

Fall 2019

DEPARTMENT OF SURGERY NEWSLETTER

MESSAGE FROM THE CHAIR

The Department of Surgery has always been an integral part of UC Davis Health and it's success as the #1 Hospital in the Sacramento region. We were once again recognized recently with this tremendous accomplishment and feel privileged that not only was the hospital recognized but also the Children's Hospital as well. We were excited to be ranked in Cardiology and Heart Surgery, Pulmonology and Lung Surgery and high performing in gastroenterology and GI Surgery and Colon Cancer Surgery. Our team continues to serve our community in profound ways and I feel privileged to be part of this excellent team.

With pride,

Diana L. Farmer, M.D., F.A.C.S., F.R.C.S.
Distinguished Professor and Pearl Stamps Stewart Chair
Department of Surgery, UC Davis School of Medicine
Surgeon-in-Chief, UC Davis Children's Hospital



The Department of Surgery encompasses a wide variety of surgical specialties. These include bariatric surgery, burn surgery, colorectal surgery, cardiothoracic surgery, foregut surgery, hepatobiliary surgery, endocrine surgery, pediatric and fetal surgery, plastic surgery, transplant surgery, trauma, acute care and surgical critical care surgery, vascular surgery, and oncologic surgery. The department's extensive surgical expertise, in combination with ongoing teaching and research activities, provide ample resources and advanced surgical techniques for patient care.

NEW FACULTY

Welcome to our new faculty!



Dr. Sabrina Evans joined the Division of Cardiothoracic Surgery on July 1. Dr. Evans completed her medical degree at the University of Washington School of Medicine and is proud to be the inaugural member of the Integrated Cardiothoracic Residency Program here at UC Davis. She will be joining the adult cardiac surgery team and is excited to provide the highest quality patient-centered cardiothoracic surgical care.



Dr. Victoria Lyo joined the Division of Foregut, Metabolic, and Minimally Invasive Surgery on August 1. Dr. Lyo completed her medical degree and residency at UCSF followed by a Master of Translational Medicine from a joint program between UC Berkeley and UCSF. She recently completed her advanced GI and minimally invasive surgery fellowship at Oregon Health and Science University. Her training includes a broad case mix, including laparoscopic and robotic complex foregut, bariatric (bypass and sleeve), three-field esophagectomies, solid organ resection (adrenal, spleen, distal pancreas), hernias, and advanced endoscopic procedures.



Dr. Alana Beres joined the Division of Pediatric Surgery on September 1 from her appointment as Assistant Professor in the Department of Surgery at University of Texas, Southwestern Medical School. Dr. Beres completed her medical degree from McGill University followed by residency at University of Saskatchewan in Pediatrics, and in General Surgery at Tufts University and McGill University. She later received a Master of Public Health in Epidemiology from Harvard University. Her training also includes her fellowships at University of Toronto in Pediatrics Trauma Surgery and Critical Care, at the Children's National Medical Center in Pediatrics Surgical Innovation, and at the Montreal Children's Hospital in Pediatric Surgery.



Dr. Andrew Li joined the Division of Plastic and Reconstructive Surgery, in hand and microsurgery, on September 1. Dr. Li received his medical degree from UCSD School of Medicine followed by residency in general surgery at UCLA Harbor Medical Center. He completed fellowships at UCLA in Plastic and Reconstructive Surgery and at UC Irvine in Hand and Upper Extremity Microsurgery. He also is the co-founder of Second-Breath.org which distributes unused and unexpired medical supplies from private donors to community clinics and health centers in the greater Los Angeles area.



Dr. Tanya Rinderknecht joined the Division of Trauma, Acute Care Surgery and Surgical Critical Care on August 1. Dr. Rinderknecht received her medical degree from Brown University, Alpert Medical School, followed by residency at Stanford University Medical Center in General Surgery. During her residency she was employed as a medical fellow and designer for IDEO, a design and innovation firm where she worked in multiple design teams on innovation projects in health and healthcare. Following her general surgery residency, she completed a fellowship with us here at UC Davis Medical Center in Trauma and Surgical Critical Care.



Dr. Mimmie Kwong joined the Division of Vascular Surgery in a joint appointment with the VA on September 1. Dr. Kwong received her medical degree from Johns Hopkins University School of Medicine followed by residency at UC Davis Medical Center in Vascular Surgery. During her residency she served as the program representative in the Resident Medical Staff Committee as chief resident focusing on process improvement in the care of vascular patients, residents and medical student education and wellness. Additionally, she has presented research on the match process and published on factors that guide career decisions in young vascular surgeons.



