

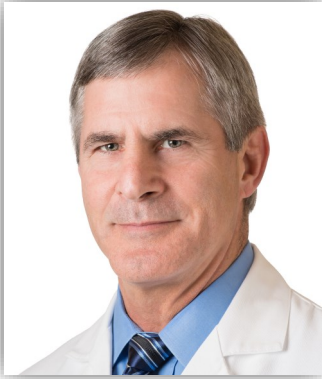
THE SURGICAL SCOPE



A newsletter for the faculty, staff, alumni, and friends of the Department of Surgery

September 2016

MESSAGE FROM THE CHAIR: Nathaniel Soper, MD



Thank you for taking time to peruse the 2016 version of the annual newsletter of the Northwestern Medicine Department of Surgery. I am excited to share important news from the department and our academic medical center. The department continues on an upward trajectory that engenders enthusiasm, and our people make it fun to come to work every day! From an institutional standpoint, the Northwestern Memorial Healthcare Corporation continues to grow and consolidate. Starting as a single hospital, we have now grown to encompass 7 hospitals and literally hundreds of sites of care. We are in discussions to merge with yet another 3-hospital system northwest of Chicago so that we can continue to serve patients close to where they live and work. In order to virtually connect all of the sites, we have begun the journey to install a single version of the EPIC electronic health record, which will undoubtedly be painful, but ultimately of great value. Construction

continues on the replacement hospital at Northwestern Lake Forest and the new research tower on the downtown campus, both of which are slated to open in 2018. We recently opened an additional 8 ambulatory operating rooms in the Lavin Outpatient Pavilion (16 in total) and are nearing the end of refurbishing all 55 of the existing operating rooms on the central campus. Northwestern Memorial Hospital itself was recently ranked #8 in this year's Honor Roll of Hospitals by U.S. News & World Report, supporting the belief that we work in one of the best institutions in the country. Members of the department are instrumental in the highly ranked specialties of cardiology and cardiac surgery, pulmonary care, cancer, and gastroenterology and GI surgery.

The Department of Surgery continues to support the tripartite mission of the academic medical center. Surgical investigators are creating an impact locally and nationally. Our research portfolio continues to grow; research funding grew by more than 20%



In This Issue

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- Partnering to Improve Surgical Care Quality
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- Updates and highlights: clinical, research, & education accomplishments
- Save the date: 2016—2017 Grand Rounds, Edelstone-Bendix Day, & Holiday Reception

year over year and we are ranked #17 in NIH funding among all surgery departments nationally. A pipeline of young investigators is being developed with 3 new mentored NIH K grants awarded this year in basic investigations of lung transplant immunology (Ankit Bharat), the immunologic effects of traumatic brain injury (Steven Schwulst) and the role of the gut microbiome in atherosclerosis (Karen Ho). Jason Wertheim's work on creating artificial organs, highlighted in this newsletter, may ultimately be a game changer in liver and kidney availability in the field of solid organ transplantation. Karl Bilimoria's health services research group has established an Illinois hospital collaborative to improve surgical outcomes and has highlighted discrepancies in reported measures that may influence national policy. Karl was also the principal investigator on the FIRST trial, which demonstrated the benefits of allowing increased flexibility in the work hours of surgical trainees, a trial that is being extended to accrue additional data. Clinical and technical innovation has always played a prominent role in our practices. Eric Hungness recently presented excellent long-term outcomes of the per-oral esophageal myotomy (POEM) procedure for achalasia at the American Surgical Association annual meeting, an experience recently accepted for publication by Annals of Surgery.

Our faculty are also very invested in undergraduate and graduate medical education. Jon Fryer, the Vice-Chair of Education, is the principal investigator of the SIMPL trial funded by the American Board of Surgery (ABS). This program is based on a smart phone application that measures and encourages graded autonomy of surgical trainees as they progress through their residency. Our residency graduates have established a 100% pass rate on the ABS qualifying exam over the past 7 years and have been able to go on to perform outstanding fellowships and assume positions of leadership across the U.S.A.

We were truly fortunate to host a number of outstanding visiting professors and lecturers this past year. Olle ten Cate, Dorry Segev, Mark Callery, Stephen Evans, Sam Finlayson, David Larson, Mark Allen and Elliot Chaikof all shared their time and knowledge with our faculty, staff and trainees, which was most appreciated.

Thus, despite the universal challenges facing academic surgery, the Department of Surgery at Northwestern Medicine is thriving! We have outstanding faculty, staff and trainees, are part of a successful organization, and exist in the heart of what we consider to be the greatest American city. I encourage you to read the newsletter for details of these highlights and many other aspects of our department. You will appreciate the significant progress we are making towards advancing our academic mission as described by our guiding principle—"Safer surgery today, better surgery tomorrow"!!

Respectfully yours,



Nathaniel J. Soper, MD, FACS

Loyal and Edith Davis Professor and Chair

Department of Surgery

Northwestern Medicine

NM Department of Surgery by the numbers

The mission of Northwestern Medicine’s Department of Surgery is centered on improving the lives of others through excellent clinical care, research and education. Our faculty, staff, residents, and fellows play an integral role in advancing our mission through our guiding principle—”Safer surgery today, better surgery tomorrow”.

65 Clinical Faculty

60 Contributed Services/Adjunct Faculty

13 Research Faculty

64 Residents

19 Fellows

Providing excellent clinical care...

	OR Cases	Clinic Visits	Work RVU's
Breast Surgery	1,111	8,587	29,438
Cardiac Surgery	967	2,807	57,312
Thoracic Surgery	817	2,349	21,947
Gastrointestinal and Oncologic Surgery	3,666	17,087	89,060
Organ Transplantation	918	14,284	53,906
Plastic Surgery	2,237	15,140	55,297
Trauma and Critical Care Surgery	698	655	47,750
Vascular Surgery	883	4,972	36,673

...advancing research and innovation...

\$22,322,016 Total Grant Funding • \$6,379,606 Federal Funding

63 Active Grants • 59 Active Clinical Trials

22 Unique Patents Filed

18,764 square feet of research space

...and teaching the surgeons of tomorrow.

RESIDENTS		FELLOWS	
General Surgery	32	Breast Surgery	2
Plastic Surgery	14	Trauma & Critical Care Surgery	2
Cardiothoracic	6	Thoracic Surgery	3
Vascular Surgery	5	Transplant Surgery	5
Preliminary	7	Vascular Surgery	4
		Cardiac Surgery	1
		Pediatric Surgery	2
Total Residents	64	Total Fellows	19

Partnering to improve surgical care quality

The Illinois Surgical Quality Improvement Collaborative (ISQIC) is a collaborative partnership of Illinois hospitals, the Illinois and Metropolitan Chicago Chapters of the American College of Surgeons, the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP), the Surgical Outcomes and Quality Improvement Center (SOQIC) at Northwestern University, and Blue Cross Blue Shield of Illinois. ISQIC was initiated on September 1, 2014 and to date there are 55 member hospitals. ISQIC is the largest surgical collaborative in NSQIP.



Led by Dept. of Surgery faculty Karl Bilimoria, MD MS (Director), Tony Yang, MD (Associate Director), and Jonah Stulberg, MD PhD, ISQIC has thrived in its third year and accomplished many notable achievements.

Through ISQIC, hospitals are able to apply for pilot grants to obtain funding to initiate a QI project(s), based on either their ISQIC or NSQIP data. Thirteen hospitals have applied for, and received, an ISQIC pilot grant. Over \$350,000 in funding has been provided to these hospitals to support their work. In addition to funding, hospitals must present their projects during an ISQIC meeting and must also submit an abstract to ACS NSQIP for possible presentation during the NSQIP annual meeting. Lessons learned will be shared with all participating hospitals. The collaborative can learn from each other with the common goal of improving care and creating a safer environment for the surgical patient in Illinois.

ISQIC was recently awarded a prestigious Agency for Healthcare Research and Quality (AHRQ) Health Services Research Projects (R01) grant for the application titled, "Evaluating the Implementation of a Multi-Component Quality Collaborative." The grant will focus on a rigorous evaluation of the implementation, adaptation, and effectiveness of the collaborative. The evaluations also provide valuable feedback on how to improve ISQIC and provide learning opportunities related to hospital engagement, culture, use of ISQIC tools, and QI projects.

ISQIC has also introduced an opioid reduction program. In partnership with the Illinois Prescription Monitoring Program (IL-PMP), ISQIC is offering participating collaborative hospitals the opportunity to integrate the search function for the IL-PMP database directly into their electronic medical record (EMR).

Northwestern Medicine Hospitals ranked amongst top hospitals in the nation

Four hospitals in the Northwestern Medicine system have been recognized by U.S. News and World Report in its 2016-2017 ranking of American's Best Hospitals.

Northwestern Memorial Hospital jumped to 8th in the nation and remains at No. 1 in Illinois and Chicago for the 5th consecutive year.

Northwestern Medicine Central DuPage ranked 7th in the Chicago Metro Region, as well as Illinois. Northwestern Medicine Delnor Hospital and Northwestern Medicine Lake Forest Hospital tied for 19th in the Chicago Metro Region.

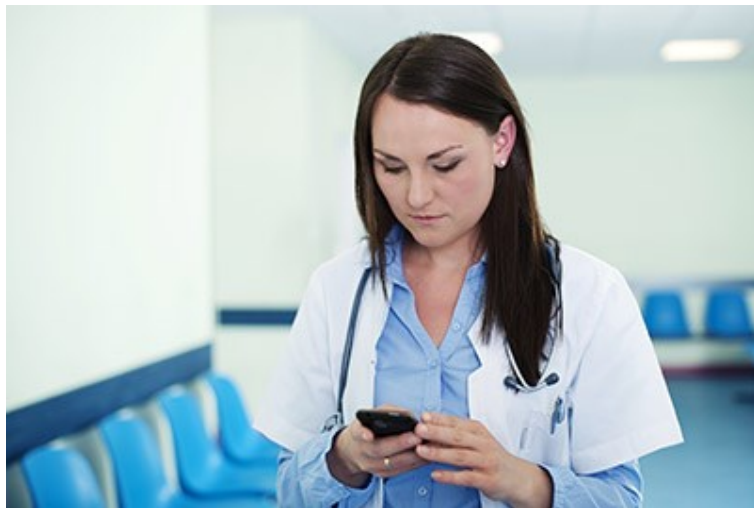
Many surgical specialties are also ranked among the best in America.

Northwestern Memorial Hospital's Cardiology & Heart Surgery program ranked 6th in nation, moving up from 9th. "We have focused on providing great clinical results



for our patients, offering the latest treatments and technologies and providing an environment for patients and our employees that is first rate. Every member of the Bluhm Cardiovascular Institute is responsible for our success from the greeter when the patients arrive, our nurses, our OR and lab teams to our world-class physicians." said Patrick McCarthy, MD, chief of cardiac surgery at Northwestern Memorial Hospital and executive director of the Northwestern Medicine Bluhm Cardiovascular Institute.

Additionally, the Cancer specialty was ranked 14th and Gastroenterology & GI Surgery was ranked 16th.



Using Smartphones to Assess Trainee Skills

The Department of Surgery is currently spearheading a multicenter study sponsored by the American Board of Surgery to determine the level of autonomy residents achieve by the end of their training and to better define the process of progressive procedural autonomy in general surgery residency training. Northwestern is collaborating with 14 other U.S. general surgery residency programs in this project which utilizes the Zwisch scale of progressive autonomy on the **SIMPL (System for Improving and Measuring Procedural Learning)** smart phone based app. The SIMPL app facilitates timely and expedient assessment of individual resident procedural performances. Additionally SIMPL provides faculty with the opportunity to dictate timely and specific formative feedback to the resident regarding their performance in the procedure that was just completed including suggestions for improving their performance that will enhance their progression towards procedural autonomy with the next procedures they perform. This verbal feed-

back can be immediately reviewed by the resident who can contact the faculty for further clarification if needed.

The individual performance assessments are added to a cumulative data base which can be used to monitor the progress of individual residents and their PGY cohorts. SIMPL can also be used to evaluate residents' overall progression to autonomy with specific individual procedures (i.e. laparoscopic cholecystectomy, open appendectomy, etc.) or types of procedures (i.e. laparoscopic, vascular, etc) to determine how many procedures it generally takes residents to achieve higher levels of autonomy (i.e. Passive Help, Supervision Only) with these procedures and in what PGY years these higher levels of autonomy are generally achieved.

These multicenter data can ultimately be used to help establish national norms and standards. With ongoing collection of data more complex issues may also be addressed such as what factors can positively influence residents' progression towards procedural autonomy overall and with individual procedures. Furthermore by linking SIMPL to surgical fellowship training it may be helpful in determining with which procedures it is most important to achieve higher levels of autonomy during residency training to best prepare residents for specific surgical sub-specialty fellowship training. This will be helpful in guiding individual curriculum modifications (i.e. Flexibility in Surgical Training) for residents destined for specific surgical sub-specialties.

Thus far over 10,000 resident procedural performances have been assessed in this multicenter study with Northwestern being one of the biggest data contributors in the consortium. We thank all contributing faculty and residents for their participation thus far and strongly encourage them to continue using SIMPL.

Nathaniel J. Soper, MD assumes role as President of the Society for Surgery of the Alimentary Tract (SSAT)

Nathaniel J Soper, MD, Chair of the Department of Surgery at Northwestern, has been elected to the role of President of the Society for Surgery of the Alimentary Tract (SSAT). The SSAT is committed to advancing the science and practice of surgery in the treatment of digestive disease.

In his role as President, Dr. Soper helps to shape the future of GI surgery internationally and oversees the SSAT's 58th Annual Meeting. This meeting is the world's leading educational forum for academicians, clinicians, researchers, students and trainees working in gastroenterology, hepatology, GI endoscopy, gastrointestinal surgery and related fields.



Developing tissues for a world of shortage



Jason Wertheim, MD, PhD, is an Assistant Professor in the Division of Organ Transplantation. The major area of interest in his laboratory is advancing the state of art in organ regeneration and tissue engineering to develop methods to grow livers, kidneys and hearts as a cutting-edge solution to

the organ shortage dilemma. Despite the success of organ transplantation to restore function and free patients from artificial support or potential death, presently ~120,000 patients within the United States still remain waiting for an organ for transplantation. The technical goals of his research are to synthesize replacement tissue to restore organ function, while the scientific goals are to develop the tools—such as cells and biomaterials—and uncover important knowledge that instructs how tissues regenerate to regain function. The primary organ systems of interest in Dr. Wertheim's laboratory are the liver, kidney and vasculature. His lab, along with collaborators at Northwestern, other institutions within the United States and abroad, are working to develop strategies to grow stem cells within 3D scaffolds, which are acellular organic materials made out of structural building blocks (collagens, laminins and fibronectins) of organs. The clinical implication of this model would be the ability to take a non-transplantable organ (e.g. a non-transplantable liver due to high fat content) and remove the cells through a process called 'decellularization' leaving the structural component of that organ intact, just devoid of cells (see Figure 1). The next step is to 'add back' stem cells, potentially derived from the intended recipient patient, to the scaffold and develop organ tissue over time as cells mature into functional tissue units. This year they demonstrated that this process leads to the formation of liver units, made from stem cells grown into hepatocytes, that

have higher synthetic and catalytic function than if the same cells were grown in 'gold-standard' tissue culture within collagen (Wang et al. Stem Cells Translational Medicine, 2016 Sep; 5(9):1257-67). In 2015 they developed and optimized strategies to produce scaffolds from kidneys to produce acellular kidney scaffolds from rodents (Caralt et al. American Journal of Transplantation, 2015 Jan;15(1):64-75.). Their principal findings subsequent to that study confirmed the retention of collagens (types I and III) and basement membrane proteins (collagen IV, laminin) by proteomics and confirmed by immunofluorescence staining, which depicts the distinct localization of these proteins within the vascular/glomerulus (collagen I, IV), nephron (laminin), and inter-

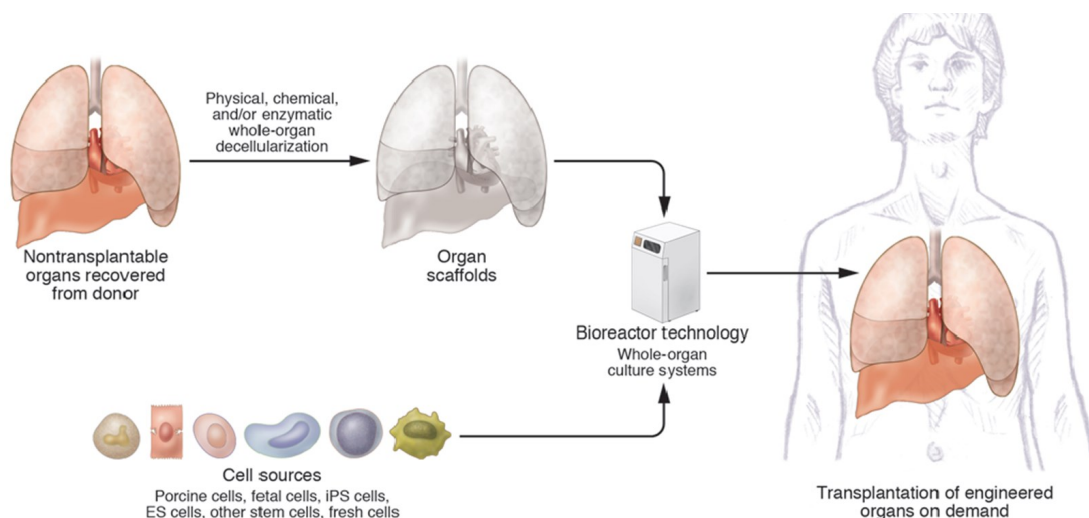


Figure 1: Though still in its infancy, this conceptual diagram depicts converging technologies of stem cell science and biomedical engineering of organ-derived scaffolds that together converge toward development of new tissues for transplantation. Reprinted with permission from Journal of Clinical Investigation 2012 Nov;122(11):3817-23.

stitial (collagen I) compartments. Ongoing studies in the lab are using these protein components and scaffolds to develop bioartificial nephrons through an NIH consortium called (Re)Building-a-kidney where they collaborate with an international group of stem cell biologists, renal developmental biologists and biomedical engineers. In 2016 Dr. Wertheim's laboratory was recognized with the Vanguard Prize from the American Society of Transplant Surgeons for their research in kidney tissue engineering to develop these bioartificial scaffolds. The recognition for this achievement belongs to the post-doctoral fellows, graduate students, undergraduate trainees and members of the supportive team in the Department of Surgery that together enables this research to advance the field of bio-engineering and regenerative medicine to one day develop bioartificial tissues for patients in need of replacement organs and tissues.

Faculty News: *Expansion and Promotion*

The Department of Surgery continues to grow and this year we were pleased to add eight new full-time faculty. Additionally, four of our faculty received promotions.

New full-time faculty



Jason Ko, MD, Division of Plastic Surgery, graduated medical school from the Duke University School of Medicine, completed an integrated Plastic Surgery residency through the McGaw Medical Center and a Hand and Microvascular Surgery fellowship at the University of Washington Medical Center in Seattle.



Nitin Katariya, MD, Division of Transplant Surgery, graduated medical school from the Honors Program in Medical Education (HPME) Northwestern University, completed a surgical residency at Wilford Hall Medical Center, University of Texas Health Science Center at San Antonio and his transplant surgery fellowship at Northwestern.



Jota Nakano, MD, Division of Cardiac Surgery, graduated medical school from Kyoto University Graduate School of Medicine, completed a General Surgery, Cardiovascular Surgery residency, and Cardiovascular fellowship at Kokura Memorial Hospital. He completed a cardiothoracic fellowship at Intermountain Medical Center and a Cardiac Valve Surgery and Mechanical Support and Cardiac Transplantation at McGaw Medical Center of Northwestern.



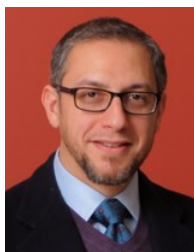
Andrei Churyla, MD, Division of Cardiac Surgery, graduated medical school from Gomel State Medical University in Belarus, completed a general surgery residency at Berkshire Medical Center, and a cardiothoracic fellowship at McGaw Medical Center of Northwestern.



Tolulope Oyetunji, MBChB, Division of Pediatric General Surgery, earned his MBChB from Johns Hopkins University, completed general surgery residency at Howard University Hospital, and completed a pediatric surgery fellowship at Children's Mercy Hospitals and Clinics in Kansas City MO.



Joseph Posluszny, MD, Division of Trauma/Critical Care Surgery, graduated medical school from the University of North Carolina School of Medicine, completed his surgical residency at Case Western Reserve University School of Medicine, and completed a surgical critical care fellowship at the University of Michigan.



Hassan Ghomrawi, PhD, Division of Pediatric General Surgery, earned his PhD from the University of Minnesota with a concentration in clinical outcomes research, insurance and economics. Dr. Ghomrawi joins Northwestern from Weill Cornell Medical College and will work primarily with Dr. Fizan Abdullah's research team.



Farooq Shahzad, MBBS, Division of Pediatric Plastic Surgery, earned his MBBS degree from Aga Khan University in Pakistan. He completed a general surgery residency at West Virginia University Hospitals and a Plastic Surgery residency Oregon Health and Science University. He completed a fellowship in Craniofacial & Pediatric Plastic Surgery at St Louis Children's Hospital and Reconstructive Microsurgery Fellowship at Memorial Sloan-Kettering Cancer Center.

Faculty promotions



Kevin Bethke, MD, breast surgeon, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



Michael Verta, Jr., MD, vascular surgeon, was promoted to Associate Professor of Clinical Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



Amy Halverson, MD, colorectal surgeon, was promoted to Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



Mamta Swaroop, MD, trauma/critical care surgeon, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.

Research: News and Highlights

2016 was a very productive and successful year in research for the Department of Surgery at Northwestern. From September 2015 through June 2016 we submitted 103 proposals with an estimated value of over \$45M. Our proposal volume is up over 14% from last year, with a 3 year compounded annual growth rate of 13.5%.

In terms of awards, the Department of Surgery has received \$12.9M in awards from September 2015 through June 2016. This is a 21% increase in our reporting award amount from where we were this time last year. Among the 17 clinical departments in Feinberg School of Medicine (FSM), the Department of Surgery has the second largest reporting award amount, trailing only behind the Department of Medicine. When taking into account all FSM departments (including Basic Science and other non-clinical) the Department of Surgery is still ranked in the top five in terms of awards.

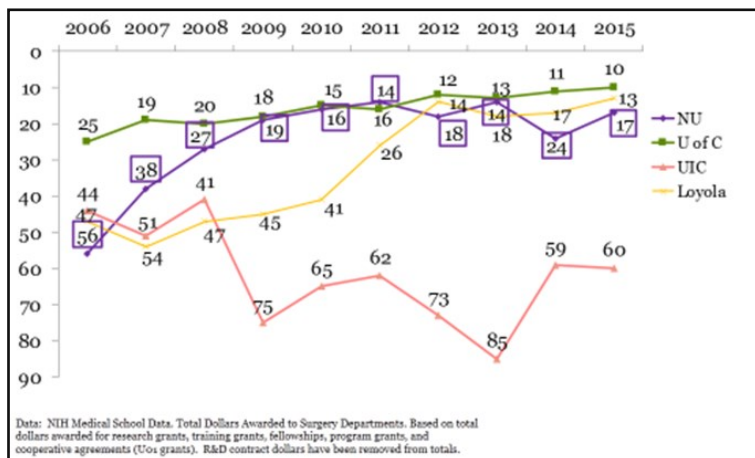
The Department of Surgery at Northwestern has climbed back up and has once again earned a top 20 slot in NIH rankings this past year. Additionally, our productivity has surpassed prior years as measured by our research expenditures.

