

SURGERY NEWS

The MGH Department of Surgery Newsletter

Note from the Chair

As I write this note, the calendar is turning from October to November. A chill is in the air, leaves are falling, and there are far fewer tour buses now in the North End. New faculty and residents have acclimated to the MGH and the academic year is off to a great start. Earlier this month, many of us attended the American College of Surgeons meeting in Washington, DC, which was highlighted by a number of outstanding Surgical Forum presentations by our residents, Susan Briggs' delivery of the Scudder Oration on Trauma, and a great turnout at the reception held with the other Harvard teaching hospitals. The number of faculty, residents, friends, and alumni that attend this reception make it clearly the "best social event of the week."

As we move into November, we will have the first of four intern applicant sessions on Friday, November 18. Dr. Mullen and the Associate Program Directors have identified an outstanding group of applicants. I know our work will be cut out for us in identifying a class that will follow in the pattern of excellence established by the current residents in the program. One of the important themes we hear every year from the applicants is how impressed they are by the large number of faculty and residents who actively participate in the interview process. This is a lot of work and takes a lot of time, but it certainly has led to a consistent high-level of success in recruiting the very best residents, which makes it all worth it. On the other end of the training spectrum, we will soon say goodbye to our cardiothoracic residents who finish their training in December. We look forward to their Final Grand Rounds on Thursday, December 15. Also, another long-standing tradition, "Santa Rounds" will be held the following week on December 22.

I will close at this point, in that this newsletter is filled with accolades and updates of the personal and collective successes of the department. But I will quickly say that 2016 has been an outstanding year across all of our missions. We had great success on the clinical and basic

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science research front and an exceptional year for the department financially, despite the EPIC rollout and the very difficult financial situation where we practice. However, many challenges lie ahead and much is needed. Efforts are under way now to take a close look at the medical students' experience during their surgery clerkship, to maximize the contributions of the Codman Center for Clinical Effectiveness both as a quality and safety organization as well as a center for academic excellence in health services research, and finally, to prepare for the Harvard Review in May 2017. All of these projects will take a great deal of effort from everyone. However, I am confident the resiliency and work ethic of the department will carry us through to an outstanding outcome.

Thanks for your support. Cheryl and I wish all of you a Happy Thanksgiving and hope that everyone has great plans for the upcoming holidays.

Keith D. Lillemoe, M.D.
Chair, Department of Surgery
Surgeon-in-Chief
Massachusetts General Hospital



Research News

Harvard T32 Research Training Program in Alimentary Tract Surgery

The Harvard-wide Research Training Program in Alimentary Tract Surgery (Program Director, Dr. Richard A. Hodin) was recently awarded a competitive renewal by the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK).

Implemented in 1997, the initial program focused almost exclusively on basic laboratory research. However, research in academic gastrointestinal surgery has undergone a sea change over the past two decades, owing to advances in surgical technologies, the digital revolution, and the emergence of bioinformatics. In response to these fundamental changes, the T32 curriculum was broadened in 2010 to include three research tracks: (1) Basic Science, (2) Clinical Research/Outcomes, (3) Surgical Technology/Innovation.

The success of this innovative multi-track program has been readily apparent, as judged by the enthusiasm of the faculty and trainees. The Program takes advantage of all the resources available at Harvard Medical School (HMS) in addition to the sponsoring institutions and participating Departments of all four major teaching affiliates of HMS: Beth Israel-Deaconess Medical Center (BIDMC), Brigham and Women's Hospital (BWH), Boston Children's Hospital (CH), and Massachusetts General Hospital (MGH).

The revised Program incorporates the expertise of many nationally recognized leaders in the field of GI Surgery along with critical partnerships with colleagues in a variety of related disciplines, including medical gastroenterology,

immunology, radiology, psychiatry, and other fields. Specific relationships have also been established with a wide array of core facilities and research programs that bring extraordinary expertise to augment the training of our young surgeon-investigators (see chart).

The current funding cycle will run from 2016 to 2020 and will provide research training opportunities for four surgical trainees every two years. Two MGH surgical trainees, Dana Schwartz, MD and Dan Hashimoto, MD, have been selected to participate in 2016. Their projects are summarized below.

