Our fellowship started in 2010 originally with Colleen Campbell as the first fellowship director. Amir Aminlari is currently the Fellowship Director and is assisted by Rachna Subramony and Sukhdeep Singh. At VA, Lisa Lowe and Adam Nadolski have had a successful effort to create emergency ultrasound training. Cameron Smyres has been essential in our efforts to share this ultrasound knowledge in the international arena and fulfill our philanthropic goals of giving physicians critical tools to aid in diagnosis and treatment. Colleen Campbell completed our first trip

in 2012 to Mozambique, and since then we have taught in many other countries including Peru, Ghana, Mexico and Uganda. We are very excited to continue with these efforts around the world, as pre-med students, medical students, residents, fellows and attending physicians alike are involved in these efforts.

We also love to teach at home and have successfully trained our emergency nurses in ultrasound guided peripheral vein access and have put on courses for our hospitalists as well as in the community. We all participated in the UCSD Ultrasound Summit as well as Bread and Butter Ultrasound, which is organized by one of our brilliant fellow alumni Michael Macias. He also created our website: <https://emultrasound.sdsc.edu>

Both residents and medical students alike enjoy their electives in Emergency Ultrasound. Rotations with us include scanning time with Fellows and Attending Ultrasound faculty and Wednesday weekly Image review as well as journal review. Our residents are certified with over 150 scans acquired during residency. Research is ongoing in pulmonary embolus, and aspects of International Ultrasound including Sterile versus Non-Sterile Gel and the effects of learning ultrasound in resource limited environments on quality of patient care.

We look forward to many happy scanning days ahead!



Platinum Award

Congratulations to the Emergency Medicine Ultrasound Division who was 1 of only 4 medical schools programs to be awarded the Platinum Award from Clarius Mobile Health.

■ Click [HERE](#) to learn more about the award

Meet our New Clinical Faculty



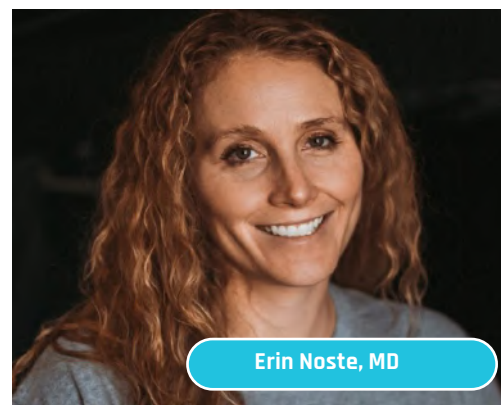
Cristina Hernandez, MD

- College: Stony Brook Univ | European History
- Medical School: Stony Brook Univ
- Residency: Stony Brook Univ Hospital
- Cristina attends at UCSD and El Centro, having previously been faculty at SUNY Stony Brook



Jesse Guittard, MD

- College: UC San Diego | History
- Graduate: Stanford | MBA
- Medical School: Tulane University
- Residency: UC San Diego
- Jesse staffs the VA and UCSD



Erin Noste, MD

- College: UC Santa Barbara | Biochemistry
- Medical School: UC Davis
- Residency: Carolinas Medical Center
- Fellowship: Carolina's Medical Center | Operational and Disaster Medicine, Emergency Medical Services.
- Erin joins us from Carolinas Medical Center. She attends at both UCSD & El Centro



Maria Pelucio, MD

- College: Univ of Pittsburgh | Anthropology
- Medical School: Boston University
- Residency: George Washington - Georgetown
- After many years at Carolinas, Maria joined UCSD & the VA this year



Cameron Smyres, MD

- College: Brigham Young Univ | Nutritional Science
- Medical School: Univ of Utah
- Residency: UC San Diego
- Fellowship: UC San Diego | Ultrasound
- Cameron primarily staffs El Centro and UCSD