Dr. Steven Maximus joined the Division of Vascular Surgery in a joint appointment with the VA on September 1. Dr. Maximus received his medical degree from UC Davis School of Medicine followed by residency at UC Irvine Medical Center in General Surgery. He then completed a fellowship at the University of Chicago in Vascular Surgery. His clinical research includes outcomes in endovascular aortic aneurysm repair as well as disparities in health care delivery. Before attending medical school, Dr. Maximus was a high school science and math teacher in Los Angeles and Pomona, CA.

U.S. NEWS RANKS UC DAVIS MEDICAL CENTER #1 IN SACRAMENTO

U.S. News & World Report has again ranked UC Davis Medical Center among the nation's top hospitals for 2019-20. The annual rankings, released July 30, recognize hospitals that excel in treating patients with the most serious and complex injuries and illnesses.

The Best Hospitals designation is "a reflection of a dedicated team that works each and every day to advance health for all." U.S. News ranked the medical center #1 in Sacramento and #6 in California. It is also ranked among the nation's top 50 hospitals in 10 adult medical specialties. UC Davis Medical Center has been nationally ranked for nearly a quarter of a century.

"This is great news for our patients and for the communities we serve," said David Lubarsky, CEO of UC Davis Health. "It reflects our many ongoing partnerships with the community to deliver highly specialized, expert, and compassionate patient care. We partner with patients in order to reach the best solutions for each of their individual health needs."

U.S. News bases its ranking on objective measures, including outcomes and volumes of high-risk patients, as well as key services and nurse staffing. For patients, that means access to highly skilled care, experienced clinical teams and state-of-the-art technologies such as robotic-assisted procedures.

UC Davis Medical Center's 10 nationally ranked adult medical specialties:

- Cancer
- Cardiology and heart surgery
- Ear, nose and throat (Otolaryngology)
- Geriatrics
- Gynecology
- Nephrology
- Neurology and neurosurgery
- Orthopedics
- Pulmonology and lung surgery
- Urology



U.S. News also named the medical center as a "high performing" hospital for diabetes and endocrinology, as well as gastroenterology and GI surgery. In addition, it earned "high performing" scores for a number of procedures and conditions, including colon cancer, heart bypass, knee replacement and lung cancer surgeries.

"Best Hospitals' is one of several metrics we use to evaluate the quality of our work and how it compares to others throughout the country," said Brad Simmons, interim CEO of UC Davis Medical Center. "It's a reflection of a dedicated team that works each and every day to advance health for all."

For its 2019-2020 rankings, U.S. News evaluated hospitals in 16 adult specialties and ranked the top 50 in most of the specialties. The hospital's rankings can be found on the U.S. News website

The specialty rankings and data were produced for U.S. News by a leading research organization. Using the same data, the publication established its state and metro rankings, which is how UC Davis Medical Center again earned its "#1 hospital in Sacramento" **designation**.

The medical center isn't the only UC Davis entity to earn national recognition this year. In June, U.S. News ranked UC Davis Children's Hospital in five pediatric specialties (*neonatology, nephrology, pediatric diabetes and endocrinology, orthopedics and urology*) for its 2019-20 Best Children's Hospitals rankings.



LECTURESHIPS AND INVITED SPEAKERS



MOTT LECTURESHIP

In June, we were privileged to have **Thomas K. Varghese, Jr., M.D., M.S., F.A.C.S.** as our John M. Mott Jr. Lectureship, as he presented: *Journey to Optimizing Perioperative Outcomes and Population Health: ACS Strong for Surgery and Utah Surgery STRIVE Programs.*



HAUSE LECTURESHIP

Also in June, **Dr. Gregory Dumanian, M.D.** Stuteville Professor and Chief, Division of Plastic Surgery at Northwestern University School of Medicine presented: *Targeted Muscle Reinnervation for Treatment and Prevention of Amputee Pain.*



REINSCH LECTURESHIP

On July 23, **Fred A Weaver, M.D., M.M.M.**, Professor and Chief of the Division of Vascular Surgery, Keck Medicine at USC presented: the *Evolution of Aortic Surgery: Past, Present and Future.*



BATTISELLA LECTURESHIP

In early September, **Roxie Albrecht, M.D.**, Chief of Trauma and Surgical Critical Care from the University of Oklahoma Medicine presented: *Patient Safety: Our Duty.*

UPCOMING LECTURES



On November 19, 2019 **Peter Mattei, M.D.**, Associate Professor in Surgery at the Perelman School of Medicine at the University of Pennsylvania will present on his research and his expertise in pediatric surgical oncology, inflammatory bowel disease and minimally invasive and robotic surgery.



On January 21, 2020 **Joseph Lombardi, M.D.**, Head, Division of Vascular and Endovascular Surgery, Director, Cooper Aortic Center and Director, Level One Vascular Emergency Program at Cooper University Health Care will present on the latest advances in aortic surgery.