Fellow: Dana Schwartz, MD

Project: Engineering Subject-Specific Small Intestine on a Decellularized Matrix Platform

Curriculum: Basic Science

Mentor: Allan M. Goldstein (MGH)

Description: Dana is a second year research resident who is working on a collaborative project that combines Dr. Allan Goldstein's expertise in intestinal developmental biology with Dr. Harald Ott's experience in tissue engineering. Dana has a strong interest in pediatric surgery, and especially in short bowel syndrome and the end stage pathology of multiple gastrointestinal disorders including inflammatory bowel disease, necrotizing enterocolitis, and midgut volvulus. Patients with intestinal failure suffer high morbidity from the complications of parenteral nutrition and, as of today, there are no reliable treatment options for this condition. The ultimate goal of the field of intestinal engineering is to regenerate a patient-specific small bowel for transplantation, in order to reestablish enteral nutrition.

Dana's research focuses on repopulating intestinal scaf-

Related Research Groups and Institutions

TRACK 1 Basic Science

MGH Center for Study of Inflammatory Bowel Disease (CSIBD)

Leadership: Ramnik Xavier,
Faculty: Allan Goldstein, Richard Hodin,
Lee Kaplan

The Broad Institute (Harvard-MIT Collaborative)

Leadership: Broad Microbiome Core,
Ramnik Xavier

TRACK 2 Clinical Research

MGH Clinical Research Program (CRC) & Clinical Research Education Unit (CREU)

Leadership: Maurizio Fava

Harvard TH Chan School of Public Health (HSPH)

Faculty: Christopher Duggan, Atul Gawande,
G. Scott Gazelle

Codman Center for Clinical Effectiveness (MGH) Leadership: Matthew Hutter

Institute for Technology Assessment (ITA; MGH) Leadership: Scott Gazelle

Harvard Catalyst (Collaborative)
Faculty: Nancy Cho, Susan Hagen

Surgical Outcomes Analysis and Research (SOAR; BIDMC)

Leadership: Jennifer Tseng

TRACK 3 Technology/Innovation

Center for Integration of Medicine and Innovative Technology (CIMIT; Collaborative)

Leadership: John Parrish

Innovative Technology and Engineering for Advancement of Medicine (iTEAM; BWH)

Leadership: Ali Tavakkoli

The Center for Surgery, Innovation & Bioengineering (MGH) Senior Investigators:

Ronald G. Tompkins, Mehmet Toner,
Martin L. Yarmush

Innovation, Design, and Emerging Alliances in Surgery (IDEAS; BIDMC)

Leadership: Eliot Chaikoff





Dana Schwartz, MD



Dan Hashimoto, MD MS

folds with the primary cell types essential to establishing physiologic function, as a first step towards developing a small animal model of regenerated intestine. Specifically, her project aims to restore absorptive and peristaltic function by seeding epithelial, neuronal, and smooth muscle cell progenitors onto a decellularized extracellular matrix scaffold. Thus far, she has succeeded in isolating and expanding primary cultures of murine neuronal progenitor cells, enteric smooth muscle cells, and intestinal epithelial organoids. When seeded onto intestinal scaffolds, these cells maintain their ability to proliferate, migrate, and differentiate into appropriate cell subtypes. The next phase of experiments will focus on characterizing the developmental patterning of scaffolds repopulated with combinations of these cell types and quantifying any contractile or absorptive function in *ex vivo* analysis. If successful, this project will establish new methods for creating autologous regenerated small bowel, which might one day be scaled up for clinical use.

Fellow: Dan Hashimoto, MD MS

Project: Integrating Virtual Reality and Artificial Intelligence into Surgical Education

Curriculum: Surgical Technology/Innovation

Mentor: Roy Phitayakorn (MGH)

Dan is a general surgery resident in the first of two years of research at the MGH. He is working with Roy Phitayakorn MD, Denise Gee MD, and Emil Petrusa PhD MS (MGH) as the Surgical Education and Simulation Research Fellow on investigating methods to improve the efficiency of simulation-based surgical education. He will be integrating neurocognitive and motor learning frameworks of skill acquisition with modern skills training paradigms from sports science to develop new surgical training curricula that utilize virtual and augmented reality.

In addition, he is working with Oz Meireles (MGH) and Daniela Rus (MIT) on an artificial intelligence system to analyze laparoscopic surgical video in real-time. The goal of the system is to generate a compact segmentation and

summarization of a surgical procedure in real-time and without the need for recording the entire video sequence. Effective segmentation will subsequently lead to utilization of deep neural networks to predict intra-operative errors in real-time and warn surgeons of the potential for injury based on quantitative data gathered from a library of operative video.