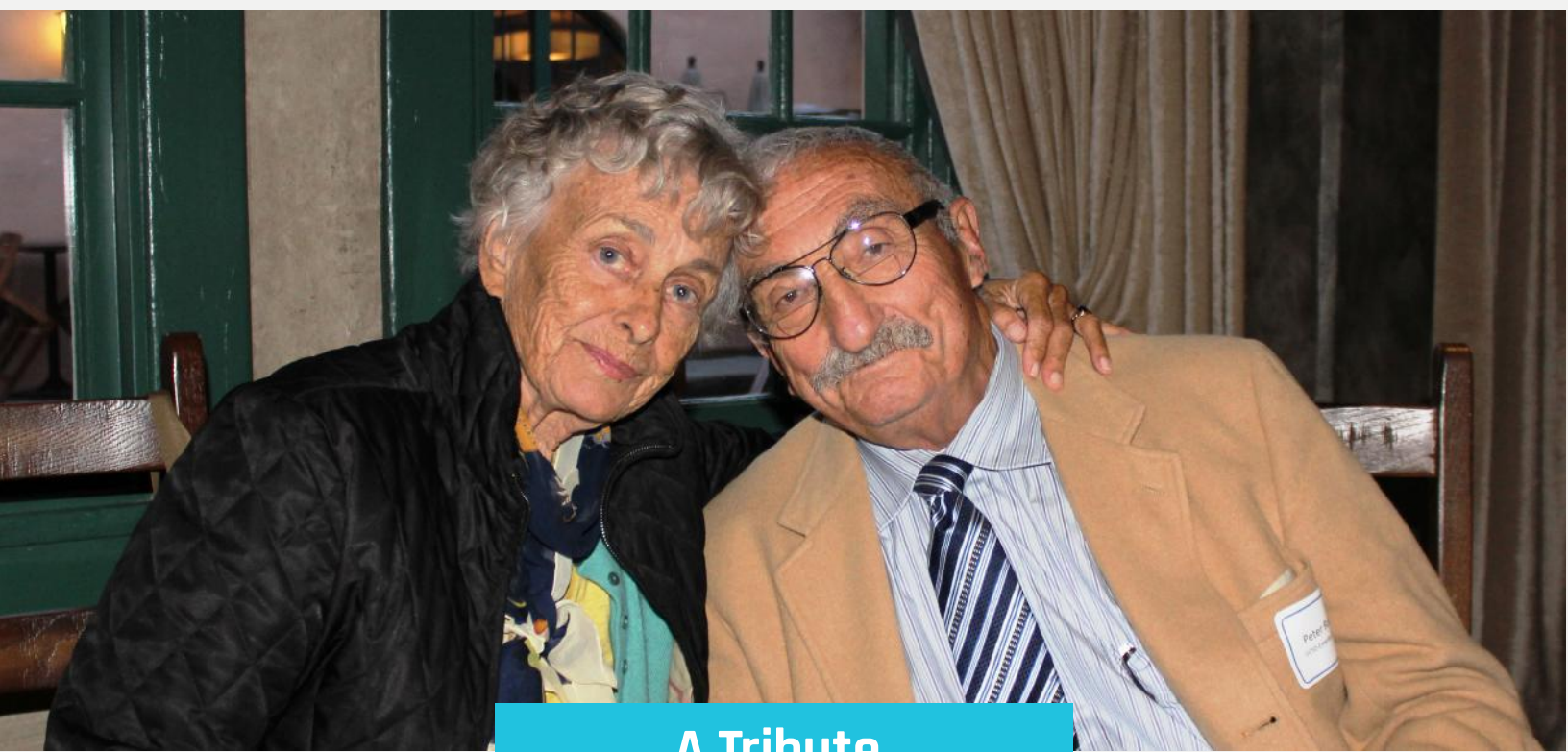
Rachna Subramony, MD

- College: Rensselaer Polytechnic Institute | Biology
- Medical School: Albany Medical College
- Residency: North Shore University Hospital
- Fellowship: Univ of Massachusetts | Ultrasound
- Rachna staffs UCSD and El Centro



Jessica Oswald, MD

- College: UC Santa Cruz | Business Management
- Graduate School: West Virginia Univ | MPH
- Medical School: Medical College of Wisconsin
- Residency: UC Los Angeles-Ronald Reagan
- Fellowship: UC San Diego | Pain Medicine
- Jessica will staff UCSD ED's as well as the Anesthesiology Pain Clinic service



A Tribute

Dr. Peter Rosen

1935 - 2019

By Ted Chan



Dr. Rosen in Big Horn River Canyon, 1969.



DEM Faculty Binh Ly, Peter and Steve Hayden on a sailing trip to Catalina Island, 1998.



