

# SURGERY NEWS

## The MGH Department of Surgery Newsletter

### Note from the Chair

We hope that you enjoy your second edition of the “new and improved” Department of Surgery Newsletter. We are still working out the bugs, but are anxious to continue to share information about the activities, accomplishments, and contributions of our many faculty, residents, and staff.

The academic year is already well under way. The “new” interns are one third of the way through their first year and they all seem to be doing quite well. The last group of senior residents is awaiting match results. The invitations for intern applicants have been sent and it looks like we will be interviewing an outstanding group of young individuals who all seem to be excited about the opportunity to train at the MGH. We appreciate the efforts of all the faculty and residents in this very important interview process.

As you know, “Surgery” at the MGH has taken a “hit” with the recent article in the *Globe*. Nevertheless, our services remain as busy as ever and our outcomes remain strong. We hope to learn from this unfortunate experience and to further strengthen our program.

For the faculty, please mark your calendars for a Surgical Staff Meeting on Wednesday, December 16, at 7 a.m. in the Sweet Room. The December meeting is when we share a summary of the year’s financial and research activities. You will all be pleased to know that

### INSIDE THIS ISSUE

Research News	2
Research Highlights	3
Clinical News	4
Announcements	4
<i>Faculty Appointments</i>	4
<i>Leadership Awards</i>	4
<i>New Physicians &amp; Science Faculty</i>	4
<i>Awards, Honors and Prizes</i>	5
<i>Invited Presentations</i>	5
Peers in Press	6
Calendar	9
Follow us on Social Media	9
Send us your News!	9

it was a very good year for the Department.

Finally, we hope you will continue to have an interest in sharing any information you might have concerning your own activities. Please send your announcements or other activities to [kwilliams12@partners.org](mailto:kwilliams12@partners.org) by March 15, 2016, in time for the next newsletter, which will be published in the Spring.

— Keith D. Lillemoe, MD  
Chair, Department of Surgery

## Research News

### Harvard-Longwood T32 Research Training Program in Vascular Surgery

Currently in its 22nd year, the Harvard-Longwood Research Training Program provides two years of basic training in cardiovascular surgical research for academic clinicians. The program addresses the absence of adequate research training for cardiovascular surgeons in specific areas of clinical disease. The training program is led by Frank W. LoGerfo, MD, a vascular surgeon at the Beth Israel-Deaconess Medical Center (BIDMC), and the program is fully funded by the National Institutes of Health. The Department of Surgery was fortunate this year to have four residents (see below) accepted into the 2015 program.

Over the course of the year, surgical trainees will pursue a program of intensive research supplemented by required coursework in research design, ethics, statistics, and evaluation of published research. The program is conducted and closely supervised by the program director and a faculty of mentors, who have well-established records of peer-reviewed research. Mentors are selected based on their current research activities and proven commitment to training research fellows. Individual mentors are chosen from the program faculty on the basis of the background and research interest of individual trainees.

Each mentor works closely with their assigned trainee throughout the 2-year training period. The trainees conduct their own research projects. Laboratory training can be supplemented by graduate level training at Harvard Medical School and Harvard's Faculty of Arts and Sciences, with course selection complementing the fellow's laboratory endeavors.

**Fellow: Sarah Deery, MD**

**Project:** Comparative Effectiveness Research in Vascular Surgery

**Description:** Dr. Deery is working on several projects to evaluate outcomes in vascular surgery while simultaneously studying for a Master's in Public Health degree with a concentration in Comparative Effectiveness. Her area of interest is the comparative management of thoracic and abdominal aortic aneurysms with open and endovascular procedures. In other work involving decision analysis, she is creating Markov models to simulate outcomes following open versus endovascular aneurysm intervention in individualized patients based on preoperative characteristics.

**Mentor:** Marc Schermerhorn, MD, BIDMC, Chief, Vascular and Endovascular Surgery



**Sarah Deery, MD**



**Madhukar Patel, MD**

**Fellow: Madhukar Patel, MD**

**Project:** Preventing Device-Associated Infections with Slippery Liquid-Infused Porous Surfaces (SLIPS)

**Description:** Device-associated infections often represent clinical manifestations of bacterial contamination of bio-material surfaces, which may occur despite best practices in sterile technique and application of prophylactic antibiotics. As these infections account for tremendous medical costs and often result in significant patient morbidity and mortality, this project aims to develop a new approach to re-engineering the material-tissue interface so as to inhibit the development of device-associated infections. Dr. Patel plans to study the preventive effect of applying a novel synthetic surface coating, known as slippery liquid-infused porous surfaces (SLIPS), on subsequently implanted biomedical devices.

