

AAS Fall Courses 2017
13th Early Career Development Course
Faculty Bios

Rajesh Aggarwal, MD, PhD, FRCS, FACS

Rajesh Aggarwal has an exceptional track record as a high caliber clinician in bariatric and minimally invasive surgery, a global academic leader in simulation technologies with respect to health professions' education, a health care innovator through collaborative engagement with engineers, designers, artists and computer scientists, a sought after speaker and educator, and a successful fundraiser.

He undertook his Bachelor's degree in Social and Political Sciences at the University of Cambridge, medical school at the University of London, and surgical residency at Imperial College London, where in 2002 he completed a PhD degree in virtual reality technologies for surgical education.

Rajesh has continued to maintain an academic and clinical practice, as a Faculty member at Imperial College London, University of Pennsylvania and most recently at McGill University where he was also charged as Director of the Steinberg Centre for Simulation and Interactive Learning. Rajesh was instrumental in developing a strategic plan for the McGill simulation center, based upon research and innovation, and underpinned by a \$7.5 million philanthropic donation. He also led the simnovate international summit in 2016, bringing together global luminaries to engage and debate the forward plan for health care innovation.

It is with this background that Rajesh takes on his role in strategic business development at Thomas Jefferson University and Jefferson Health, which through deliberate and purposeful engagement with industry partners, utilizes the health system as a living laboratory, to transform health care in its broadest sense. The underlying process is to embed, co-develop and translate novel tools, technologies and platforms, into clinical, academic, reputational and revenue-based impact at Jefferson, which may then be translated to other sites and settings.

Karl Y. Bilimoria, MD, MS

Dr. Bilimoria is a surgical oncologist and a health services, quality improvement, and health policy researcher at Northwestern University's Feinberg School of Medicine. He is the Vice President for Quality for the Northwestern Medicine system. He is also the Vice Chair for Quality in the Department of Surgery and the John B. Murphy Professor of Surgery. His clinical practice is focused on melanoma and sarcoma. Dr. Bilimoria is the Director of the [Surgical Outcomes and Quality Improvement Center of Northwestern University \(SOQIC\)](#), a center of 35 faculty and staff focused on national, regional, and local quality improvement research and practical initiatives. He is the Director of the 56-hospital [Illinois Surgical Quality Improvement Collaborative \(ISQIC\)](#) and Principal Investigator of the 151-hospital [FIRST Trial](#). He is a Faculty Scholar at the American College of Surgeons. He has published more than 250 scientific articles, including numerous publications in *JAMA* and the *New England Journal of Medicine*. Dr. Bilimoria's research is funded by the National Institutes of Health, the Agency for Healthcare Research and Quality, Health Care Services Corporation, and numerous others. He was recently listed by Becker's as one of the "Top 50 Experts Leading the Field of Patient Safety" in the U.S.

Sarah B. Bryczkowski, MD

Sarah B. Bryczkowski, MD received her medical degree at Rutgers University - Robert Wood Johnson Medical School. She recently graduated from a General Surgery Residency at Rutgers - New Jersey Medical School. Dr. Bryczkowski is a candidate member of the Association for Academic Surgery (AAS) and on the leadership committee. Currently, Sarah is working as a robotic surgery, Minimally Invasive Surgery fellow at Hackensack, NJ under the mentorship of Stephen G. Pereira, MD and associates. You can find Sarah Bryczkowski on Twitter (@SarahB_MD)

Kelli M. Bullard Dunn, MD, FACS, FASCRS

Kelli Bullard Dunn, MD, FACS, FASCRS, has served as Vice Dean for Community Engagement and Diversity at the University of Louisville School of Medicine since March 1, 2015. Previously she served as the Senior Associate Dean for Statewide Initiatives and Outreach. Dr. Bullard Dunn is a Professor of Surgery, and has also served as Associate Director for Clinical Programs and Director of the Colon and Rectal Cancer Multidisciplinary Program at the James Graham Brown Cancer Center (JGBCC) since 2011. She is board certified in both general surgery and in colon and rectal surgery, and has longstanding interest in the diagnosis and treatment of colorectal and anal cancers, precancerous conditions, hereditary malignancies, and other colorectal conditions.