Research highlights: significant new federal awards

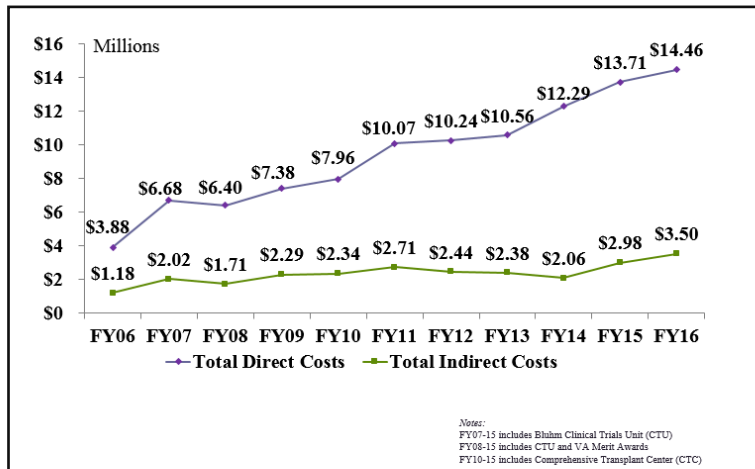
Department of Surgery faculty were extremely successful in securing significant new federal awards, detailed below:

- *Karl Bilimoria* – received an R01 through AHRQ - \$ 244,187 FY total costs
- *Elisa Gordon* – received an NIH R01 through NIDDK - \$780,061 FY total costs
- *Kathleen Grady* – received an NIH R01 through NHLBI - \$873,012 FY total costs
- *Karen Ho* – received an NIH K08 through NHLBI - \$159,276 FY total costs
- *Steven Schwulst* – received an NIH K08 through NIGMS - \$192,240 total costs

Local AMC Surgery Department NIH Rankings



Total Research Expenditures



Turning research into real-life

Our department is invested in finding innovative ways to treat illness and disease. We've finalized numerous patents this year, described below:

Faculty Name	Patents Filed	Patent Details
Gregory Dumanian	1	1 Continuation
Patrick McCarthy	4	2 Provisional, 1 Continuation, 1 Nationalization
Ramille Shah	5	1 Divisional, 3 PCT, 1 Utility
Seok Jong Hong	1	1 Continuation
Joseph Leventhal	2	2 Nationalization
Guillermo Ameer	7	7 PCT
Seema Khan	1	1 Provisional
Jason Wertheim	1	1 Provisional
Total Unique Patents Filed:	22	

Research: *Newly Funded Projects*

Breast Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Clare	Susan	The effect of BRCA1 haploinsufficiency on the transcriptome and phenotype of breast epithelial cells	\$49,961.00	9/1/2015	8/31/2016	New	Northwestern Memorial Hospital
Khan	Seema	Preclinical and clinical studies of breast cancer prevention with transdermal anti-progesterone agents	\$240,000.00	10/1/2015	9/30/2016	Noncompeting Continuation	Breast Cancer Research Foundation
Khan	Seema	Cancer Prevention Agent Development Program: Early Phase Clinical Research	\$613,150.00			Noncompeting Continuation	National Cancer Institute
Khan	Seema	The Role of Progesterone Receptor and Glucocorticoid Receptor in the Promotion of Tumorigenesis in BRCA1 Mutation Carriers	\$50,000.00	9/1/2015	8/31/2016	New	Northwestern Memorial Hospital
Khan	Seema	Task Order 7: CSMC CR - Full Task 7 Reporting Amount	\$425,298.00	9/24/2015	9/23/2016	Supplement	National Cancer Institute
Khan	Seema	Flaxseed Lignan as a Prevention Strategy for Pre-Menopausal Women at High Risk for Development of Breast Cancer	\$62,500.00	9/24/2015	9/20/2016	Noncompeting Continuation	Susan G. Komen Breast Cancer Foundation
Kulkarni	Swati	Bariatric surgery alters estradiol availability and estrogen receptor alpha activity in postmenopausal women	\$60,997.00	7/1/2015	9/30/2016	New	James Ewing Foundation

Clinical Trials Unit

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Eskandari	Mark	Fixed Price Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial (N-TA3CT)	\$51,280.00	3/1/2016	2/28/2017	New	National Institute on Aging
Grady	Kathleen	Pediatric Heart Transplantation: Transitioning to Adult Care	\$76,831.00	1/15/2013	5/31/2016	Noncompeting Continuation	Ann & Robert H. Lurie Children's Hospital of Chicago
Grady	Kathleen	Mechanical circulatory support: Measures of adjustment and quality of life	\$873,012.00	3/7/2016	2/28/2021	New	National Heart, Lung, and Blood Institute
Grady	Kathleen	Sustaining quality of life of the aged: Heart transplant or mechanical support?	\$601,543.00	7/15/2015	3/31/2020	Noncompeting Continuation	National Institute on Aging
Kibbe	Melina	Prot # JVS-100: STOP-PAD: A Phase 2B Randomized Double-Blind, Placebo Controlled - Study to Evaluate the Safety and Efficacy of JVS-100 Administered by Direct Intramuscular Injection as adjunct to revascularization of infrapopliteal lesions in subjects with advanced Peripheral Artery Disease (PAD) and tissue loss (ulceration and/or gangrene)	\$183,525.00	1/1/2016	1/1/2019	New	Juventas Therapeutics, Inc.
Malaisrie	S. Chris	Prot#2015-08:PARTNER 3 Trial: A Prospective, Randomized, Controlled, Multi-Center Study to Establish the Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients Requiring Aortic Valve Replacement who have Severe, Calcific, Symptomatic Aortic Stenosis	\$2,264,107.00	5/17/2016	5/17/2019	New	Edwards Lifesciences LLC
Malaisrie	S. Chris	Prot #HYBRID-002: Evaluation of the Thoraflex™ Hybrid Device for Use in the Repair or Replacement of the Ascending Aorta, Aortic Arch and Descending Aorta in an Open Surgical Procedure.	\$91,555.00	5/6/2016	5/6/2019	New	Terumo Cardiovascular Systems Corporation
McCarthy	Patrick	DMR Intermediate Risk: Degenerative Mitral Regurgitation in Intermediate Risk Patients 65 or older:Exercise Echocardiogram and HRQOL Post Surgery Preliminary Analysis	\$127,088.69	12/17/2015	12/7/2018	New	Evalve, Inc.
Pham	Duc Thinh	Prot #TNX-LVO-01: LEVO-CTS: A Double-Blind, Randomized, Placebo-Controlled Study of Levosimendan in Patients with Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass	\$60,750.00	3/4/2016	3/4/2019	New	Duke Clinical Research Institute
Rodriguez	Heron	Prot #771-0016: The LUCY Study: TriVascular Evaluation of Females who are Underrepresented Candidates for Abdominal Aortic Aneurysm Repair	\$110,420.50	11/23/2015	11/23/2018	New	TriVascular, Inc.

Research: *Newly Funded Projects*

GI/Endocrine Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Hungness	Eric	Effect of Laparoscopic Sleeve Gastrectomy on Esophagogastric Junction Distensibility	\$20,900	11/1/2015	10/31/2016	New	American Society for Metabolic and Bariatric Surgery

Surgical Oncology

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Bilimoria	Karl	The Impact of Public Reporting on Clinical Outcomes and Quality Improvement	\$1,888.00	1/1/2015	12/31/2017	Noncompeting Continuation	National Institute of General Medical Sciences
Bilimoria	Karl	The Impact of Public Reporting on Clinical Outcomes and Quality Improvement	\$62,006.00	1/1/2015	12/31/2017	Noncompeting Continuation	National Institute of General Medical Sciences
Bilimoria	Karl	Evaluating the Implementation of a Multi-Component Quality Collaborative	\$244,187.00	3/1/2016	12/31/2016	New	Agency for Healthcare Research and Quality
Halverson	Amy	The National Implementation of Team STEPPS	\$16,000.00	9/1/2015	9/14/2016	Noncompeting Continuation	Agency for Healthcare Research and Quality
Halverson	Amy	The National Implementation of Team STEPPS	\$16,000.00	9/1/2015	9/14/2016	Option Years	Agency for Healthcare Research and Quality
Yang	Anthony	Implementation of Optimal Venous Thromboembolism Prophylaxis in Diverse Hospitals	\$40,000.00	7/1/2016	6/30/2018	New	American College of Surgeons

Thoracic Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Bharat	Ankit	Pathogenesis of alveolopleural fistulae following lung resection.	\$40,000.00	7/1/2016	6/30/2017	Noncompeting Continuation	American Lung Association
Bharat	Ankit	High carbon dioxide impairs lung repair	\$162,086.00	7/1/2015	6/30/2017	Noncompeting Continuation	National Heart, Lung, and Blood Institute
Bharat	Ankit	Novel Autoimmune Pathways Leading to Chronic Lung Allograft Rejection	\$25,000.00	1/1/2016	12/31/2016	New	Northwestern Memorial Hospital
Bharat	Ankit	Tissue-restricted humoral autoimmunity lead to lung allograft rejection	\$30,000.00	7/1/2016	6/30/2017	New	Society of University Surgeons
Bharat	Ankit	High carbon dioxide impairs lung repair	\$50,000.00	7/1/2016	6/30/2017	New	Thoracic Surgery Foundation for Research and Education
Odell	David	Development of a Novel Lung Cancer Quality Improvement Collaborative in Illinois	\$50,000.00	7/1/2016	6/30/2017	New	AATS Graham Foundation

Trauma/Critical Care Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Schwulst	Steven	The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome	\$192,240.00	9/20/2015	8/31/2016	New	National Institute of General Medical Sciences
Schwulst	Steven	The role of innate immunity in traumatic brain injury-induced immune suppression syndrome	\$10,000.00	7/1/2015	6/30/2016	Noncompeting Continuation	Shock Society

Research: *Newly Funded Projects*

Plastic Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Dumanian	Gregory	Application of Targeted Reinnervation for People with Transradial Amputation	\$4,748.00	1/1/2014	6/30/2016	Noncompeting Continuation	Rehabilitation Institute of Chicago
Dumanian	Gregory	Targeted reinnervation as a means to treat neuromas associated with major limb amputation	\$614,914.00	9/30/2015	9/29/2016	Noncompeting Continuation	U.S. Army Medical Research and Materiel Command
Galiano	Robert	Prot #NU-AR-2015-01:Prospective, Placebo-Controlled, Double-blind, Randomized Intra-Individual Comparative Clinical study to Assess the Safety and the Efficacy of AR/101 Compared to Placebo when Administered Concomitantly with Standard of Care in Accelerating Re-epithelialization of Split Thickness Wounds in the Pan-nus of Volunteers Undergoing Elective Abdominoplasty	\$390,250.00	10/1/2015	10/1/2018	New	Arava Bio-Tech
Galiano	Robert	Prot #WMC22 USA BSN/VLU: Clinical Study to Evaluate the Effectiveness of Cutimed Siltec B and Cutimed Sorbact Dressings with Jobst Ulcer care for the management of Venous Leg Ulcers	\$53,301.00	9/21/2015	9/21/2018	New	BSN medical GmbH
Galiano	Robert	Prot #100-15-0001: A Prospective, Randomized, Single Center, Controlled Evaluation of the Effectiveness of OxyGenesys Topical Dissolved Oxygen Dressing in Accelerating the Healing of Split Thickness Skin Graft (STSG) Donor Sites Using the Northwestern University Abdominoplasty Scar Model	\$234,110.00	10/1/2015	10/1/2018	New	Halyard Health, Inc.
Galiano	Robert	A Prospective, Randomized Controlled Trial Evaluating the Effectiveness of the Dolphin Bed versus Air Fluidized Systems in Acute Post-Operative Management of Surgically Closed Pressure Ulcers	\$206,000.00	9/30/2015	9/30/2018	New	Joerns Healthcare, LLC
Galiano	Robert	The Effect of Various Allograft Tissue Forms in Excisional Wound Healing of a Spontaneously Occurring Diabetes Type II Murine Model	\$120,341.00	4/13/2016	4/1/2019	New	Musculoskeletal Transplant Foundation, Inc.
Galiano	Robert	Prot#CE/052/PIC: A Prospective, Randomized, Comparative Effectiveness Study of a Single-Use, Negative Pressure Wound Therapy System (PICO) versus a Traditional Negative Pressure Wound Therapy System (tNPWT) in the Treatment of Lower Extremity Ulcers	\$117,466.00	7/14/2015	7/1/2018	New	Smith & Nephew, Inc.
Galiano	Robert	In-vivo functional muscle regeneration utilizing an implantable modular bioreactor	\$175,535.00	1/1/2014	12/31/2016	Noncompeting Continuation	Wake Forest University Health Sciences
Mustoe	Thomas	Locally applied statins to reduce scarring	\$38,181.00	9/22/2013	9/22/2017	Noncompeting Continuation	Wake Forest University Health Sciences
Mustoe	Thomas	Locally applied statins to reduce scarring	\$116,664.00	9/22/2016	9/22/2017	Option Years	Wake Forest University Health Sciences

Pediatric Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Abdullah	Fizan	Documenting a Patient Safety Program to Eliminate Ionizing Radiation from the Diagnostic Evaluation of Acute Appendicitis in the Pediatric Population	\$64,500	9/8/2015	9/30/2015	New	MITRE Corporation
Barsness	Katherine	Unrestricted Education Grant for Pediatric Surgery Fellows' Course in Advanced MIS	\$2,000	9/4/2015	9/3/2016	New	Boston Scientific Corporation
Hunter	Catherine	Defining the Role of Tight Junctions, Protein Kinase A, and Apoptosis in NEC	\$90,000	7/1/2016	6/30/2017	Noncompeting Continuation	American Gastroenterological Association Institute
Hunter	Catherine	Defining bacterial virulence, cAMP and PKA in necrotizing enterocolitis	\$149,472	7/1/2016	6/30/2017	Noncompeting Continuation	National Institute of Diabetes, Digestive and Kidney Diseases

Research: *Newly Funded Projects*

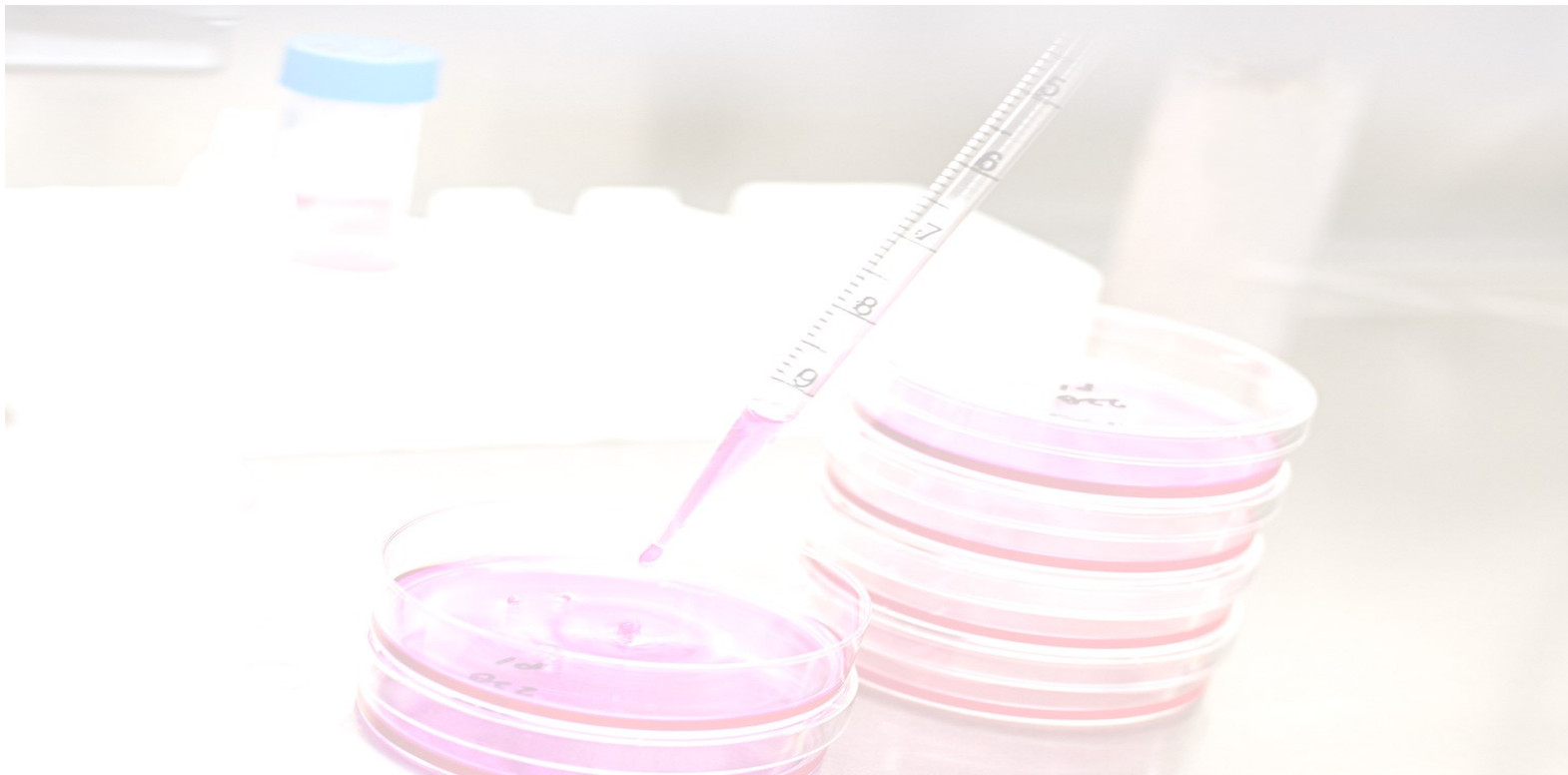
Transplant Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Abecassis	Michael	Unexpected/Travel Budget	\$15,630.00	1/31/2017	1/31/2017	Noncompeting Continuation	Benaroya Research Institute at Virginia Mason
Abecassis	Michael	Supplement for Kofi Atiemo	\$88,743.00	7/1/2016	6/30/2017	Noncompeting Continuation	National Institute of Diabetes, Digestive and Kidney Diseases
Abecassis	Michael	Transplant Surgery Scientist Training Program	\$102,028.00	7/1/2016	6/30/2017	Noncompeting Continuation	National Institute of Diabetes, Digestive and Kidney Diseases
Abecassis	Michael	Genomics for Transplantation: Discovery and Biomarkers	\$291,954.00	9/1/2015	3/31/2016	Option Years	National Institute of Allergy and Infectious Diseases
Abecassis	Michael	Protocol ITN056ST: Evaluation of Donor Specific Immune Senescence and Exhaustion as Biomarkers of Operational Tolerance Following Liver Transplantation in Adults	\$140,672.00	2/1/2016	1/31/2017	Noncompeting Continuation	National Institute of Allergy and Infectious Diseases
Abecassis	Michael	Mechanisms of MCMV reactivation in immunodeficient transplant recipients	\$442,961.00	7/1/2016	6/30/2017	Noncompeting Continuation	National Institute of Allergy and Infectious Diseases
Ladner	Daniela	Retrospective, real-world evaluation of clinical and healthcare resource utilization outcomes associated with Astagraf XL in a large US transplant center	\$237,000.00	12/9/2015	12/31/2016	New	Astellas Pharma Global Development, Inc.
Gordon	Elisa	Hines VA Contract for Elisa Gordon	\$23,450.00	6/1/2015	11/30/2015	New	Veterans Health Administration
Gordon	Elisa	Intergovernmental Personnel Act Agreement for Elisa Gordon	\$25,104.36	12/1/2015	9/30/2016	New	Veterans Health Administration
Gordon	Elisa	Dissemination of a Mobile Web App on Increased Risk Donor Kidneys	\$6,000.00	1/1/2016	6/30/2016	New	Gift of Hope Organ & Tissue Donor Network
Gordon	Elisa	The Social Support Criterion in Transplantation: Considerations for Distributive and Procedural Justice	\$13,276.00	1/1/2016	12/31/2016	New	Greenwall Foundation
Gordon	Elisa	A Culturally Targeted Transplant Program to Increase Live Donation in Hispanics	\$780,061.00	3/20/2016	2/28/2017	New	National Institute of Diabetes, Digestive and Kidney Diseases
Gordon	Elisa	Ethical and Sociocultural Implications of Genetic Testing in Transplantation	\$78,126.00	6/14/2016	5/31/2017	New	National Institute of Allergy and Infectious Diseases
Ladner	Daniela	Retrospective, EMR-based Study Examining the Clinical and Economic Burden Associated with Donor Specific Antibody (DSA) Formation among Kidney Transplant Patients	\$295,000.00	1/20/2016	12/31/2016	New	Astellas Pharma Global Development, Inc.
Leventhal	Joseph	Prot #HEORUSV200504: Assessing the Quality of Life of Patients Who Received Facilitating Cell Therapy (FCR001) in Living -Donor Kidney (LDK) Transplantation	\$20,200.00	1/6/2016	1/6/2019	New	Research Triangle Institute
Wertheim	Jason	Optimization and control of hepatocyte activity via bio-functional modification	\$151,311.00	4/1/2016	3/31/2017	Noncompeting Continuation	National Institute of Diabetes, Digestive and Kidney Diseases
Wertheim	Jason	Engineering Podocyte Microenvironments	\$50,000.00	7/1/2016	6/30/2017	New	American Society of Transplantation
Wertheim	Jason	Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune assessment of a rodent model of extremity transplantation	\$100,000.00	6/1/2015	5/31/2019	New	Northwestern Memorial Hospital
Zhang	Zheng Jenny	CSA - Targeting CD47 in Kidney Transplantation in Mice (Study 4)	\$2,900.00	9/1/2015	6/30/2016	New	University of Pittsburgh

Research: *Newly Funded Projects*

Vascular Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Eskandari	Mark	Vascular Surgery Fellowship 2016-2017	\$25,000.00	7/1/2015	6/30/2016	New	C. R. Bard, Inc.
Ho	Karen	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$128,680.00	1/25/2016	12/31/2016	New	National Heart, Lung, and Blood Institute
Ho	Karen	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$50,000.00	1/25/2016	12/31/2016	New	Society for Vascular Surgery Foundation and the American College of Surgeons
Kibbe	Melina	Fellowship in support of Neel Mansukhani "An Engineered Targeted Nanotherapy for Treatment of Atherosclerosis"	\$2,500.00	4/1/2016	3/31/2017	New	American Medical Association Foundation
Kibbe	Melina	IPA Agreement for Vera Shively	\$45,518.00	12/1/2009	9/30/2016	Competing Renewal	Jesse Brown VA Medical Center
Kibbe	Melina	IPA Agreement for Janet Martinez	\$30,918.00	12/1/2009	9/30/2016	Noncompeting Continuation	Jesse Brown VA Medical Center
Kibbe	Melina	IPA Agreement for Qun Jiang	\$37,341.98	12/1/2009	9/30/2016	Noncompeting Continuation	Jesse Brown VA Medical Center
Kibbe	Melina	IPA Agreement for Qun Jiang	\$20,805.00	12/1/2009	9/30/2016	Competing Renewal	Jesse Brown VA Medical Center
Kibbe	Melina	Development of a Targeted Nanotherapeutic to Prevent and Regress Atherosclerotic	\$50,000.00	1/1/2016	12/31/2016	New	Northwestern Memorial Hospital
Pearce	William	Vascular Surgery Scientist Training Program	\$291,366.00	5/1/2014	6/30/2019	Noncompeting Continuation	National Heart, Lung, and Blood Institute



Education: *Updates and Highlights*

Medical Student Education

The FSM class of 2016 included six students who matched into categorical general surgery positions in the following programs: Houston Methodist, Indiana University, Brigham & Women's Hospital, University of Arizona, Baystate Medical Center, and the University of California-Davis. An additional thirty-two students from the class of 2016 matched into surgical sub-specialties. Congratulations to Lily Saadat, recipient of the 2016 Julius Conn Award, given annually to the highest achieving surgery clerkship student based upon academic performance and professionalism.