**Mentor:** Dr. Elliot L. Chaikof, MD, PhD, BIDMC

**Fellow: Derek Klarin, MD**

**Project:** Exome Sequencing and the Genetics of Abdominal Aortic Aneurysm

**Description:** In this project, Dr. Klarin proposes to use the latest in DNA sequencing technology to better understand the genetic factors that contribute to the development of abdominal aortic aneurysms.

**Mentor:** Sekar Kathiresan, MD, MGH

**Fellow: Brandon Wojcik, MD**

**Project:** Vascular Targeting of A20-Based Therapies to Treat Transplant Arteriosclerosis

**Description:** Intimal hyperplasia leading to transplant arteriosclerosis following transplantation is the signature lesion of chronic rejection. The rate of rejection and allograft failure has not decreased despite maximum medical therapy and immunosuppression. Interferon gamma is a key pathogenic effector of transplant arteriosclerosis. Prior work has demonstrated that A20, a natural atheroprotective protein



Derek Klarin, MD



Brandon Wojcik, MD

found in human endothelial and smooth muscle cells, dampens interferon gamma signaling and prevents transplant arteriosclerosis in a murine arterial transplant model. This proposal aims to move A20, an exciting therapeutic target for all vascular disease resulting from intimal hyperplasia, closer to clinical implementation. Dr. Wojcik plans to simulate the human immune response by transplanting human mammary arteries into a humanized mouse model system, using the clinically safe adeno-associated virus as a vector for A20 gene therapy, and then developing small molecule inhibitors of activating kinase proteins in the interferon gamma signaling pathway.

**Mentor:** Dr. Cristina Ferrone, MD, PhD, MGH

Upon completing the Harvard-Longwood Research Training Program in Vascular Surgery, each trainee will be capable of undertaking independent research and will have the necessary scientific and research background to obtain their own competitive grants. They also will have the abilities and knowledge necessary to provide translational expertise as they join medical school faculties at other institutions.

## Research Highlights

### Neutrophil Decision-Making in Health and Disease

**Daniel Irimia MD PhD**, Assistant Professor of Surgery and Deputy Director of the BioMEMS Resource Center in the Center for Surgery, Science, and Engineering, was awarded two grants to investigate the role of neutrophil decision-making in health and disease. The first award is an exploratory/developmental research grant (R21) from the National Institute of Allergy and Infectious Diseases (NIAID) to study the effect of chronic inflammation on neutrophil migration. The second is an R01 project from the National Institute of General Medical Sciences (NIGMS) which focuses on the role of neutrophil decision-making in sepsis.

**Title:** Microfluidic Tools for Probing Neutrophil Reversed Migration

**PI:** Daniel Irimia, MD PhD

**Agency:** NIAID

**Grant#:** R21AI113937

**Project Dates:** 6-24-2015 through 5-31-2017

Dr. Irimia's exploratory R21 will investigate chronic inflammation — the pathology responsible for seven of the top ten leading causes of mortality in the developed world, from atherosclerosis and heart disease to diabetes and cancer. Neutrophils, the white blood cells involved in protecting organisms against microbes, recently have been shown to participate in the initiation, tissue damage, and persistence of chronic inflammation. To better understand the pathology of chronic inflammation, Dr. Irimia and his team are developing novel microfluidic tools to enable *in vitro* studies of newly discovered migration patterns that return neutrophils from tissues into circulation. These tools will enable investigators to characterize the reverse migration of neutrophils and to identify specific markers to differentiate neutrophils that have undergone reverse migration from naive neutrophils in blood samples from patients with chronic inflammation. If successful, this research could lead to new methods for monitoring chronic inflammation, enable early diagnosis, allow sufficient time for patients to adopt lifestyle changes, and assist early treatments. These methods could have major implications for reducing morbidity and mortality associated with chronic inflammatory diseases.

**Title:** Neutrophil Decision-Making in Confined Environments in Health and Disease

**PI:** Daniel Irimia, MD, PhD

**Agency:** NIGMS

**Grant#:** 2R01GM092804-06

**Project Dates:** 8-15-2015 through 3-31-2019

Dr. Irimia also received R01 funding for a related study from the National Institute of General Medical Sciences (NIGMS). This project involves the role of neutrophil decision-making in health and disease with a specific focus on sepsis.