Chicago, IL, 1973

On November 11, 2019 Peter Rosen, MD, UCSD DEM Professor Emeritus, passed away at the age of 84 at his home surrounded by his wife Ann and family. As you all know, Peter was one of the founding fathers of our specialty, playing seminal roles in the establishment of our profession in the House of Medicine, as well as the development of Emergency Medicine training programs throughout the country. Here at UC San Diego, he served as Program Director and Director of Education during the early years of our residency program in the 1990s, providing immediate credibility, visibility, and recognition for our nascent program at that time.

Peter was born on August 3, 1935 in Brooklyn, NY, where he was raised by his parents Theodore & Jesse, along with his sister Suzanne. He entered college at age 16 at the University of Chicago, followed by medical school at Washington University in St. Louis, where he met and married his life partner Helen Ann Ledford.

He completed his internship at the University of Chicago Hospitals & Clinics, followed by a general surgery residency at Highland County Hospital in Oakland, CA in 1965. Peter began his career in the military, serving 3 years in the US Army Medical Corp as a general surgeon in Germany. He then went on to private practice as a surgeon

in the midwest but found his true calling in caring for patients in the Emergency Department. In the early 1970s, he was appointed the Director of the Emergency Department at the University of Chicago, and quickly established one of the first training programs in the specialty at that institution. He went on to do the same at Denver General, before being recruited to UCSD in 1989.

At UCSD, Peter had a tremendous impact on our program and graduates – mentoring, advising, and guiding the professional careers and lives of many of us. During his tenure at UCSD, Peter was the first Emergency physician ever elected to the prestigious Institute of Medicine (now the National Academy of Medicine), perhaps the highest honor for an academic physician in this country. Peter authored literally hundreds of publications, serving as the founding Editor of the *Journal of Emergency Medicine*, and in 1983 launched the revolutionary textbook *Emergency Medicine – Concepts and Clinical Practice*, one of the seminal treatises of our specialty (now in its 9th edition and aptly renamed *Rosen's Emergency Medicine*).

In his later years, Peter continued to teach trainees throughout the country at Harvard, University of Arizona, and UCSD. As befitting the title “Father of Emergency Medicine” he was invited around the globe to lecture and teach on Emergency Medicine in Europe, Asia, and the Middle East.

For those of us who were fortunate enough to know him, Peter

will always be remembered for his gruff yet warm personality, outspokenness and humor (occasionally cringe-inducing), and truly caring mentorship and friendship. Peter is survived by his wife and partner of many decades, Ann, as well as four sons and four grandchildren.

Peter was a legendary figure for our specialty, transforming Emergency Medicine in this country and throughout the world. He leaves a tremendous legacy having enriched our profession and the lives of many of us. ■



Dr. Peter Rosen at Denver General Emergency Room photographed by Eugene Richards and included in his sixth book of photographs called: *The Knife and Gun Club: Scenes from an Emergency Room*.



Dr. Rosen with graduates from the UCSD Emergency Medicine residency classes of 1993 & 1994. Taken at the 2018 UCSD EM Residency Alumni Celebration in San Diego, CA. Shown: Todd Hanna (94'), Charles Simmons (94'), Roneet Lev (93'), Karen Van Hoesen (93'), Jim Dunford, Tom Peitz (94'), and Michelle Grad (94').



Giving the commemoration address for the opening of the new Emergency Room at Shaare Zedek Medical Center in Jerusalem, Israel, 2004.



Suzanne, Jesse, and Peter in Brooklyn, NY, 1944.

News & Accolades



UC San Diego
SCHOOL OF MEDICINE

The Award for Excellence in Teaching

Dr. Anthony Medak

Hereby recognized for excellence in teaching and mentoring medical students.

Mark Chert
Dean of the School of Medicine
UC San Diego School of Medicine

Kevin Ye
Class President, Class of 2021
UC San Diego School of Medicine



Accolades

Gabe Wardi

DEM faculty member Dr. Gabriel Wardi working with Dr. Shamim Nemati, Director of Predictive Health Analytics and an Assistant Professor of Biomedical Informatics, has been awarded a half-million dollar grant from the Gordon and Betty Moore Foundation through their Diagnostic Excellence Initiative aimed at reducing harm from erroneous or delayed diagnoses.

GORDON AND BETTY
MOORE
FOUNDATION



This funded proposal is titled SEP1+: A composite measure to accurately assess early sepsis management. In this proposal, Drs. Wardi and Nemati partner to design and develop an alternative machine learning-based composite measure to provide a data-driven and non-binary assessment of a hospital's compliance with bundled care for sepsis. Click [here](#) to learn more about the project.