Dr. Amy Halverson assumed the role of Clerkship Director in September 2015 and Dr. David Odell was named Associate Clerkship Director in October 2015. Trevor Barnum is the new surgery clerkship Nurse Educator as of January 2016. Trevor is joining our team from a leadership position with the SICU at NMH.

The third year surgery clerkship continues its tradition of innovation and use of simulation to improve the learning experience for the medical students. Students participate in an Operating Room Simulation where they learn how to function as part of the surgical team. The simulation focuses on communication, maintaining sterility, and situational awareness. Additionally, students undergo training to develop proficiency in practical skills such as Foley catheter insertion and arterial puncture.

The Department of Surgery is partnering with the Loyal Davis Surgical Interest Group to expand the surgical opportunities for first and second year students. Our goal is to broaden surgical experiences and increase exposure to the field of surgery earlier on in medical school. Students have had the opportunity to practice technical skills through faculty-led suturing sessions. Additionally, a formalized OR shadowing process has been established as well as a trauma call experience. Finally, the partnership between the Department and the Loyal Davis Surgical Interest Group provides a foundation for establishing valuable mentoring relationships.



Technique. We are grateful for the assistance of all the residents who took the time to teach the medical students during the Boot Camp.

Resident Programs

Northwestern continues its leadership in promoting innovation in graduate surgical education. In 2015, Dr. Jonathan Fryer, MD, Richard H. Young Professor of Surgery, received an American Board of Surgery sponsored grant to study the use of SIMPL, System for Improving and Measuring Procedural Learning, a smart-phone based resident evalua-

The Surgical Sub-Internship continues to grow in popularity among students. The sub-I is led by Dr. Abigail Tarbox and assisted by Lindsey Thome as the Nurse Educator. Unique aspects of this clerkship include mock pages simulating emergent scenarios and verification of clinical proficiencies in typical tasks assigned to PGY1 residents. In 2016, Ambulance Ride-Alongs were introduced as a new opportunity for the sub-I students; the ride-along provides real-life experience with trauma patients and a glimpse into pre-hospital medicine. The sub-internship team was also responsible for coordinating the Surgery Boot Camp for fourth year students who matched into a surgical or surgical sub-specialty residency. This year, two new stations were introduced to the Boot Camp: Peg Transfers and Sterile

Education: *Updates and Highlights*

tion system, at general surgery programs across the country. Originally designed to be used in 10 general surgery programs and collect data through June 2016, the study now includes 15 institutions and will collect data through December 2016. The ambitious study will gather data on residents' progression to operative independence in order to determine residents autonomy levels on "core" procedures at various PGY levels and to determine how many procedures a resident must perform before higher levels of autonomy are achieved. The app is designed to collect data about a resident's operative performance after each time s/he operates with an attending. As of September 2016, more than 26,000 evaluations have been collected by study participants. Institutions participating in the study, in addition to Northwestern, include Brigham and Women's Hospital, Indiana University, Massachusetts General Hospital, State University of New York Upstate Medical University, University of Kentucky, University of Minnesota, University of Nebraska, University of New Mexico, University of Texas Southwestern Medical Center, University of Washington, University of Wisconsin, University of Virginia, Vanderbilt University, and Washington University.

2016 Edelstone-Bendix Residents' Research Day

The 2016 Edelstone-Bendix Residents' Research Day was held on Friday, June 17th, 2016. This annual event featured presentations by residents and fellows, showcasing their outstanding work in both clinical and basic science research. The visiting professor this year was Elliot L. Chaikof, MD, PhD, Chairman, Department of Surgery, and Surgeon-in-Chief, Beth Israel Deaconess Medical Center; and Johnson and Johnson Professor of Surgery, Harvard Medical School. Dr. Chaikof also served as a guest judge for the chief resident research presentations. Edelstone-Bendix Day concluded with the graduation dinner and awards ceremony which was held at the Ritz Carlton hotel, where members of the Department's faculty, fellows and residents gathered to honor our graduates.

A number of awards were presented to fellows and residents for outstanding performance. The 2016 Alan B. Kanel Surgical Scholar Award is awarded for exceptional accomplishments achieved in the research laboratory. This year's recipient was **Ravi Rajaram, MD**, who was given the opportunity to present his research and was awarded a monetary prize.

The chief resident presentation award, which is based on the graduating general surgery residents' Edelstone-Bendix Residents' Day presentations, was awarded to **Jill Streams, MD**. Jill was also awarded a monetary prize for her winning presentation.

There were three open competitions for excellence in research. The winners presented their research and were awarded a monetary prize for winning in their respective categories:

Fellow Open Competition: Julie Dunderdale, MD (Breast Surgery)

Resident Basic Science Research Competition: Neel Mansukhani, MD (Vascular Surgery)

Resident Clinical Research Competition: Christina Minami, MD (General Surgery)

Welcoming in our new residents and fellows

We wish a warm welcome to the new residents and fellows of the Department of Surgery:

Sasa-Grae Espino and Elizabeth DesJardin
Breast Surgery

Erik Hernandez
Cardiac Surgery

Joliette Barnum and Jonathan Bean
Trauma & Critical Care Surgery

Brian Brajcich, Mickyas Eskender, Amy Holmstrom, Simon Moradian and Katherine Ott
General Surgery

Jocelyn Burke and Daniel Stephens
Pediatric Surgery

Ava Chappell and Aaron Kearney
Plastic Surgery

Rebecca Barr, Evan Cumpston, Jordan Kapke, Maria Kotarska, Connor Morton, Allison Glinka Przybysz and Matthew Snyder
Preliminary Surgery

Azad Karim and Steven Miller
Thoracic Surgery

Alex Darani and Davy Woodland
Transplant Surgery

Matthew Chia, Ashish Jain and Michael Soult
Vascular Surgery

Education: *Updates and Highlights*

2016 Edelstone-Bendix Residents' Research Day continued...

Fellow as Teacher and Resident as Teacher awards are bestowed on those Department of Surgery trainees who meet a series of eligibility criteria. Awardees are regarded as excellent role models, clinicians and learners to their peers, students, and other health professionals. They are noted to make teaching a purposeful activity in their daily efforts and reliably participate in Department of Surgery education-related activities and reporting systems.

The following individuals were recipients of the
2016 Resident as Teacher Award:

Tarik Yuce, MD	PGY-1	General Surgery
Ryan Ellis, MD	PGY-2	General Surgery
Christopher Mehta, MD	PGY-3	Thoracic Surgery
Brett Duncan, MD	PGY-4	General Surgery
Ravi Rajaram, MD	PGY-4	General Surgery
Christopher Davis, MD	PGY-5	General Surgery
Mark Knab, MD	PGY-5	General Surgery
Jill Streams, MD	PGY-5	General Surgery
Ezra Teitelbaum, MD	PGY-5	General Surgery

The following individuals were recipients of the
2016 Fellow as Teacher Award:

Dustin Yoon, MD	Vascular Surgery
Mila Ju, MD	Vascular Surgery
Courtney Morgan, MD	Vascular Surgery
Micah Girotti, MD	Vascular Surgery
Leah Tatebe, MD	Surgical Critical Care
Sifrance Tran, MD	Pediatric Surgery

We congratulate the following 2016 Department of Surgery graduates who were recognized at the Edelstone-Bendix Day awards ceremony:

Breast Surgery	Julie Dunderdale, MD; Patience Odele, MD
Pediatric Surgery	Sifrance Tran, MD
Transplant Surgery	Cesar Escareno, MD; Thomas Gallagher, MCh, FRCSI
Trauma/Critical Care Surgery	Ragavan Narayanan, MD; Leah Tatebe, MD
Vascular Surgery	Mila Ju, MD; Dustin Yoon, MD
General Surgery (pictured right)	Mark Knab, MD; Jill Streams, MD; Christopher Davis, MD; Ezra Teitelbaum, MD; Swami Gnanashanmugam, MD



Graduating General Surgery residents pictured with Dr. Shari Meyerson and Dr. Nathaniel Soper



Mark Knab, one of the graduating chief residents (pictured left with Dr. Nathaniel J. Soper, Dept. Chair, and Dr. Robert Kelsey, Chief of Staff for NMH), in June 2016 was selected as the 2016 recipient of the Dr. Susan Perlman Award by the NMH Medical Staff Officers. The Perlman award is given to one senior trainee chosen from all of the senior residents and fellows in the institution who shows not only academic excellence, but has special leadership skills and compassion for patients. We are thrilled that Mark has received such a well-deserved award.

Division Updates: *Breast Surgery*



From left to right:

Dr. Nora Hansen (Chief)

Dr. Seema Khan

Dr. Swati Kulkarni

Dr. Kevin Bethke

Clinical

The Division of Breast Surgery again demonstrated strong clinical performance in fiscal year 2015. The division realized increased volume over last year as a result of the full integration of Dr. Swati Kulkarni and Dr. Kevin Bethke into Northwestern Medicine. Dr. Kulkarni continues to build her practice with clinical interest in breast cancer, high risk lesions, breast cancer risk assessment, chemoprevention, male breast cancer, breast cancer in pregnancy, hereditary breast cancer, and benign breast disease. Dr. Bethke's practice has continued to thrive upon joining Northwestern. In addition to his strong clinical practice, Dr. Bethke supports the health system's strategic goals by serving as the Surgical Director of Regional Breast Cancer Care. As part of this, Dr. Bethke has made great progress in leading a combined working group of the Breast Surgery and Plastic Surgery faculty to discuss operational and strategic goals related to their shared patient population.

This year, the Division of Breast Surgery and Lynn Sage Comprehensive Breast Center achieved a significant accomplishment in reaccreditation by the National Accreditation Program for Breast Center (NAPBC), which recognizes our achievement in collaborative, multi-disciplinary care planning for our patients. The breast center was received a three-year full reaccreditation and continues to be the largest center accredited by the NAPBC in Chicago and Illinois.

Research

Dr. Seema A. Khan, Professor of Surgery, and the Bluhm Family Professor of Cancer Research, Co-Leader Breast Cancer, has excelled as the leader of the Northwestern Cancer Prevention Consortium (NCPC). This is one of five NCI-funded consortia, structured for the conduct of early phase, biomarker-based trials of cancer preventions agents. Through this initiative this year, Dr. Khan has had several new studies funded: "Evaluating Intermittent Dosing of Aspirin for Colorectal Cancer Prevention"; "Immunogenicity of Nonavalent HPV Vaccine Administered Prior To Living Donor Renal Transplantation in Adult Women"; "Statin Therapy to Reduce Disease Progression from Liver Cirrhosis to Cancer"; and "Phase IIB trial of neoadjuvant oral tamoxifen versus transdermal 4-hydroxytamoxifen in women with DCIS of the breast". She also has four new studies open to accrual at other institutions, including Memorial Sloan Kettering, University of Colorado, Denver, Cedars Sinai Medical Center and Xijing Hospital, Xi'an, China.

Dr. Swati Kulkarni, Associate Professor of Surgery, has realized a number of accomplishments in her first year at Northwestern. She received funding from the Society of Surgical Oncology for an investigator-initiated trial to further investigate the relationship between obesity and breast cancer. This study identifies women who are naïve to breast cancer that have undergone bariatric surgery at NMH and follows them throughout their weight loss in order to determine possible breast cancer risk factors. Dr. Kulkarni also received funding from the Robert H. Lurie Comprehensive Cancer Center for a pilot study investigating the effects of conjugated estrogens/bazedoxifene in post-menopausal women undergoing therapy for DCIS. This combination therapy has shown numerous benefits for women experiencing menopausal symptoms, however there is significant hesitation from both physicians and patients on prescribing estrogen therapy following the Women's Health Initiative studies. This pilot study also serves to gauge the feasibility of a large phase II multicenter clinic trial.

Education

Dr. Julie Dunderdale and Dr. Patience Odele were the graduating Lynn Sage Breast fellows during fiscal year 2016 and we wish them great success in their future endeavors. On August 1, 2016, Dr. Sasa-Grae Espino and Dr. Elizabeth DesJardin joined the Division of Breast Surgery as the 2016-2017 Lynn Sage Breast Fellows. Dr. Espino joins Northwestern Medicine from Virginia Commonwealth University and Dr. DesJardin comes to us from Maine Medical Center.

In addition to welcoming new fellows this year, the Lynn Sage Breast Fellowship successfully received reaccreditation from the Society of Surgical Oncology. The Lynn Sage Breast Fellowship continues to provide a unique, multi-disciplinary opportunity for physicians wishing to pursue breast surgery.

Division Updates: *GI and Oncologic Surgery*



From left to right:

Dr. Michael McGee
Dr. Jonah Stulberg
Dr. Cord Sturgeon
Dr. Anthony Yang
Dr. Nathaniel Soper
Dr. Anne-Marie Boller
Dr. Eric Hungness
Dr. Scott Strong
Dr. Karl Bilimoria
Dr. Jeffrey Wayne
Dr. David Bentrem
Dr. Amy Halverson
Dr. Dina Elaraj
Dr. Alexander Nagle

Clinical

The endocrine and gastrointestinal surgeons spent a significant amount of time this past year working with colleagues from the Department of Medicine's Division of Gastroenterology and Hepatology to design the new clinical space for the Digestive Health Center (DHC). The DHC will be comprised of outpatient clinical practices and ambulatory endoscopy services, and located in a state-of-the-art facility on the 16th floor of the Lavin Family Pavilion. The outpatient practices will include providers from multiple medical and surgical disciplines as well as specialists from behavioral health and nutritional therapy. These teams will be aligned according to the following diagnosis groups: colorectal neoplasia, esophageal and swallowing disorders, functional bowel disorders, hepatobiliary disease, inflammatory bowel disease, obesity, and pancreatic disease. The new facility will be open to outpatient visits beginning November 7, 2016, followed by ambulatory endoscopy on November 21, 2016.

The Division also supported the development of an Enterostomal Therapy Program to support ostomy patients visiting the DHC. As part of this effort, our Clinical Nurse Specialist (Karen Blum, CNS) provides consultation, education, and follow-up care for patients with ostomies in the outpatient setting, and partners with her inpatient colleagues to streamline processes and workflows for the ostomy patients at Northwestern Medicine.

The Surgical Oncology Faculty continued to play an integral role within the Robert H. Lurie Comprehensive Cancer Center (RHLCCC). In addition to presenting at RHLCCC symposiums, the team implemented new services for expedited lymph node consults by the surgical oncology advanced practice provider (Danielle Basinger, APN). Through this service, any Northwestern Medicine provider can page 1-NODE and receive a response from Ms. Basinger who will go to the patient bedside or schedule an outpatient biopsy appointment. This expedited access has been well received by surgical oncology patients and referring providers.

In partnership with the RHLCCC leadership team, Pharmacy, and Amgen, Inc., Jeffrey Wayne, MD, and Karl Bilimoria, MD, MS, implemented a new local treatment for unresectable cutaneous, subcutaneous, and nodal lesions in patients with melanoma recurrent after initial surgery. Talimogene laherparepvec is a genetically modified oncolytic viral therapy approved for this use by the US Food and Drug Administration. Due to the specific indications and insurance coverage issues, new processes and workflows were developed to provide comprehensive support for patients undergoing treatment with talimogene laherparepvec. Since its implementation in March 2016, three patients have undergone treatment using this new therapy.

Research/Education

The Division of GI and Oncologic Surgery would like to highlight a few achievements in FY16:

- Michael McGee, MD, led efforts to research, develop, and pilot an Enhanced Recovery After Surgery (ERAS) program at Northwestern Medicine. As part of Dr. McGee's research, he identified a group of key stakeholders who conducted site visits to the Mayo Clinic and Cleveland Clinic. This initiative will be piloted in the DHC with colon and rectal surgery patients who will receive communications based upon a drafted clinical care pathway. As a result, the clinical team will be able to assess the patient's preparedness for surgery and postsurgical experience with the goal of accelerating the recovery process and reducing inpatient readmissions. In preparation for the pilot, Dr. McGee also partnered with the Northwestern Medicine IT team to develop a mechanism in which patients would be scheduled for telephone nurse appointments at key points in the patients' surgical care.
- Eric Hungness, MD, and Nathaniel Soper, MD, authored 17 peer reviewed publications and 6 book chapters about PerOral Esophageal Myotomy (POEM). They also presented findings at the 2016 American Surgical Association meeting demonstrating a 92% long-term success rate for POEM procedures..

Division Updates: *Cardiac and Thoracic Surgery*



Top row from left to right:

Dr. Jota Nakano
Dr. Eriberto Michel (resident)
Dr. Jonathan Tomasko (fellow)
Dr. Andrei Churyla
Dr. Daniel Enter (resident)
Dr. Paul Devlin (resident)
Dr. Payne Stanifer (fellow)
Dr. Chris Mehta (resident)
Dr. Danielle Smith (resident)

Bottom row from left to right:

Dr. Ankit Bharat
Dr. Shari Meyerson
Dr. Chris Malaisrie
Dr. Patrick McCarthy
Dr. Malcolm DeCamp
Dr. Duc Thinh Pham
Dr. David Odell
Dr. Matheau Julien
Dr. Robert Vanecko

Cardiac Surgery

Clinical

The Division of Cardiac Surgery is pleased to have concluded yet another successful year. We have climbed in the U.S. News & World Report rankings, moving up to the No. 6 spot among the nation's most elite programs! The BCVI has recognized unprecedented success in its ranking since its launch in 2005 as an unranked program. Additionally, for the ninth straight year, the heart and heart surgery program has been ranked #1 in Chicago, Illinois. A large contributor to this recognition as an elite program has been our progressive treatment of heart valve disease and our role in helping to pioneer the latest advances in transcatheter valve therapies. Northwestern has the highest volume and most experienced Transcatheter Aortic Valve Replacement (TAVR) program in Illinois, performing more than 500 procedures to date. The program continues to expand the range of patients it treats and participate in clinical trials that shape future technologies. Early in 2016, Northwestern Medicine was the first in the Midwest and second in the United States to repair the tricuspid heart valve using the Trialign system as part of the SCOUT Trial. Northwestern Medicine has the same distinction of being the first in the Midwest and second in the United States for treating severe mitral regurgitation with the TIARA device.

Research

The division welcomed Dr. James Cox, Evarts A. Graham Professor of Surgery Emeritus at Washington University School of Medicine, to the annual Cardiothoracic Surgery Alumni Day, which was held in June 2016. The event featured research presentations by faculty and fellows, as well as Dr. Cox's keynote lecture entitled *What is Important and What is not in the Interventional Treatment of AF*.

Select ongoing research efforts by our faculty include:

- Dr. Patrick McCarthy is one of only a few select U.S. physicians performing as PI for the TIARA-I Trial: Early Feasibility Study of the Neovasc Tiara™ Mitral Transcatheter Heart Valve.
- Dr. Duc Pham is participating in MOMENTUM 3: Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with HeartMate 3™ Continued Access Protocol. He is also as PI for LEVO-CTS: A Double-Blind Placebo-Controlled Study of Levosimendan in Patients with Left Ventricular Systolic Dysfunction Undergoing Cardiac Surgery Requiring Cardiopulmonary Bypass.
- Dr. S. Chris Malaisrie, (PI) is participating in the PARTNER 3 Trial: A Prospective, Randomized, Controlled, Multi-Center Study to Establish the Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients who have Severe, Calcific, Aortic Stenosis Requiring Aortic Valve Replacement and Magna Post Approval Study: Carpentier- Edwards® Perimount Magna® Mitral Pericardial Bioprotheses Models 7000/7000TFX and Carpentier-Edwards® Perimount Magna® Mitral Ease™ Pericardial Bioprosthesis Model 7200TFX;
- Dr. Kathleen Grady (PI) received funding for SUSTAIN-IT, Sustaining Quality of Life of the Aged: Heart Transplant or Mechanical Support, MCS A-QOL: Mechanical Circulatory Support: Measures of Adjustment and Quality of Life and TRANSIT, Pediatric Heart Transplantation: Transitioning to Adult Care.

Education

We are pleased to welcome strong trainees for this academic year. Dr. Azad Karim joined the Integrated Cardiothoracic Surgery Residency Program and Dr. Erik Hernandez joined the Advanced Cardiac Surgery Fellowship. Additionally, we wish great success to the departing trainees as they embark on their careers: Dr. Andrei Churyla completed the Cardiothoracic Fellowship and Dr. Jota Nakano completed an Advanced Cardiac Surgery Fellowship. Both Drs. Churyla and Nakano joined the full-time faculty in the Division of Cardiac Surgery in July 2016.

Division Updates: *Cardiac and Thoracic Surgery*

Thoracic Surgery

Clinical

The Division's ongoing pursuit of superior and reliable clinical care was again demonstrated during fiscal year 2016. Our team not only demonstrated strong clinical performance, as achieved by performing ahead-of-budget for divisional wRVUs by 23.7%, we also maintained strong performance with respect to our patient satisfaction (Likelihood to Recommend, or LTR), concluding the year at 88.9% top-box rated scoring. July 4, 2016, greeted the campus with the second-year anniversary of the Northwestern Medicine Lung Transplant program. The program, to-date, has performed 34 lung transplants, of which 13 were performed during the operating year. This program also received its initial certification from the Centers for Medicare and Medicaid Services (CMS) on December 29, 2015, following a comprehensive site visit replete with a quality review, program participant interviews, policy and procedure assessment, and direct observation.

The division used FY16 to focus on maturation of the growing use of veno-venous extracorporeal membrane oxygenation (ECMO) for acute respiratory failure. Led by Dr. Ankit Bharat, the division partnered with colleagues across campus (including Departmental colleague Dr. Duc Pham) in order to formalize a cogent business model and unique clinical pathways in order to grow this important program. It is the hope of the well-represented, multidisciplinary team that we begin to partner with other local institutions (including our Health System partners in the North and West regions) to offer an ECMO transportation capability—a first in the region.

Research

Dr. Odell received the American College of Surgeons National Surgical Quality Improvement Program's (ACS NSQIP) "Best Abstract" award at the 2016 Annual Meeting. He also received the Oz-Lemole Research Grant from the AATS Graham Foundation during 2016. Dr. Bharat was awarded the TSF-NIH Matching Grant from the Thoracic Surgery Foundation; the Junior Faculty Research Award from the Society of University Surgeons; the Dixon Translational "Young Investigator" Research Grant from NUCATS; and a Biomedical Grant Renewal award from the American Lung Association.

Division-wide, the clinical enterprise continued active participation in the national ProvenCare Lung Cancer Collaborative. We have now enrolled more than 1,500 patients in an effort to reliably deliver higher quality lung cancer care. Northwestern continues to be a leading institution with respect to volume of study subject enrollment.

The Division expanded the partial wave spectroscopy (PWS) pilot project of early detection of lung cancer being conducted in collaboration with Dr. Vadim Backman from the McCormick School of Engineering from an approved 80 patient participation target to an approved 500 patient participation target as the pilot project has steadily shown promising results. The PWS study investigators hope to use our own preliminary data to support testing this technology nationwide as part of the NCI "Cancer Moon Shot" initiative.

Education

The 23rd Annual Thomas W. Shields Lecture was hosted by the Division on June 8, 2016, and featured guest lecturer Mark S. Allen, MD. Dr. Allen joined us for this honorary event from the Mayo Clinic whereby he serves as Professor of Surgery in the Division of General Thoracic Surgery at the Mayo Clinic School of Medicine. Dr. Allen also currently serves as Immediate Past President for The Society of Thoracic Surgeons, Chair of the Board of the Joint Council on Thoracic Surgery Education, and has served as Examination Chair for the American Board of Thoracic Surgery. His keynote presentation focused on tracheal surgery.