MOTT LECTURESHIP

On January 28, 2020 **Katherine Deans, M.D.**, Associate Professor of Surgery and Pediatrics at the The Ohio State University College of Medicine, Nationwide Children's Hospital will present on her research and the importance of patient and family input in the design and execution of clinical trials.



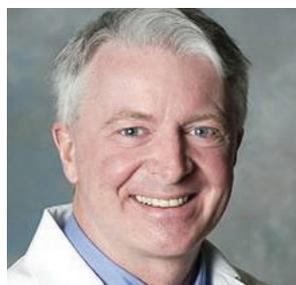
FREY LECTURESHIP

On February 25, 2020 **Christopher Wolfgang, M.D. M.S., Ph.D.**, Professor of Surgery and Director of the Hepatobiliary and Pancreatic Surgery at John Hopkins University will present at our distinguished Frey Lectureship.



GOODNIGHT LECTURESHIP

Sandra Wong, M.D., M.S., Chair and Professor of Surgery at Dartmouth-Hitchcock and the Geisel School of Medicine at Dartmouth will present on April 7, 2020. Dr. Wong is a nationally recognized authority in the management of soft tissue sarcomas, melanoma, Merkel Cell carcinoma, and gastrointestinal cancers



HAUSE LECTURESHIP

Nicholas Vedder, M.D., F.A.C.S., Chief of University of Washington Plastic Surgery and Vice Chair of Surgery will present on April 21, 2020. Dr. Vedder is an expert in hand surgery and reconstructive plastic and microsurgery.

DIVISION HIGHLIGHTS - VASCULAR



Jonathan Lin, M.D.
General Surgery
Resident, PGY4

LESS-INVASIVE PROCEDURES AS GOOD AS OPEN SURGERY IN RESTORING LEG BLOOD FLOW, AVOIDING AMPUTATION

UC Davis team compares outcomes for patients with critical limb ischemia

Less-invasive procedures to open severely-clogged leg arteries are as good at helping people survive and avoid amputation as more invasive open surgeries, according to a new study from UC Davis Health physicians. The outcomes are reported in *Circulation: Cardiovascular Quality and Outcomes*, an American Heart Association journal.

The most severe form of clogged leg arteries — critical limb ischemia — may result in slow-healing leg wounds, gangrene or amputation. The study notes that the incidence of critical limb ischemia has continued to rise with the aging U.S. population. By the year 2050, it is estimated that the number of patients who undergo amputation will more than double — from 1.6 million to 3.6 million.

Co-authors are Ann Brunson, Patrick Romano, Matthew Mell and Misty Humphries, all of UC Davis Health. Their study is available **online**.

The National Center for Advancing Translational Sciences, one of the National Institutes of Health, funded the study through grant numbers UL1TR001860 and KL2TR001859.



**Misty Humphries,
M.D., F.A.C.S.,**
Vascular Surgery
Residency Director

DIVISION HIGHLIGHTS - BURN SURGERY



David Greenhalgh, M.D., F.A.C.S
Chief, Burn Surgery

Krakow, Poland
11 – 15 August 2019

**48th World Congress
of Surgery**



Tina Palmieri, M.D., F.A.C.S
Assistant Chief, Burn Surgery



Drs. Greenhalgh and Palmieri were invited faculty for the World Surgical Congress in Krakow, Poland in August. Dr. Greenhalgh gave a presentation on nutrition in pediatric burns, while Dr. Palmieri moderated a session on what's new in burns and spoke on what is new in topical therapy for burns and pros and cons of using the wound vac in burns. Dr. Palmieri also gave the plenary address at this year's European Burn Association Congress in Helsinki in September entitled: *Burn Care: Where We Are, Where We Are Going*, presented on Biodegradable Temporizing Matrix, and moderated two debates.

DIVISION HIGHLIGHTS - BURN SURGERY

Recognizing kidney injury due to burns is improved by Artificial Intelligence

Many burn victims suffer acute kidney injury (AKI), but early recognition of AKI remains challenging. Now an Artificial Intelligence (AI)/ Machine Learning (ML) model developed at UC Davis can predict acute kidney injury quicker and more accurately than ever. “The ability to predict AKI in burn patients using AI is a potential breakthrough for burn centers,” said **Tina Palmieri, professor and director of the Firefighters Burn Institute Regional Burn Center at UC Davis** Medical Center. “If we can tell that a patient might have kidney injury, we can institute measures to prevent it.”

What is acute kidney injury?