Research Activities

(The following represent federal grants in excess of \$450,000 awarded between April 30, 2016 and September 30, 2016)

Curtis L. Cetrulo (Transplant Surgery) received funding to optimize delayed tolerance induction in swine: a clinically relevant protocol for immunosuppression-free vascularized composite allotransplantation (DoD: 09/30/2016).

Soldano Ferrone (Surgical Oncology) received funding to investigate strategies to counteract resistance mechanisms in CAR+ T-cell-based immunotherapy for triple-negative breast cancer (DoD: 09/30/2016).

Kasper Lage Hansen (Pediatric Surgery) received funding to build integrative central nervous system networks for genomic analysis of autism (NIH-NIMH: 07/31/16).

Richard A. Hodin (General and GI Surgery) received a competitive renewal for the Harvard-wide T32 Research Training Program in Alimentary Tract Surgery (NIH-NIDDK: 07/31/2016).

Tatsuo Kuwai (Transplant Surgery) received funding to study the inhibition of BCL-2 for the induction of mixed chimerism without myelosuppressive conditioning (NIH-NIAID: 06/30/2016).

Joren C. Madsen (Transplant Surgery) received funding to study mechanisms of kidney-induced cardiac allograft tolerance (NIH-NIAID: 08/31/2016); a project targeting inflammation and alloimmunity in heart transplant recipients with Tocilizumab (NIH-NIAID: 08/31/2016); and a project to investigate tolerance strategies in non-human primate cardiac allograft (NIH-NIAID: 09/30/2016).

James F. Markmann (Transplant Surgery) received funding to expand the liver transplant organ pool through *ex vivo* liver perfusion (NIH-NIDDK: 07/31/2016).

Lawrence Turka (Center for Transplantation Science) received funding to study control of regulatory T-cell stability and function by the Foxo1 transcription factor (NIH: 06/30/2016).

Mustafa Korkut Uygun (Surgery, Science & Engineering) received funding to model human liver perfusion dynamics to support the discovery of targets for *ex vivo* organ therapy (NIH-NIBIB: 06/30/2016).



Clinical News

BREAKTHROUGH

Penis Transplant

By Curtis L. Cetrulo, Jr. MD and Dicken Shiu-Chung Ko, MD

Mass General surgeons from Plastic Surgery (Department of Surgery) and the Department of Urology recently performed the first penis transplant in the U.S. this past May. The recipient, Thomas Manning, had undergone a penectomy (amputation of the penis) after being diagnosed with penile cancer. He continues to do well, now three months after his surgery.

Curtis L. Cetrulo, Jr., MD, FACS, FAAP, describes the origins of the historic procedure: “I was presenting the results of our hand transplant when one of the urologists in the audience (Dicken Ko, MD, FACS) approached me and said, ‘We have so many desperate patients missing genitourinary tissue. Can we transplant penile tissue?’ That was three years ago, when we first started working on our protocol.”

Dr. Cetrulo continues: “We had further inspiration from our military surgical colleagues. These hardened surgeons were distraught over the lack of adequate treatments for the many ‘wounded warriors’ coming back from Iraq and Afghanistan with devastating genitourinary injuries. The suicide rate in this population may be as high as 25 to 50 percent.”

“It’s a real problem,” said Dr. Ko. “Among male combat vets, we’ve estimated something on the order of 1,500 blast injuries to the groin that have resulted in the loss of genitourinary tissue. You can imagine these hardened wounded warriors coming back from Iraq and Afghanistan, now that their hope for intimacy in their life has been destroyed. It’s an incredibly difficult thing to talk about among men, so it’s a very insulating kind of injury. A lot of these patients have been in the shadows for years.”

Mr. Manning contributed to bringing penile cancer patients and those with genitourinary injuries out of the shadows after his transplant. An unusually forthcoming patient, he spoke freely in public about his hopes and fears and urged others to follow his public example. “Speak to your doctor. There is hope. Don’t hide behind a rock.” Dr. Cetrulo notes, “That was actually one of the most remarkable phenomena — after this procedure was performed people came out of the woodwork to talk about a subject that was really not discussed very commonly beforehand.”



Curtis L. Cetrulo (right) is Assistant Professor of Surgery, Assistant in Surgery at the MGH, and Attending Plastic Surgeon at Shriners’ Hospital. He graduated from the Tufts University School of Medicine and had his training in General Surgery at the Lahey Clinic and in Plastic Surgery at the Long Island Plastic Surgical Group/Nassau County Medical Center, Department of Plastic and Reconstructive Surgery, Garden City, NY.