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Herbert Chen, MD

Dr. Herbert Chen obtained his BS from Stanford University with Honors and with Distinction in 1988 and graduated from Duke University School of Medicine Alpha Omega Alpha in 1992. Dr. Chen then completed a general surgery residency followed by a surgical oncology and endocrinology fellowship at The Johns Hopkins Hospital.

Dr. Chen is Chairman of the Department of Surgery at University of Alabama at Birmingham (UAB), and the Surgeon-in-Chief of UAB Hospital and Health System. He is a Professor of Surgery and Biomedical Engineering, and holds the Fay Fletcher Kerner Endowed Chair. His clinical interests include endocrine surgery. Dr. Chen's lab has been continuously funded for 17 years and studies the role of Notch signaling in thyroid and neuroendocrine cancers. He served as the American Cancer Society MEN2 Thyroid Cancer Professor. Dr. Chen is an Associate/Section Editor for *Annals of Surgery*, *Scientific American Surgery*, and *The Oncologist*, and serves on 6 other editorial boards. He is also the Past-President of Association for Academic Surgery, the Secretary-Treasurer for Surgical Biology Club II, President of the Society of Clinical Surgery, and the President-Elect of the American Association of Endocrine Surgeons. Dr. Chen has mentored over 100 faculty, post-doctoral fellows, residents, medical students, and undergraduates in his lab. He has published over 470 original research and review articles and has edited 15 textbooks. He been recognized for his passion for teaching and mentoring the next generation of surgical leaders.

Dr. Chen and his wife Harriet reside in Mountain Brook, AL. His son Alex is currently pursuing a Masters in Philosophy in King's College, London while his daughter Liz is a journalism major at the University of North Carolina-Chapel Hill.

Jill Cherry-Bukowiec MD, MS

Jill R. Cherry-Bukowiec, M.D., M.S. is a Clinical Associate Professor in the Section of General Surgery at the University of Michigan in Ann Arbor. She provides clinical coverage in trauma, non-trauma emergency, general surgery and surgical critical care.

Dr. Cherry received her BA in Zoology from Miami University in Oxford, Ohio. She graduated from the Medical College of Ohio at the University of Toledo and completed General Surgery residency at the Eastern Virginia Medical School. She received her Master of Science degree in Clinical Research Design and Statistical Analysis from the University of Michigan. She is board certified in General Surgery, Surgical Critical Care, and by the National Board of Physician Nutrition Specialists. She is also a Fellow of the American College of Surgeons and the American Society of Critical Care Medicine.

Dr. Cherry's clinical interests focus on Surgical Critical Care, Trauma, Non-Trauma Emergency and General Surgery. She is the Medical Director of the University of Michigan Trauma Burn ICU and provides surgical care for injured patients and patients with acute general surgery problems. She has a special interest in patients with severe infection and sepsis, and challenging nutrition. She also serves the health system as a voting member for the Executive Council of Clinical Affairs (ECCA).

Dr. Cherry has a strong interest in clinical nutrition. She was a recipient of the Nestle Nutrition Institute Enteral Nutrition Fellowship. She serves on the National Board for Nutrition Physician Specialists representing the Society of Critical Care Medicine (SCCM). She is a Past-President of the Michigan Society for Parenteral and Enteral Nutrition and currently serves on the society as a Physician Director. She is the founder of the Nutrition Advisory Committee for the University of Michigan Hospital and currently acts as physician advisor for the committee.

Dr. Cherry also has a strong interest in teaching medical students and residents. She is the Assistant Scientific Trunk Director for the Medical School, Doctoring Faculty for the Medical School Doctoring Course, and Faculty for the Chief Concerns Medical Student Course. She is also the Faculty Lead for the new University of Michigan medical student curriculum M1 Nutrition Course, and is heavily involved in Surgical Resident and Fellow Education.

Dr. Cherry's clinical research is focused on critical care of the surgical patient with particular focus in nutrition and infection. Her education research focuses on medical student education.