Acute kidney injury (AKI) is sudden kidney failure or damage causing a build-up of waste in blood and a fluid imbalance in the body. AKI usually happens within the first week of serious burn due to inadequate resuscitation, especially during the critical first 24 hours. Developing in around 30% of cases, AKI is a common complication after severe burn, with a mortality rate reaching 80%.

Diagnosing acute kidney injury

Physicians typically rely on traditional biomarkers such as serum/plasma creatinine and urine output for diagnosis. However, urine output and creatinine measures are considered poor biomarkers of AKI. “UC Davis was the first to identify the role a novel biomarker, known as neutrophil gelatinase associated lipocalin (NGAL), plays in early prediction of AKI in severely burned patients,” said Nam Tran, associate clinical professor in the Department of Pathology and Laboratory Medicine at UC Davis. Despite its strong predictive power, NGAL was not available in the United States and its interpretation required more experienced clinicians and laboratory experts. This challenge prompted the development of an artificial intelligence machine learning model to make it easier to interpret results for the NGAL test.

Machine learning enhances acute kidney injury recognition

Sometimes the assumption in the AI/ML world is that the more complicated algorithms such as deep neural network are better than more traditional algorithms in building ML models. This assumption is not always true. “We built a powerful ML model through our k-Nearest Neighbor approach that is able to accurately predict AKI in our patient population in a much shorter period,” said Hooman Rashidi, professor in the Department of Pathology and Laboratory Medicine at UC Davis. “Based on admission data, the model can shorten the time to diagnosis by as much as two days.” The models were trained and tested with clinical laboratory data for 50 adult burn patients that had NGAL, urine output, creatinine, and NT-proBNP measured within the first 24 hours of admission. Half of patients in the dataset developed AKI within the first week following admission. The models containing NGAL, creatinine, urine output, and NT-proBNP achieved 90–100% accuracy for identifying AKI. The models containing only NT-proBNP and creatinine achieved 80–90% accuracy.

The average time from admission to diagnosis with traditional biomarkers was 42.7 hours. The average time using the ML algorithm was just 18.8 hours. The ML model beat the traditional method by nearly a full day — critical time to prevent and treat AKI. “For our study, AI/ML has shown the potential clinical utility for predicting burn-related AKI when using just a few routine laboratory results,” Tran added.

Applications and implications of the new model

This model has applications to be used in the field, including for military casualties. Because troops might be sent to hospitals that lack the facilities to manage kidney injury, the AI/ML method could identify patients with AKI more quickly so they can be diverted faster to advanced medical facilities. This optimizes limited resources in the battlefield and accelerates the transport of patients to where they need to go. The same process applies in the civilian world. “We envision such machine learning platforms to be incorporated in a variety of settings outside of AKI which could ultimately enhance various aspects of patient care within the clinical medicine arena,” Rashidi added.

Read the full study in **Burns**. Other UC Davis contributors to this study include Kelly Lima, Stephanie Falwell, Soman Sen and Jeffery Wajda.

SOCIALLY RESPONSIBLE SURGERY

In 2014, Boston University Medical Center founded Socially Responsible Surgery (**SRS**) and have led the effort to establish social responsibility as a core value of surgical practice. In 2018, Dr. Kara Kleber, a general surgery resident founded the UC Davis Department of Surgery Chapter of Socially Responsible Surgery with the goal to bring the SRS mission to Sacramento. The mission of SRS recognizes social responsibility as a core value of surgical practice and surgery as an essential component of global health, and aims to identify opportunities for leadership, research and collaboration in the training of globally minded surgeons committed to surgical equity. This includes equal access to surgical care, eliminating healthcare disparities, increasing patient advocacy as well as educating and serving our local and global community. UC Davis Health is the only ACS level 1 trauma center and quaternary referral center north of San Francisco, thus UC Davis is ideally placed to positively influence the current discussions on surgical inequity in the northern California community and beyond.



On July 9, **Tracey Dechert, M.D., F.A.C.S.**, Associate Professor of Surgery at Boston University and Founder of Socially Responsible Surgery presented *Socially Responsible Surgery: Social Determinants of Health in Surgical Patients*. She is seen here with our UC Davis Chapter of Socially Responsible Surgery.



AWARDS & ACOLADES



ASSOCIATION OF WOMEN SURGEONS FELLOWSHIP AWARD RECIPIENT

Sepideh Gholami, M.D., F.A.C.S.

Congratulations to Dr. Sepideh Gholami who this September was the 2020 recipient of the Association of Women Surgeons Fellowship Grant for her project entitled Immune Modeling of "Colorectal Liver Metastases on a Chip."



SITC WOMEN IN CANCER IMMUNOTHERAPY NETWORK

Amanda Kirane, M.D.