Dicken Shiu-Chung Ko (left) is Assistant Professor of Surgery (Urology) and Associate Urologist at the MGH. His medical degree is from Queen’s University, Ontario, Canada. His training in surgery was at the Universities of Toronto and British Columbia and his training in Urology was at the University of British Columbia.

Dr. Ko explains the MGH approach to the transplant procedure: “We set three goals for the procedure: restoring normal-appearing external genitalia, restoring urinary function, and restoring sexual function. The first goal was accomplished soon after it was clear that the allograft would survive, and the second goal was achieved at about three weeks postoperatively, when the Foley catheter was removed and the patient’s ability to urinate normally was restored. The third goal — restoration of erectile function — will require at least 6-8 months for nerves to regenerate, but we are hopeful on that front as well.”

MGPO QI Incentive Program

by Donna M. Antonelli

Surgery continued to perform with excellence in achieving the MGPO QI Bonus measures. The measurement period for Term 2, CY 2016, ran from July 2016 through September 2016, with an extension for opioid training. Payments of \$2500 will be distributed to eligible clinicians in December 2016, except for those who completed their opioid training



after October 17 but by December 16. The latter clinicians will receive two thirds of their bonus in December and the remainder in March 2017.

Measures this term included:

- **Epic Optimization**, in-person classroom training (hospital-wide measure) – 95% of surgeons completed the required training.
- **Safe and Responsible Opioid Prescribing Training**, (hospital-wide measure) – 65% of surgeons completed the Healthstream module prior to October 17. The remaining surgeons have until December 16 to complete.
- **Surgeon Inpatient Documentation and Best Practices to Maximize Compliant Billing** (department measure) – 100% of surgeons achieved the measure.

Quality Dashboards

The Codman Center continues to produce a variety of dashboards for Surgery including: Cardiac Surgery M&M, TESSCC Length of Stay, Transplant Readmissions, Quarterly Q&S measures, Patient Experience, Procedure-based [using UHC data], ACS-NSQIP, and Individual Surgeon. The Center is also working with the Resident Education Office on resident evaluation dashboards.

Annual Quality Report and Grand Rounds

Work is also under way for the seventh edition of Surgery's Annual Quality Report. The report continues to feature all the great work being done to improve the quality, safety, and clinical effectiveness of surgical care provided at MGH. Please hold the date of Thursday, January 19, 7:30 to 9:30 a.m., for the Annual Quality and Assurance Grand Rounds. All are welcome to come and learn about the QI efforts ongoing in each division of Surgery.

Announcements

Honors & Awards—Faculty

James Allan MD of *Thoracic Surgery* completed his term as President of the American Society of Transplant Surgeons (ASTS) during the annual American Transplant Congress in Boston, June 11-15, 2016. The ASTS represents nearly 4,000 transplant professionals across many disciplines.

The **Dr. W. Gerald Austen Endowed Chair in Polymer Science and Polymer Engineering** was established at The University of Akron by the John S. and James L. Knight Foundation to strengthen Akron's internationally recognized polymer program and to attract a world-class research faculty. The \$3M endowment recognizes the work of our own

Dr. Austen, and his contributions to the Akron community. This gift represents the largest endowment for an academic chair in the history of the University of Akron.

William G. (Jay) Austen Jr MD, Chief of *Plastic and Reconstructive Surgery*, won a Partners Healthcare Innovations Discovery Grant to advance the commercial application of his ground-breaking technology for scar-free fractional microbiopsy. One of only 10 individuals to win this selective award in 2016, Jay was the only awardee representing a surgical specialty among the participating Partners hospitals (MGH, 5 awardees; BWH, 4 awardees; McLean Hospital, 1 awardee). Moreover, he is the only individual to win this award on the two occasions it has been presented.

Jordan Bohnen MD MBA, PGY4, was recently recognized by the Royal College of Physicians and Surgeons of Canada with the 2016 International Resident Leadership Award. This award is given annually to an international resident who demonstrates leadership in specialty education and a strong commitment to the development of future leaders in medicine. I think all of us who are familiar with the tremendous work Jordan has done, recognize how truly deserving he is of this award from his native country.

Genevieve M. Boland MD PhD of *Surgical Oncology* received the 2016 Association of Women Surgeons Foundation/Ethicon Fellowship. Since 1996, the AWSF/Ethicon Fellowship has supported a number of women surgeons by funding original research on flexible GI endoscopy, laparoscopy, minimal access techniques, and related emerging technology. Dr. Boland is conducting a project on "Analysis of circulating exosomal RNA profiles in melanoma."