Sepsis is the leading cause of death in patients with large burn injuries and its treatment is usually focused on the use of proper antibiotics. However, the body's own resources, the neutrophils, are often ignored, even though evidence exists that this subpopulation of white blood cells is essential for protection against microbes and becomes progressively defective after burn injuries. In this proposal, Dr. Irimia will employ novel microfluidic tools to probe the changes in neutrophil phenotype after burns, design new

## Clinical News

tools for measuring emerging neutrophil phenotypes, and monitor the interactions between neutrophils from patients and microbes in controlled conditions *in vitro*.

### Suggested reading:

Hamza B, Irimia D. Whole blood human neutrophil trafficking in a microfluidic model of infection and inflammation. *Lab Chip*. 2015 Jun 1;15(12):2625-33. PMID: 25987163

Jones CN, Dimisko L, Forrest K, Judice K, Poznansky M, Markmann JF, Vyas J, Irimia D. Human neutrophils are primed by chemoattractant gradients for blocking the growth of *aspergillus fumigatus*. *J Infect Dis* <http://jid.oxfordjournals.org/content/early/2015/08/12/infdis.jiv419>.

### NIH Awards — June through Oct. 2015

**Bryan C. Fuchs PhD** (Surgical Oncology) received R01 funding from the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) to study the Molecular Imaging of Liver Fibrosis using magnetic resonance (MR) imaging in several animal models. The goal is to develop methods to stage liver fibrosis noninvasively and to determine whether fibrotic burden or active fibrogenesis can predict late-stage liver outcomes, including hepatocellular carcinoma (HCC).

**Tatsuo Kawai MD PhD** (Center for Transplantation Sciences) received U19 funding from the National Institute of Allergy and Infectious Diseases (NIAID) to study Tolerance of Kidney and Islet Transplants via the Mixed Chimerism Approach.

**Sara I. Pai MD** (Surgical Oncology) received R01 funding from the National Institute of Dental and Craniofacial Research (NIDCR) to study Immune Checkpoints and HPV-associated Head and Neck Squamous Cell Cancers (HNSCC). The aim of this R01 is to test whether blocking IL-10 and/or IDO1 pathways in HPV-HNSCC can enhance host anti-tumor immune responses.

**Mikhail I. Papisov PhD** (Center for Surgery, Science & Engineering) received R01 funding from the National Institute of Neurological Disorders and Stroke (NINDS) to study Factors of Cerebrospinal Drug Transport in animal models. The objectives of the proposed work are (a) to investigate the mechanisms of hydrostatic bolus translocation and the subsequent hydrodynamically driven solute transport, and (b) to compose and test a mechanistic pharmacokinetic model suitable for drug development.

**Laurence A. Turka MD** (Co-director, Center for Transplantation Sciences) received R34 funding from the National Institute of Allergy and Infectious Diseases (NIAID) to study Cellular Therapy with Allospecific Tregs in Liver Transplan-

tation. Dr. Turka's lab has been developing a unique methodology to expand and purify donor-specific Foxp3+ T regulatory cells (Tregs) *ex vivo* using costimulatory blockade with belatacept. In addition to this R34, the lab has just received an IND from the FDA for a phase I safety trial of Tregs made in this manner in live-donor renal allograft recipients. However, the most immediate therapeutic potential for using donor-specific Tregs to achieve immunosuppression reduction/withdrawal is in liver transplantation, which is the aim of this R34.

**Xinhui Wang MD PhD** (Surgical Oncology) received R21 funding from the National Cancer Institute to study Improving Radiation Therapy for Pancreatic Cancer. Radiation therapy plays a key role in pancreatic ductal adenocarcinoma (PDAC) treatment, but pancreatic cancer stem cells (PCSC) are resistant to ionizing radiation. This study proposes to obtain knowledge of the mechanism(s) by which disulfiram/Cu, an FDA approved drug (DSF) and a nutrition supplement (Copper gluconate) can enhance the efficacy of radiation and chemoradiation therapy for PDAC.

**Jonathan G. Hoggatt PhD** (Center for Transplantation Sciences) has received an R00 research transition award from the National Heart, Lung, and Blood Institute (NHLBI) to study Macrophage Regulation of the Hematopoietic Stem Cell Niche. The aim is to define how macrophages, newly appreciated effectors of tissue homeostasis, contribute to conditions in the bone marrow hematopoietic stem cell niche of consequence to stem cell harvesting and engraftment under homeostatic and inflammatory conditions.