Dr. Amanda Kirane was accepted into the Society of Immunotherapy of Cancer (SITC) Women in Cancer Immunotherapy Network Leadership Institute that took place August 19 - 20. This inaugural institute is very competitive with just three surgeons on their distinguished list.



HENRY M. JACKSON FOUNDATION AWARD RECIPIENT

Edgardo Salcedo, M.D., F.A.C.S.

In August, Dr. Edgardo Salcedo received an award from the Henry M. Jackson Foundation for the Advancement of Military Medicine for his research on the use of *Use of Hypertonic Saline After Damage Control Laparotomy to Improve Early Primary Fascial Closure.*



SOCIETY OF THORACIC SURGEONS AWARD RECIPIENT

David T. Cooke, M.D., F.A.C.S.

We are excited to congratulate Dr. David Cooke for his award from the Society of Thoracic Surgeons, for his extraordinary volunteer leadership as the Chair of the Annual Meeting Workforce .



ANNALS OF SURGERY PUBLICATION

James Clark, M.D.

Great work by Dr. James Clark, General Surgery Resident for his recent publication in the Annals of Surgery entitled *Do the 2018 Leapfrog Group Minimal Hospital and Surgeon Volume Thresholds for Esophagectomy Favor Specific Patient Demographics?*

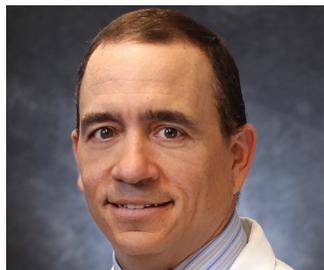


STS ADVOCACY SCHOLARSHIP

Amir Sarkeshik, M.D.

Congratulations to Dr. Amir Sarkeshik, our PGY4 Cardiothoracic Surgery resident for receiving the 2019 STS Advocacy Scholarship! Dr. Sarkeshik will meet with members of Congress, on behalf of the STS, to discuss important policy issues that are germane to the cardiothoracic surgical society.

AWARDS & ACOLADES



MILITARY COMMITTEE WITH THE AMERICAN ASSOCIATION FOR THE SURGERY OF TRAUMA (AAST)

Joseph Galante, M.D., F.A.C.S.

Dr. Galante currently serves on the Military Committee with the American Association for the Surgery of Trauma (AAST). He presented at their 2019 annual conference in Dallas, TX, "Mission Zero: How Military-Civilian Partnerships Enhance Mass Trauma Responses" and "How to Maintain the Combat Trauma Readiness of Forward-deployed Caregivers: Residency Fellowships Partnerships, and More." Dr. Galante is also working on a military curriculum with the American College of Surgeons (ACS): Military Health Systems Strategic Partnership American College of Surgeons (MHSSPACS).



ACGME ADVISORY GROUP AWARD

Juanita Braxton, Ph.D.

Juanita Braxton, Program Manager for the Department of Surgery Educational Programs received recognition this past Spring for her three year term on the inaugural Accreditation Council for Graduate Medical Education (ACGME) advisory group. The ACGME accredits Institutions and residency and fellowship programs, confers recognition on additional program formats or components, and dedicates resources to initiatives addressing areas of import in graduate medical education.



AAST RESEARCH AND EDUCATION FUND SCHOLARSHIP AWARD

Ian Brown, M.D.

Ian Brown is the 2019 recipient of the American Association for the Surgery of Trauma AAST Research and Education Fund Scholarship Award for his project entitled "P-Selectin-Dependent Pulmonary Arterial Thrombosis in Blunt Thoracic Trauma." Dr. Brown and his lab investigate the role of the cell adhesion molecule P-selectin in promoting the potentially dangerous complication of pulmonary arterial thrombosis following severe blunt thoracic trauma. Their work has shed new light on the natural history of vascular thrombus formation in the setting of trauma and the potential acute and chronic implications of this process on patient outcomes.

Clinician Health and Wellbeing Award Recipients



Maggie Spruce, M.D. (PGY4); Amanda Kirane, M.D., Assistant Professor of Surgery; Edgardo Salcedo, M.D., F.A.C.S., Associate Professor of Surgery; Amanda Phares, M.D. (Research)

Faculty Members, Amanda Kirane, M.D. and Edgardo Salcedo, M.D., F.A.C.S. and residents, Amanda Phares, M.D. and Maggie Spruce, M.D., will be awarded this November as emerging leaders who are developing innovative ways to enhance Clinician Health and wellbeing at UC Davis Health. "The university has made clear its urgent prioritization of Physician Health and Wellness. We are excited to share the initiatives grown out of our fellowship this year" best said by one of the inaugural class of fellows, Dr. Kirane.

AWARDS & ACOLADES

UC Davis Children's Hospital re-verified as Level I Children's Surgery Center by American College of Surgeons

UC Davis Children's Hospital has been re-verified a Level I Children's Surgery Center by the American College of Surgeons (ACS). The designation from the ACS Children's Surgery Verification Quality Improvement Program focuses on the nation's first and only multi-specialty standards of surgical care for pediatric patients. UC Davis Children's Hospital was the first hospital on the West Coast to earn this distinction.

The American College of Surgeons' Children's Surgery Verification program was developed to improve the quality of children's surgical care by creating a system that allows for a prospective match of every child's individual surgical needs with a care environment that has optimal pediatric resources. The guidelines ensure that children needing surgery receive care from a multidisciplinary program with quality improvement and safety processes, data collection and appropriate resources for patients.



The level I verification -- the highest of three -- was first awarded to UC Davis Children's Hospital in 2016 after an extensive site visit by an ACS team of surveyors. The survey team consisted of experienced children's surgeons, anesthesiologists and nurses who reviewed the hospital's structure, processes and clinical outcomes data.

"The transformation in facilities and surgical care services for children at UC Davis in the past five years has been nothing short of remarkable! The commitment to children's surgical care by our team is validated and verified by this recognition by the American College of Surgeons," said Diana Farmer, chair and Pearl Stamps Stewart professor of the UC Davis Department of Surgery and surgeon-in-chief at UC Davis Children's Hospital. "It signifies to parents throughout California that they can be certain that the highest level of surgical care for their children in the country is found right here."

To become a verified center, UC Davis Children's Hospital met essential criteria for staffing, training, and facility infrastructure and protocols for care, ensuring its ability to appropriately care for children who are surgical patients.

A Level I Children's Surgery Center:

- has specialty trained children's surgeons in every discipline, who are able to care for newborns, children and teens
- offers pediatric anesthesiologists who are available to provide round-the-clock care
- provides dedicated operating rooms for children available 24 hours a day
- participates in a national data registry that yields semiannual reports on the quality of its processes and outcomes, thus identifying opportunities for continuous quality improvement
- trains future leaders in education and research
- leads the way in community service and outreach

About the American College of Surgeons

The American College of Surgeons is a scientific and educational association of surgeons that was founded in 1913 to improve the quality of care for the surgical patient by setting high standards for surgical education and practice. The college has more than 82,000 members and is the largest organization of surgeons in the world.

Read the full article [here](#).

AWARDS & ACOLADES

New Regents, Board of Governors Executive Committee members elected

The Board of Governors (B/G) of the American College of Surgeons (ACS) has elected two new members of the Board of Regents (B/R)—Diana L. Farmer, MD, FACS, FRCS, and Steven C. Stain, MD, FACS. |

Dr. Farmer, a highly regarded pediatric and fetal surgeon, is the Pearl Stamps Stewart Endowed Chair and Distinguished Professor and Chair, department of surgery, University of California (UC), Davis School of Medicine. She is surgeon-in-chief, UC Davis Children's Hospital, and chief of surgery, Shriners Hospitals for Children, Sacramento, CA.

A Fellow of the College since 1998, Dr. Farmer has served on many ACS committees and governing bodies. Most recently, she was Chair of the B/G (2016–2018). Previously, she was Vice-Chair of the B/G (2015–2016), and a member of the B/G Executive Committee (2015–2018).

She chaired the B/G Quality Pillar (2014–2016) and served on the B/G Bylaws Committee (2016–2017). She served on the Advisory Council for Pediatric Surgery (Pediatric Surgery Liaison to the ACS Program Committee, 2006–2012; Ex Officio member, 2012–2018) and co-chaired the Council of Advisory Council Representatives (2006–2012). She has served on several ACS committees, including the following: Resident Education Committee (2003–2009); ACS/Association of Program Directors in Surgery/Association of Surgical Educators Entering Surgery Resident Prep Curriculum Committee (2009–2011); Program Committee (2013–2016); Research Committee (2013–2019); Continuing Education Workgroup (2013–2015); Division of Research and Optimal Patient Care Committee (2015–2016); Member Services Liaison Committee (2017–2018); and Surgical Research Committee (2016–2019).

At the local level, Dr. Farmer has been a member of the Northern California Chapter of the ACS since 1998, serving on the chapter's Executive Council (2011–2013) and the Northern California Credentials committee (2012–2015).

Dr. Farmer is Past-President of the Society of Surgical Chairs (2016–2017), which the ACS manages, and has been a member since 2010. In 2015, she cohosted an ACS Surgical Quality Forum at the Sacramento Health Foundation and UC Davis Medical Center. A distinguished fetal stem cell scientist, she was the 2017 Owen Wangenstein Surgical Forum Dedicattee. She is a Life Member of the ACS Foundation Fellows Leadership Society and was the recipient of the 2017 ACS Professional Association Political Action Committee (ACSPA-SurgeonsPAC) Warshaw Award-PAC MVP.