Dr. Shari Meyerson was elected to membership in the American Association for Thoracic Surgery (AATS) during May of 2016. She also had the honor of being the recipient of the Department's "Excellence in Teaching Award." Dr. Bharat was elected as a member to the Program Committees of both the Association for Academic Surgery (AAS) and the American Thoracic Society (ATS). Dr. David Odell assumed the role of Associate Director for our School of Medicine 3rd year Surgery Clerkship.

Division Updates: *Vascular Surgery*



From left to right:

Dr. Andrew Hoel

Dr. Heron Rodriguez

Dr. William Pearce

Dr. Mark Eskandari (Chief)

Dr. James Yeo (Emeritus)

Dr. Karen Ho

Dr. Tadaki Tomita

Clinical

The 40th annual Northwestern Vascular Symposium was held in Chicago, IL, December 10-12, 2015. The symposium provided a comprehensive analysis of the current management of vascular disease as it relates to treatment of extracranial cerebrovascular and supra-aortic trunk disease, new approaches to lower extremity arterial and venous problems, recent cutting-edge developments in open and endovascular approaches to treat aortic and visceral arterial disease, novel techniques for hemodialysis access, complex venous problems, and upper extremity disorders. Fifty-two world-renowned physicians presented on their areas of expertise. One-hundred-seventy-five registered attendees represented the United States and several other countries.

Dr. Andrew Hoel was named the Medical Director of Surgical Services for Northwestern Memorial Hospital.

Research

Dr. Melina Kibbe, former Vice-Chair of Research for the Department of Surgery and Vascular Surgeon, has been named Chair of the Department of Surgery at University of North Carolina as of July 1, 2016. Dr. Kibbe's expertise, enthusiasm, and leadership will be missed but we are confident she will excel in her new role.

Dr. Mark Eskandari was granted an adjunct appointment as Professor of Medical Education and took on the role of co-program director of the NIH-funded Vascular Surgery Scientist Training Program (T32).

Dr. Karen Ho received an NIH-funded K08 grant and a Society for Vascular Surgery Foundation/American College of Surgeons Mentored Clinical Scientist Research Career Development Award to study the role of gut microbiota in neointimal hyperplasia after vascular injury.

Dr. Jonathan Rink and Dr. Molly Wasserman completed the T32 Vascular Surgery Scientist Training Program on June 30. Dr. Rink is continuing his research career as a postdoctoral fellow at Northwestern University. Dr. Wasserman has returned to her fourth year in the Northwestern General Surgery Residency Program. The incoming T32 trainees for July 1, 2016, are Dr. Eddy Blay, who will be working with Dr. Karl Bilimoria doing outcomes research, and Dr. Michael Nooromid, who will work with Dr. Karen Ho in the vascular basic science laboratory.

Education

Drs. Karen Ho and Mark Eskandari received awards for Excellence in Teaching in the Surgery Clerkship. Additionally, Dr. Heron Rodriguez was appointed as the Program Director for the NU Vascular Surgery Integrated Residency and was elected to the position of Secretary for the Spanish Speaking Vascular Surgery Society (CVVH).

We congratulate our two graduating fellows, Dr. Mila Ju and Dr. Dustin Yoon. They are the first two trainees to graduate from Northwestern's Integrated Vascular Surgery Residency program (0+5). Dr. Ju was the first trainee to join the program in 2009. After three years of residency, she took a two-year break, sponsored by the NIH-funded Vascular Surgery Scientist Training Program, to study outcomes research techniques and also achieved a Master of Science in Clinical Investigation degree. In 2014, Dr. Ju returned to the Division to complete the Integrated Residency program. She has joined the Lehigh Valley Health Network in Allentown, PA. Dr. Yoon joined the Integrated Vascular Surgery Training Program (0+5) in 2011 and pursued his five years of training without a research break. He has joined Horizon Vascular Specialists, Inc. in Germantown, MD. Dustin Yoon received the John R. Pfeifer Best Venous Paper Award at the Midwestern Vascular Surgery Society meeting.

On July 1, 2016, the Division welcomed Dr. Matthew Chia to the Vascular Surgery residency program and Drs. Ashish Jain and Michael Soult as our first-year fellows.

Division Updates: *Plastic Surgery*



From left to right:

Dr. Robert Galiano

Dr. John Kim

Dr. Gregory Dumanian (Chief)

Dr. Jason Ko

Dr. Mohammed Alghoul

Clinical

The Division of Plastic Surgery continues to increase in clinical productivity and perform ahead of financial targets. Clinically, the Division was extremely productive and experienced year over year growth in excess of 20% with respect to work RVU's and completing over 15,000 appointments this fiscal year. Growth this year was focused on reconstructive procedures, specifically breast and lower extremity, as well as their aesthetic practice. Also, with the addition of former resident Dr. Jason Ko to the faculty in April, the practice has seen increased volume of hand and peripheral nerve patients.

Research

The research activities of our Plastic Surgery faculty continued to thrive this year. Dr. Dumanian continues to excel in research for amputees. His Department of Defense- sponsored clinical trial is exploring surgical treatments, including targeted reinnervation, for the treatment of neuromas in amputees. This multi-center collaborative project is enrolling subjects at seven civilian and military centers across the country. Dr. Dumanian is also conducting an amputee pain survey project that seeks to create a pain scale for both upper and lower extremity amputees. He also was awarded a United States patent for a novel mesh suture.

Dr. John Kim was promoted to Chair of the American Society of Plastic Surgeons Breast Sub-Committee and Co-Chair of the Santa Fe Breast and Body Symposium. He was also appointed Associate Editor for Plastic and Reconstructive Surgery. His paper on lipoaspirate volume was a Finalist for Best Paper of the Year at the Association of Plastic Surgeons. He was a keynote speaker at the Barcelona Breast Meeting as well as the British Association of Plastic and Reconstructive Surgeons meeting. His start-up company shared first prize at Northwestern University Venture Competition.

Dr. Mohammed Alghoul completed a prospective, randomized, double-blinded and placebo controlled trial of which he is the primary investigator. The study focus is immediate postoperative pain control after tissue expander breast reconstruction. Enrollment has concluded and the data analysis is currently underway. This study will provide level-one evidence in this important clinical area.

Education

The plastic surgery residency continues to increase in number of applicants and attract the best medical school candidates nationally. This year, the program received 220 applications for the two residency positions in the integrated program. We were pleased to welcome Dr. Ava Chappell from the University of Massachusetts and Dr. Aaron Kearney from Case Western Reserve Medical School as the intern class of 2023. Last year's chief resident, Dr. Jennifer Cheesborough is at Stanford Medical Center completing her fellowship in microsurgery.

Faculty News

Dr. Jason Ko joined the Division of Plastic Surgery in April 2016. Jason received his MD from the Duke University School of Medicine, completed an integrated Plastic Surgery residency through the McGaw Medical Center at Northwestern University's Feinberg School of Medicine and a Hand and Microvascular Surgery fellowship at the University of Washington Medical Center in Seattle.

Division Updates: *Organ Transplantation*



From left to right:

Dr. Juan Carlos Caicedo
Dr. Jason Wertheim
Dr. Nitin Katariya
Dr. Felicitas Koller
Dr. Joseph Leventhal
Dr. Michael Abecassis (Chief)
Dr. Jonathan Fryer
Dr. Daniela Ladner

Clinical

The Division of Organ Transplantation remains the Chicago market leader in abdominal organ transplantation and is among the nation's leading transplant programs. Over 35% of adult abdominal transplants in the Chicago metro area were performed at Northwestern last year, and our program is larger than the next two centers combined. Changes in national organ allocation policy have dramatically impacted deceased donor transplants for transplant programs across the country and Northwestern is no exception. We have experienced a decline in cadaveric liver transplants as livers are sent to patients with higher MELD scores outside of our local service area while we are seeing a marked increase (more than 30% above budget) in deceased donor kidney volumes. The long-term implications of this new allocation policy have yet to be seen and Northwestern faculty are actively involved in these discussions at a national level. This includes a collaboration between

The Northwestern University Transplant Outcomes Research Collaborative (NUTORC) led by Dr. Daniela Ladner and Dr. Sanjay Mehrotra, an NU Professor at the McCormick School of Engineering, which is informing policy discussions.

Under the direction of Dr. Felicitas Koller, the vascular access program is expected to do over 250 cases this year, an increase from the prior year.

Dr. Juan Carlos Caicedo has assumed the Medical Director role for the Living Donor Liver Program.

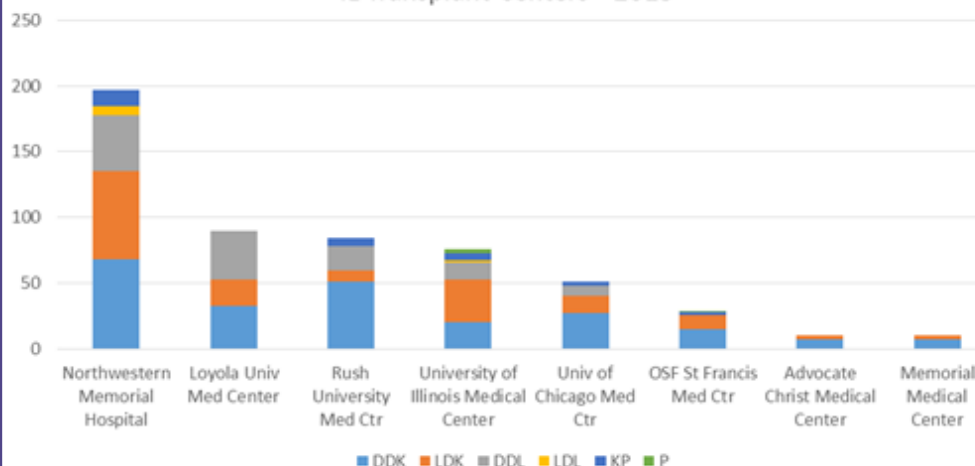
Research

The research enterprise at the Comprehensive Transplant Center (CTC) continues to thrive. We have submitted 46 grant proposals totaling \$26.8M thus far this fiscal year. In this same period, CTC researchers were awarded 26 grants totaling \$4.1M.

This year the CTC hosted 2 colloquia highlighting the innovative research being conducted at Northwestern. September 30th-October 2nd Dr. Joseph Leventhal hosted the 2nd Annual International Workshop on Clinical Tolerance. Sixty international attendees participated in this workshop, which included a comprehensive review of all ongoing trials of tolerance in solid organ transplant and a discussion of current and future challenges to widespread clinical application of tolerance induction protocols.

In July, Dr. Michael Abecassis hosted a colloquium highlighting the work from the first year of the Program

IL Transplant Centers - 2015



Source: OPTN Data - 2015; Adult Transplants

Division Updates: *Organ Transplantation*

Project Grant. The half-day session, CMV P01 Symposium: Epigenetics of Cytomegalovirus Latency and Reactivation, featured expert speakers from around the country. The following day the annual joint meeting of the Internal and External Advisory Boards was held. During this meeting all three projects and the three cores presented progress and next steps and gained valuable feedback from the Advisory Board members.

Dr. Jason Wertheim's application for a VA Merit Review Award, Extracellular Matrix Induction of Renal Stem and Progenitor Cell Development, was selected for funding by the Jesse Brown VA Medical Center.

The Histocompatibility Lab, directed by Dr. Anat Tambur, was selected to serve as the Core Lab for a multi-center study, Astagraf XL® to Understand the Impact of Immunosuppression on De Novo DSA Development and Chronic Immune Activation in Kidney Transplant sponsored by Astellas. We will also be one of the clinical sites for the trial.

We were awarded a no cost extension on our R34, Effectiveness, Safety and Value of Integrating Molecular Diagnostics into the Post-Transplant Management of Kidney Transplant Recipients - The Next Frontier of Biomarker Research, and are planning a December 2016 U01 submission.

Education

Again this year we had successful clinical fellowship recruitment, interviewing 14 highly qualified candidates and matching with 2 of our top 3 choices. This year's match was very competitive. Of the 87 positions available at 58 programs, 23 positions did not match, including positions at some of the country's largest programs. In August, two new fellows joined our program: Alexandre Darani, MD and David Woodland, MD. Dr. Darani completed his residency at the University Children's Hospital, HUG, Switzerland and then finished a fellowship in Pediatric Surgery at Children's Hospital at Westmead, Sydney, Australia. Dr. Woodland joins us from his residency at Columbia.

T32 Transplant Surgery Scientist Training Program (TSSTP)
The CTC has had a T32 training grant since 2007. This year we submitted a competitive renewal for another 5 year funding segment. We have two slots for T32 fellows and have been able to secure 2 additional through the T32 Research Supplement to Promote Diversity in Health-Related Research Program for Underrepresented Minority (URM) candidates. Stephen Chiu, MD (Northwestern University Collaborative for Transplant - Related Immunology and Biomedical Engineering (NUCTRIBE) track), and Kofi Atiemo, MD (MBChB), (NUTORC track) have completed their first year of the program. Jessica Hoch Brown, PhD and Ramiro Fernandez, MD both began the fellowship this summer and are part of the NUCTRIBE track.

CTC Summer Student Immersion Program

With 90 applications, the CTC Summer Student Immersion Program accepted 25 students from a diverse pool of educational backgrounds (high school students, college students, medical school and engineering students). Every student who participates in the program is given a project and assigned a mentor for the summer. They must formulate a hypothesis and execute a succinct hypothesis-driven project. A critical review of the literature is performed, data are collected and analyzed, and results are summarized and presented to the entire research team. In an effort to secure funding for the program, we submitted a T35 application, Short-Term Research Training in Abdominal Transplant for Medical Students, in January.

Faculty News

Dr. Nitin Kataryaia, MD joined the Transplant Surgery faculty in August from the Mayo Clinic in Arizona. He received his medical degree from the Honors Program in Medical Education (HPME) Northwestern University, completed a surgical residency at Wilford Hall Medical Center, University of Texas Health Science Center at San Antonio and his transplant surgery fellowship at Northwestern.



Division Updates: *Trauma and Critical Care Surgery*



From left to right:

Dr. Michael Shapiro (Chief)

Dr. Steven Schwulst

Christine Schilling

Dr. Leah Tatabe (Adjunct)

Dr. Mamta Swaroop

Dr. Nabil Issa

Dr. Joseph Posluszny

Clinical

The Trauma/Emergency Surgery service has seen noteworthy clinical growth over the last year, while performance measures reflect high-quality care with excellent outcomes. Trauma-related activity has continued to climb, most notably in the summer and fall months, a trend that has continued over the past couple of years. Division faculty continue to be active in community and state policy initiatives to decrease violent crime in the Chicago area. Violence and injury in Chicago continues to increase at record pace and the focus on these initiatives remains vital. The Trauma program at Northwestern Medicine continues to participate robustly as a Level 1 Trauma Center. Additionally, the diversity and scope of the General Surgery practice is extensive, and the service has continued to foster superb multi-disciplinary collaboration across the system. The Surgical Critical Care service continues to be a valued local and tertiary referral source providing intensive care for most surgical patients. This service has functioned with a special focus and great success in the reduction of infectious complications related to medical devices.

Faculty News

Dr. Joseph Posluszny has joined the division from Loyola University Medical Center. Dr. Posluszny received his MD from the University of North Carolina School of Medicine, completed his surgical residency at Case Western Reserve University School of Medicine, and completed his surgical critical care fellowship at the University of Michigan. Dr. Posluszny is an intelligent, ambitious academic trauma surgeon and is an excellent fit with our current faculty.

Research

Divisional research activity has seen notable growth this year and continues to reflect productivity and diversity. There are ongoing efforts in global health, basic science, and education research, with an extensive list of publications and presentations at national and international meetings. Of particular note, Dr. Steven Schwulst received an NIH K08 award from the National Institute of General Medical Sciences for his project entitled, "The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome". Dr. Schwulst continues to make progress in his research endeavors supported by this four-year grant.

Education

The Surgical Critical Care Fellowship enters its eighth year with two new fellows. Dr. Nabil Issa has excelled in his role as Program Director as it has aligned well with his special interests in curriculum development and the use of simulation technology in critical care. Several division faculty members were again recognized by the Department of Surgery for excellence in teaching. In our contact with residents and medical students on the trauma/emergency surgery, critical care and night float rotations the faculty continues to emphasize an educational balance that embraces preparation, clinical excellence, and professional integrity.

Staff News

Christine Schilling, Nurse Clinician for the division, received Northwestern's highly regarded *Patients First* award in August 2016. This award is presented to employees who demonstrate an exceptional commitment to our *Patients First* mission and Christine is a role model in this regard. Christine is dedicated to our patients and partners exceptionally well with her colleagues to ensure our patients receive the best possible care. She clearly exemplifies our *Patients First* mission and we are lucky to have her on our team!

Affiliate Updates: *Northwestern Lake Forest Hospital*

The past year has been eventful for the Department of Surgery at Northwestern Medicine Lake Forest Hospital (NMLFH). We recruited new surgeons, implemented and participated in system-wide and statewide quality programs, expanded the use of new technology in the operating room, participated in resident education and physician assistant education, and watched continued progress on the construction of the new hospital.

Faculty News

The Department of Surgery welcomes three new surgeons who will join Northwestern Medicine at Lake Forest Hospital.

Denise Monahan, MD will join NMLFH as a Breast Surgeon. She graduated from the University of Miami School of Medicine, completed her General Surgery residency at Jackson Memorial Hospital/University of Miami Medical Center, and did a Surgical Breast Oncology Fellowship at Northwestern University Feinberg School of Medicine. Since completing her fellowship, she has worked at the John H. Stroger Hospital as an attending surgeon in the Division of Breast Surgical Oncology. She is an Assistant Professor at Rush Medical College Department of Surgery.

David J. Kaufman, MD will join NMLFH as an Orthopedic Surgeon specializing in adult reconstructive joint surgery. He attended the University of California San Francisco School of Medicine and did his Orthopedic Residency at Stanford University Hospital and Clinics. He completed his Adult Reconstructive Fellowship at Midwest Orthopedics at Rush University.

Michael Walsh, MD will join NMLFH as a Neurosurgeon. He went to Indiana University School of Medicine, did his Neurosurgery Residency at The Ohio State University and the University of Vermont, and completed a Skull Base Fellowship at the University of Utah. He is a Clinical Assistant Professor and Director of Neuro-oncology at the University of Tennessee Medical Center in Knoxville.

In addition to these new physicians, NMLFH is recruiting a thoracic surgeon to join the staff.

Dr. Jeffrey Kopin joined the North region as its Chief Medical Officer. He is working diligently on increasing the primary care base in the North region as well as improving specialist availability in the North region. He is a welcome addition to NMLFH.

Quality

James Frydman, MD is completing his first year as a General Surgeon at NMLFH. In addition to his clinical duties, he has taken on the responsibilities of Surgeon Champion for ISQIC. In that role he has participated in joint meetings locally and traveled to San Diego for the ACS NSQIP National conference. Additionally, the Department is participating in the NMH Surgical Collaborative. The Collaborative includes all regions of the Northwestern health care system and focuses on SSI's in colorectal surgery. We are all trying to standardize the perioperative care of the colorectal surgical patient by implementing a "Colon Bundle." This bundle outlines steps to be taken in the preoperative setting, in the OR, and in the postoperative setting with the goal of decreasing SSI's. These steps incorporate best practices and common sense behaviors. This cooperative effort allows for the different regions of the system to share ideas, information and results. We hope to learn from each other and improve our patients' outcomes as a result of this cooperation.

Technology

The latest iteration of the DaVinci Robotic Surgery System, the DaVinci Xi, has been operative at NMLFH since last year. Initially used almost exclusively by our Gynecology and Gynecologic colleagues, it is now being used by General Surgeons and Urologists as well. Drs. Stephen Ganshirt and James Frydman of General Surgery have performed several dozen laparoscopic cholecystectomies and several abdominal wall hernia repairs with the Xi system. Urologists are using it for prostatectomies and nephrectomies. NMLFH has also recruited new gynecologists who use the DaVinci Xi for Single Port laparoscopic surgery.

Education

The General Surgery team welcomed the first NMLFH Family Medicine resident to its service in July 2016. The second year Residents will each spend 6 weeks on the service. The experience includes working in the outpatient surgical clinic, observing outpatient minor surgical procedures, observing and assisting with inpatient operations, and taking some in-house call. The General Surgery service continues the Physician Assistant education program with PA Students spending four weeks on the service. This is the fourth year of the program at NMLFH with the General Surgeons. Dr. James Frydman gave a Grand Rounds lecture to the medical staff on Breast Cancer, the Surgeon's Perspective. Dr. Stephen Ganshirt gave a Grand rounds lecture to the medical staff on the DaVinci Xi robotic system and its expanding applications in surgery.

New Hospital

Construction continues apace on the new hospital. The outer structure is largely complete. The inner construction is ongoing. The grounds around the area are undergoing change: new parking lots are being paved; tunnels to the new site are being dug; and landscaping is taking shape. The building is on schedule for completion. However, the opening of the hospital is largely dependent on the timing of Project One activation. The current estimate for opening the hospital to patient care is early 2018.

Many surgeons and members of the community have toured the new facility. Philanthropic efforts brought both physicians and potential donors together for a night. This allowed physicians to highlight the strengths of the new hospital and how it will positively affect their practice and the care of their patients.



Rendering of the John and Kathleen Schreiber Lobby

Affiliate Updates: *Jesse Brown VA Medical Center*



At Jesse Brown VA Medical Center (JBVAMC), our mission is “putting Veterans first”. The VA remains the largest single employer of physicians and nurses in the United States as well as the largest educator of health care professionals in the U. S. JBVAMC is the only VA healthcare facility in the city of Chicago. The 170-bed inpatient facility accommodates more than 8,000 inpatient admissions annually. The Surgical Service encompasses nine sections (General Surgery, Orthopedics, Optometry, Ophthalmology, Otolaryngology, Plastics, Podiatry, Urology, and Vascular) and performs over 3,000 operations annually.

Clinical Care

The JB Robotic Program was started in 2013 by Dr Josh Meeks and is used mainly for Urologic procedures. Over 100 robotic cases have been performed in the first two years with improved patient perioperative outcomes. Dr Norm Smith has started as a part-time practitioner as part of an affiliation with University of Chicago. We are also in the process of developing a Cochlear Implant Center in the section of ENT given our institutional experience in this area. Dr. Joe Vitello leads our growing bariatric program which is the designated center for weight loss surgery in our integrated service network. Thoracic Surgery will resume at Jesse Brown this fall with the recruitment of Dr Frank Podbielsky. With the loss of Melina Kibbe to the University of North Carolina, Dr. Mark Eskandari and Heron Rodriquez will start as part time providers in our section of Vascular Surgery. After many years of service to the Veterans, Dr. Nasim Rana and Dr. James Hill retired this summer.

Research

Jason Wertheim received merit funding from the VA BLRD. Over the summer, he participated in an “Organ Summit” at the White House with the goals of expanding organ transplantation through technology. Josh Meeks also received merit funding from the VA BLRD for his project entitled “the Role of EZH2 in Non-muscle Invasive Bladder Cancer”.

Education

The VA rotations continue to be a valuable asset in the residency curriculum. The general surgery resident rotation continues to get high marks from finishing chief residents. The VA commitment to surgical education has not wavered for the last fifty years.