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Justin B. Dimick, MD, MPH

Justin B. Dimick, M.D., M.P.H. is the George D. Zuidema Professor of Surgery, Chief of the Division of Minimally Invasive Surgery, and Associate Chair for Strategy & Finance at the University of Michigan. Dr. Dimick is a graduate of Cornell University and Johns Hopkins Medical School. He completed his surgical training at the University of Michigan and a health services research fellowship at the Dartmouth Institute for Health Policy & Clinical Practice.

Dr. Dimick's clinical practice is primarily devoted to advanced laparoscopy, including treatment of morbid obesity, gastroesophageal reflux (GERD), paraesophageal hernias, abdominal wall hernias, and other benign and neoplastic diseases of the stomach, spleen, and foregut. He is the editor of the widely read surgical textbook, *Clinical Scenarios in Surgery: Decision Making and Operative Technique*, published by Lippincott (2012).

Dr. Dimick is Director of the Center for Healthcare Outcomes & Policy at the University of Michigan, which includes 100+ faculty and staff focused on improving the quality and efficiency of acute and specialty care. With R01 funding from the Agency for Healthcare Research and Quality (AHRQ) and National Institutes of Health (NIH), his own research focuses on quality measurement, policy evaluation, and large-scale, innovative quality improvement interventions. He is also the PI on a NIH T32 grant focused on training the next generation of surgeon-scientists. He has more than 200 peer-reviewed publications, including papers in *NEJM*, *JAMA*, *Health Affairs*, and the leading surgical journals.

Dr. Dimick has served in several national leadership positions, including President of the Association for Academic Surgery (AAS) and a Member of the Board of Directors for the Surgical Outcomes Club (SOC). He is currently Chair of the Health Services Organization and Delivery (HSOD) Study Section at the NIH, an Associate Editor at *Annals of Surgery*, and the Surgical Innovation Editor at *JAMA Surgery*. He has served as an advisor on quality and health policy for several organizations, including the BlueCross BlueShield Association (BCBSA), the American College of Surgeons-National Surgical Quality Improvement Program (ACS-NSQIP), US News and World Reports "Best Hospital" Rankings, and the Medicare Payment Advisory Commission (MedPAC).

E. Christopher Ellison, MD

E. Christopher Ellison, MD is Emeritus Professor of Surgery at the Ohio State University and the President Elect of the American Surgical Association. His previous leadership positions have included: Chair of Surgery 2000-2013, the Vice Dean of Clinical Affairs 2000-2017 and President and CEO of the Ohio State University Physicians Practice Plan. He also served as Interim Dean of the OSU College of Medicine and has been recognized as a College of Medicine Distinguished Professor. He implemented a College of Medicine Mentoring Program for faculty. His research interests include gastrointestinal physiology, pancreatic disease, and Zollinger-Ellison Syndrome. He has published over 150 peer reviewed articles. He is the principal author with Robert M. Zollinger Jr of the 10th Edition of Zollinger's Atlas of Surgical Operations published in April 2016 and also an Associate Editor of Fischer's Mastery of Surgery 7th Edition, currently in preparation.

Caprice C. Greenberg, MD, MPH

Caprice C. Greenberg MD MPH is a tenured Professor of Surgery and the Morgridge Distinguished Chair in Health Services Research at the University of Wisconsin. She is a surgical oncologist specializing in breast cancer and a health services researcher focused on improving patient safety and quality of care. She completed a general surgery residency at Brigham and Women's Hospital and Masters of Public Health at the Harvard School of Public Health in Boston, as well as a surgical oncology fellowship at the Partners-Dana Farber Cancer Center. Following her clinical and research fellowship training, she joined the faculty at Harvard Medical School, Brigham and Women's Hospital, and Dana-Farber Cancer Institute in 2007. While there, she served as the Associate Director and then Director of the Center for Surgery and Public Health at Brigham and Women's Hospital. She was recruited to the University of Wisconsin-Madison in 2011 to serve as Director for the Wisconsin Surgical Outcomes Research Program. Her multi-disciplinary research program in comparative effectiveness and patient centered outcomes research in cancer care, as well performance and quality measurement and improvement in surgery, has been funded by a variety of agencies, including NIH, AHRQ, and PCORI. Dr. Greenberg is past Recorder and Past-President of the Association for Academic Surgery and Past-President and Founder of the Surgical Outcomes Club.