Read the full article [here](#).



Diana Farmer, M.D., F.A.C.S., Chair, Department of Surgery

RECENT PUBLICATIONS

Management of Burns.

Greenhalgh DG.

N Engl J Med. 2019 Jun 13;380(24):2349-2359. doi: 10.1056/NEJMra1807442. Review. No abstract available.

Inhalation Injury Does Not Influence The Amount of Blood Transfused to Major Burn Patients: A Secondary Analysis from The Transfusion Requirement in Burn Care Evaluation (TRIBE) Study.

Cartotto R, Taylor SL, Holmes JH, Arnoldo B, Peck M, Cochran A, Col BTK, Bhavsar D, Tredget EE, Stapelberg F, Friedman B, Mozingo D, Greenhalgh D, Pollock BH, Palmieri TL.

J Burn Care Res. 2019 Jul 17. pii: irz129. doi: 10.1093/jbcr/irz129. [Epub ahead of print]

The frailty tipping point: Determining which patients are targets for intervention in a burn population.

Romanowski K, Curtis E, Barsun A, Palmieri T, Greenhalgh D, Sen S.

Burns. 2019 Aug;45(5):1051-1056. doi: 10.1016/j.burns.2018.11.003.

Clinical and Socioeconomic Differences in Methamphetamine-Positive Burn Patients.

Solomon EA, Greenhalgh DG, Sen S, Palmieri TL, Romanowski KS.

J Burn Care Res. 2019 Jul 16. pii: irz102. doi: 10.1093/jbcr/irz102. [Epub ahead of print]

Older Adults With Isolated Rib Fractures Do Not Require Routine Intensive Care Unit Admission.

Bowman JA, Jurkovich GJ, Nishijima DK, Utter GH.

J Surg Res. 2019 Aug 22;245:492-499. doi: 10.1016/j.jss.2019.07.098. [Epub ahead of print]

Artificial intelligence and machine learning for predicting acute kidney injury in severely burned patients: A proof of concept.

Tran NK, Sen S, Palmieri TL, Lima K, Falwell S, Wajda J, Rashidi HH.

Burns. 2019 Sep;45(6):1350-1358. doi: 10.1016/j.burns.2019.03.021.

Measuring the Impact of Burn Injury on the Parent-Reported Health Outcomes of Children 1- to 5- Years: A Conceptual Framework for Development of the Preschool Life Impact Burn Recovery Evaluation (LIBRE) Profile CAT.

Brady KJS, Grant G, Stoddard FJ, Meyer WJ, Romanowski KS, Chang PH, Painting LE, Fowler LA, Nelson JK, Rivas P, Epperson K, Sheridan RL, Murphy M, O'Donnell EH, Ceranoglu TA, Sheldrick RC, Ni P, Slavin MD, Warner P, Palmieri TL, Schneider JC, Kazis LE, Ryan CM.

J Burn Care Res. 2019 Jun 21. pii: irz110. doi: 10.1093/jbcr/irz110. [Epub ahead of print]

Goniometric Measurement of Burn Scar Contracture: A Paradigm Shift Challenging the Standard.

Parry I, Richard R, Aden JK, Yelvington M, Ware L, Dewey W, Jacobson K, Caffrey J, Sen S.

J Burn Care Res. 2019 Jun 21;40(4):377-385. doi: 10.1093/jbcr/irz038.

Do the 2018 Leapfrog Group Minimal Hospital and Surgeon Volume Thresholds for Esophagectomy Favor Specific Patient Demographics?

Clark JM, Cooke DT, Hashimi H, Chin D, Utter GH, Brown LM, Nuño M,

Ann Surg. 2019 Aug 13. doi: 10.1097/SLA.0000000000003553. [Epub ahead of print]

The Importance of a Diverse Specialty: Introducing the STS Workforce on Diversity and Inclusion.

Cooke DT, Olive J, Godoy L, Preventza O, Mathisen DJ, Prager RL.

Ann Thorac Surg. 2019 Oct;108(4):1000-1005. doi: 10.1016/j.athoracsur.2019.07.007. Epub 2019 Aug 17.

The "Top 10" research and development priorities for battlefield surgical care: Results from the Committee on Surgical Combat Casualty Care research gap analysis.

Martin MJ1, Holcomb JB, Polk T, Hannon M, Eastridge B, Malik SZ, Blackman VS, Galante JM, Grabo D, Schreiber M, Gurney J, Butler FK, Shackelford S.