Affiliate Updates: *Ann & Robert H. Lurie Children's Hospital*

Departmental News

Ann & Robert H. Lurie Children's Hospital of Chicago has been named a level I pediatric surgery center by the American College of Surgeons (ACS), becoming the first children's hospital in Illinois to earn this status. So far, only two other pediatric hospitals in the country have achieved a level I verification, but the number will likely grow as more institutions undergo the rigorous review process. The level I verification — the highest of three — is awarded by a multi-organizational taskforce led by the ACS, the body responsible for setting the nation's standards for quality of surgical care, practice and training. To be verified as a level I surgery center, a children's hospital must demonstrate it has the expertise, resources and capacity to deliver timely, safe, appropriate and multidisciplinary surgical care for even the most complex and rarest of cases and do so around the clock. In addition to children's surgeons, level I centers must have 24-7 availability of specialists in children's anesthesiology, radiology, trauma and emergency medicine and provide round-the-clock critical and intensive care for children and infants of all ages, including severely premature newborns. A level I center must also provide education, training, leadership and research in the field of pediatric surgery and offer residency and fellowship training for the next generation of pediatric surgeons and surgical subspecialists.

Division Updates

Fizan Abdullah, MD, PhD was appointed Chair of the Safe Surgery 2020 Initiative and received a multi-year award from the GE Foundation to support G4 Advocacy and Policy. Dr. Abdullah is a founding member of the G4 Alliance, an organization that seeks to increase political priority and mobilize resources to help provide safe surgical care for patients in need. He was a featured speaker at the G4 sponsored program "Surgery Saves: Prioritizing Surgical Care & Anaesthesia as Part of National Health Plans" held in conjunction with the World Health Organization's 69th World Health Summit in Geneva, Switzerland in May 2016.



Photo courtesy of Ann & Robert H. Lurie Children's Hospital

The Lurie Children's Surgical Outcomes Research Group (SORG) was awarded a PCORI Pipeline to Proposal Grant to develop an Advisory Board focused on pain and anxiety related to the surgical experience.

The Lurie Children's Heart Center maintained a 3 star rating in the most recent Society of Thoracic Surgeons annual report. Eight of 117 participating centers were awarded 3-stars, we are one of only three programs who also ranked in the top 15 Cardiology-CV Surgery programs in the annual USNews & World Report survey. On Monday, August 22 the Lurie Children's Hospital cardiac surgery team performed our 250th heart transplant patient. Dr. Carl Backer, who participated in the hospital's first heart transplant in 1988 under the direction of the late Dr. Farouk Idriss, performed this transplant with his associates, Drs. Osama Eltayeb and Michael Mongé.

Dr. Arun Gosain was elected President of the American Society of Maxillofacial Surgeons (ASMS) for a one-year term (2015-2016). He was also named President Elect of the American Society of Plastic Surgeons (ASPS)/Plastic Surgery Foundation (PSF) for 2016-2017. Investigators in the Division of Pediatric Plastic Surgery received an award from the National Institute of Biomedical Imaging and Bioengineering for their study entitled "Determining the biomechanical and biological response of stretched skin." Dr. Gosain served as co-mentor to Jennifer L. McGrath (Research Fellow, Craniofacial Skeletal Biology Lab), who received First Place Basic Science Award at the 55th Annual Meeting of the Midwest Association of Plastic Surgeons (Chicago, IL).

New Faculty

Tolulope Oyetunji, MD, MPH joined the Division of Pediatric Surgery in August 2016 as an Assistant Professor of Surgery. He recently completed his pediatric surgery fellowship at Children's Mercy Hospitals and Clinics, Kansas City MO. Dr. Oyetunji's research interests are concentrated on Pediatric Health Services with a focus on: Access to Care Disparities, Patient Safety and Quality of Care Indicators, Minimal Access Surgery, and surgical burden in developing countries. Dr. Oyetunji will be collaborating closely with the Center for Healthcare Studies and the Surgical Outcomes and Quality Improvement Center (SOQIC) to develop his research program. His clinical areas of expertise are congenital and acquired diseases of the neck, chest, abdomen and pelvis, hernias, gastroesophageal malformations, chest wall deformities, prenatal counseling and anorectal malformations.

Hassan M.K. Ghomrawi, PhD was appointed as Associate Professor of Surgery in the Department of Surgery and Research Scientist at Lurie Children's Hospital in August 2016. Prior to joining Lurie Children's Hospital, Dr. Ghomrawi held an appointment in the Departments of Healthcare Policy and Research and Medicine at Weill Cornell Graduate School of Medical Sciences. Dr. Ghomrawi will be based at the Institute for Public Health and Medicine's Center for Healthcare Studies (IPHAM). He will be leading activities related to comparative effectiveness and disease-based outcomes research in pediatric populations.

Farooq Shahzad, MBBS, FACS joined the Division of Pediatric Plastic Surgery as Assistant Professor of Surgery in August, 2016. Dr. Shahzad completed his plastic surgery training in Microvascular Surgery at Memorial Sloan-Kettering Cancer Center and Craniofacial & Pediatric Plastic Surgery at St Louis Children's Hospital/Washington University. Dr. Shahzad's clinical interests include cleft craniofacial surgery, facial trauma, and microvascular surgery.

Selected Faculty Honors and Awards

Carl L. Backer, MD

Elected Vice-President of the Mayo Alumni Association Board of Directors. Term: (2015-2017)
President-elect of the Congenital Heart Surgeons' Society

David Bentrem, MD

Named to the Membership Committee of the Society for Clinical Surgery
Recipient of the Department of Surgery's Excellence in Teaching

Ankit Bharat, MD

Named Program Chair, Advanced Thoracic Surgery Techniques Symposium, Chicago
Named Program Chair, Second Annual International Hypercapnia Symposium
Named Advanced Lung Failure Fellowship Program Director, Northwestern Medicine
Elected Member, Program Committee, Association for Academic Surgery
Moderator for American Society of Transplantation journal club
Named Jacobson II Promising Investigator Award, American College of Surgeons
Elected Member, Program Committee, American Thoracic Society

Karl Bilimoria, MD

Named John B. Murphy Endowed Professor of Surgery
Achieved Centers for Disease Control (CDC) Venous Thromboembolism Prevention Challenge Award
Named James IV Association of Surgeons Traveling Fellow
Named President of the Surgical Outcomes Club, January
Named Secretary of AAS
Appointed a member of the National Quality Forum's (NQF) Surgery Standing Committee

Susan Clare,
Recipient of the Exceptional Mentor Award from the American Medical Women's Association

Malcolm M. DeCamp, Jr., MD

Recipient of the Champions of Breath Award from the American Lung Association
Recipient of the Solovy Award for Advancement in COPD, Respiratory Health Association

Mark Eskandari, MD

Named "Top Doctor" in Castle Connolly's listing
Recipient of the Department of Surgery's Excellence in Teaching Award

Jonathan Fryer, MD, M.Sc., M.H.P.E., FACS, FRCSC

Named Richard H. Young Professor of Surgery, 2015
Elected Co-Chair, ASTS Fellowship Training Committee
Recipient of the Department of Surgery's Excellence in Teaching Award

Arun Gosain, MD

Elected President of the American Society of Maxillofacial Surgeons (ASMS)
Elected President Elect of the Plastic Surgery Foundation
American Council for Graduate Medical Education (ACGME),
Elected Vice-Chair of the ACGME's Residency Review Committee - Plastic Surgery

Nora M. Hansen, MD

Named on Castle Connolly listing of Best Doctors in America

Named on Castle Connolly listing of Top Cancer Doctors in Newsweek Health

Named on Castle Connolly listing of Top Doctors for Cancer
Elected Secretary of the Chicago Surgical Society
Elected to the Editorial Board for the Surgical Oncology section of the Frontiers in Oncology Journal
Elected Co-Chair of the 2016 Lynn Sage Breast Cancer Symposium
Elected Breast Chair of the Operative Decision Making Committee of the ACS

Karen Ho, MD

Recipient of the Northwestern Alumnae Grant Award
Recipient of the Department of Surgery's Excellence in Teaching Award

Felicitas Koller, MD

Recipient of the Department of Surgery's Excellence in Teaching Award

Joseph Leventhal, MD, PhD

Named Fowler McCormick Professor of Surgery, 2015

S. Chris Malaisrie, MD

Inducted into the 21st Century Cardiothoracic Surgical Society, 2016

James M. Mathew, PhD

Elected Academic Editor, Medicine

Michael McGee, MD

Recipient of the "6th Man Award" for resident dedication, Northwestern University Department of Surgery
Recipient of the All Star Award from the Academy for Quality and Safety Improvement (AQSI)
Recipient of the Department of Surgery's Excellence in Teaching Award

Shari Meyerson, MD

Recipient of the Department of Surgery's Excellence in Teaching Award
Elected to membership in American Association for Thoracic Surgery

Michael C. Mongé, MD

Awarded Best Scientific Poster in the Congenital Category at the 52nd Annual Meeting of the Society of Thoracic Surgeons

David L. Nahrwold, MD

Recipient of the Distinguished Alumni Award from Indiana University School of Medicine

David D. Odell, MD

Named Oz-Lemole Research Scholar by the American Association for Thoracic Surgery Graham Foundation
Named the Alley Sheridan Scholar for Health Policy and Leadership by the Thoracic Surgery Education and Research Foundation
Named Best Abstract Winner at the American College of Surgeons' National Surgical Quality Improvement Program (ACS NSQIP) 2016 Annual Meeting

Ramille Shah, PhD

Recipient of the Clarence Ver Steeg Graduate Faculty Award

Margo Shoup, MD, FACS

Named President-Elect of the Midwest Surgical Association
Elected Panel member for ABS MOC at the American College of Surgeons Clinical Congress

Faculty Honors and Awards

Elected Moderator of the Scientific Session at the Central Surgical Association annual meeting

Nathaniel J. Soper, MD

Named President, 2016-2017 of Society for Surgery of the Alimentary Tract

Mamta Swaroop, MD

Elected to the Advisory Council for the 11th Annual International INDU-EM Summit

Elected to the Organizing Committee for the 3rd annual Congress for the World Coalition for Trauma Care and 8th annual Congress of the Indian Society of Trauma and Acute Care

Elected to the Membership Committee of the International Surgical Society, 2015

Elected to the International Relations Committee of the American Association for the Surgery of Trauma (AAST)

Founding Member of the Board of Directors, American College of Academic International Medicine

Elected Chair Board of Directors of the OPUS 12 Foundations

Elected to the Planning Committee of the Academic International Medicine

Anat R. Tambur, MD

Named President of the American Society for Histocompatibility and Immunogenetics

Elected Executive Board Member of UNOS

Jeffrey Wayne, MD

Elected to AOA

Named "Top Doctor" in Castle Connolly's listing

Elected President-Elect of the Chicago Surgical Society

Elected Chief of Staff Northwestern Memorial Hospital

Jason Wertheim, MD, PhD

Recipient of the Vanguard Prize from the American Society of Transplant Surgeons

Faculty Development Grant recipient, American Society for Transplantation

Anthony D. Yang, MD

Recipient of the Thomas R. Russell, MD, FACS Faculty Research Fellowship Award from the American College of Surgeons

Named Cancer Liaison to the Commission on Cancer by the Robert H. Lurie Comprehensive Cancer Center



Faculty Presentations & Publications

Michael Abecassis, MD, MBA

Presentations

Invited Speaker, Istanbul University – Innovations in Transplant at Northwestern Medicine, Istanbul, Turkey. October 5, 2015.
Invited Speaker, ASTS/Novartis Leadership Summit, Evanston, Illinois. Transplant Finance: Knowledge into Practice. November 17, 2015.

Invited Speaker, Cigna Conference, Pittsburgh, Pennsylvania. Minimal evaluation testing for decreased kidney transplant recipients. April 16, 2016.

Invited Speaker, Northwestern University Rao Lecture, Chicago, Illinois. Liver Transplantation at Northwestern-past-present-future. May 17, 2016.

Panel Member, HCV Consensus Conference on Management of HCV in the Transplant Setting, Chicago, Illinois. Management of the wait-listed patient with compensated cirrhosis and HCC. May 20, 2016.

Invited Speaker, Sixth National Bundled Payment Summit, Washington DC. Upstream: Condition-based vs Procedural Bundles. June 7-9, 2016.

Panel Member, National Payment Reform Summit, Washington DC. June 17, 2016.
Panel Member, 2016 Optum Transplant Value Initiative Forum, Minneapolis, Minnesota. June 28, 2016.

American Association of the Study of Liver Disease, San Francisco, California. Effective and Safe Postoperative Pain Management in Living Liver Donor. (Ladner D, Pomfret EA, Simpson MA, Guarrera JV, Fisher RA, Skaro AI, Baker TB, Curtis T, Reyes EF, Daud A, Wymore E, Platt B, Kang R, Lee, AHY, Abecassis MM, Woods D) November 13-17, 2015.
American Transplant Congress, Boston, Massachusetts. Transplant Program Leadership, Ensuring the Overall Financial Health of your Transplant Program. June 11, 2016.

American Transplant Congress, Boston, Massachusetts. Liver Retransplantation: Who and How, Surgical Controversies and Obstacles in Liver Re-Transplantation. June 14, 2016.

American Transplant Congress, Boston, Massachusetts. Toward Adopting Molecular Diagnostics as standard of care in Transplantation, Adopting a Molecular Test for Transplant Care. June 14, 2016.

Publications

Alphs Jackson H, Walsh B, Abecassis M. A Surgeon's Guide to Bundled Payment Models for Episodes of Care. *JAMA Surg.* 2016 Jan 1;151(1):3-4. doi:10.1001/jamasurg.2015.2779. PubMed PMID: 26502147.

Leventhal JR, Mathew JM, Salomon DR, Kurian SM, Friedewald JJ, Gallon L, Konieczna I, Tambur AR, Charette J, Levitsky J, Jie C, Kanwar YS, Abecassis MM, Miller J. Nonchimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/Genomic Biomarkers. *Am J Transplant.* 2016 Jan;16(1):221-34. doi:10.1111/ajt.13416. Epub 2015 Jul 30. PubMed PMID: 26227106; PubMed Central PMCID:PMC4718825.

McElroy LM, Woods DM, Yanes AF, Skaro AI, Daud A, Curtis T, Wymore E, Holl JL, Abecassis MM, Ladner DP. Applying the WHO conceptual framework for the International Classification for Patient Safety to a surgical population. *Int J Qual Health Care* 2016 Jan 23. pii: mzw001. [Epub ahead of print] PubMed PMID:26803539.

Grant JL, Hawkins C, Brooks H, Palella FJ Jr, Koppe SW, Abecassis MM, Stosor V. Successful sofosbuvir-based therapy in HIV/hepatitis C virus coinfecting liver transplant recipients with recurrent hepatitis C virus infection. *AIDS.* 2016 Jan 2;30(1):93-8. doi: 10.1097/QAD.0000000000000887. PubMed PMID: 26731756.

Liu XF, Jie C, Zhang Z, Yan S, Wang JJ, Wang X, Kurian S, Salomon DR, Abecassis M, Hummel M. Transplant-induced Reactivation of Murine Cytomegalovirus Immediate Early Gene Expression is associated with recruitment of NF- κ B and AP-1 to the Major Immediate Early Promoter. *J Gen Virol.* 2016 Jan 20. doi:10.1099/jgv.0.000407. [Epub ahead of print] PubMed PMID: 26795571.

Gallagher TK, Skaro AI, Abecassis MM. Emerging Ethical Considerations of Donation After Circulatory Death: Getting to the Heart of the Matter. *Ann Surg.* 2016 Feb;263(2):217-8. doi: 10.1097/SLA.0000000000001585. PubMed PMID: 26655926.

Jackson HA, Walsh B, Abecassis M. Behavioral Screening and Intervention for Improving Lower-Extremity Arthroplasty Outcomes and Controlling Costs-Reply. *JAMA Surg.* 2016 Feb 17. doi: 10.1001/jamasurg.2015.5548. [Epub ahead of print] PubMed PMID: 26886058.

Levitsky J, Kaneku H, Jie C, Walsh RC, Abecassis M, Tambur AR. Donor-Specific HLA Antibodies in Living vs. Deceased Donor Liver Transplant Recipients. *Am J Transplant.* 2016 Feb 20. doi: 10.1111/ajt.13757. [Epub ahead of print] PubMed PMID: 26896194.

Suhre K, Schwartz JE, Sharma VK, Chen Q, Lee JR, Muthukumar T, Dadhania DM, Ding R, Ikle DN, Bridges ND, Williams NM, Kastenmüller G, Karoly ED, Mohny RP, Abecassis M, Friedewald J, Knechtle SJ, Becker YT, Samstein B, Shaked A, Gross SS, Suthanthiran M. Urine Metabolite Profiles Predictive of Human Kidney Allograft Status. *J Am Soc Nephrol.* 2016 Feb;27(2):626-36. doi:10.1681/

ASN.2015010107. Epub 2015 Jun 5. PubMed PMID: 26047788; PubMed Central PMCID: PMC4731125.

Van Wagner LB, Serper M, Kang R, Levitsky J, Hohmann S, Abecassis M, Skaro A, Lloyd-Jones DM. Factors associated with major adverse cardiovascular events after liver transplantation among a national sample. *Am J Transplant.* 2016 Mar 6. doi: 10.1111/ajt.13779. [Epub ahead of print] PubMed PMID: 26946333.

Lewandowski RJ, Donahue L, Chokechanachaisakul A, Kulik L, Mouli S, Caicedo J, Abecassis M, Fryer J, Salem R, Baker T. (90) Y radiation lobectomy: Outcomes following surgical resection in patients with hepatic tumors and small future liver remnant volumes. *J Surg Oncol.* 2016 Apr 22. doi: 10.1002/jso.24269. [Epub ahead of print] PubMed PMID: 27103352.

Modena BD, Kurian SM, Gaber LW, Waalen J, Su AI, Gelbart T, Mondala TS, Head SR, Papp S, Heilman R, Friedewald JJ, Flechner SM, Marsh CL, Sung RS, Shidban J, Chan L, Abecassis MM, Salomon DR. Gene Expression in Biopsies of Acute Rejection and Interstitial Fibrosis/Tubular Atrophy Reveals Highly Shared Mechanisms That Correlate With Worse Long-Term Outcomes. *Am J Transplant.* 2016 doi:10.1111/ajt. 13728 [Epub ahead of print]

Thornburg B, Desai K, Hickey R, Kulik L, Ganger D, Baker T, Abecassis M, Lewandowski RJ, Salem R. Portal Vein Recanalization and Transjugular Intrahepatic Portosystemic Shunt Creation for Chronic Portal Vein Thrombosis: Technical Considerations. *Tech Vasc Interv Radiol.* 2016 Mar;19(1):52-60. doi:10.1053/j.tvir.2016.01.006. Epub 2016 Feb 6. PubMed PMID: 26997089.

Hickey R, Mouli S, Kulik L, Desai K, Thornburg B, Ganger D, Baker T, Abecassis M, Kallini JR, Gabr A, Gates VL, Benson III AB, Lewandowski RJ, Salem R. Independent Analysis of Albumin-Bilirubin Grade in a 765-Patient Cohort Treated with Transarterial Locoregional Therapy for Hepatocellular Carcinoma (clinical study). *J Vasc Interv Radiol* 2016;dx.doi.org/10.1016/j.jvir.2016.3.005 [In press].

Wang B, Jakus AE, Baptista PM, Soker S, Soto-Gutierrez AS, Abecassis MM, Shah RN, Wertheim JA. "Functional maturation of iPSC-hepatocytes in extracellular matrix - A comparative analysis of bioartificial liver microenvironments." *Stem Cells Translational Medicine* (Accepted 2016). [In press].

Carl L. Backer, MD

Presentations

Co-Presenter, Midwest Pediatric Cardiology Society 39th Annual Meeting, Pediatric Cardiac Surgical Outcomes following Implementation of

Faculty Presentations & Publications

a Novel Acuity Adaptable Care Model, Children's Hospital of Illinois-Peoria, Peoria, IL, September 10-11, 2015.

Presenter, Midwest Pediatric Cardiology Society 39th Annual Meeting, Repair of Partial Atrioventricular Septal Defect: Age and Outcomes, Children's Hospital of Illinois-Peoria, Peoria, IL, September 10-11, 2015.

Presenter, Congenital Heart Surgeons' Society Annual Meeting, Slide Tracheoplasty in an Infant with Complete Tracheal Rings and Left Lung Agenesis. Chicago, IL, October 25-26, 2015.

Presenter, Congenital Heart Surgeons' Society Annual Meeting, Partial Atrioventricular Septal Defect: What is the Ideal Age for Repair? Chicago, IL, October 25-26, 2015.

Co-Presenter, Congenital Heart Surgeons' Society Annual Meeting, Developing a National Model for Regionalization of Care for Children undergoing Congenital Cardiac Surgery in the United States. Chicago, IL, October 25-26, 2015.

Presenter, Southern Thoracic Surgical Association 62nd Annual Meeting, Partial Atrioventricular Septal Defect: What is the Ideal Age for Repair? Lake Buena Vista, FL, November 4-7, 2015.

Co-Presenter, Society of Thoracic Surgeons 52nd Annual Meeting, Prevalence of Non-cardiac and Genetic Abnormalities in Neonates undergoing Surgery for Congenital Heart Disease: Analysis of the Society of Thoracic Surgeons-Congenital Heart Surgery Database. Richard E. Clark Memorial Paper, Phoenix, AZ, January 23-27, 2016.

Presenter, Society of Thoracic Surgeons 52nd Annual Meeting, Symptoms do not Correlate with Coronary Artery Intramural Length or Ostial Diameter in Patients with Anomalous Aortic Origin of Coronary Artery. Phoenix, AZ, January 23-27, 2016.

Invited Speaker, 52nd Annual Meeting of the Society of Thoracic Surgeons, Complete AVSD: The Australian way. Phoenix, AZ, January 23-27, 2016.

Invited Speaker, 52nd Annual Meeting of the Society of Thoracic Surgeons, Borderline VSD. Phoenix, AZ, January 23-27, 2016.

Presenter, 52nd Annual Meeting of the Society of Thoracic Surgeons, Novel Modifications of a Ventricular Assist Device for Infants and Children, Phoenix, AZ, January 23-27, 2016.

Invited Speaker, American College of Cardiology 65th Annual Scientific Session, Options for Repair of Complete Atrioventricular Canal. Chicago, IL, April 2-4, 2016.

Invited Speaker, Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) Annual Meeting, Arrhythmia Surgery in Pediatric Congenital Heart Surgery, Taipei, Taiwan, April 6-10, 2016.

Invited Speaker, Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) Annual Meeting, Long-term Outcomes of Fontan and Fontan conversion. Taipei, Taiwan, April 6-10, 2016.

Invited Speaker, Asian Society for Cardiovascular and Thoracic Surgery (ASCVTS) Annual Meeting, Vascular Ring Surgery. Taipei, Taiwan, April 6-10, 2016.

Co-Presenter, 96th Annual Meeting of the American Association for Thoracic Surgery, Pediatric Cardiac Surgical Outcomes Following Implementation of a Novel Acuity Adaptable Care Model, Baltimore, MD, May 14-18, 2016.

Presenter, 4th Joint Meeting European Congenital Heart Surgeons Association-Congenital Heart Surgeons' Society, Geographic Distribution of Congenital Heart Surgery Programs in the United States and Potential Impact of Regionalization. Venice, Italy, June 22-24, 2016.

Presenter, 4th Joint Meeting European Congenital Heart Surgeons Association-Congenital Heart Surgeons' Society, Surgical Intervention for Adults with Vascular Rings: a Multi-center, 32-year experience. Venice, Italy, June 22-24, 2016.