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Adil H. Haider, MD, MPH

Adil Haider, MD, MPH, FACS is an active trauma and critical care surgeon, prolific researcher, and the Kessler Director for the Center for Surgery and Public Health (CSPH), a joint initiative of Brigham and Women's Hospital, Harvard Medical School, and the Harvard T.H. Chan School of Public Health. He is also the Deputy Editor of JAMA Surgery and holds numerous leadership positions, including President-Elect of the Association for Academic Surgery (AAS). Dr. Haider is credited with uncovering racial disparities after traumatic injury and establishing the field of trauma disparities research. He is regarded as one of the foremost experts on healthcare inequities in the United States, with projects focused on describing and mitigating unequal outcomes based on gender, race, sexual orientation, ethnicity, age and socioeconomic status. His other research focuses on long-term clinical and functional outcomes after trauma and emergency general surgery, optimal treatment of trauma/critically ill patients in resource-poor settings, and advanced analytic techniques for surgical health services research. He has formally mentored more than 100 research trainees, published more than 200 peer reviewed papers and currently serves as Principal Investigator (PI) on extramural grants worth more than seven million dollars. He is the recipient of numerous awards, including the National Ethic Coalition of Organizations 2017 Ellis Island Medal of Honor. Dr. Haider believes that equality is the cornerstone of medicine, and his professional goal is to eradicate disparities in healthcare in the United States.

Melina R. Kibbe, MD, FACS, FAHA

Melina R. Kibbe, MD, is Professor of Surgery with tenure, and the Zack D. Owens Distinguished Professor and Chair of the Department of Surgery at the University of North Carolina (UNC). She also is an Adjunct Professor in the Department of Biomedical Engineering. She began her tenure at UNC on July 1, 2016. Prior to UNC, Dr. Kibbe was faculty at Northwestern University for 13 years where she also served as the Vice Chair of Research in the Department of Surgery and as Deputy Director of the Simpson Querrey Institute for BioNanotechnology. Clinically, Dr. Kibbe has significant experience with both open and endovascular surgery, including the treatment of carotid stenosis, peripheral vascular disease, and abdominal aortic aneurysms. Dr. Kibbe's research interests focus on nitric oxide vascular biology and developing novel and innovative nitric oxide-based therapies for patients with vascular disease. For her research, she has received funds from the National Institutes of Health, Department of Defense, American Heart Association, Department of Veterans Affairs, American Medical Association, and various society, foundation, and intramural sources. She holds 12 patents or provisional patents. Her research was recognized by President Obama with the Presidential Early Career Award for Scientists and Engineers in 2009. Her bibliography includes over 200 peer-reviewed manuscripts, review articles, and book chapters, with an emphasis on vascular biology and nitric oxide-based therapies. She is board certified in general and vascular surgery and is RVT and RPVI certified by ARDMS. Dr. Kibbe is the Editor-in-Chief for JAMA Surgery. She is past-president of the Association for Academic Surgery, the Midwestern Vascular Surgical Society, and the Association of VA Surgeons. She is also an active member in the American College of Surgeons, the American Surgical Association, the Society for Vascular Surgery, and the American Heart Association, among others. Most recently, she was elected into the American Society for Clinical Investigation and the National Academy of Medicine.

Amanda M. Laird, MD

Dr. Amanda M. Laird is Chief of the Section of Endocrine Surgery at Rutgers Cancer Institute of New Jersey and an Associate Professor of Surgery at Rutgers Robert Wood Johnson Medical School

Prior to joining Rutgers Cancer Institute, she was an Assistant Professor of Surgery at Montefiore Medical Center and Albert Einstein College of Medicine was Director of Endocrine Surgery. She is a member of the American Association of Endocrine Surgeons, the Association for Academic Surgery, the American association of clinical endocrinology, the international association of Endocrine surgeons, and is a fellow of the American College of Surgeons. After graduation from Louisiana State University and Louisiana State University Health Sciences Center in Shreveport, Louisiana, she completed residency in general surgery at Wake Forest University in Winston-Salem, North Carolina. She then completed the Norman Thompson Fellowship in Endocrine Surgery at the University of Michigan.