Susan M. Briggs MD of *Trauma, Emergency Surgery & Surgical Critical Care*, deserves our heartiest congratulations for being the first MGH faculty member to receive the coveted MGH Global Health Service Award for Excellence in Research and Humanitarianism. The award was presented in recognition of her lifelong commitment to delivering front-line care during natural disasters and humanitarian emergencies.

Patricia K. Donahoe MD, former Chief of *MGH Hospital for Children* and of *Pediatric Surgery*, received the Distinguished Service Award during the annual meeting of the American Pediatric Surgical Association, the association's highest honor. The award was given in recognition of her lifetime commitment to and wide-reaching impact on the field of pediatric surgery. Awarded on only eight occasions in the 50-year history of the organization, it is a great honor that two of the eight prior recipients have come from the MGH— Pat Donahoe and Hardy Hendren.



Announcements

In other news, Dr. Donahoe, along with colleague **David Pepin PhD** from the *Pediatric Surgical Research Laboratory*, have received a generous award from the Bill and Melinda Gates Foundation. The award will fund investigations into a new contraceptive discovery platform based on the agent Mullerian inhibitory substance (MIS). MIS is advantageous for preserving ovarian reserve, potentially enhancing the fertility of women who wish to delay pregnancy. It is a great honor to receive such generous support from this highly valued foundation and our congratulations go out to both Pat and David.

Carlos Fernandez-del Castillo of *General and GI Surgery* completed his term as President of the American Pancreatic Association during the society's 47th annual meeting in Boston, October 26-29, 2016. The meeting was extraordinarily well attended and had a great scientific and social program. Other Department of Surgery faculty, residents, and fellows presenting at this meeting were Cristina Ferrone MD, Peter Fagenholz MD, Ilaria Pergolini MD (Carlos' fellow), and Yinshi Huang MD PhD (a fellow in the laboratory of Dr. Andrew Liss).

In October 2016, The American College of Surgeons (ACS) honored the life and accomplishments of **W. Hardy Hendren MD**, former Chief of *Pediatric Surgery*, as one of its "Icons in Surgery" during the ACS Clinical Congress 2016, held in Washington, DC. A video (available on the ACS website) to commemorate the honor was developed by the ACS Committee on Video-Based Education and was presented at the Clinical Congress.

Thomas MacGillivray MD of *Cardiac Surgery* was recently elected Treasurer of the Society of Thoracic Surgeons, a five-year major leadership position in one of the most prestigious and predominant cardiothoracic surgical specialty societies in North America.

Joren C. Madsen MD DPhil, MGH *Transplant Center/Center for Transplantation Sciences*, has been named the Paul S. Russell/Warner-Lambert Professor of Surgery. His predecessor, David H. Sachs MD, has moved to emeritus status as he is now working part-time at the MGH.

Sareh Parangi MD, *General and GI Surgery*, has been elected Vice President of The Association of Women Surgeons, as well as Treasurer of the American Association of Endocrine Surgeons.

Ann Prestipino MPH has been recognized as the Yale School of Epidemiology and Public Health 2016 Distinguished Alumni. The criteria for this award include leadership in public health as an outstanding teacher, researcher or practitioner; exceptional contribution to public health practice;

and continued and sustaining contribution to community/society.

At the 2016 MGH Colorectal Postgraduate Course, The Inaugural **Paul Shellito Lectureship** was given by Dr. Robert Madoff from the University of Minnesota. This is a great recognition for Paul, who made many contributions to the colorectal surgery program at the MGH.

Thor Sundt MD, Chief of *Cardiac Surgery*, has begun his term as President of the American Association for Thoracic Surgery. He will complete his term at the 100th Annual Meeting in Boston next Spring.

Kenneth Tanabe MD, Chief of *Surgical Oncology*, was named to the American Board of Surgery – Board for Surgical Oncology.

Andrew Warshaw MD, Surgeon-in-Chief Emeritus, has been appointed by Governor Charlie Baker as a member of the Special Commission to Study Pancreatic Cancer in the Commonwealth of Massachusetts.

Steven Zeitels MD, Chief of *Laryngeal Surgery*, has been awarded the DeRoaldes Medal from the American Laryngological Association (ALA). The medal, established in 1907, is awarded annually to an individual who has made outstanding lifetime academic contributions in the field of Laryngology and Laryngeal Surgery. He has previously received the Casselberry and Newcomb Awards from the ALA for academic achievements in Laryngology. With this award he becomes the 4th surgeon in the organization's history to receive all three awards.

Congratulations to **Drs. George Velmahos, David King, and the entire Trauma Team** for their recent recognition by the Boston Police Department for the exceptional care provided to two Boston Police Officers wounded in the line of duty in October. This recognition is certainly a reflection of the great Trauma team that has been assembled at the MGH, as well as their innovation in the control of traumatic blood loss.

Honors & Awards—Residents

Christy Cauley MD, PGY4, received the "Owen H. Wangenstein Scientific Forum Excellence in Research Award" in the Ethics category for her presentation "Who Goes Home after Palliation? Utilization of Venting Percutaneous Endoscopic Gastrostomy in Malignant Bowel Obstruction."

Robert N. Goldstone MD, PGY4, received the "Joseph E. Murray MD Award for Best Presentation by a Resident or a Fellow" for his research: "Photochemical Tissue Passivation Attenuates Intimal Hyperplasia in an Arteriovenous Fistula



Mode” presented by the New England Society of Plastic and Reconstructive Surgeons (NESPRS). In related news, Rob’s mentor, **Jay Austen MD**, Chief of *Plastic and Reconstructive Surgery* received the “Founders Award for Best Presentation by a Mentor” for his lecture titled “Invention in Plastic Surgery: Lessons from the NESPRS.”

Derek Erstad MD, PGY4, received the American Hepato-Pancreatico-Biliary Association (AHPBA) Research Award. Derek started his research in July in the laboratory of Dr. Kenneth Tanabe.

Daniel Hashimoto MD, PGY4, was recently selected to serve on the Board of Directors of the Association of American Medical Colleges (AAMC). Dan, who has been serving as one of the AAMC’s resident representatives, now will be the sole resident representative on the Board.

Kim Honselmann MD, a fellow in the laboratory of Andrew Liss PhD, was recognized with the Society for Surgery of the Alimentary Tract (SSAT) 2016 “Resident/Fellows Research Conference Award” for top presentation by a resident or fellow at a meeting.

Madhukar S. Patel MD, PGY4, received the Society for Surgery of the Alimentary Tract (SSAT) “Writers Workshop Scholarship” to support his attendance at the meeting and participation in the very valuable writer’s workshop held during the SSAT meeting.

Jarrold D. Predina MD, PGY4, was selected as the winner of the “2016 Association of Academic Surgery Fellowship Award.”

Dana M. Schwartz MD, PGY4, received the “Owen H. Wangenstein Scientific Forum Excellence in Research Award” in the category “Basic Science/Transplantation and Tissue Engineering” for her talk entitled “Decellularized Intestinal Scaffolds Support the Survival, Migration, and Differentiation of Enteric Neuronal Progenitor Cells.”

Brandon M. Wojcik MD, PGY4, was elected “Resident/Fellow Delegate” of the Massachusetts Medical Society (MMS) Board of Trustees on May 19, 2016. Dr. Wojcik is one of 22 voting Trustees across Massachusetts who will serve on the board this year. As the Resident/Fellow Delegate, Dr. Wojcik will represent the interests of all residents and fellows within the Commonwealth of Massachusetts throughout the coming training year.

Additions to the Faculty

We are delighted to announce that **Duke Cameron MD**, the James Dresher Sr. Professor of Surgery and Chief of

Cardiac Surgery at Johns Hopkins Medicine, will be joining our group in January 2017. His focus will be in the areas of adult congenital heart disease and the surgical treatment of Marfan syndrome, in addition to the treatment of other acquired cardiac conditions in the adult. Dr. Cameron is President-elect of the American Association for Thoracic Surgery and is a master educator inside and outside the operating room.

Jonathan Friedstat MD joined the faculty of *Burn Surgery* in July 2016. He received his medical degree from the University of Illinois College of Medicine, graduating as a James Scholar. He completed his general surgery residency at the University of Washington and then was initially part of the MGH Burn Service as the Burn/Critical Care Fellow. He then completed his plastic surgery residency at the University of North Carolina and a microsurgery fellowship at the University of Texas MD Anderson Cancer Center. He holds board certifications in General Surgery and Surgical Critical Care. In addition to acute burn care, Dr. Friedstat has an interest in burn reconstruction. To improve outcomes for burn patients, he is also concurrently working toward a master’s degree in public health from the Harvard T.H. Chan School of Public Health.