Invited Speaker, 4th Joint Meeting European Congenital Heart Surgeons Association-Congenital Heart Surgeons' Society, Right Aortic Arch: the New Paradigm. Venice, Italy, June 22-24, 2016.

Publications

Cashen K, Collins J, Costello JM, Rycus PT, Thiagarajan R, Reynolds M, Backer CL, ECMO in pediatric trisomy 21: 30 years of experience from the ELSO Registry. *J Pediatr* 2015 Aug;167:403-408.

Jacobs JP, O'Brien SM, Pasquali SK, Gaynor JW, Jr, Karamlou T, Welke KF, Filardo G, Han JM, Kim S, Quintessenza JA, Pizarro C, Tchervenkov CI, Lacour-Gayet F, Mavroudis C, Backer CL, Austin EH III, Fraser CD, Tweddell JS, Jonas RA, Edwards FH, Grover FL, Prager RL, Shahian DM, Jacobs ML. The STS Congenital Heart Surgery Database Mortality Risk Model: Part 2 – clinical application. *Ann Thorac Surg* 2015 Sep;100:1063-1070.

Freud LR, Webster G, Costello JM, Tsao S, Rychik, Backer CL, Deal BJ. Growth and obesity among older single ventricle patients presenting for Fontan conversion. *World J Pediatr Congenit Heart Surg* 2015 Oct;6:514-520.

Palermo RA, Palac HL, Wald EL, Wainwright MS, Costello JM, Eltayeb OM, Backer CL, Epting CL. Metabolic uncoupling following cardiopulmonary bypass. *Congenit Heart Dis* 2015 Nov-Dec;10:E250-7.

Gupta SK, Ramakrishnan S, Gulati GS, Henry GW, Spicer DE, Backer CL, Anderson RH. Clarifying the anatomy of hearts with concordant ventriculo-arterial connections but abnormally related arterial trunks. *Cardiol Young* 2016 Jan;26:1-18

Deal BJ, Costello JM, Webster G, Tsao S, Backer CL, Mavroudis C. Intermediate-term outcome of 140 consecutive Fontan conversions with arrhythmia surgery. *Ann Thorac Surg* 2016 Feb;101:717-24.

Backer CL, Jacobs ML. Fontan at 40: Midlife crisis? *J Thorac Cardiovasc Surg* 2016 Mar;151:621-622.

Backer CL. Interrupted aortic arch: Measure twice, cut once. *J Thorac Cardiovasc Surg* 2016 Feb;151:422-423

Backer CL, Costello JM, Deal BJ. Fontan conversion: guidelines from Dow Under. *Eur J Cardiothorac Surg* 2016 Feb;49:536-537.

Jacobs JP, Mayer, JE Jr, Mavroudis C, O'Brien SM, Austin EH, III, Pasquali SK, Hill KD, He X, Overman DM, St. Louis JD, Karamlou T, Pizarro C, Hirsch-Romano JC, McDonald D, Han JM, Dokholyan RS, Tchervenkov CI, Lacour-Gayet F, Backer CL, Fraser CD, Tweddell JS, Elliott MJ, Walters H, III, Jonas RJ, Prager RL, Shahian DM, Jacobs ML. The Society of Thoracic Surgeons Congenital Heart Surgery Database: 2016 update on outcomes and quality. *Ann Thorac Surg* 2016; 101 Mar:850-862

Chenault K, Moga M-A, Shin M, Petersen E, Backer CL, De Oliveira GS, Suresh S. Sustainability of protocolized handover of pediatric cardiac surgery patients to the intensive care unit. *Paediatr Anaesth* 2016 May;26:488-494.

Tretter JT, Chikkabyrappa S, Spicer DE, Backer CL, Mosca RS, Anderson RH, Bhatla P. Understanding the spectrum of sinus venosus interatrial communications. *Cardiol Young* 2016 May;10:1-9

Loomba RS, Ahmed MM, Spicer DE, Backer CL, Anderson RH. Manifestations of bodily isomerism. *Cardiovasc Pathol* 2016 May-Jun; 25:173-180

Backer CL, Eltayeb O, Mongé MC, Wurlitzer KC, Hack MA, Boles LH, Sarwark AE, Costello JM, Robinson JD. Modified Single-Patch: Are We Still Worried about Subaortic Stenosis? *Ann Thorac Surg* 2015 May;99:1671-1675.

Faculty Presentations & Publications

Kogon B, Karamlou T, Baumgartner W, Merrill W, Backer CL. Congenital cardiac surgery fellowship training: a status update. *J Thorac Cardiovasc Surg* 2016 Jun;151:1488-1495

Broomall E, McBride ME, Deal BJ, Ducharme-Crevier L, Shaw A, Mazwi M, Backer CL, Mongé MC, Costello JM, Marino BS, DeFreitas A, Wainwright MS. Posterior circulation ischemia or occlusion in five adults with failing Fontan circulation. *Ann Thorac Surg* 2016 Jun;101:2315-2320

Backer CL, Mongé MC, Popescu AR, Eltayeb OM, Rastatter JC, Rigsby CK. Vascular rings. *Semin Pediatr Surg* 2016 Jun;25:165-175.

Backer CL, Mongé MC. Of mice and men. *J Thorac Cardiovasc Surg* 2016 Jun;151:1769-1770.

Devlin PJ, Backer CL, Eltayeb O, Mongé MC, Hauck AL, Costello JM. Repair of partial atrio-ventricular septal defect: age and outcomes. *Ann Thorac Surg* 2016 Jul;102:170-177

Backer CL. Rescuing the failing Fontan. *Heart* 2016 Jul;102:1077-1078

Patel A, Costello JM, Backer CL, Pasquali SK, Hill K, Wallace A, Jacobs JP, Jacobs ML. Prevalence of non-cardiac and genetic abnormalities in neonates undergoing surgery for congenital heart disease: analysis of the Society of Thoracic Surgeons-Congenital Heart Surgery Database. *Ann Thorac Surg* 2016 Jun; [Epub ahead of print] doi: 10.1016/j.athoracsur.2016.04.008.

Backer CL. Too big or too small? *J Thorac Cardiovasc Surg* 2016 Jun;151:1547-1548

Sehgal S, Bock MJ, Louks Palac H, Brickman WJ, Gossett JG, Marino BS, Backer CL, Pahl E. New-onset diabetes mellitus after heart transplantation in children- incidence and risk factors. *Pediatr Transplant*. 2016 Jul 15. doi: 10.1111/ptr.12759. [Epub ahead of print]

David Bentrem, MD

Presentations

Ahmad S, Wilson G, Abbott D, Bentrem DJ, Weber S, Cho C, Martin R, Scoggins C, Kim HJ, Merchant N, Kooby D, and Maithel S. Are the current guidelines for the surgical management of Intraductal papillary mucinous neoplasms (IPMN) of the pancreas adequate? A multi-institutional study.

Bagante F, Strasburg S, Gani F, Thompson V, Hall BL, Bentrem DJ, Pitt HA, Pawlik TM. Minimally invasive vs. open hepatectomy: A comparative analysis of the National Surgical Quality Improvement Program Database. *SSAT* 2016.

Zureikat AH, Bentrem DJ, Pawlik T, Pitt H.

The robotic approach is associated with fewer incomplections compared to laparoscopy: an ACS NSQIP assessment of minimally invasive approaches to pancreatectomy. 2016 ACS NSQIP Annual Conference.

Zureikat AH, Postlewait LM, Liu Y, Weber S, Abbott D, Ahmad S, Maithel S, Hogg M, Cho C, Talamonti M, Bentrem DJ, Kim HJ, Zeh H, and Kooby D. A multi-institutional comparison of perioperative outcomes of robotic and open pancreatectomy. *American Surgical Association*, April 16, 2016, Chicago, IL.

Postlewait LM, Merchant N, Parikh A, Hawkins W, Weber S, Cho C, Scoggins C, Bentrem DJ, Kim HJ, Abbott C, Kooby D, and Maithel S. Hand-Assist Laparoscopic approach to resection of pancreatic mucinous cystic neoplasms: a forgotten art? *SSO* 2016

Postlewait LM, Merchant N, Parikh A, Hawkins W, Weber S, Cho C, Scoggins C, Bentrem DJ, Kim HJ, Abbott C, Kooby D, and Maithel S. Multi-center study of 349 pancreatic mucinous cystic neoplasms: preoperative risk factors for adenocarcinoma. *ASCO-GI & SSO* 2016.

Publications

Bagante F, Spolverato G, Strasburg S, Gani F, Hall B, Bentrem DJ, Pitt HA, Pawlik T. Minimally invasive vs open hepatectomy: a comparative analysis of the National Surgical Quality Improvement Program Database. *J of Gastrointestinal Surger* 2016 accepted.

Law R, Ciolino J, Gluskin A, Bentrem DJ, Komanduri S, Grande D, Thompson W and Keswani R. Adverse events after surgery for benign colon polyps are common and associated with increased length of stay and costs. *Gastrointestinal Endoscopy*. 2016 accepted

Eschelbach E, Komanduri S, Bentrem DJ, Mahvi D, and Keswani R. ERCP in potentially resectable malignant biliary obstruction is frequently unsuccessful when performed outside of a comprehensive pancreaticobiliary center. *J Surg Oncology*. 2016 accepted

Postlewait LM, Ethun C, Merchant N, Parikh A, Hawkins W, Fields R, Weber S, Cho C, Martin RC, Scoggins R, Bentrem DJ, Kim HJ, Ahmad S, Abbott D, Kooby D, Maithel S. A Multi-center study of 349 pancreatic mucinous cystic neoplasms: Preoperative risk factors for malignancy. *JAMA Surgery* accepted 2016

Zureikat AH, Postlewait LM, Liu Y, Weber S, Abbott D, Ahmad S, Maithel S, Hogg M, Cho C, Talamonti M, Bentrem DJ, Kim HJ, Zeh H, and Kooby D. A multi-institutional comparison of perioperative outcomes of robotic and open pancreatectomy. *Ann Surg* 2016 accepted

Lutfi W, Talamonti M, Kantor O, Bentrem DJ, Roggin K, Winchester DJ, Marsh R, Prinz R and Baker M. Perioperative chemotherapy is associated with a survival advantage in early

stage adenocarcinoma of the pancreatic head. *Surgery* 7/2016.

Gani F, Thompson V, Bentrem DJ, Hall BL, Pitt HA, and Pawlik TM. Patterns of hepatic resections in North America: Use of Concurrent partial resections and ablations. *HPB* 2016 accepted

Hohanty S, Rajaram R, Bilimoria KY, Salem R, Pawlik T, and Bentrem DJ. Assessment of non-surgical versus surgical therapy for localized hepatocellular carcinoma, *J Surg Onc* 2015;113(2):175-80

Kumar K, Chow C, Bentrem DJ, Eckerdt F, Platanias L, and Munshi H. Differential regulation of ZEB1 and EMT in pancreatic cancer cells by MAPK-interacting protein kinases (MNKs) and eIF4E. *Mol Cancer Research* 2015;14(2):216-27.

Chow C, Ebine K, Knab M, Bentrem DJ, Kumar K, and Munshi H. Cancer Cell Invasion in 3D collagen is Differentially Regulated by Galpha13 protein and Discoidin Domain Receptor 1-Par3 Protein Signaling, *J Biol Chem* 2015;291(4) 1605-18.

Principe D, DeCant B, Hwang R, Bentrem DJ, Munshi H, Jung B and Grippo P. PEDF Inhibits Pancreatic Tumorigenesis by Attenuating the Fibro-Inflammatory Reaction. *Oncotarget* 4/9/16.

Ankit Bharat, MD

Presentations

Invited Speaker. Advancements in donor lung preservation and strategies to reduce graft dysfunction. *Lung Transplant Symposium*, Dignity Health Norton Thoracic Inst., Arizona, February 12, 2016.

Invited Speaker. Frontiers in Lung Transplantation. *Surgical Grand Rounds*, University of Texas Southwestern Medical Center. Dallas, December 9, 2015.

Invited Speaker. Intrapleural gas milieu and lung healing, Visiting Professorship, Royal Australasian College of Surgeons, Sydney, November 2015.

Invited Speaker. Using basic research to improve lung transplant survival. *University of Illinois, Chicago Department of Medicine Research Seminar*. Chicago, September, 2015.

Publications

T Nicholson, K Raparia, G Mutlu, P Sporn, A Bharat. Wandering Pleural Mesothelial Fatty Cyst. *AJRCCM*. In Press.

W Li, H-M Hsiao, R Higashikubo, B Saunders, A Bharat, D R. Goldstein, A S. Krupnick, A E. Gelman, K J. Lavine, D Kreisel. Tissue-resident CCR2+ macrophages promote ex-

Faculty Presentations & Publications

travasation of neutrophils into injured heart tissue through TLR9-MyD88-mediated production of CXCL5. JCI Insight. In-Press.

M J Nooromid, A Bharat. Posterior Mediastinal Cyst. Annals of Thoracic Surgery. In Press.

A Bharat, H Cajigas, S Budinger. Spontaneous cerebral hemorrhage and sudden biventricular failure following lung transplantation. JAMA Cardiology. In Press.

A Bharat, T Mohanakumar. Immune responses to tissue-restricted non-major histocompatibility complex antigens in allograft rejection. Journal of Immunology Research. In Press.

S Chiu, R Fernandez, V Subramanian, H Sun, M M DeCamp, D Kreisel, H Perlman, S Budinger, T Mohanakumar, A Bharat. Lung injury combined with loss of regulatory T cells leads to de novo lung-restricted autoimmunity. J Immunol. 2016 Jul 1;197(1):51-7.

A Bharat, V Subramanian, S Chiu, Z Zheng, H Sun, A Yeldandi, M M DeCamp, S Budinger, T Mohanakumar. Lung-restricted antibodies mediate primary graft dysfunction and prevent allo-tolerance following murine lung transplantation. Am J Respir Cell Mol Biol. 2016 May 4. [Epub ahead of print]

C Mehta, K Raparia, A Bharat. Anterior mediastinal myelolipoma. Annals of Thoracic Surgery. In Press.
C Mehta, K Raparia, A Bharat. A fatty tumor compressing the heart. JAMA Surgery. In Press.

J M Tomasko, S Prasad, MM DeCamp, A Bharat. Therapeutic anticoagulation-free extracorporeal membrane oxygenation as a bridge to lung transplantation. J Heart Lung Transplant. 2016 May 6. pii: S1053-2498(16)30108-5.

D Smith, C Gillespie, M M DeCamp, A Bharat. Disappearing post-pneumonectomy pleural fluid without bronchopleural fistula. Am J Respir Crit Care Med. 2016 Apr 15;193(8):925-6.

A Bharat, et al. Humoral human lung allograft rejection by tissue-restricted non-HLA antibodies. Ann Thorac Surg. In Press. 2016.

C Mehta, B Stanifer, S Kosterski, C Gillespie, A Yeldandi, S Meyerson, D Odell, M DeCamp, A Bharat. Primary spontaneous pneumothorax in healthy menstruating females has high recurrence. Ann Thorac Surg. 2016 Jun 24. pii: S0003-4975(16)30400-3.

A Bharat, D Pham, S Prasad. Ambulatory ECMO: A Surgical Innovation for Adult Respiratory Distress Syndrome. JAMA Surg. 2016 May 1;151(5):478-9.

S Chiu, A Bharat. Role of monocytes and

macrophages in regulating immune response following lung transplantation. Curr Opin Organ Transplant. 2016 Jun;21(3):239-45.

R Fernandez, A Bharat. Pleural gas analysis for the identification of alveopleural fistula. Cur Opinions in Pulm Medicine. Epub ahead of print. Apr 2016.

A Bharat, N Graf, A Mullen, J Kanter, A Andrei, P Sporn, M DeCamp, J Sznajder. Pleural hypercarbia after lung surgery is associated with persistent alveopleural fistula. CHEST, 2016 Jan;149(1):220-7.

A Bharat, et al. Flow cytometry reveals similarities between lung macrophages in humans and mice. Am J Respir Cell Mol Biol, 2016 Jan;54(1):147-9.

J Kanter, H Sun, S Chiu, MM DeCamp, P Sporn, JI Sznajder, A Bharat. Decreased CXCL12 is associated with impaired alveolar epithelial cell migration and poor lung healing following lung resection. Surgery. Oct 2015; 158(4): 1073-82.

Karl Bilimoria, MD

Presentations

Generating Evidence to Inform Policy: The FIRST Resident Duty Hour Trial. Today's Innovations in Medical Education (TIME) Seminar Series, Feinberg Academy of Medical Educators, Northwestern University, August 18th 2015.

Measuring Surgical Quality: Does Anyone Know What They Are Doing? Shibata Lecture, Canadian Society of Surgical Oncology Key-note Lecture, Quebec City, 19th September 2015.

Using Observational Studies to Evaluate Comparative Effectiveness. Association of Academic Surgeons Fundamentals of Surgical Research Course, 3rd October 2015.

How Are We Being Judged? Assessing Individual Surgeon Performance. Beaumont Lecture. Wisconsin Surgical Society, 13th November 2015.

Innovative Approaches to Improving Surgical Quality. Stanford University Department of Surgery Grand Rounds, Palo Alto, CA, 14th December 2015.

Integrating Cancer Specific Outcomes Measures into Practice. 13th Oncology Update: Advances and Controversies. Steamboat Springs, CO, 18th January 2016.

National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. ACGME Task Force on Fatigue Management, Supervision, Professionalism, and Patient Safety. Chicago, IL, 23rd January 2016.

The First Presentation of the FIRST Trial Results. 11th Annual Academic Surgical Conference (ASC). Jacksonville, FL, 2nd February 2016.

National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. ACGME Board of Directors Meeting. Phoenix, AZ, 8th February 2016.

National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. Northwestern University Department of Surgery Grand Rounds, Chicago, 11th February 2016.

Revising CMS for Pay-for-Performance Based on Recent Evidence. The Joint Commission. 19th February 2016.

National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. University of Utah Department of Surgery Grand Rounds, 24th February 2016.

Great Debates: Public Reporting of Hospital and Provider-Level Outcomes (Con). Society of Surgical Oncology Annual Symposium, Boston, MA, 4th March 2016.

Additional Data from the FIRST Trial. ACGME Task Force on Fatigue Management, Supervision, Professionalism, and Patient Safety. Chicago, IL, 16th March 2016.

National Cluster-Randomized Trial of Duty Hour Flexibility in Surgical Training. American Medical Association Council on Medication Education, Chicago, 17th March 2016.

The FIRST Resident Duty Hour: Informing Policy with Evidence and Controversy. A.R. Moosa Memorial Lecture. University of California San Diego Grand Rounds, San Diego, 22nd March 2016.

Surgical Treatment of GIST's: Big Ones, Small Ones, and Everything in Between. Life Raft Group's GIST Day of Learning. Chicago, IL. 9th May 2016.

Moving Beyond Poor Measures: The Future of Pay-for-Performance Programs: Surgery Resident Research Day Visiting Professor, University of Wisconsin, 18th May 2016.

Are We Penalizing the Wrong Hospitals? Evaluation of the Venous Thromboembolism Quality Measure. Biomedical Data Science Research Day. Chicago, IL. 10th June 2016

Publications

Mohanty S, Paruch J, Bilimoria KY, Cohen M, Strong VE, Weber SM. Impact of gastrectomy procedural complexity on surgical outcomes and hospital comparisons. *Surgery*. 2015;158(2):522-528.

Mohanty S, Rajaram R, Bilimoria KY, Pawlik TM, Bentrem D. Changing Treatment Patterns

Faculty Presentations & Publications

of Early Hepatocellular Carcinoma. *Ann Surg Oncol.* 2015;22:S100-S100.

Mohanty S, Robinson TN, Cooper Z, et al. Surrogate Consent for Surgery Forecasts Early Do-Not Resuscitate Orders and High Mortality. *J Am Coll Surgeons.* 2015;221(4):S84-S84.

Orton A, Hyngstrom J, Andtbacka RHI, et al. Use of Adjuvant Radiation Therapy in Node-positive Melanoma in the United States. *Int J Radiat Oncol.* 2015;93(3):E369-E370.

Rajaram R, Barnard C, Bilimoria KY. Flaws in Patient Safety Measures--Reply. *JAMA.* 2015;313(24):2495.

Rajaram R, Barnard C, Bilimoria KY. Concerns about using the patient safety indicator-90 composite in pay-for-performance programs. *JAMA.* 2015;313(9):897-898.

Rajaram R, Barnard C, Bilimoria KY. Flaws in Patient Safety Measures Reply. *Jama-J Am Med Assoc.* 2015;313(24):2495-2495.

Rajaram R, Bilimoria KY. JAMA PATIENT PAGE. Medicare. *JAMA.* 2015;314(4):420.

Rajaram R, Chung JW, Cohen ME, et al. Association of the 2011 ACGME Resident Duty Hour Reform with Postoperative Patient Outcomes in Surgical Specialties. *J Am Coll Surg.* 2015;221(3):748-757.

Rajaram R, Chung JW, Kinnier CV, et al. Hospital Characteristics Associated With Penalties in the Centers for Medicare & Medicaid Services Hospital-Acquired Condition Reduction Program. *JAMA.* 2015;314(4):375-383.

Rajaram R, Ju MH, Bilimoria KY, Ko CY, DeCamp MM. National evaluation of hospital readmission after pulmonary resection. *J Thorac Cardiovasc Surg.* 2015;150(6):1508-1514 e1502.

Rajaram R, Saadat L, Chung J, et al. Impact of the 2011 ACGME resident duty hour reform on hospital patient experience and processes-of-care. *Bmj Qual Saf.* 2015.

Spolverato G, Ejaz A, Kim Y, et al. Patterns of care among patients undergoing hepatic resection: a query of the National Surgical Quality Improvement Program-targeted hepatectomy database. *J Surg Res.* 2015;196(2):221-228.

Yadlapati R, Gawron AJ, Bilimoria K, et al. Development of quality measures for the care of patients with gastroesophageal reflux disease. *Clin Gastroenterol Hepatol.* 2015;13(5):874-883 e872.

Asare EA, Liu L, Hess KR, et al. Development of a model to predict breast cancer survival

using data from the National Cancer Data Base. *Surgery.* 2016;159(2):495-502.

Berger ER, Kinnier CV, Minami CA, Winchester DP, Yang AD, Bilimoria K. Hospital Level Adjusted Sentinel Lymph Node Positivity Rates in Breast Cancer. *Ann Surg Oncol.* 2016;23:S47-S47.

Berian JR, Paruch JL, Cohen ME, et al. Does Performance Vary Within the Same Hospital When Separately Examining Different Patient Subgroups? *J Am Coll Surg.* 2016;222(5):790-797 e791.

Bilimoria KY, Chung JW, Hedges LV, et al. National Cluster-Randomized Trial of Duty-Hour Flexibility in Surgical Training. *N Engl J Med.* 2016;374(8):713-727.

Bilimoria KY, Chung JW, Hedges LV, et al. Development of the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial Protocol: A National Cluster-Randomized Trial of Resident Duty Hour Policies. *JAMA Surg.* 2016;151(3):273-281.

Bilimoria KY, Sohn MW, Chung JW, et al. Association Between State Medical Malpractice Environment and Surgical Quality and Cost in the United States. *Ann Surg.* 2016;263(6):1126-1132.

Jakub JW, Terando AM, Sarnaik A, et al. Training High-Volume Melanoma Surgeons to Perform a Novel Minimally Invasive Inguinal Lymphadenectomy: Report of a Prospective Multi-Institutional Trial. *J Am Coll Surg.* 2016;222(3):253-260.

Jakub JW, Terando AM, Sarnaik A, et al. Safety and Feasibility of Minimally Invasive Inguinal Lymph Node Dissection in Patients With Melanoma (SAFE-MILND): Report of a Prospective Multi-institutional Trial. *Ann Surg.* 2016.