## Clinical News

### MGPO Quality Incentive Program

Surgery achieved all CY Term 2 2015 Measures at 100%! The measurement period was July 2015 – September 2015 and payments will be distributed to eligible clinicians in December 2015. The measures included:

- **ICD-10 Training of Surgeons (hospital-wide measure)** – All of our surgeons completed the required training.
- **Development of Three Enhanced Recovery After Surgery (ERAS) protocols (department LOS reduction)** – Pilot protocols were developed for Burn, Bariatric Surgery, and Esophagectomy.
- **Publication of at least one Vidscrip per Division (department population health measure)** – Our Divisions worked hard writing scripts and making the videos with the help of the Population Health Management (PMH) team.

## Announcements

### Faculty Appointments

#### Harvard Medical School

**Peter Masiakos MD** Associate Professor of Surgery (Pediatric Surgery)

**Ozanan Meireles MD** Assistant Professor of Surgery (General and Gastrointestinal Surgery)

**Marc de Moya MD** Associate Professor of Surgery (Trauma, Emergency Surgery and Surgical Critical Care)

### Leadership Appointments

**Matthew M. Hutter MD** The Department of Surgery is pleased to announce the establishment and endowment of the Codman-Warshaw Chair, to be held by the Director of the Codman Center for Clinical Effectiveness in Surgery. The initial incumbent will be Dr. Matthew Hutter, who has directed the Center since 2003. A general and bariatric surgeon, Dr. Hutter is Associate Professor of Surgery at HMS.

Founded in 2002 by the MGH Department of Surgery, the Codman Center was funded to provide a vehicle for surgical outcomes research to monitor and improve quality metrics in surgical care, and for career development of faculty and fellows. It has grown to comprise three senior faculty, Drs. Hutter, David Shahian, MGH VP Quality and Safety, and Cameron Wright, Department Quality Chair. Rounding out the senior faculty is Dr. David Chang, Director of Healthcare Research. The Center also has three junior faculty, in addition to Quality Directors for each of the Divisions in the Department. Fellows are drawn from our surgical residency program. The staff of the Center includes nurses, educators, and data analysts. Codman Center surgeons meet monthly as the Quality and Safety Committee. The Center has achieved national prominence through its publications and leadership of the quality programs of the American College of Surgeons.

**Gus Vlahakes MD** is the inaugural incumbent of the Stanford Calderwood Chair in Cardiac Surgery. Stanford (Stan) Calderwood graduated from the University of Colorado at Boulder and served in the Navy during World War II. In the early '50s he joined Polaroid and eventually became the head of marketing. He then moved on to become the head of WGBH in 1970. Stan was a generous supporter of education and the arts and made substantial gifts to many organizations, including McDowell Colony, Boston Athenaeum, Huntington Theater, Isabella Stewart Gardner Museum, Museum of Fine Arts, Boston College, Harvard, and Wellesley College, among others.

### New Physicians and Science Faculty

**David A. D' Alessandro Jr MD** joined the Division of Cardiac Surgery on September 10, 2015 as the Surgical Director of Heart Transplant & VAD. He was previously the Surgical Director for Cardiac Transplant at Montefiore Medical Center located in Bronx, New York. His clinical focus has been surgical treatments for end-stage heart failure, including mechanical assistance and heart transplantation. He has a broad experience in all aspects of adult cardiothoracic surgery, including on and off pump coronary artery bypass surgery, valve repair and replacement, and the treatment thoracic aneurysms.

**Branko Bojovic MD** joined the Plastic & Reconstructive Surgery faculty on October 1, 2015, and also joined the faculty at the Shriners' Hospitals for Children – Boston. Dr. Bojovic is returning to the MGH where he completed part of his Plastic Surgery residency as part of the Harvard Combined Plastic Surgery Program. After completing his residency, he completed a fellowship at Johns Hopkins, where he remained as a member of the faculty for some years. Dr. Bojovic specializes in craniofacial surgery and microsurgery.

**Heather R. Faulkner MD MPH** joined the Plastic & Reconstructive Surgery faculty on August 1, 2015. Dr. Faulkner recently finished a year with Plastics as the Adult Reconstructive and Aesthetic Breast Surgery Fellow, and she will be practicing in Danvers.