Christian Dameff

Dr. Christian Dameff was selected as one of EMRA's 45 Under 45 Influencers in Emergency Medicine for 2019. To learn about EMRA, click [here](#).

Dr. Dameff was also appointed Medical Director of Cybersecurity for UC San Diego Health.



Dr. Rick Clark

DEM faculty member Dr. Rick Clark was awarded the 2019 UCSD Physician of the Year Award.

Dr. Stephen Hayden and Dr. Obiora Chidi

DEM professor Dr. Steve Hayden and DEM resident Dr. Obi Chidi were elected to serve on the San Diego Medical Society Board of Directors. Dr. Hayden will serve as one of the At-Large Directors and Dr. Chidi will serve as the Young Physician Director. Congratulations to both!



Rick Clark

Steve Hayden

Obi Chidi

Anthony Medak

Dr. Anthony Medak, DEM faculty member was awarded the "Award for Excellence in Teaching." This award is selected by medical students for one faculty member each year. This year the entire 2nd year medical students elected to give it to Dr. Medak.

News

- DEM Faculty members Drs. Chris Sloane and Gary Vilke have been selected as the inaugural co-EMS Medical Directors of the North San Diego County Dispatch Joint Powers Authority. The North San Diego County Dispatch Joint Powers Authority includes EMS/Fire agencies for Encinitas, Carlsbad, Oceanside, Rancho Santa Fe, Solana Beach, Vista, and Del Mar.
- UCSD DEM hosts inaugural San Diego Women in Emergency Medicine symposium attended by over 40 Emergency Physicians. Many thanks to DEM faculty Dr. Christanne Coffey, and DEM residents Dr. Emily Sbiroli and Dr. Megan Tresenriter for all their efforts in making the event happen!
- DEM Faculty Dr. Gary Vilke featured in San Diego Union Tribune article, "San Diego police leaders defend use of controversial neck restraint, despite continuing calls for a ban." To read article, click [here](#).
- Dr. Gary Vilke also featured in San Diego Business Journal article how the ED's deal with shortfalls in mental health care. To read article, click [here](#).
- UCSD Computer Scientist Professor and DEM Adjunct Professor Laurel Riek featured in an ScienceDaily feature on robots for dementia caregivers. To read article, click [here](#).
- DEM faculty Gary Vilke featured in Voice of San Diego article on homelessness. To read article, click [here](#).
- UC San Diego Health along with the Department of Emergency Medicine and Mount Sinai have announced a framework to promote innovation in EMS led by Emeritus Professor James Dunford who will serve as the project's co-director. To learn more, click [here](#).
- The UCSD Department of Emergency Medicine and Division of Medical Toxicology have been awarded a \$260,000 grant by the California Bridge Program, aimed at combating the opioid epidemic. The project is part of the Public Health Institute's ED-Bridge Program, that will fund increased access to opioid treatment programs and short and long term medication for opioid addicted individuals. The principle investigator at UCSD will be Dr. Daniel Lasoff, and other members of the Department and Division will be assisting. To read about the award, click [here](#).
- Clinical Informatics fellow Dr. Christian Dameff was invited to speak at the FDA annual summit in Washington DC regarding Medical Device Cybersecurity.
- UCSD DEM in collaboration with ECRMC only program in San Diego and Imperial Counties selected by State of California Department of Health Services for Cal Med Force grant supporting EM training programs in underserved regions.
- UCSD DEM (and ECRMC) selected by State of California and Public Health Institute for California Bridge Program grant to initiate Medication Assisted Treatment and Bridge program in ED to combat opiate epidemic crisis.
- Our very own Dr. Vaishal Tolia was on KUSI to discuss our new Senior Emergency Care Unit. To see interview, click [here](#).
- Christian Dameff, MD, Clinical Informatics authors Viewpoint article in JAMA on topic of Personal Health Records. To read article, click [here](#).
- Dr. Shaun Carstairs of the Division of Medical Toxicology was recently in the news for CNN commenting on the use of ondansetron in pregnancy. To read article, click [here](#).



UC San Diego DEM participates in county wide active shooter mass casualty drill at Rady Children's Hospital.