Kinnier CV, Ju MLH, Kmiecik T, et al. Development of a Novel Composite Process Measure for Venous Thromboembolism Prophylaxis. *Med Care.* 2016;54(2):210-217.

Kinnier CV, Paruch JL, Dahlke AR, et al. Assessing Awareness and Implementation of a Recommendation for Surgical Innovation Committees: A Survey of Academic Institutions (vol 262, pg 941, 2015). *Ann Surg.* 2016;263(2):392-398.

Kinnier CV, Paruch JL, Dahlke AR, et al. Adjusted Hospital Sentinel Lymph Node Positivity Rates in Melanoma: A Novel Potential Measure of Quality. *Ann Surg.* 2016;263(2):392-398.

Liu Y, Cohen ME, Hall BL, Ko CY, Bilimoria KY. Evaluation and Enhancement of Calibration in the American College of Surgeons

NSQIP Surgical Risk Calculator. *J Am Coll Surg.* 2016.

Matulewicz RS, Flum AS, Helenowski I, et al. Centralization of Penile Cancer Management in the United States: A Combined Analysis of the American Board of Urology and National Cancer Data Base. *Urology.* 2016;90:82-88.

Merkow RP, Bilimoria KY, Bentrem DJ. Reply to Letter: "Extended Venous Thromboembolism Prophylaxis After Colorectal Cancer Resection: A UK Perspective". *Ann Surg.* 2016;263(2):e27.

Merkow RP, Bilimoria KY, Bentrem DJ. Extended Venous Thromboembolism Prophylaxis After Colorectal Cancer Resection: A UK Perspective Reply. *Ann Surg.* 2016;263(2):E27-E27.

Minami CA, Bilimoria KY, Hansen NM, et al. National Evaluation of the New Commission on Cancer Quality Measure for Postmastectomy Radiation Treatment for Breast Cancer. *Ann Surg Oncol.* 2016.
Minami CA, Dahlke AR, Barnard C, et al. Association Between Hospital Characteristics and Performance on the New Hospital-Acquired Condition Reduction Program's Surgical Site Infection Measures. *JAMA Surg.* 2016.

Minami CA, Sheils CR, Bilimoria KY, et al. Process improvement in surgery. *Curr Prob Surg.* 2016;53(2):62-96.

Mohanty S, Rajaram R, Bilimoria KY, Salem R, Pawlik TM, Bentrem DJ. Assessment of non-surgical versus surgical therapy for localized hepatocellular carcinoma. *J Surg Oncol.* 2016;113(2):175-180.

Odell DD, Bilimoria KY. Evaluating Appropriate Blood Transfusion in Cancer Surgery. *JA-MA Surg.* 2016:1.

Rajaram R, Paruch JL, Mohanty S, et al. Patterns and Predictors of Chemotherapy Use for Resected Non-Small Cell Lung Cancer. *Ann Thorac Surg.* 2016;101(2):533-540.

Stulberg JJ, Bilimoria KY. Complications, Costs, and Financial Incentives for Quality. *JAMA Surg.* 2016.

Yadlapati R, Gawron AJ, Keswani RN, et al. Identification of Quality Measures for Performance of and Interpretation of Data From Esophageal Manometry. *Clin Gastroenterol Hepatol.* 2016;14(4):526-534 e521.

Yang AD, Bilimoria KY. Accurately Measuring Hospital Venous Thromboembolism Prevention Efforts. *JAMA.* 2016;315(19):2113-2114.

Juan Carlos Caicedo, MD, FACS

Faculty Presentations & Publications

Presentations

Invited Speaker, Northwestern Medicine Annual Kidney/Pancreas Transplant Conference, Chicago, Illinois, An innovative Plan to Increase Hispanic Access and participation in Transplantation, October 2015.

Invited Speaker, 2015 STALYC (Latin American and Caribbean Transplant Society), Cancun, Mexico, Strategies to increase the rate of living donor kidney and liver in Hispanics, October 2015.

Invited Speaker, 2015 STALYC (Latin American and Caribbean Transplant Society), Cancun, Mexico, Live Donor Liver transplantation for adults – The state of the art, October 2015.

Invited Speaker, 2015 STALYC (Latin American and Caribbean Transplant Society), Cancun, Mexico, Minimally invasive living donor hepatectomy, October 2015.

Invited Speaker, 2015 STALYC (Latin American and Caribbean Transplant Society), Cancun, Mexico, State of the Art in Pancreas Transplantation, October 2015.

Invited Speaker, Miami Transplant Institute's Miami Transplant International Symposium, Miami, Florida. Strategies to increase living donor kidney transplantation in minorities, October 2015.

Invited Speaker, ASTS Winter Symposium, Miami, Florida. The Proposal: Finding Donors, January 2016.

Invited Speaker, Northwestern University Feinberg School of Medicine, Medical Students, Chicago, Illinois. Kidney Transplantation – Better Option of Life, March 2016.

Invited Speaker, UC Davis Nephrology and Transplantation Conference, Sacramento, California. Transplant Center Strategies to Increase Living Donation in Hispanics, April 2016. Invited Speaker, Mayo Clinic, Phoenix, Arizona. Transplant Grand Rounds: Transplant Center Strategies to Increase Living Kidney Donation in Hispanics, May 2016.

Invited Speaker, Baylor University Medical Center, Dallas, Texas. Transplant Grand Rounds: Transplant Center Strategies to Increase Living Kidney Donation in Hispanics, May 2016.

Invited Speaker, American Foundation for Donation and Transplantation, 8th Annual Living Donation Conference: Essential Donor Team Concepts, Clearwater, Florida. Cultural Sensitive Approaches to Increase Living Kidney Donation in Hispanics, May 2016.

Invited Speaker, American Foundation for Donation and Transplantation, 8th Annual Living Donation Conference: Essential Donor

Team Concepts, Clearwater, Florida. Surgical Approaches to Living Liver Donation and Short Term Complications, May 2016.

Publications

MM, Caicedo JC, Hispanic/Latino Disparities in Living Donor Kidney Transplantation: Role of a Culturally Competent Transplant Program. Transplantation Direct 2015;1: e29.

Gordon EJ, Feinglass J, Carney P, Vera K, Olivero M, Black A, O'Connor K, MacLean J, Nichols S, Sageshima J, Preczewski L, Caicedo JC, A Culturally Targeted Website for Hispanics/Latinos About Living Kidney Donation and Transplantation: A Randomized Controlled Trial of Increased Knowledge. Transplantation, 2015 Oct 6.

Gordon E, Feinglass J, Carney P, Vera K, Olivero M, Black A, Grubbs O'Connor K, MacLean Baumgart J, Caicedo JC, A Website Intervention to Increase Knowledge About Living Kidney Donation and Transplantation Among Hispanic/Latino Dialysis Patients. Prog Transpl March 2016 vol. 26 no. 182-91 DOI: 10.1177/1526924816632124.

Lewandowski RJ, Donahue L, Chokechanachaisakul A, Kulik L, Mouli S, Caicedo J, Abecassis M, Fryer J, Salem R, Baker T, 90Y radiation lobectomy: Outcomes following surgical resection in patients with hepatic tumors and small future liver remnant volumes. J Surg Oncol, April 2016. DOI: 10.1002/jso.2426

Andrei Churyla, MD

Presentations

Bilateral or Left Atrial Lesion Set for Ablation during Mitral Valve Surgery: Risk and Benefits. (Podium presentation) The Society of Thoracic Surgeons (STS) 52nd Annual Meeting, Phoenix, AZ. Jan 2016.

Publications

Malaisrie, S. C., Churyla A., et al. (2016). "Transcatheter Aortic Valve Implantation." Curr Atheroscler Rep 18(5): 27.

Anne Marie Boller, MD

Publications

Fleshman J, Branda M, Sargent DJ, Boller AM, George V, Abbas M, Peters WR, Maun D, Chang G, Herline A, Fichera A, Mutch M, Wexner S, Whiteford M, Marks J, Birnbaum E, margolin D, Larson D, Marcello P, Posner M, Read T, Monsoon J, Wren SM, Pisters PW, Nelson H. Effect of Laparoscopic-Assisted Resection vs Open Resection of Stage II or III Rectal Cancer on Pathologic Outcomes. JAMA, 2015; 314(13):1346-1355.

Wasserman MA, McGee MF, Helenowski IB, Halverson AL, Boller AM, Stryker SJ. The an-

thropometric definition of the rectum is highly variable. Int J Colorectal Dis. 2016 Feb; 31 (2):189-95. doi: 10.1007/s00384-015-2458-5. Epub 2015 Nov 25. PMID: 26607905

Saadat L, Helenowski I, Mahvi D, Boller AM Should Oral Contrast Be Omitted in Patients with Suspected Appendicitis? Journal of Gastrointestinal Surgery, DOI 10.1007/s11605-016-3110-6 (<http://link.springer.com/article/10.1007/s11605-016-3110-6>).

Nordenstam J, Boller AM, Mellgren AF. Sacral Nerve Stimulation in the Treatment of Bowel Disorders. Prog Neurol Surg, 29:200-12, 2015.

Bochenska, K, Boller, AM, Fecal Incontinence, Surgery Clinics of North America, (Ed. Kennedy, G) Publication pending as of January 2016.

Teitelbaum EN, Arafat FO, Boller AM. Comparison of the effect of instrument type on transanal endoscopic surgery learning curves. Surg Laparosc Endosc Percutan Tech. 2016 [Epub ahead of print]

Mark Cohen, MD

Publications

Liu, J. B., Weber, S. M., Berian, J. R., Chen, S., Cohen, M. E., Ko, C. Y., Bilimoria, K. Y. Role of operative complexity variables in risk adjustment for patients with cancer. JAMA Surgery, epub ahead of print.

Ban, K. A., Cohen, M. E., Ko, C. Y., Friedberg, M. W., Stulberg J. J., Zhou, L., Hall, B. L., Hoyt, D. B., Bilimoria, K. Y. Evaluation of the ProPublica surgeon scorecard outcome measure and methods. Annals of Surgery, epub ahead of print.

Liu, Y., Cohen, M. E., Hall, B. L., Ko, C. Y., Bilimoria, K. Y. Evaluation and enhancement of calibration in the ACS NSQIP Surgical Risk Calculator. Journal of the American College of Surgeon, in press.

Berian J. R., Paruch, J. L., Cohen, M. E., Merkow, R. P., Dahlke, A. T., Kop, C. Y., Bilimoria, K. Y. Does performance vary within the same hospital when separately examining different patient subgroups. Journal of the American College of Surgeons, 2016, 222, 790-797.

Stey, A. M., Vinocur, C. D., Moss, R. L., Hall, B. L., Cohen, M. E., Kraemer, K., Ko, C. Y., Kenney, B. D. Variation in intraoperative and postoperative red blood cell transfusion in pediatric surgery. Transfusion, 2016; 56, 666-672.

Bilimoria, K. Y., Chung, J. W., Hedges, L. V., Dahlke, A. R., Love, R., Cohen, M. E., Hoyt, D. B., Yang, A. D., Tarpley, J. L., Mellinger, J.

Faculty Presentations & Publications

D., Mahvi, D. M., Kelz, R. R., Ko, C. Y., Odell, D. D., Stulberg, J. J., Lewis, F. R. National cluster-randomized trial of duty hour flexibility in surgical training. *New England Journal of Medicine*, 2016; 374, 713-727.

Cohen, M. E., Liu, Y., Huffman, K. M., Ko, C. Y., Hall, B. L. On-demand reporting of risk-adjusted and smoothed rates for quality improvement in ACS NSQIP. In press, *Annals of Surgery*.

Bilimoria, K. Y., Chung, J. W., Hedges, L. V., Dahlke, A. R., Love, R., Cohen, M. E., Tarpley, J., Mellinger, J., Mahvi, D. M., Kelz, R. R., Ko, C. Y., Hoyt, D. B., Lewis, F. H. Development of the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial Protocol: A National Cluster-Randomized Trial of Resident Duty Hour Policies. *JAMA Surgery*, 2016; 151, 273-281.

Anazawa, T., Paruch, J. L., Miyata, H., Gotoh, M., Ko, C. Y., Cohen, M. E., Hirahara, N., Zhou, L., Konno, H., Wakabayashi, G., Sugihara, K., Mori, M. Comparison of National Operative Mortality in Gastroenterological Surgery Using Web-based Prospective Data Entry Systems. *Medicine*, 2015; 94, e2194.

Mohanty, S., Cohen, M. E., Bilimoria, K. Y. Genuflecting to hospital variation in home discharge - Reply. *JAMA Surgery* (epub ahead of print).

Asare, E. A., Liu, L., Hess, K. R., Gordon, E. J., Paruch, J. L., Palis, B., Dahlke, A. R., McCabe, R., Cohen, M. E., Winchester, D. O., Bilimoria, K. Y., Development of a model to predict breast cancer survival using data from the National Cancer Data Base. *Surgery*, 2016; 159, 495-502.

Hall B.L., Huffman K. M., Hamilton, B. H., Paruch, J. L., Zhou, L., Richards, K. E., Cohen, M. E., Ko, C. Y. Profiling individual surgeon performance using information from a high-quality clinical registry: Opportunities and limitations. *Journal of the American College of Surgeons* 2015; 221, 901-913.

Stey, A. M., Kenny, B. D., Cohen, M. E., Moss, Hall B.L., Berman, L., Kraemer, K., Ko, C. Y., Vinocur, C. D. Estimating adverse events after gastrostomy tube placement. *Academic Pediatrics*, 2016; 16, 129-135.

Malcolm M. DeCamp, Jr., MD

Presentations

Invited Speaker, Advances in the Management of Severe COPD and Emphysema, "Lung Volume Reduction Surgery", Chicago, IL, 2015

Invited Speaker, Advances in Thoracic Surgical Oncology-MSKCC NY, NY, Lung Cancer Screening Programs Will Increase Lung Cancer Resections: Debate - Con, Pulmonary Resection in the COPD Patient: A Balanced Ap-

proach, Diagnosis and Management of Late Post-Esophagectomy Complications, 2015

Town Hall Moderator, American College of Surgeons Clinical Congress, How do we credential surgeons in the use of new technology? Chicago, IL, 2015

Invited Speaker, STS Advances in Quality and Outcomes (AQO), General Thoracic Surgery Database/Staging Esophageal Cancer, San Antonio, TX, 2015

Invited Speaker, Plenary Presentation, "Robotic vs. Thoracoscopic Surgery for Thoracic Malignancies", CHEST 2015, Montreal, Quebec, Canada

Publications

Phillips JD, Knab LM, Blatner NR, Haghi L, DeCamp MM, Meyerson SL, Heiferman MJ, Heiferman JR, Gounari F, Bentrem DJ, Khazaie K. Preferential expansion of pro-inflammatory Tregs in human non-small cell lung cancer. *Cancer Immunol Immunother*. 2015 Sep;64 (9):1185-91.

Rajaram R, Ju MH, Bilimoria KY, Ko CY, DeCamp MM. National evaluation of hospital readmission after pulmonary resection. *J Thorac Cardiovasc Surg*. 2015 Dec;150(6):1508-14.

Kanter JA, Sun H, Chiu S, DeCamp MM, Sporn PH, Sznajder JI, Bharat A. Decreased CXCL12 is associated with impaired alveolar epithelial cell migration and poor lung healing after lung resection. *Surgery*. 2015 Oct;158(4):1073-80; discussion 1080-2.

Bharat A, Bhorade SM, Morales-Nebreda L, McQuattie-Pimentel AC, Soberanes S, Ridge K, DeCamp MM, Mestan KK, Perlman H, Budinger GRS, Misharin AV. Flow cytometry reveals similarities between lung macrophages in humans and mice. *Am J Respir Cell Mol Biol*. 2016 Jan;54(1):147-9.

Bharat A, Graf N, Mullen A, Kanter J, Andrei AC, Sporn PH, DeCamp MM, Sznajder JI. Pleural hypercarbia after lung surgery is associated with persistent alveolopleural fistulae. *Chest*. 2016 Jan;149(1):220-7.

Rajaram R, Paruch JL, Mohanty S, Holl JL, Bilimoria KY, Ko CY, Winchester DP, Patel JD, DeCamp MM. Patterns and Predictors of Chemotherapy Use for Resected Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2016 Feb;101(2):533-40.

Bharat A, Chiu S, Zheng Z, Sun H, Yeldandi A, DeCamp MM, Perlman H, Budinger GR, Mohanakumar T. Lung-restricted Antibodies Mediate Primary Graft Dysfunction and Prevent Allograft Rejection Following Murine Lung Transplantation. *Am J Respir Cell Mol Biol*. 2016 May 4. [Epub ahead of print]

Chiu S, Fernandez R, Subramanian V, Sun H,

DeCamp MM, Kreisel D, Perlman H, Budinger GR, Mohanakumar T, Bharat A. Lung Injury Combined with Loss of Regulatory T Cells Leads to De Novo Lung-Restricted Autoimmunity. *J Immunol*. 2016 May 18. [Epub ahead of print]

Fernandez FG, Kosinski AS, Burfeind W, Park B, DeCamp MM, Seder C, Marshall B, Magee MJ, Wright CD, Kozower BD. The Society of Thoracic Surgeons Lung Cancer Resection Risk Model: Higher Quality Data and Superior Outcomes. *Ann Thorac Surg*. 2016 May 19. [Epub ahead of print]

Raymond DP, Seder CW, Wright CD, Magee MJ, Kosinski AS, Cassivi SD, Grogan EL, Blackmon SH, Allen MS, Park BJ, Burfeind WR, Chang AC, DeCamp MM, Wormuth DW, Fernandez FG, Kozower BD. Predictors of Major Morbidity or Mortality After Resection for Esophageal Cancer: A Society of Thoracic Surgeons General Thoracic Surgery Database Risk Adjustment Model. *Ann Thorac Surg*. 2016 May 28. [Epub ahead of print]

Mehta CK, Stanifer BP, Fore-Kosterski S, Gillespie C, Yeldandi A, Meyerson S, Odell DD, DeCamp MM, Bharat A. Primary Spontaneous Pneumothorax in Menstruating Women Has High Recurrence. *Ann Thorac Surg*. 2016 Jun 24. [Epub ahead of print]

Smith DA, Gillespie C, DeCamp MM, Bharat A. Disappearing Post-pneumonectomy Pleural Fluid Without Bronchopleural fistula. *Am J Respir Crit Care Med*. 2016 Jan 27. [Epub ahead of print]

Tomasko J, Prasad SM, Dell DO, DeCamp MM, Bharat A. Therapeutic anticoagulation-free extracorporeal membrane oxygenation as a bridge to lung transplantation. *J Heart Lung Transplant*. 2016 May 6.[Epub ahead of print]

Rajaram R, DeCamp MM. Injury to the Right Gastroepiploic Artery. In *Gastrointestinal Surgery: Management of Complex Perioperative Complications*, Pawlik TM, Maithel SK, Merchant NB, eds. Springer: New York, NY 2015. Pp 93-100.

Facktor M, DeCamp MM, de Perrot M, Ferguson M, Grondin S, Lanuti M, Lin J. Lobectomy. In *Operative Standards for Cancer Surgery*, Volume 1 (Breast, Lung, Pancreas, Colon). Nelson H, Hunt KK, Veeramachaneni N et al eds. American College of Surgeons:Chicago, IL 2015. Pp 163-7.

Osama Eltayeb, MBBS

Publications

Eltayeb O, Mongé MC, Popescu AR, Sarwark AE, Harris T, Backer CL. Discontinuous pulmonary artery: Utility of computed tomographic angiography and lung perfusion scan in management. *World J Pediatr Congenit Heart Surg*

Faculty Presentations & Publications

2016 Mar; pii: 2150135115618871. [Epub ahead of print]

Mark Eskandari, MD

Presentations

Lecturer, "Carotid Review of CREST Data and CREST II Trial". ACS Clinical Congress, Chicago, IL, October 3-8, 2015.

Lecturer, "SFA/Popliteal-Optimizing Endovascular Results". ACS Clinical Congress, Chicago, IL, October 3-8, 2015. Lecturer, "Carotids: Stenosis vs Dissection; CEA vs CAS", 29th Annual Nursing Vascular Conference, Chicago, IL, October 30, 2015.

Moderator, "Carotid Disease Update 2015: Progress and Controversy". American Heart Association Scientific Sessions 2015, Orlando, FL, November 7-11, 2015.

Lecturer, "Secondary Interventions after TEVAR: Indications, Techniques and Results". VEITH Symposium, New York, NY, November 16-17, 2015.

Moderator, "Cerebrovascular and Supra-Aortic Trunk Disease". 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 10-12, 2015.

Moderator, "Visceral and Renal Artery Disease". 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 10-12, 2015.

Moderator, "Thoracic/Thoracoabdominal Diseases". 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 10-12, 2015.

Lecturer, "Management of Late TEVAR Failures". 28th Annual International Symposium on Endovascular Therapy (ISET 2016), Hollywood, FL, February 6-10, 2016.

Lecturer, "Indications for Left Subclavian Artery Revascularization During TEVAR". 28th Annual International Symposium on Endovascular Therapy (ISET 2016), Hollywood, FL, February 6-10, 2016.

Lecturer, "LSCA Bypass vs. Transposition". The Houston Aortic Symposium: Frontiers in Cardiovascular Diseases, Houston, TX, March 3-5, 2016.

Lecturer, "Diagnosis and Treatment of Iatrogenic Line Complications". Advances in Vascular Surgery and Endovascular Therapy, Baltimore, MD, May 12-14, 2016.

Lecturer, "Surgical Approaches and Techniques for the Treatment of Infected Aortic Prosthesis". Advances in Vascular Surgery and Endovascular Therapy, Baltimore, MD, May 12-14, 2016.

Panelist, "Case Repost Session II: Asymptomatic Carotid Stenosis: CEA, Stent, or Optimal Medical Management?" Central Surgical Association, Montreal, Quebec, Canada, March 10-12, 2016.

Publications

Kumar HR, Rodriguez HE, Eskandari MK. Mid-term outcomes of self-expanding covered stent grafts for repair of popliteal artery aneurysms. *Surgery* 2015;157:874-880.