**Deepika Nehra MD**, Instructor in Surgery at Harvard Medical School, joined the Department as a Research Fellow on July 15, 2015 to support the Global Surgery Initiatives program in Mbarara, Uganda. Dr. Nehra will be working with colleagues with the MGH Global Surgery team and the MUST team in Uganda to help improve surgical and trauma care. She received her medical degree from Stanford University School of Medicine and completed her surgical residency at MGH.

**Mauricio Villavicencio MD** joined the Division of Cardiac Surgery on September 10, 2015 as the Surgical Director of Lung Transplant & ECMO. He finished a general/cardiac surgery residency in Chile and received additional training in cardiovascular surgery and thoracic transplantation at the Mayo Clinic in Rochester, MN. He then did further training in Heart & Lung Transplantation with a focus on Lung Transplant at the Freedman Hospital in the UK for Professor John Dark. Mauricio returned to Chile in 2007, where he founded and directed two cardiopulmonary transplant programs.

## Announcements

**Michael D. Wertheimer MD**, Associate Professor of Surgery at Harvard Medical School, joined the Division of Surgical Oncology and the MGH Center for Global Health on October 1, 2015 to help develop a breast health program in Mbarara, Uganda. Dr. Wertheimer received his medical degree from the University of Pennsylvania School of Medicine and completed his surgical residency at Beth Israel Hospital and University of Massachusetts Medical School. Dr. Wertheimer has extensive experience in the development of breast health programs in Boston area hospitals and international locations and is currently serving as the Interim Chief of Surgery at the Cambridge Health Alliance.

### **Honors, Awards and Prizes**

**Myriam Martinez Aguilar MD** (Division of Trauma, Emergency Surgery and Surgical Critical Care) received a \$500 prize for her abstract, The Role of Computed Tomography in the Diagnosis of Necrotizing Soft Tissue Infections, presented at the 2015 MGH Clinical Research Day.

**Jay Austen MD** (Chief, Plastic and Reconstructive Surgery) was awarded *Best Experimental Paper in Plastic and Reconstructive Surgery* for calendar year 2014 for his manuscript, Comparative Analysis of Processing Methods in Fat Grafting (first author, MGH Plastics Resident, Harry Salinas).

**Jordan Bohnen MD**, a general surgery resident, received the *American College of Surgeons Excellence in Research Award* for his abstract, Changing Trends in the Operating Room (OR) Times Between Teaching and Non-Teaching Cases: Less Time for Learning? He also received a \$250 prize for his presentation at the MGH Clinical Research Day.

**Genevieve M. Boland MD PhD** (Surgical Oncology) has been selected to receive a KL2/Catalyst Medical Research Investigator Training (CMeRIT) Program grant from Harvard Catalyst. Dr. Boland has also been awarded by the Board of Trustees of the American Surgical Association Foundation Fellowship for her research proposal entitled, Analysis of Circulating Exosomes in Melanoma Responders/Non-responders to Immunotherapy, as well as grant funding through Ethicon from the Academy of Women Surgeons.

**Susan Briggs MD** (Trauma, Emergency Surgery and Surgical Critical Care) was awarded with the Manilla-based Gusi Peace Prize in Medicine and Humanitarianism. The Gusi Peace Prize recognizes individuals and organizations who have contributed to global peace and progress through a wide variety of fields. The Gusi Peace Prize, which is considered to be the Eastern equivalent of the Nobel Peace Prize, was founded by chairman Barry Gusi as a way to continue the work of his late father, Captain Gemeniano Javier

Gusi, a World War II guerrilla fighter who fought against the Japanese and later became a politician and human rights advocate, and his mother Madame Teodora Sotejo Gusi, a human rights advocate in her own right.

**Kathryn L. Butler MD** (Trauma, Emergency Surgery and Surgical Critical Care) received the Morgan-Zinsser Academy Fellowship in Medical Education from the Harvard Medical School for Academic Year 2015-2016 for her project: Validity and Feasibility of an OSCE for Student Assessment on the Surgical Clerkship.

**Amy S. Colwell MD** (Plastic and Reconstructive Surgery) received a *Best Paper Award* from the open access journal, *Plastic and Reconstructive Surgery—Global Open*, in the category of Best International Collaboration—Silver for her paper, Tissue Reinforcement in Implant-Based Breast Reconstruction, co-authored with Dr. Michael Scheflan from the Assuta and Herzlia Medical Centers, Tel Aviv, Israel.

**Peter J. Fagenholz MD** (Trauma, Emergency Surgery and Surgical Critical Care) received the *Teaching Award* from the MGH residents.

**Irving Ling MD**, a surgical resident, won the *Joseph Murray Award for Best Resident Paper* at the New England Society of Plastic Surgery Meeting.

**Matthew M. Hutter MD** (General and Gastrointestinal Surgery) was awarded \$2.6 M from the non-profit Patient Centered Outcomes Research Institute (pcori) headquartered in Washington, DC. The study, titled Comparative Effectiveness of Metabolic and Bariatric Surgery Using Patient Reported Outcome Measures (PROMs), will be conducted over four years and will address the comparative benefits of three surgical procedures used to treat individuals with nutritional and metabolic disorders: bypass, sleeve, and band. Importantly, the study will aid patients and doctors to determine which of the three operations will deliver the best result for a particular patient based on the characteristics and natural history of the patient's disease.

**Taibo Li**, an undergraduate engineering student at MIT, who works part-time as a research assistant in Dr. Kasper Lage Hansen's lab at MGH, has received the *Henry Ford II Scholar Award* from the MIT School of Engineering. This award is given to the undergraduate who achieves the highest academic standing at MIT after his/her 2nd or 3rd year.

**Eric Liao MD PhD** (Center for Regenerative Medicine) was awarded two major grants from the NIH this year – a UO1 FaceBase project and a PO1 functional genomics project. His fellows continue to present their work at national meetings (over 15 presentations in 2015). Dr. Liao also was ap-

pointed Fellow of the Society of University Surgeons and American Association of Plastic Surgeons.

**Andrew Loehrer MD**, a general surgery resident in the Codman Center for Clinical Effectiveness, received the *American College of Surgeons Excellence in Research Award* for his abstract, Healthcare Reform and Equality in Bariatric Surgery: Does Increased Access to Care Mitigate Disparities?

**Harald C. Ott MD** (Center for Regenerative Medicine) received the *Paper of the Year Award* at the New England Surgical Society for his paper, Regeneration and Orthotopic Transplantation of a Bioartificial Lung.

### Invited Lectures and Presentations

**Roy Phitayakorn MD** (General and GI Surgery) chaired the Surgical Education: Principles and Practice course at the American College of Surgeons meeting in Chicago, IL.

## Peers in Press

Selected publications (listed by division) between June 15, 2015 and October 15, 2015 with active links to PubMed.

### Burn Surgery

[Is real-time feedback of burn-specific patient-reported outcome measures in clinical settings practical and useful? A pilot study implementing the young adult burn outcome questionnaire.](#) **Ryan CM, Lee AF, Kazis LE, Shapiro GD, Schneider JC, Goverman J, Fagan SP, Wang C, Kim J, Sheridan RL, Tompkins RG.** *J Burn Care Res.* 2015 Aug 17. [Epub ahead of print] PMID: 26284638.

[Raman spectroscopy for label-free identification of calciphylaxis.](#) **Lloyd WR, Agarwal S, Nigwekar SU, Esmonde-White K, Loder S, Fagan S, Goverman J, Olsen BR, Jumlongras D, Morris MD, Levi B.** *J Biomed Opt.* 2015 Aug 1;20(8):80501. PMID: 26263412.

### Cardiac Surgery

[Comparative histology of aortic dilatation associated with bileaflet versus trileaflet aortic valves.](#) **Heng E, Stone JR, Kim JB, Lee H, MacGillivray TE, Sundt TM.** *Ann Thorac Surg.* 2015 Aug. [Epub ahead of print]. PMID: 26338050.

[Greater volume of acute normovolemic hemodilution may aid in reducing blood transfusions after cardiac surgery.](#) **Goldberg J, Paugh TA, Dickinson TA, Fuller J, Paone G, Theurer PF, Shann KG, Sundt TM 3rd, Prager RL, Likosky DS; PERForm Registry and MI Society of Thoracic and Cardiovascular Surgeons Quality Collaborative.** *Ann Thorac Surg.* 2015 Jul. [Epub ahead of print]. PMID: 26206721.

### Surgery News

[Percutaneous mitral valve edge-to-edge repair for degenerative mitral regurgitation.](#) **Dal-Bianco JP, Inglessis I, Melnitchouk S, Daher M, Palacios IF.** *Curr Treat Options Cardiovasc Med.* 2015 Jul;17(7):389. PMID: 26070587.

### General /GI Surgery

[Emotional intelligence and simulation.](#) **McKinley SK, Phitayakorn R.** *Surg Clin North Am.* 2015 Aug;95(4):855-67. PMID: 26210976.