Newest Alumni

Class of 2019

Ashely Alker | Fredericksburg Emergency Medical Alliance, VA

Jesse Guittard | UCSD Faculty

Peter Solomon | Sharp Chula Vista

Obi Chidi | Sharp Chula Vista & Palomar Medical Center

Matt Nolan | Pioneer's Memorial Hospital, Brawley & Sharp Chula Vista

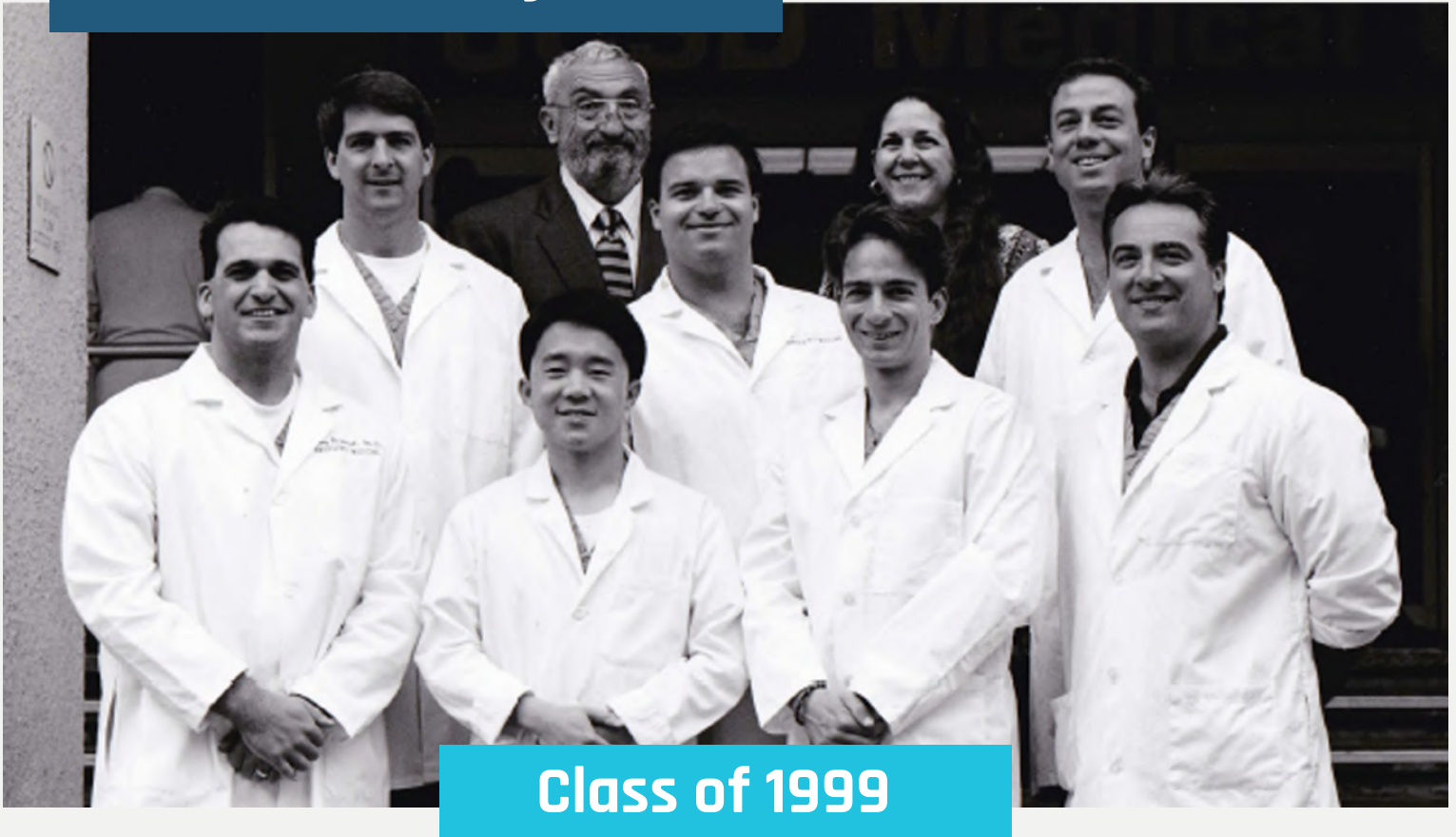
Trisha Morshed | Vituity, Modesto

Kelly DiLorenzo | Wilderness Medicine Fellowship, Univ Colorado

Heather Boynton | Pioneers Memorial Hospital, Brawley

Frannie Rudolf | Medical Education Fellowship, UC San Diego

Where Are They Now:



Class of 1999

- **Kenny Bramwell** - is Systems Medical Director for St. Luke's Children's Hospital in Boise, Idaho
- **Gordon Chew** - practices and is an administrative leader at Kaiser Vallejo Medical Center
- **Dan Davis** - is an EP at Catalina Island Medical Center and continues to run ART courses
- **Robert Hamilton** - practices in the ED at Mercy Medical Center and St. Elizabeth's hospital in Redding, CA, and also runs Prestige Regenerative Medicine.
- **Tom Moats** - continues to practice with Vituity at Palomar Medical Center.