Vavra AK, Eskandari MK. Treatment options for symptomatic carotid stenosis: Timing and approach. *The Surgeon* 2015;13:44-51. PMID 25439169

Morgan CE, Herm-Barabasz R, Rodriguez HE, Hoel AW, Eskandari MK. Incidence of acute lower extremity venous thrombosis after percutaneous endovascular aneurysm repair. *J Vasc Surg* 2015;62:351-354. PMID 25937605

Kumar HR, Rodriguez HE, Eskandari MK. Mid-term outcomes of self-expanding covered stent grafts for repair of popliteal artery aneurysms. *Surgery* 2015;157:874-880. PMID 25704425

Yoon DY, Annambhotla S, Resnick SA, Eskandari MK, Rodriguez HE. Inadvertent arterial placement of central venous catheters: Diagnostic and therapeutic strategies. *Ann Vasc Surg* 2015;29:1567-1574. PMID 26256713

Zamor KC, Eskandari MK, Rodriguez HE, Hoel AW, Morasch MD, Hoel AW. Outcomes of thoracic endovascular aortic repair and subclavian revascularization techniques. *J Am Coll Surg* 2015;221:93-100. PMID 25872688

Brott TG, Howard G, Roubin GS, Meschia JF, Mackey A, Brooks W, Moore WS, Hill MD, Mantese VA, Clark WM, Timaran CH, Heck D, Leimgruber PP, Sheffet AJ, Howard VJ, Chaturvedi S, Lal BK, Voeks JH, Hobson RW 2nd; CREST Investigators. Long-Term Results of Stenting versus Endarterectomy for Carotid Artery Stenosis. *N Engl J Med* 2016;374(11):1021-31. doi: 10.1056/NEJMoa1505215. Epub 2016 Feb 18. PMID: 26890472

Rosenfield K, Matsumura JS, Chaturvedi S, Riles T, Ansel GM, Metzger DC, Wechsler L, Jaff MR, Gray W; ACT I Investigators. Randomized Trial of Stent versus Surgery for Asymptomatic Carotid Stenosis. *N Engl J Med* 2016;374(11): 1011-20. doi: 10.1056/NEJMoa1515706. Epub 2016 Feb 17. PMID: 26886419

Havelka GE, Tomita TM, Malaisrie SC, Hoel AW, Eskandari MK. Two cases of aortic intimal intussusceptions during endovascular repair of an acute type B dissection. *J Endovasc Ther* 2016;23:521-8. doi: 10.1177/1526602816644917. Epub 2016 Apr 20. PMID: 27099283

Smeds MR, Duncan AA, Harlander-Locke MP,

Lawrence PF, Lyden S, Fatima J, Eskandari MK; Vascular Low-Frequency Disease Consortium. Treatment and outcomes of aortic endograft infection. *J Vasc Surg* 2016;63(2):332-40. doi: 10.1016/j.jvs.2015.08.113. PMID: 26804214

Donald Fry, MD

Publications

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: The Appropriate Measurement of Post-discharge Readmissions in Medicare Colon Surgery. *Am J Surg* 2015 Dec 23. pii: S0002-9610(15)30014-3. doi: 10.1016/j.amjsurg.2015.08.037. [Epub ahead of print] PMID:26762831. Presented at the 58th Annual Meeting of the Midwest Surgical Association, Lake Geneva, Wisconsin, July 26-29, 2015.

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Hospital outcomes in inpatient laparoscopic cholecystectomy in medicare patients. *Ann Surg* 2016 Feb 1. Epub ahead of print].

Fry DE: Antimicrobial Bowel Preparation for Elective Colon Surgery. *Surg Infect* 2016 Jun;17(3):269-74. doi: 10.1089/sur.2015.271. Epub 2016 Feb 17.

Pine M, Fry DE, Hannan E, Naessens JM, Whitman K, Reband A, Qian F, Schindler J, Sonneborn M, Roland J, Hyde L, Dennison BA: Admission Laboratory Results to Enhance Prediction Models of Post-Discharge Outcomes in Cardiac Care. *Am J Med Qual* 2016 Feb 24. pii: 1062860615626279. [Epub ahead of print]

Pine M, Fry DE, Hannan E, Naessens JM, Whitman K, Reband A, Qian F, Schindler J, Sonneborn M, Roland J, Hyde L, Dennison BA: Adding laboratory data to hospital claims data to improve risk adjustment of inpatient/30-day postdischarge outcomes. *Am J Med Qual* 2016 Feb 25. pii: 1062860616629205. [Epub ahead of print].

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Inpatient and 90-Day Post-Discharge Outcomes in Cardiac Surgery. *Am J Account Care* 2016 Mar 14. [Epub ahead of print].

Fry DE: Extrapulmonary tuberculosis and related surgical treatment. *Surg Infect* 2016 Apr 8. [Epub ahead of print].

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Benchmarking Hospital Outcomes for Improvement of Care in Medicare Elective Colon Surgery. *Am J Surg* 2016 May 7. pii: S0002-9610(16)30194-5. doi: 10.1016/j.amjsurg.2016.01.037. [Epub ahead of print]

Fry DE: Topical antimicrobials and the open surgical wound. *Surg Infect* (in press, 2016).

Faculty Presentations & Publications

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Risk-Adjusted Hospital Outcomes in Medicare Total Joint Replacement Surgery. *J Bone Joint Surg Am* (in press, 2016).

Fry DE: Infection Control in Colon Surgery. *Langenbeck's Arch Surg* 2016 Aug;401(5):581-97. doi: 10.1007/s00423-016-1467-3. Epub 2016 Jun 27. Review.

Fry DE, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Risk-adjusted Outcomes in Medicare Inpatient Nephrectomy Patients. *Medicine* (in press, 2016).

Jonathan Fryer, MD

Presentations

American Transplant Congress, Boston, Massachusetts. Achieving Autonomy. June 14, 2016.

Publications

Lewandowski RJ, Donahue L, Chokechanachaisakul A, Kulik L, Mouli S, Caicedo J, Abecassis M, Fryer J, Salem R, Baker T. (90) Y radiation lobectomy: Outcomes following surgical resection in patients with hepatic tumors and small future liver remnant volumes. *J Surg Oncol*. 2016 Jul;114(1):99-105. doi:10.1002/jso.24269. Epub 2016 Apr 22. PubMed PMID: 27103352.

Close A, Goldberg A, Helenowski I, Schuller M, DaRosa D, Fryer J. Beta Test of Web-Based Virtual Patient Decision-Making Exercises for Residents Demonstrates Discriminant Validity and Learning. *J Surg Educ*. 2015 Nov-Dec;72(6):e130-6. doi: 10.1016/j.jsurg.2015.10.011. Review. PubMed PMID: 26610356.

Salem R, Vouche M, Baker T, Herrero JI, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlastos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization-Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*. 2015 Nov;99(11):2347-55. doi:10.1097/TP.0000000000000729. PubMed PMID: 25905983.

Elisa Gordon, PhD

Presentations

How to educate living donors successfully. University of California, Davis.

Telenephrology: Implications for Access and Quality. American Society of Nephrology, San Diego, CA.

Ethical Considerations Regarding Incentives

for Kidney Donors. American Society of Nephrology, San Diego, CA.

Ethical Issues in Nephrology and the Role of Ethics Consultations to Resolve Them. University of Illinois at Chicago, Chicago, IL.

Ethical and practical considerations in testing financial incentives. Paper included as part of the opening plenary debate entitled, Incentives for living donation. Fourth International Congress on Ethical, Legal and Psychosocial Aspects of Organ Transplantation (ELPAT), Rome, Italy.

Informed Consent in Living Donors: Ethical Dimensions and Research Opportunities. Paper included as part of the session entitled, How informed is the living donor? Fourth International Congress on Ethical, Legal and Psychosocial Aspects of Organ Transplantation (ELPAT), Rome, Italy.

Innovative Approaches for Improving Informed Consent for Living Donation. Paper included as part of the session entitled, Informed Decision Making in Living Organ Donation. American Transplant Congress, Boston, MA.

Ethical Dilemmas Related to the Internet and Transplant. Moderated Panel Session at The American Transplant Congress, Boston, MA.

Ethical and Cultural Dimensions of Living Donation: A Focus on Hispanic Interventions. Grand Rounds. Department of Ethics, Mayo Clinic, Rochester, MN.

Publications

Gordon EJ, Mullett J, Skaro A, Baker T. Live liver donors' information needs: A qualitative study of practical implications for informed consent. *Surgery*. 2016 Sep;160(3):671-82. doi: 10.1016/j.surg.2016.04.022. Epub 2016 Jun 4. PubMed PMID: 27269968; PubMed Central PMCID: PMC4975671.

Thiessen C, Kulkarni S, Reese PP, Gordon EJ. A Call for Research on Individuals Who Opt Out of Living Kidney Donation: Challenges and Opportunities. *Transplantation*. 2016 Aug 4. [Epub ahead of print] PubMed PMID: 27495760.

Gordon EJ, Sohn MW, Chang CH, McNatt G, Vera K, Beauvais N, Warren E, Mannon RB, Ison MG. Effect of a Mobile Web App on Kidney Transplant Candidates' Knowledge About Increased Risk Donor Kidneys: A Randomized Controlled Trial. *Transplantation*. 2016 Jul 12. [Epub ahead of print] PubMed PMID: 27463536.

Gordon EJ, Gill JS. US Transplant Policy Should Strengthen Bridges, Not Build Walls. *Am J Transplant*. 2016 Jun;16(6):1645-6. doi: 10.1111/ajt.13713. Epub 2016 Mar 9. PubMed PMID: 26752683.

Gordon EJ, Feinglass J, Carney P, Vera K, Olivero M, Black A, O'Connor K, MacLean J, Nichols S, Sageshima J, Preczewski L, Caicedo JC. A Culturally Targeted Website for Hispanics/Latinos About Living Kidney Donation and Transplantation: A Randomized Controlled Trial of Increased Knowledge. *Transplantation*. 2016 May;100(5):1149-60. doi: 10.1097/TP.0000000000000932. PubMed PMID: 26444846.

Jamieson NJ, Hanson CS, Josephson MA, Gordon EJ, Craig JC, Halleck F, Budde K, Tong A. Motivations, Challenges, and Attitudes to Self-management in Kidney Transplant Recipients: A Systematic Review of Qualitative Studies. *Am J Kidney Dis*. 2016 Mar;67(3):461-78. doi: 10.1053/j.ajkd.2015.07.030. Epub 2015 Sep 11. Review. PubMed PMID: 26372087.

Robinson JK, Friedewald J, Gordon EJ. Perceptions of Risk of Developing Skin Cancer for Diverse Audiences: Enhancing Relevance of Sun Protection to Reduce the Risk. *J Cancer Educ*. 2016 Mar;31(1):153-7. doi: 10.1007/s13187-015-0885-1. PubMed PMID: 26209181; PubMed Central PMCID: PMC4881419.

Gordon EJ, Feinglass J, Carney P, Vera K, Olivero M, Black A, O'Connor KG, Baumgart JM, Caicedo JC. A Website Intervention to Increase Knowledge About Living Kidney Donation and Transplantation Among Hispanic/Latino Dialysis Patients. *Prog Transplant*. 2016 Mar;26(1):82-91. doi: 10.1177/1526924816632124. PubMed PMID: 27136254.

Singhvi A, Welch AN, Levitsky J, Singhvi D, Gordon EJ. Ethical Considerations of Transplantation and Living Donation for Patients with Alcoholic Liver Diseases. *AMA J Ethics*. 2016 Feb 1;18(2):163-73. doi: 10.1001/journalofethics.2016.18.2.sect1-1602. PubMed PMID: 26894813.

Asare EA, Liu L, Hess KR, Gordon EJ, Paruch JL, Palis B, Dahlke AR, McCabe R, Cohen ME, Winchester DP, Bilimoria KY. Development of a model to predict breast cancer survival using data from the National Cancer Data Base. *Surgery*. 2016 Feb;159(2):495-502. doi: 10.1016/j.surg.2015.08.006. Epub 2015 Sep 11. PubMed PMID: 26365950.

Robinson JK, Friedewald JJ, Desai A, Gordon EJ. A Randomized Controlled Trial of a Mobile Medical App for Kidney Transplant Recipients: Effect on Use of Sun Protection. *Transplant Direct*. 2016 Jan;2(1). pii: e51. PubMed PMID: 26900599; PubMed Central PMCID: PMC4756591.

Lederer S, Fischer MJ, Gordon HS, Wadhwa

Faculty Presentations & Publications

A, Popli S, Gordon EJ. Barriers to effective communication between veterans with chronic kidney disease and their healthcare providers. Clin Kidney J. 2015 Dec;8(6):766-71. doi: 10.1093/ckj/sfv079. Epub 2015 Sep 3. PubMed PMID: 26613037; PubMed Central PMCID: PMC4655788.

Serur D, Gordon EJ. Kidney donors at risk: how to inform the donor. Prog Transplant. 2015 Dec;25(4):284-6. doi: 10.7182/pit2015682. PubMed PMID: 26645918.

Patel SK, Gordon EJ, Wong CA, Grobman WA, Goucher H, Toledo P. Readability, Content, and Quality Assessment of Web-Based Patient Education Materials Addressing Neuraxial Labor Analgesia. Anesth Analg. 2015 Nov;121(5):1295-300. doi: 10.1213/ANE.0000000000000888. PubMed PMID: 26252170.

Gordon EJ, Mullee J, Butt Z, Kang J, Baker T. Optimizing informed consent in living liver donors: Evaluation of a comprehension assessment tool. Liver Transpl. 2015 Oct;21(10):1270-9. doi: 10.1002/lt.24175. PubMed PMID: 25990592.

Gordon EJ, Lee J, Kang R, Ladner DP, Skaro AI, Holl JL, French DD, Abecassis MM, Caicedo JC. Hispanic/Latino Disparities in Living Donor Kidney Transplantation: Role of a Culturally Competent Transplant Program. Transplant Direct. 2015 Sep 22;1(8):e29. doi: 10.1097/TXD.0000000000000540. eCollection 2015 Sep. PubMed PMID: 27500229; PubMed Central PMCID: PMC4946478.

Kathleen Grady, PhD

Presentations

Invited speaker: Sustaining Quality of Life of the Aged: Heart Transplantation, Mechanical Circulatory Support, or Medical Therapy Eleventh Annual Heart Failure Holiday Symposium. The Bluhm Cardiovascular Institute, Center for Heart Failure and Feinberg School of Medicine, Northwestern University, Chicago, IL.

Invited speaker: AHA/ASA Patient Support Network. Chicago Medical Society's 69th Annual 2016 Midwest Clinical Conference.

Invited speaker: Quality of Life Research in Cardiovascular Disease. 41st Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC). Lake Tahoe, CA.

Invited speaker: Cardiovascular Quality of Care and Outcomes Research. 41st Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC). Lake Tahoe, CA.

Invited speaker: Barriers to Behavior change

in Heart Failure. American Heart Association, Scientific Sessions, Orlando, FL.

Invited speaker: Risk for Outcomes other than Survival. American Heart Association, Scientific Sessions, Orlando, FL.

Invited speaker: Informed Consent: More than just a Piece of Paper. Third Annual Dimensions in Heart and Vascular Care, Penn State Hershey, Hershey, PA.
Invited speaker: Quality of Life More than Just Survival. INTERMACS 10th Annual Meeting, Atlanta, GA.

Invited speaker: Hospital to Home: Focusing on the team – Multidisciplinary approach to improve outcomes. ACC, 65th Annual Scientific Session, Chicago, IL.

Publications

Mateo R, Gupta S, Wallia A, Cameron CG, Schmidt K, Oakes DJ, Aleppo G, Andrei AC, Wilcox J, Grady KL, McGee E, Gordon R, Molitch M. Relationship between hyperglycemia and heart transplant rejection. Transplantation Proceedings 2015;47:2727-2731.

Grady KL, Andrei AC, Zhi L, Rybarczyk B, White-Williams C, Gordon R, McGee E. Gender differences in appraisal of stress and coping 5 years after heart transplantation. Heart & Lung. 2016;45(1):41-47.

Gupta B, Grady KL, Fendler T, Jones PG, Spertus JA. Variation of Quality of Life Data Collection across INTERMACS Sites. J Cardiac Failure 2016May;22(5):323-37.

Joseph S, Brisco M, Colvin M, Grady KL, Walsh M, Cook J, genVAD Working Group. Women with cardiogenic shock derive greater benefit from early mechanical circulatory support: An update from the cVAD Registry. J Interv Cardiol. 2016 Jun;29(3):248-256.

Grady KL, Wissman S, Naftel D, Myers S, Gelijns A, Moskowitz A, Pagani F, Young J, Spertus J, Kirklin J. Age and gender differences in HRQOL and factors related to change in HRQOL from before to 6 months after LVAD implantation: Findings from INTERMACS J Heart Lung Transplant 2016;35:777-788.

Jalowiec A, Grady KL, White-Williams C. Clinical Outcomes in Overweight Heart Transplant Recipients. Heart & Lung. 2016;45(4):298-304.

Nora M. Hansen, MD

Presentations

Controversies in Breast Screening: What is a Surgeon to Do? Moderator, American College of Surgeons Clinical Congress, Chicago, IL October 5, 2015

Lynn Sage Town Hall Forum, 17th annual Lynn Sage Breast Cancer Symposium, Chicago, IL, October 15, 2015

Supportive Care, Panel Moderator: 17th annual Lynn Sage Breast Cancer Symposium, Chicago, IL, October 29, 2015

Multidisciplinary Tumor Board: Panelist 17th annual Lynn Sage Breast Cancer Symposium, Chicago, IL, October 15, 2015

Breast Boost Course, Case-Based Discussion Session 2015 RSNA, Chicago, IL December 1, 2015.

Chicago Tribune interview "What to know before getting the genetic test for breast cancer.", October 2015

Publications

Chow I, Hanwright PJ, Hansen NM, Leilabadi SN, Kim JY. Predictors of 30-day readmission after mastectomy: A multi-institutional analysis of 21,271 patients. Breast Dis. 2015 Nov 17;35(4):221-31. PMID:26397768

Woodruff TK, Green S, Paller A, Schlosser BJ, Spring B, Castle M, Stock MC, Carnethon MR, Clark CT, Gerard E, Turek FW, Wisner KL, Wakschlag LS, Kibbe MR, Mendelson MA, Simon MA, Hansen NM, Kenton K, Garcia PM, Zee P, Ramsey-Goldman R, Sutton SH, Van Horn L. Sex-based biomedical research policy needs an implementation plan. Womens Health (Lond Engl). 2015 Jul;11(4):449-52. Epub 2015 Aug 3. No abstract available. PMID:26237204

Mittendorf EA, Ballman KV, McCall LM, Yi M, Sahin AA, Bedrosian I, Hansen NM, Gabram S, Hurd T, Giuliano AE, Hunt KK. Evaluation of the Stage IB Designation of the AJCC Staging System in Breast Cancer. J Clin Oncol. 2015 Apr 1;33(10):1119-27. PMID 25488970.

Minami CA, Bilimoria KY, Hansen NM, Strauss JB, Hayes JP, Feinglass JM, Bethke KP, Rydzewski NR, Winchester DP, Palis BE, Yang AD. National Evaluation of the New Commission on Cancer Quality Measure for Postmastectomy Radiation Treatment for Breast Cancer. Ann Surg Oncol. 2016 Aug;23(8):2446-55. doi: 10.1245/s10434-016-5257-5. Epub 2016 May 11. PMID:27169774

Mary Hummel, PhD

Publications

Liu, X.-F., Jie, C., Zhang, Z., Yan, S., Wang, J.J., Wang, X., Kurian, S., Salomon D.R., Abecassis, M., and Hummel, M. (2016) Transplant-induced Reactivation of Murine Cytomegalovirus Immediate Early gene expression is associated with recruitment of NF-kB and AP-1 to the Major Immediate Early Promoter, J. Gen. Virology 97:941-954.

Faculty Presentations & Publications

Karen Ho, MD

Presentations

Ho, KJ. Diabetic Foot Infections from a Vascular Surgery Perspective, 29th Nursing Conference on Selected Topics in Vascular Disease, Chicago, IL, October 30, 2015

Ho, KJ. Femoro-popliteal Artery In-stent Restenosis: Classification, Consequences, and Treatment. Northwestern Vascular Symposium, Chicago, IL, December 10, 2015

Publications

Zamor KC, Eskandari MK, Rodriguez HE, Ho KJ, Morasch MD, Hoel AW. Outcomes of Thoracic Endovascular Aortic Repair and Subclavian Revascularization Techniques. *J Am Coll Surg*. 2015; 221(1):93-100. PMID: PMC4478203

Scali S, Patel V, Neal D, Bertges D, Ho K, Jorgenson JE, Cronenwett J, Beck A. Pre-operative β -blockers do not improve cardiac outcomes after major elective vascular surgery and may be harmful. *J Vasc Surg*. 2015;62(1):166-172.

Hawkins T, Schaumeier MJ, Smith AD, de Vos MS, Ho KJ, Semel ME, Nguyen LL. Concurrent venography during first rib resection and scalenectomy for venous thoracic outlet syndrome is safe and efficient. *J Vasc Surg Venous Lymphat Disord* 2015;3(3):290-4. PMID: PMC4800744

Ho KJ, Xiong L, Hubert NJ, Nadimpalli A, Kell W, Chang EB, and Kibbe MR. Vancomycin treatment and butyrate supplementation modulate gut microbe composition and severity of neointimal hyperplasia after arterial injury. *Physiological Reports*. 2015;3(12): e12627. PMID: PMC4760455

Havelka GE, Tomita TM, Malaisrie SC, Ho KJ, and Eskandari MK. Two cases of aortic intimal intussusception during endovascular repair of an acute type B dissection. *J Endovasc Ther*. 2016 Jun;23(3):521-8. doi: 10.1177/1526602816644917

Havelka GE, Tomita TM, Malaisrie SC, Ho KJ, Eskandari MK. Two Cases of Aortic Intimal Intussusception During Endovascular Repair of an Acute Type B Dissection. *J Endovasc Ther*. 2016 Jun;23(3):521-8. doi: 10.1177/1526602816644917.

Tomita TM, Rodriguez HE, Hoel AW, Ho KJ, Pearce WH, Eskandari MK. Implications of Intraoperative Vascular Surgery Assistance for Hospitals and Vascular Surgery Trainees. *JAMA Surg*. 2016 Aug 3. doi: 10.1001/jamasurg.2016.2247. [Epub ahead of print] PMID: 2748730

Andrew Hoel

Presentations

Lecturer, "Carotid –subclavian bypass versus transposition after TEVAR". 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 12, 2015.

Moderator, "Abdominal Aortic Diseases". 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 12, 2015.

Commentator, "The Endovascular Approach to Disease of the Aorta". Stone Cardiology Rounds, Chicago, IL, February 3, 2016.

Publications

Schneider JR, Hoel AW. Reply: To PMID 25925539. *J Vasc Surg*. 2015;62(4):1104-5. PMID: 26410054.

Morgan CE, Herm-Barabasz R, Rodriguez HE, Hoel AW, Eskandari MK. Incidence of acute lower extremity venous thrombosis after percutaneous endovascular aneurysm repair. *J Vasc Surg* 2015;62:351-354. PMID 25937605.

Hamade YJ, Medicherla CB, Zammar SG, Aoun RJ, Nanney AD 3rd, Hoel AW, Patel UA, Bendok BR. Microsurgical Management of Eagle Syndrome With Ipsilateral Carotid-Ophthalmic Aneurysm: 3-Dimensional Operative Video. *Neurosurgery*. 2015 Aug 27.

Arous EJ, Simons JP, Flagive JM, Beck AW, Stone DH, Hoel AW, Messina LM, Schanzer A. National variation in pre-operative imaging, carotid duplex ultrasound criteria, and threshold for surgery for asymptomatic carotid artery stenosis. *J Vasc Surg*. 2015 Jun 8 (epub ahead of print) PMID: 26067201.

Wandling MW, Hoel AW, Meyerson SL, Rodriguez HE, Shapiro MB, Swaroop M, Bharat A. Complex intrathoracic tracheal injury. *Am J Resp Crit Care Med*. 2015 Jul 15. (epub ahead of print) PMID: 26177182.

Hoel AW, Schanzer A. Follow-up Surveillance After Endovascular Aneurysm Repair: Less Is More? *JAMA Surg*. 2015;150(10):964. PMID: 26154502.

Hoel AW, Zamor KC. Transitions of care and long-term surveillance after vascular surgery. *Semin Vasc Surg*. 2015;28(2):134-40. PMID: 26655057.

Newhall K, Burnette M, Brooke BS, Schanzer A, Tan T, Flocke S, et al. Smoking cessation counseling in vascular surgical practice using the results of interviews and focus groups in the Vascular Surgeon offer and report smoking cessation pilot trial. *J Vasc Surg*. 2015. PMID: 26747682.

Simons JP, Goodney PP, Flahive J, Hoel AW, Hallett JW, Kraiss LW, et al. A comparative

evaluation of risk-adjustment models for benchmarking amputation-free survival after lower extremity bypass. *J Vasc Surg*. 2015. PMID: 26603547.

De Martino RR, Beck AW, