

NEW FACULTY

It is with great pleasure we announce and welcome our new faculty members. Each new faculty member introduces an added level of experience, quality, and service to the Department of Surgery.

Surgery News



Dr. Suzanne Inchauste,
Assistant Professor,
Division of Plastic Surgery

Dr. Inchauste's primary areas of interest include microsurgical breast reconstruction, breast aesthetics, complex oncologic reconstruction, abdominal wall reconstruction, lymphedema surgery, extremity reconstruction, body contour and aesthetic surgery. Her primary sites of practice

include University of Washington (UW) Medical Center and Northwest Hospital. Born and raised in Seattle, she received her bachelor's degree from Northwestern University and completed medical school at Indiana University School of Medicine, where she stayed to complete her general surgery residency. While in general surgery residency, she completed a four-year Immunotherapy and Surgical Oncology research fellowship at the National Cancer Institute. She then relocated to Ohio for her plastic surgery residency at University of Cincinnati Medical Center. Most recently she completed a Microsurgery Fellowship at Stanford University. When she's not caring for patients, Dr. Inchauste enjoys spending time with friends and family, being outdoors, skiing, hiking, running, biking, rock climbing, and exploring the Pacific Northwest.



Dr. Rebecca Maine,
Assistant Professor,
Division of Trauma, Burn &
Critical Care Surgery

Dr. Maine's focus includes trauma and acute care surgery, elective general surgery and global surgery. After studying electrical engineering and working in management consulting, she matriculated to the University of California San Francisco Medical School

where she completed her general surgery residency. Dr. Maine returns to Harborview Medicine Center (HMC), where she completed her Surgical Critical Care Fellowship, after spending two years as Assistant Professor at the University of North Carolina (UNC) at Chapel Hill.

Dr. Maine is passionate about studying and addressing the inequities in access to quality surgical care nationally and internationally. As a medical student, she evaluated the outcomes of children treated on cleft palate missions in Ecuador and found high complications rates, fueling her

interest in Global Surgery. During her residency she spent two years as a Paul Farmer Global Surgery Fellow with the Program for Global Surgery and Social Change at Harvard Medical School. There she completed her MPH and lived in Rwanda studying surgical and pre-hospital systems. At UNC, she co-directed the Malawi Surgical Initiative, continuing her work to understand how to improve surgical outcomes for patients in the Central Region of Malawi. She is very excited to join Department of Surgery colleagues Drs. Charles Mock, Professor, and Barclay Stewart, Assistant Professor, to leverage the tremendous resources at UW Department of Surgery (DOS) to develop novel approaches to understanding and improving trauma and surgical systems globally.

Dr. Maine and her husband, Jacob, are looking forward to enjoying the incredible nature, culture and food in the Pacific Northwest.

Dr. Erin Miller,
Assistant Professor,
Division of Plastic Surgery and
Adjunct Assistant Professor,
Department of Orthopaedics
and Sports Medicine



Dr. Miller's primary areas of interest include complex wrist injuries, nerve injuries, microvascular reconstruction of traumatic extremity injuries and tumors.

She practices at HMC and the Roosevelt Bone and Joint Clinic. Dr. Miller was raised in Rochester, NY and received her undergraduate degree in Biomedical Engineering from Northwestern University. She earned her medical degree as well as a Master's in Applied Anatomy from Case Western Reserve University. She relocated to Seattle for residency with the UW Integrated Plastic Surgery program and then completed her Hand Surgery Fellowship in the Department of Orthopedics. She is thrilled to be joining the faculty in DOS, as she has a passion for teaching and is excited to work with the resident cohort at UW. Dr. Miller enjoys spending her free time outdoors—mountain biking, tele skiing, climbing, backpacking and trail running with her two dogs. She and her fiancé, Ben, who is in his final year of Emergency Medicine residency at the UW, enjoy traveling internationally and as well as brewing beer.