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Steven K. Libutti, MD, FACS

Steven K. Libutti, MD, FACS was named Director of Rutgers Cancer Institute of New Jersey and Vice Chancellor for Cancer Programs, Rutgers Biomedical and Health Sciences in January 2017. Dr. Libutti also serves as Senior Vice President of Oncology Services for RWJBarnabas Health and is a tenured Professor of Surgery at Rutgers Robert Wood Johnson Medical School. He graduated from Harvard College and received his M.D. from the College of Physicians and Surgeons of Columbia University. Following his residency in Surgery, he completed a fellowship in Surgical Oncology and Endocrine Surgery at the National Cancer Institute (NCI).

Dr. Libutti's research focuses on developing novel cancer therapies through an understanding of the tumor microenvironment. He is studying the interaction between tumor cells, endothelial cells and the components of the tumor microenvironment including fibroblasts and cancer stem cells. His work also focuses on a better understanding of the tumor suppressor genes MEN1 and FILIP1L. Dr. Libutti is a leader in regional cancer therapy, the management of endocrine tumors and tumor targeted gene therapy. He is a past President of the American Association of Endocrine Surgeons and also serves as the Editor-in-Chief of the Springer-Nature Journal Cancer Gene Therapy.

Nader Massarweh, MD, MPH

Dr. Massarweh is an Assistant Professor of Surgery at Baylor College of Medicine with a Surgical Oncology practice at the Michael E DeBakey VA in Houston, TX. His training included a health services research fellowship at the Surgical Outcomes Research Center in the Department of Surgery and an MPH in Epidemiology from the School of Public Health at the University of Washington. His research interests include the quality of oncologic and surgical care, evaluating existing and proposed quality measures, and finding ways to improve the manner in which performance data are fed back to hospitals. He has been a member of the Association for Academic Surgery since 2008, has previously served on the Committee for Academic Advancement, and is currently a member of the Leadership Committee.

Jeffrey B. Matthews, MD

Dr. Jeffrey B. Matthews is the Dallas B. Phemister Professor of Surgery, Chairman of the Department of Surgery, and Surgeon-in-Chief of The University of Chicago Medicine. A graduate of Harvard College and Harvard Medical School, Dr. Matthews completed surgical residency at Beth Israel Hospital in Boston and a hepatobiliary fellowship at the University of Bern. During his appointment at Harvard Medical School and Beth Israel Hospital, he rose to the rank of Associate Professor of Surgery and Chief of the Division of General Surgery at the Beth Israel Deaconess Medical Center. In 2001, he was appointed Christian R. Holmes Professor and Chairman of the Department of Surgery at the University of Cincinnati until assuming his current position in 2006.

Dr. Matthews is a leading expert in pancreaticobiliary and gastrointestinal surgery. He has over 150 original articles and other publications. He led a federally funded research laboratory studying the regulation of epithelial transport and barrier function for over two decades. He serves on the editorial board of 11 scientific journals and was Editor-in-Chief of the *Journal of Gastrointestinal Surgery*. He is the Chair of the Surgery Residency Review Committee of the Accreditation Council for Graduate Medical Education. He is a senior Director of the American Board of Surgery, and past President of the Society of Surgical Chairs, the Society of University Surgeons and the Society for Surgery of the Alimentary Tract (SSAT).

Hari Nathan, MD, PhD

Dr. Hari Nathan is an Assistant Professor of Surgery in the Division of Hepato-Pancreato-Biliary Surgery at the University of Michigan. Dr. Nathan completed both his undergraduate and medical education at The Johns Hopkins University. He also completed advanced training in health services research and was awarded a PhD from The Johns Hopkins Bloomberg School of Public Health. Dr. Nathan completed his clinical residency training in general surgery at The Johns Hopkins Hospital. He subsequently completed a clinical fellowship in complex general surgical oncology at Memorial Sloan Kettering Cancer Center. Dr. Nathan's clinical focus includes the multi-disciplinary treatment of tumors of the liver, bile duct, pancreas, and stomach. He has particular interests in the treatment of liver metastases from colorectal cancer as well as pancreatic cancer. Dr. Nathan's health services research interests include variation and quality in surgical cancer care, variation in cost of surgical care, and prediction of prognosis after cancer resection.