Class of 2009

- **Shane Hamman** - practices as a Dermatologist with West Dermatology in La Jolla.
- **Mark Koenig** - practices as an EP at Sharp Chula Vista.
- **Cameron McFarland** - is an EP at Kaiser San Diego
- **Mike Nielsen** - practices at the VA Medical Center Emergency Department where is oversees our UCSD residents
- **Jeremy Peay** - practices at Sharp Memorial in San Diego
- **James Smithson** - practice in the ED at Sharp Memorial
- **Heather Villani** - works at Sharp Chula Vista
- **Sherry Yafai** - is an EP at Providence St. Johns Medical Center in Santa Monica and also runs the Releaf Institute focused on cannabis-based medicine.

To support the “UCSD Emergency Medicine Resident Alumni Fund” please go to:

<https://giveto.ucsd.edu/>

Research



Eddie Castillo, PhD
Director, Research Operations



Chris Coyne, MD
Director, Clinical Research

The UCSD DEM continues to be productive in the research arena by expanding both the depth and breadth of our projects. The Strategies to Innovate Emergency Care Clinical Trials Network (SIREN) projects continue to move forward, with our Hyperbarics Division currently enrolling patients for our first trial: Hyperbaric Oxygen Brain Injury Treatment (HOBIT). We were recently selected as a site for the next SIREN trial: Influence of Cooling Duration on Efficacy in Cardiac Arrest Patients (ICECAP). Dr. Gabriel Wardi (EM/CC) will be PI on this project, along with Dr. Rebecca Sell (Pulm/CC).

The Department recently completed a study with Konika-Minolta investigating a new point-of-care (POC) troponin device, and we are on the verge of a new study that will expand research on POC devices, while incorporating machine learning to improve diagnostic accuracy.

Research into the emergency care of cancer patients continues to move forward as well, with several projects ongoing and on the horizon. Dr. Coyne and Dr. Killeen

recently created a study evaluating an EMR best practice advisory to improve the care of cancer pain in the ED, and an upcoming collaboration with the school of engineering will bring robots into the ED to improve cancer pain assessments. Additionally, we are actively enrolling for the Emergency Medicine Palliative Care Access (EMPALLA) study, which is investigating novel methods to provide cancer patients with palliative services.

The Department also continues to provide student mentoring through a wide range of educational programs. We have maintained a high interest among UCSD medical students for Independent Study Projects (ISPs), as well as a few participating in the Medical Student Training in Aging Research (MSTAR) Program and Program in Medical Education – Health Equity (PRIME-HEq). We also support UCSD undergraduate students participating in the UCSD Faculty Mentor Program as well as candidates from multiple Master of Public Health Programs in the San Diego County.

2019 Presentations & Abstracts

SAEM19 | Las Vegas, NV May 14th - 17th, 2019

DEM Research Division in the News

NBC's Today show
features research
conducted by UC San
Diego (ED and Trauma)
co-authored by DEM
faculty Eddie Castillo PhD
regarding e-scooters.



Click [HERE](#) to read article

Please visit:

<https://medschool.ucsd.edu/som/emergency-med/research>

To learn more about our Research
Division

- Castillo EM, Brennan JJ, Hsia RY, Vilke GM, Killeen JP, Chan TC. Trends in Emergency Department Discharge from 2008 through 2016.
- Castillo EM, Crisman T, Brennan JJ, Tolia VM, Lesser A, Kreshak AA, Ko K. Impact of a Geriatric Nurse Intervention on Hospital Admissions from the Emergency Department.
- Coyne CJ, Al-Faraj D, Brennan JJ, Vilke GM. Marijuana Knowledge, Attitudes and Behaviors among Emergency Department Patients Following Legalization.
- Coyne CJ, Kettler EB, Brennan JJ. The Effects of a Morphine Shortage on Emergency Department Pain Control and Patient Satisfaction.
- Cronin AO, Chan TC, Brennan JJ, Vilke GM, Killeen JP, Hsia RY, Castillo EM. Trends in Drug and Alcohol Use from 2008 through 2016.
- Docter TA, Killeen JP, Tolia VM. Comparison of Length of Stay for Patients with High Sensitivity Troponin versus Standard Troponin.
- Ha EL, Coyne CJ. Repeat Venous Thromboembolism in Cancer Patients Presenting to the Emergency Department.
- Kreshak AA, Chan TC, Friedman LS, Castillo EM. Emergency Department Revisit and Readmission rates among a Medicare ACO population.
- Minns AB, Clark R, Castillo EM. Trends in Oral Anticoagulant Prescribing from the Emergency Department.
- Parthasarathy V. Psychosocial Factors Affecting Emergency Department Magnetic Resonance Imaging Use for Lower Back Pain.
- Tolia VM, Chan TC, Brennan JJ, Vilke GM, Castillo EM, Kreshak AA. The Impact of a Short Hospital Worker Strike on Emergency Department Utilization.
- Tolia VM, Kreshak AA, Brennan JJ, Wardi G, Chan TC, Hsia RY, Castillo EC. Description of Geriatric Patients Presenting to California Emergency Departments for a Fall-related Complaint.
- Vilke GM, Mash DC, Pardo M, Bozeman W, Hall C, Sloane C, Wilson MP, Coyne CJ, Xie X, Castillo EM. EXCITATION Study: Unexplained In-Custody Deaths: Evaluating Biomarkers of Stress and Agitation.
- Wardi G, Brennan J, Tolia V. The Impact of Age on Sepsis Revisits and Readmissions.

ACEP Research Forum | Denver, CO October 27th - 29th, 2019

- Coyne CJ, Simonsen E, Brennan J, Castillo EM, Vilke GM. Perceived Barriers to Universal HIV Screening Among Emergency Department Patients: Identifying the Population and Targeting Areas for Improvement.
- Ha EL, Brennan JJ, Birring P, Shah S, Coyne CJ. Synergy Among Virchow's Deadly Triad: Hypercoagulability Potentiates the Risk of Immobility Among Cancer Patients with an Acute Venous Thromboembolism.
- Ha EL, Brennan JJ, Birring P, Shah S, Coyne CJ. Should the Emergency Department Discharge Highly Morbid Cancer Patients Who Present with an Acute Venous Thromboembolism?
- Tolia VM, Castillo EM, Kreshak AA, Brennan JJ, Killeen JP, Crisman T, Chan TC. Impact of an Emergency Nurse Geriatric Specialist on Care Referrals for Seniors Seen in the Emergency Department.
- Wardi G, White J, Joel I, Tolia V, Castillo E, Meier A, Tainter C, Hsia R, Brennan J. Geriatric Sepsis Remains a Rapidly Rising Source of Health Care Utilization and Admissions.

- Wettersten N, Horiuchi Y, van Veldhuisen DJ, Mueller C, Filippatos G, Nowak R, Hogan C, Kontos MC, Cannon CM, Müller GA, Birkhahn R, Taub P, Vilke GM, Barnett D, McDonald K, Mahon N, Nuñez J, Briguori C, Passino C, Murray PT, Maisel A. B-type natriuretic peptide trend predicts clinical significance of worsening renal function in acute heart failure. *Eur J Heart Fail.* 2019 Dec;21(12):1553-1560.
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- Oswald J, Shahi V, Chakravarthy KV. Prospective case series on the use of peripheral nerve stimulation for focal mononeuropathy treatment. *Pain Manag.* 2019 Nov;9(6):551-558.
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- Kobayashi LM, Williams E, Brown CV, Emigh BJ, Bansal V, Badiee J, Checchi KD, Castillo EM, Doucet J. The e-merging e-pidemic of e-scooters. *Trauma Surg Acute Care Open.* 2019 Aug 29;4(1):e000337.
- Sadler C, Arefieva CAL, Duchnick J, Bermudez R, Witucki P, Shishlov K. Hyperbaric medicine simulation education curriculum: CNS toxicity during Treatment Table 6 and intubated ICU patient with mucous plugging. *Underssea Hyperb Med.* 2019 Jun-Jul-Aug - Third Quarter;46(4):467-481.
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