Surgery

News



Dr. Deepika Nehra,
Assistant Professor,
Division of Trauma, Burn &
Critical Care Surgery

Dr. Nehra was born in India but grew up primarily in Saskatoon, Saskatchewan, Canada and Melbourne, Australia. She moved to the United States in high school and completed her undergraduate studies at the University of Missouri-Columbia followed by medical school at Stanford University School of Medicine. She then completed General Surgery residency at Massachusetts General Hospital in Boston, MA followed by a Surgical Critical Care fellowship at HMC. After fellowship, Dr. Nehra chose to pursue her interest in global health and surgery in the limited resource setting by spending a year practicing as a general/trauma Surgeon at a regional referral hospital in Mbarara, Uganda. Since that time, she has spent the last three years as a trauma and acute care surgeon at Brigham and Women's Hospital in Boston, MA. While at Brigham and Women's Hospital she was able to split her time between Boston and Rwanda, where she participated as a faculty educator through the Human Resources for Health Program. Outside of trauma and acute care surgery, she has a particular clinical interest in complex abdominal wall problems and reconstructions. Her research interests include better understanding the long-term impact of injury and emergency surgery with a particular interest in the psychosocial aspects. She is very excited to join the faculty at HMC and hopes to continue this work in addition to her work in the global health sphere. In her free time, Dr. Nehra enjoys cooking, running, and being outdoors with her husband, Sam, and dog, Billie.



Dr. Lara Oyetunji,
Assistant Professor, Division
of Cardiothoracic Surgery and
Section Chief of Cardiac Surgery at
the Veterans Administration Puget
Health Care System

Dr. Oyetunji earned her bachelor's degree from the University of Mississippi with honors from The Sally McDonnell Barksdale Honors College. She obtained her medical education from the University of Chicago Pritzker School of Medicine and commenced general surgery training at UW. She completed a two-year surgical oncology research fellowship at the National Institutes of Health after which she returned to UW and transitioned into the Integrated

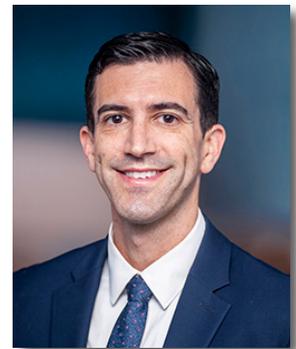
NEW FACULTY (CONT.)

Cardiothoracic Surgery Residency program. Her post-graduate training was completed at the Johns Hopkins Bloomberg School of Public Health, where she obtained her master of public health degree with a focus in epidemiology and global health. Dr. Oyetunji is a member of the multidisciplinary structural heart team at the UW Heart Institute and her clinical interests are in valvular heart disease, structural heart disease, hypertrophic cardiomyopathy.

Dr. Oyetunji's research interests are in surgical capacity building and developing access to safe surgical care in sub-Saharan Africa via twinning partnerships and bilateral exchange of ideas with academic medical centers; a particular area of focus in global surgery is the application of structural heart disease to the management of rheumatic heart disease. She is also interested in the development of quality improvement initiatives in cardiac surgery and recently joined the management committee of the Washington State Cardiac Outcomes Assessment Program with hopes of developing best practice guidelines in the state of Washington.

Outside of her professional work, Dr. Oyetunji is a travel enthusiast who loves exploring and learning from other cultures. She also enjoys running, hiking, dancing and has recently started taking swim lessons with the goal of completing a triathlon.

Dr. Samuel Rice-Townsend,
Assistant Professor,
Division of Pediatric
General Surgery



Dr. Rice-Townsend grew up in Pennsylvania before attending Amherst College. He then earned his medical degree from Stanford University School of Medicine and completed residency in General Surgery at Brigham and Women's Hospital in Boston, followed by fellowship training in pediatric general and thoracic surgery at Seattle Children's Hospital (SCH). Prior to joining SCH, Dr. Rice-Townsend practiced at Boston Children's Hospital where he was an Assistant Professor of Surgery at Harvard Medical School.