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Susanna M. Nazarian, MD, PhD

Dr. Susanna M. Nazarian, Assistant Professor of Transplant Surgery at the University of Pennsylvania, was a Morehead Scholar at the University of North Carolina where she graduated Phi Beta Kappa with a B.S. in Biochemistry (Highest Honors) and a B.A. in Comparative Literature. While there she was three times All-American and four times Atlantic Coast Conference champion in cross country and track. She also served as Chair of the Honor Court and was elected to UNC's oldest and highest honor society, The Order of the Golden Fleece. She pursued her medical studies at the Johns Hopkins University School of Medicine and continued there for Halsted Surgical Residency and Abdominal Transplant Surgery fellowship. During residency, she received a Ph.D. from the Graduate Training Program in Clinical Investigation at the Johns Hopkins Bloomberg School of Public Health. Clinically she specializes in transplantation of the kidney and pancreas and peritoneal and vascular dialysis access. Her research interests include the use of genomics to identify novel factors influencing transplantation outcomes, widening the pool of useable organs, effects of allocation policy changes, the pathophysiology of arteriovenous fistula aneurysms, sudden death after kidney transplantation and understanding and improving the experience of living organ donors. Dr. Nazarian is married to Saman Nazarian, a cardiac electrophysiologist at Penn and they live outside of Philadelphia with their two children, Madeline (8) and Jack (almost 3).

Matthew D. Neal, MD

Dr. Neal is an Assistant Professor of Surgery and Critical Care Medicine and an attending trauma surgeon, general surgeon, and surgical intensivist at the University of Pittsburgh School of Medicine. His research group is focused on the mechanisms of hemostasis, thrombosis, and coagulopathy following severe injury as well as clinical outcomes in trauma, hemorrhagic shock, and massive transfusion. Dr. Neal is the Principal Investigator for and receives laboratory funding in the form of a Maximizing Investigators Research Award (MIRA) from the National Institutes of Health (NIH) as well as a Prolonged Field Care Award from the Department of Defense (DoD). His clinical research group is funded by the NIH, DoD, and grants from private industry.

Timothy M. Pawlik, MD, MPH, PhD

Dr. Pawlik received his undergraduate degree from Georgetown University and his medical degree from Tufts University School of Medicine. Dr. Pawlik completed surgical training at the University of Michigan Hospital and spent two years at the Massachusetts General Hospital as a surgical oncology research fellow. He then went on for advanced training in surgical oncology at The University of Texas M. D. Anderson Cancer Center in Houston. Dr. Pawlik's main clinical interests include alimentary tract surgery, with a special interest in hepatic, pancreatic and biliary diseases. Dr. Pawlik also has an interest in medical ethics and completed a fellowship in medical ethics at the Harvard School of Public Health as well as a Masters in Theology from Harvard Divinity School in Boston. In addition, Dr. Pawlik was the recipient of a Clinical and Translational Science Award (CTSA) KL2 Research Scholar Award and received a PhD from the Johns Hopkins Bloomberg School of Public Health in Clinical Investigations.

Dr. Pawlik took his first faculty appointment at Johns Hopkins in 2005, where he was Professor of Surgery and Oncology, as well as the John L. Cameron Chair of Alimentary Tract Diseases and the Chief of the Division of Surgical Oncology until 2016. Dr. Pawlik currently is the Chair of Surgery at The Ohio State University Wexner Medical Center where he holds The Urban Meyer III and Shelley Meyer Chair for Cancer Research. Dr. Pawlik has given over 350 invited talks both nationally and internationally in 25 different countries. Dr. Pawlik has published over 750 articles and 50 book chapters, in addition to editing five surgical textbooks. Dr. Pawlik serves on multiple editorial boards and is Editor-in-Chief of Journal of Gastrointestinal Surgery, Deputy Editor of JAMA Surgery, as well as an Associate Editor for Annals of Surgical Oncology. Dr. Pawlik has served on the executive council of several of the premier surgical associations in the United States. Dr. Pawlik is a member of a number of professional societies including the Society of Surgical Oncology, the Americas Hepato-Pancreato-Biliary Association, American Surgical Association, Society of Clinical Surgery, as well as being a past-President of the Association for Academic Surgery. Dr. Pawlik's main clinical and research interests include liver, pancreatic, and biliary tumors, as well as patient communication/engagement, ethics, and determinants of prognosis.