J Trauma Acute Care Surg. 2019 Jul;87(1S Suppl 1):S14-S21. doi: 10.1097/TA.0000000000002200.

EVENTS



In July, we honored Dr. Matthew Mell, M.D., M.S. as our newest Pearl Stamps Stewart Professor in Vascular Biology. Congratulations Dr. Mell!

Pictured here with fellow faculty and residents of the Division of Vascular Surgery.



On November 18 we honored Dr. Hung Ho as our Earl F. Wolfman, Jr. M.D. and Lois J. Wolfman Endowed Professor.



We were proud to showcase many of our surgeons at the 2019 American College of Surgeons Clinical Congress at the All UC Reception on October 28

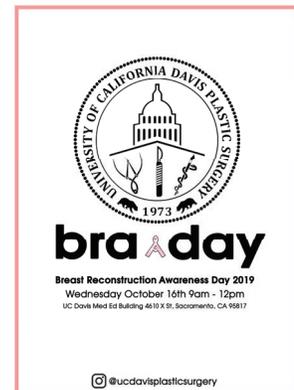


Breast Cancer Awareness Month



On October 4, Candice Sauder, M.D., M.Ed. presented and participated in Health Sciences Development's Food for Thought series on *Breast Cancer: Updates in Surgical Management* which kicked off Breast Cancer Awareness Month.

In recognition of Breast Cancer Awareness Month, our Plastic Surgery team hosted Breast Reconstruction Awareness Day (BRA) on October 16 and drew over 100 attendees. The day included lectures and discussions about breast reconstruction featuring faculty from Plastic Surgery, Surgical Oncology, Radiation Oncology and Medical Oncology. Patients, faculty, staff and the community attended to speak with our experts, hear about the current state of breast reconstruction and visit with vendors providing information about pre and post surgery resources.



Michael Wong, M.D. F.A.C.S., and patient Becky Shrader helped promote our BRA Day event and Breast Cancer Awareness Month by sharing about her breast reconstruction journey at one of our featured **videos**.



SUPPORT

The Department of Surgery at UC Davis Health is one of the most extensive and experienced surgical practices in California. Your gift supports research-based, multidisciplinary surgical approaches, outstanding patient care and a training program that ensures superb care for future generations.

As a leading referral center for many of the region's most challenging adult and pediatric cases, our patients and referring physicians have access to the broadest possible range of experts and treatments in Northern California. Consider making a gift and helping support the UC Davis Health Department of Surgery. Give now by visiting our website give.ucdavis.edu/MERM/SURGIFT or by contacting Executive Director of Development, Lisa Schaffer at 916-734-9457, laschaffer@ucdavis.edu



ALUMNI SURGICAL SOCIETY

Our mission of the UC Davis Surgical Society is to stay connected to UC Davis Surgery Residency Alumni by celebrating their accomplishments, keeping them engaged, encouraging fellowship and developing lifelong connection with UC Davis. We want to be able to:

- Provide a platform for alumni to exchange ideas and engage with each other.
- Provide an opportunity for medical education by encouraging enduring relationships between alumni, residents, and faculty of the UC Davis School of Medicine Department of Surgery.
- Enhance the prestige of UC Davis Health and our resident alumni.
- Sustain meaningful engagement with UC Davis Health and the Department of Surgery.

Our new website is currently being developed but be sure to visit www.ucdavis.org this fall for more information or contact us at hs-surgerynewsletter@ucdavis.edu.



TOP TWEETS @UCDAVISSURGERY

UC Davis Surgery @UCDavisSurgery · Oct 31

Well said @DavidCookeMD! Dr. Cooke served as vice chair of the program committee for #ACSCC19 and reflects on the educational and social experiences of one of the world's largest medical meetings. #ucdavisurgery youtube.com/watch?time_con...



UC Davis Surgery @UCDavisSurgery · Oct 9

Congratulations to MS2 student Ugur Nur Basmaci for her recent award from @AcademicSurgery!



UC Davis Surgery @UCDavisSurgery · Oct 7

We're thrilled to have @JamielPeyton and @ucdavisvetmed therapy animals joining us at #braday this month to discuss the mutually beneficial relationship therapy animals provide to our patients in recovery. facebook.com/events/4320921... #BreastCancerAwarenessMonth



UC Davis Surgery @UCDavisSurgery · Sep 25

We are excited to have our @UCDavisVascular Chief, Dr. @mwmell featured on Facebook Live today! Hear Dr. Mell speak on Peripheral Artery Disease (PAD) Month, symptoms, treatments and our @UCDavisHealth multidisciplinary approach. #PADawareness [facebook.com/UCDavisHealth/...](https://facebook.com/UCDavisHealth/)





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