[Recurrence and survival after resection of small intraductal papillary mucinous neoplasm-associated carcinomas \( \$\leq 20\$ -mm invasive component\): A multi-institutional analysis.](#) **Winter JM, Jiang W, Basturk O, Mino-Kenudson M, Fong ZV, Tan WP, Lavu H, Vollmer CM, Furth EE, Haviland D, Klimstra DS, Jarnagin WR, Lillemoe KD, Yeo CJ, Fernandez-Del Castillo C, Allen PJ.** *Ann Surg.* 2015 Jul 1. [Epub ahead of print] PMID: 26135696.

[Performance of the afirma gene expression classifier in Hürthle cell thyroid nodules differs from other indeterminate thyroid nodules.](#) **Brauner E, Holmes BJ, Krane JF, Nishino M, Zurakowski D, Hennessey JV, Faquin WC, Parangi S.** *Thyroid.* 2015 Jul;25(7):789-96. PMID: 25962906.

### Laryngeal Surgery

[Bedside injection medialization laryngoplasty in immediate postoperative patients.](#) **Barbu AM, Gniady JP, Vivero RJ, Friedman AD, Burns JA.** *Otolaryngol Head Neck Surg.* 2015 Aug 25. [Epub ahead of print] PMID: 26307574.

### Pediatric Surgery

[AAV9 delivering a modified human Mullerian inhibiting substance as a gene therapy in patient-derived xenografts of ovarian cancer.](#) **Pépin D, Sosulski A, Zhang L, Wang D, Vathipadielak V, Hendren K, Coletti CM, Yu A, Castro CM, Birrer MJ, Gao G, Donahoe PK.** *Proc Natl Acad Sci U S A.* 2015 Aug 11;112(32):E4418-27. PMID: 26216943.

[Endoscopic delivery of enteric neural stem cells to treat Hirschsprung disease.](#)

**Cheng LS, Hotta R, Graham HK, Nagy N, Goldstein AM, Belkind-Gerson J.** *Neurogastroenterol Motil.* 2015 Jul 17. [Epub ahead of print] PMID: 26190543.

[Health care utilization and charges following the enactment of the 2007 Graduated Drivers Licensing Law in Massachusetts.](#) **Sangji NF, Ramly EP, Kaafarani HM, Seethala R, Raybould T, Camargo CA Jr, Velmahos G, Masiakos PT, Lee J.** *J Pediatr Surg.* 2015 Jun 20. [Epub ahead of print] PMID: 26235531.

## Plastic Surgery

[Burn ear reconstruction using porous polyethylene implants and tissue expansion.](#) Fernandes JR, Driscoll DN. *J Burn Care Res.* 2015 Aug 17. [Epub ahead of print] PMID: 26284635.

[Adhesion and integration of tissue engineered cartilage to porous polyethylene for composite ear reconstruction.](#) O'Sullivan NA, Kobayashi S, Ranka MP, Zaleski KL, Yaremchuk MJ, Bonassar LJ, Randolph MA. *Biomed Mater Res B Appl Biomater.* 2015 Jul;103(5):983-91. PMID: 25196223.

## Surgical Oncology

[Early results from the flexibility in surgical training research consortium: Resident and Program Director attitudes toward flexible rotations in senior residency.](#) Klingensmith ME, Awad M, Delman KA, Deveney K, Fahey TJ 3rd, Lees JS, Lipsett P, Mullen JT, Smink DS, Wayne J. *J Surg Educ.* 2015 Jun 25. [Epub ahead of print] Review. PMID: 26119098.

[Lumpectomy specimen margins are not reliable in predicting residual disease in breast conserving surgery.](#) Tang R, Coopey SB, Specht MC, Lei L, Gadd MA, Hughes KS, Brachtel EF, Smith BL. *Am J Surg.* 2015 Jul;210(1):93-8. PMID: 25613784.

## Thoracic

[Lymph node assessment and impact on survival in video-assisted thoracoscopic lobectomy or segmentectomy.](#) Zhou H, Tapias LF, Gaissert HA, Muniappan A, Wright CD, Wain JC, Donahue DM, Morse CR, Mathisen DJ, Lanuti M. *Ann Thorac Surg.* 2015 Jul 10. [Epub ahead of print] PMID: 26165483.