Dr. Rice-Townsend is board certified by the American Board of Surgery in general surgery and pediatric surgery. He is a member of the American Pediatric Surgical Association, a specialty fellow of the American Academy of Pediatrics, and a fellow of the American College of Surgeons.

His clinical and research interests relate to anorectal malformations, Hirschsprung's disease, as well as neonatal and pediatric critical care, in particular as it pertains to extracorporeal life support (ECLS) and congenital diaphragmatic hernia. He is actively involved in the multidisciplinary Reconstructive Pelvic Medicine (RPM) program at SCH.

NEW FACULTY (CONT.)



Dr. Jonathan Sham,
Assistant Professor,
Division of General Surgery

After completing his General Surgery training at UW, Dr. Sham went on to complete fellowships in both Complex General Surgical Oncology and Hepatopancreatobiliary Surgery at the John Hopkins University (JHU) Hospital. Dr. Sham brings expertise in multiple complex hepatopancreatobiliary procedures including pancreatic islet auto-transplantation and minimally invasive pancreaticoduodenectomy.

He is an active member of the American College of Surgeons, Society for Surgical Oncology, and America's Hepatopancreatobiliary Association.

Dr. Sham is originally from Dallas, TX and completed his bachelor's degree at Brandeis University prior to receiving his MD from the University of Pennsylvania School of Medicine. While in residency he completed a two-year T32 National Institutes of Health research fellowship in Nanotechnology and Physical Science in Cancer Research, where he developed novel antibody-targeted theranostics for hepatocellular carcinoma and received local, regional, and national awards for his work. He will collaborate with Drs. Raymond Yeung, Professor and Section Chief of Hepatopancreatobiliary Surgery, James Park, Associate Professor, and Venu Pillarisetty, Associate Professor, on developing biotechnological solutions for many of the shortcomings of pancreatic surgery including inadequate imaging, pancreatic fistula, and early recurrence. Dr. Sham is joined by his wife Monica and daughter, Lilly. Outside of work, he enjoys hiking, aerial photography, and sailing.

The Department of Surgery
welcomes our new pediatric surgery
clinical fellow, Dr. Matt Dellinger.



Surgery News

PUBLICATIONS

Matthew Bartek, MD, MPH, General Surgery Chief Resident, published "**Improving Operating Room Efficiency: Machine Learning Approach to Predict Case-Time Duration**" in the Journal of the American College of Surgeons.



Dr. Bartek details "We started with a simple question: "Can we accurately predict how long an operation will take using preoperative information?" Answering this question has broad-reaching implications, given that operating room procedures account for a large portion of hospital revenue and cost. Our interdisciplinary team was a collaboration among anesthesiologists, data scientists, and residents in surgery and anesthesia which allowed us to address the problem with varied perspectives in mind. Using a novel institutional dataset provided by the Center for Perioperative & Pain Initiatives in Quality Safety Outcomes (PPIQSO) within the Department of Anesthesiology & Pain Medicine at UW, we modeled case-time duration, that is "wheels-in to wheels-out," for all planned operations at the UW over 4 years from January 2014 until December 2017. The novelty of our approach was that we restricted the prediction model to only those data available before the time of scheduling and we used a machine learning algorithm called XGBoost to generate several models against which we compared surgeons' own estimates, the scheduling standard. There was nearly a 25% improvement in accuracy (from 32% to 39%) when we modeled surgeons individually using the machine learning algorithm using a variety of patient, procedure and personnel information.

The strength of this study was our team: we worked collaboratively, meeting weekly to share ideas, review progress, and adjust our approach. In addition, practical implementation remained a focus of this project and Dr. Bala Nair, the senior author of the study, is working to create systems to improve case-time estimates at the University of Washington and beyond. As noted above, we started with a simple question but answering it involved complex data collection, modern statistical techniques, and perhaps most importantly, a multi-disciplinary collaboration."