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Susan C. Pitt, MD, MPHS

Susan Pitt, MD, MPHS, is an Assistant Professor of Surgery in the Division of Endocrine Surgery at the University of Wisconsin. She is also an investigator in WiSOR, the Wisconsin Surgical Outcomes Research program. Her research focuses on overtreatment of patients with thyroid cancer and the role of treatment decision-making. Dr. Pitt received her medical degree from the Medical College of Wisconsin. She also has a Masters degree in Population Health Science from Washington University in St. Louis School of Medicine where she completed her general surgery residency. After residency, Dr. Pitt completed a one year fellowship in Abdominal Organ Transplantation and Hepatopancreatobiliary surgery while at Washington University in St. Louis, and then an Endocrine Surgery fellowship at Brigham and Women's Hospital.

Carla M. Pugh, MD, PhD, FACS

Carla Pugh is currently the Susan Behrens Professor of Surgical Education and Vice Chair of Innovation and Entrepreneurship in the Department of Surgery at the University of Wisconsin, Madison. She is also the Clinical Director of UW Health's Clinical Simulation Program. Her clinical area of expertise is Acute Care Surgery. Dr. Pugh is nationally recognized for her research on the use of simulation technology to assess and quantitatively define hands-on clinical skills. Currently, more than 200 medical and nursing schools use one of Dr. Pugh's sensor enabled training tools for their students and trainees. In addition, in 2011 Dr. Pugh received the Presidential Early Career Award for Scientists and Engineers from President Obama. In 2014, she gave a TEDMED talk on the potential uses of technology to transform how we measure clinical skills in medicine.

Douglas S. Smink, MD, MPH

Douglas S. Smink, MD, MPH is an Associate Professor in Surgery at Harvard Medical School and a minimally invasive general surgeon at Brigham and Women's Hospital. Dr. Smink trained in general surgery at Brigham and Women's Hospital in Boston and in minimally invasive surgery at Dartmouth Hitchcock Medical Center in Lebanon, New Hampshire. At Brigham and Women's, Dr. Smink is the Program Director of the General Surgery Residency and the Associate Chair of Education in the Department of Surgery. He is the editor-in-chief of the *Journal of Surgical Education* and serves as a member of the editorial board of SCORE (Surgical Council on Resident Education). Dr. Smink is the co-leader of the Surgical Culture research program at the Center for Surgery and Public Health, where he studies how to teach communication, leadership, and decision-making to surgeons and surgical teams.

Christopher J. Sonnenday, MD, MHS

Christopher Sonnenday, M.D., M.H.S., is the Surgical Director of Liver Transplantation for Michigan Medicine and serves as Associate Chair for Clinical Affairs for the Department of Surgery at the University of Michigan. He is an Associate Professor in the Department of Surgery, Section of Transplantation, and Associate Professor of Health Management and Policy at the School of Public Health. Dr. Sonnenday received his medical degree from Vanderbilt University in 1997, and went on to complete his General Surgery residency at the Johns Hopkins University in June of 2005. While a research fellow in transplantation from 2000 to 2003, he completed a Masters of Health Sciences in Clinical Investigation at the Bloomberg School of Public Health in 2003. After completion of his residency, Dr. Sonnenday continued on at Johns Hopkins as a Fellow in Surgical Oncology and Instructor of Surgery until 2006, and he completed a fellowship in abdominal transplant surgery at the University of Michigan in 2008. Dr. Sonnenday's clinical interests focus on liver transplantation, hepatobiliary and pancreatic surgery, and general surgery procedures in patients with advanced liver disease. He sees patients in the Multidisciplinary Liver Tumor Clinic at the University of Michigan Cancer Center and the Transplant Clinic at the Taubman Center. His primary academic and research interests include the study of frailty and sarcopenia in liver transplant candidates, novel methods of patient selection in liver transplantation and hepatobiliary surgery, and quality collaboratives in transplantation.