[Engineered composite tissue as a bioartificial limb graft.](#) Jank BJ, Xiong L, Moser PT, Guyette JP, Ren X, Cetrulo CL, Leonard DA, Fernandez L, Fagan SP, Ott HC. *Biomaterials.* 2015 Aug;61:246-56. PMID: 26004237.

[Ex vivo non-invasive assessment of cell viability and proliferation in bio-engineered whole organ constructs.](#) Ren X, Tapias LF, Jank BJ, Mathisen DJ, Lanuti M, Ott HC. *Biomaterials.* 2015 Jun;52:103-12. PMID: 25818417

## Transplant

[Repeated injections of IL-2 break renal allograft tolerance induced via mixed hematopoietic chimerism in monkeys.](#) Yamada Y, Nadazdin O, Boskovic S, Lee S, Zorn E, Smith RN, Colvin RB, Madsen JC, Cosimi AB, Kawai T, Benichou G. *Am J Transplant.* 2015 Jul 17. [Epub ahead of print] PMID: 26190648.

[Market competition and density in liver transplantation: Relationship to volume and outcomes.](#) Adler JT, Yeh H, Markmann JF, Nguyen LL. *J Am Coll Surg.* 2015 Aug;221(2):524-31. PMID: 26206649.

[The race to liver transplantation: a comparison of patients with and without hepatocellular carcinoma from listing to post-transplantation.](#) Patel MS, Kohn R, Kratz JR, Shah JA, Markmann JF, Vagefi PA. *J Am Coll Surg.* 2015 Jun;220(6):1001-7. PMID: 25868408.

## Trauma, Emergency Surgery and Surgical Critical Care

[Tourniquet use at the Boston Marathon bombing: Lost in translation.](#) King DR, Larentzakis A, Ramly EP; Boston Trauma Collaborative. *J Trauma Acute Care Surg.* 2015 Mar;78(3):594-9. PMID: 25710432.

[Additional imaging in alert trauma patients with cervical spine tenderness and a negative computed tomographic scan: Is it needed?](#)

Mavros MN, Kaafarani HM, Mejaddam AY, Ramly EP, Avery L, Fagenholz PJ, Yeh DD, de Moya MA, Velmahos GC. *World J Surg.* 2015 Nov;39(11):2685-90. PMID: 26239776.

[Peer-to-peer physician feedback improves adherence to blood transfusion guidelines in the surgical intensive care unit.](#) Yeh DD, Naraghi L, Larentzakis A, Nielsen N, Dzik W, Bittner EA, Chang Y, Kaafarani HM, Fagenholz P, Lee J, DeMoya M, King DR, Velmahos G. *J Trauma Acute Care Surg.* 2015 Jul;79(1):65-70. PMID: 26091316.

## Vascular

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## ***Ether Day Luncheon Celebrates Long-time Employees***

Dr. Keith Lillemoe recognized long-time Department of Surgery employees at the Annual Ether Day Luncheon held on October 15, 2015, in the Sweet Room.



**Left to right:** Brenda Smith (30 yrs), Catherine Sundback (15 yrs), Christene Huang (20 yrs), Brian Fuchs (10 yrs), Marc de Moya (10 yrs), Keith Lillemoe (Chief), W. Gerald Austen (60 yrs), Ann Prestipino (35 yrs), Thomas Cochran (15 yrs), Matthew Hutter (20 yrs).

### Calendar

#### **2015 Meetings**

##### **Surgical Research Council (SRC)**

Sweet Conference Room (GRB 432)

Monday, November 9, 2015, 5:00 p.m.

##### **Department of Surgery Staff Meeting**

Sweet Conference Room (GRB 432)

Wednesday, December 16, 2015, 7:00 a.m.

#### **2016 Meetings**

##### **Research Town Hall Meeting**

Simches Large Conference Room #311

Monday, January 11, 2016, 5:00 p.m.

##### **Surgical Research Council (SRC)**

Thier 1 Conference Room

Monday, April 4, 2016, 5:00 p.m.

##### **Surgical Research Council (SRC)**

Thier 1 Conference Room

Monday, August 8, 2016, 5:00 p.m.

##### **Surgical Research Council (SRC)**

Thier 1 Conference Room

Monday, November 7, 2016, 5:00 p.m.

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While we do our best to maintain the distribution list for all staff in the Department of Surgery, we appreciate your help in letting us know of people who need to be added to or deleted from this list. Please feel free to share the newsletter with any staff we may have missed in this distribution.

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Keith D. Lillemoe, MD, Editor in Chief; Ann S. Adams, Editor and Contributing Writer