On August 1, **Arminster Jassar MD** joined the staff of *Cardiac Surgery*. A graduate of the cardiothoracic training program at the University of Pennsylvania, Dr. Jassar spent a year in an advanced aortic surgery fellowship at Penn and now is in Freiburg, Germany adding additional endovascular and hybrid open/endo skills to his repertoire. Dr. Jassar will focus his clinical activities on aortic surgery in addition to the full spectrum of adult cardiac surgery. He also has an interest in transcatheter valve therapies and plans to participate in the structural heart program.

Vinod Narra MD, a long-time active member of the staff at North Shore, has recently joined the Department of Surgery’s *Division of Community Surgery*.

Salewa Oseni MD joined *Surgical Oncology* in September 2016. Dr. Oseni received her medical doctorate from Case Western Reserve University and her general surgery residency training at the National Naval Medical Center in Bethesda. She completed a fellowship in Surgical Oncology at Fox Chase Cancer Center before serving as a staff general surgeon and staff surgical oncologist for the United States Navy. Since 2011 she has served as Department Head of the Breast Health Center at the Naval Medical Center San Diego (Commander, US Navy). She will join the MGH breast surgery team and will practice both at Southern New Hampshire Medical Center and at MGH.



Announcements

Motaz Qadan MD PhD joined *Surgical Oncology* in September 2016. Dr. Qadan received his medical doctorate from the University of Edinburgh, Scotland and a PhD in physiology and biophysics along with a master's degree in medical science from the University of Louisville before completing general surgery residency training at Stanford University. He recently completed a fellowship in Complex General Surgical Oncology at Memorial Sloan-Kettering Cancer Center. Dr. Qadan will commit approximately 50% of his time to clinical research. His clinical practice will cover general surgical oncology broadly at MGH, MG West, and possibly Newton-Wellesley Hospital.

Noelle N. Saillant MD joined the *Trauma, Emergency Surgery, & Surgical Critical Care* faculty in September 2016. Dr. Saillant arrived at MGH from Beth Israel-Deaconess Medical Center where she trained as a resident and served as an attending physician. She completed her Trauma and Critical Care fellowship at the University of Pennsylvania. Dr. Saillant will be actively involved in the Clerkship Program and her research will focus on bleeding and coagulopathy in trauma.

Elan Witkowski MD joined *General and GI Surgery* on July 1. Dr. Witkowski completed his medical school training and general surgery residency at the University of Massachusetts Medical School. He also received a master's degree in epidemiology from the Harvard T.H. Chan School of Public Health. Most recently, he completed a fellowship in minimally invasive GI and bariatric surgery at MGH. Dr. Witkowski's academic interests include health services research, technological innovation, and measurement of quality in bariatric and general surgery. His clinical interests include minimally invasive weight loss surgery, foregut surgery, and repair of abdominal wall hernias. Dr. Witkowski will be seeing patients at the MGH Weight Center and in the General Surgery Clinics.

Departing Faculty

Anca Barbu MD, *Center for Laryngeal Surgery and Voice Rehabilitation*, has moved to Cedars Sinai Hospital in Beverly Hills, California.

Kathryn Butler MD left *Trauma, Emergency Surgery, & Surgical Critical Care* to spend full-time with her family.

Nancy Cantelmo MD retired from *Vascular Surgery*.

Philip Chang MD of *Burn Surgery* has moved to a position at the Shriners' Hospital for Children in Cincinnati, Ohio.

Thomas MacGillivray MD, *Cardiac Surgery*, is departing to become Chief of Cardiac Surgery at Methodist Hospital in

Houston, TX. His clinical expertise, hard work, and dedicated care to his patients will be missed. Tom has contributed greatly to the success of this institution and will undoubtedly do the same at the DeBakey Heart and Vascular Center. This is a fantastic opportunity for him as a next step in what already is an outstanding career.

Janey Pratt MD of *General and GI Surgery* has moved to a part-time position at Stanford University School of Medicine.

John Wain MD of *Thoracic Surgery* has moved to St. Elizabeth's Hospital as the Chief of Thoracic Surgery.

Promotions

To Associate Professor of Surgery

Daniel Irimia MD PhD, *Burn Surgery*

Harald Ott MD, *Thoracic Surgery*

To Assistant Professor of Surgery

Anca Barbu MD, *Center for Laryngeal Surgery and Voice Rehabilitation*

Nahel Elias MD, *Transplant Surgery*

Sandeep Karajanagi MD PhD, *Center for Laryngeal Surgery and Voice Rehabilitation*

David Lawlor MD, *Pediatric Surgery*

Mauro Longoni MD, *Pediatric Surgery*

Ashok Muniappan MD, *Thoracic Surgery*

Peers in Press

Selected publications (listed by division) between June 16, 2016 and October 15, 2016 with active links to PubMed.

Burns

[Fire-related inhalation injury](#). Sheridan RL. N Engl J Med. 2016 Aug 4;375(5):464-9. Review. PMID: 27518664

[The use of CO2 fractional photothermolysis for the treatment of burn scars](#). Levi B, Ibrahim A, Mathews K, Wojcik B, Gomez J, Fagan S, Austen WG Jr, Goverman J. J Burn Care Res. 2016 Mar-Apr;37(2):106-14. PMID: 26536539

Cardiac

[IRAD experience on surgical type A acute dissection patients: results and predictors of mortality](#). Berretta



P, Patel HJ, Gleason TG, Sundt TM, Myrmet T, Desai N, Korach A, Panza A, Bavaria J, Khoynezhad A, Woznicki E, Montgomery D, Isselbacher EM, Di Bartolomeo R, Fattori R, Nienaber CA, Eagle KA, Trimarchi S, Di Eusanio M. *Ann Cardiothorac Surg.* 2016 Jul;5(4):346-51. PMID: 27563547

[Contemporary insights into the management of type A aortic dissection.](#) Tolis G Jr, Sundt III TM. *Expert Rev Cardiovasc Ther.* 2016 Jul 25. [Epub ahead of print] PMID: 27454184

[Ethics committee consultation and extracorporeal membrane oxygenation.](#) Courtwright AM, Robinson EM, Feins K, Carr-Loveland J, Donahue V, Roy N, McCannon J. *Ann Am Thorac Soc.* 2016 Jun 14. [Epub ahead of print] PMID: 27299991

General/GI

[Surgical quality and equity: revisiting the class of 1895.](#) Loehrer AP, Chang DC, Hutter MM, Warshaw AL. *Ann Surg.* 2016 Aug;264(2):235-6. PMID: 27058945

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CALENDAR

Meetings 2016

Surgical Research Council (SRC)

Buckley Conference Room, Blake 851
Tuesday, December 20, 2016, 3:30 p.m.

Department Faculty Meeting

Bigelow Amphitheatre
Wednesday, December 21, 2016, 7:00 a.m.

Meetings 2017

Research Town Hall Meeting

Thier 1 Conference Room
Monday, January 9, 2017, 5:00 p.m.

Annual Quality and Assurance Grand Rounds

Bigelow Amphitheatre
Thursday, January 19, 7:30 to 9:30 a.m.

Surgical Research Council (SRC)

Sweet Room, Gray 432
Monday, March 13, 2:00 pm

Surgical Grand Rounds Highlights

“McCabe Visiting Lecturer in Surgical Education”

Thursday, December 1, 2016, 8:30 a.m.
Patricia L. Turner, M.D., F.A.C.S.
Director, Division of Member Services
American College of Surgeons

“Santa Rounds”

Thursday, December 22, 2016, 8:30 a.m.

“Quality and Assurance Grand Rounds”

Thursday, January 19, 2017, 7:30 - 9:30 a.m.

“Innovation and Advancement in Surgical Leadership and Education”

Thursday, February 16, 2017, 8:30 a.m.
David Torchiana, M.D.
President and CEO, Partners Healthcare

“Conjoined Twins”

Thursday, March 9, 2017, 8:30 a.m.
A Special Grand Rounds in New England Journal of Medicine CPC format.

“Department-Wide M&M”

Thursday, March 16, 2017, 8:30 a.m.

“Patricia K. Donahoe Visiting Professor in Pediatric Surgery”

Thursday, March 30, 2017, 8:30 a.m.

Brad W. Warner, M.D.

Jessie L. Ternberg, M.D., Ph.D.

Distinguished Professor of Pediatric Surgery

Department of Surgery

Washington University School of Medicine, St. Louis

Surgeon-in-Chief

St. Louis Children’s Hospital

“Resident Research Rounds”

Thursday, March 23, 2017, 8:30 a.m.

Thursday, April 13, 2017, 8:30 a.m.

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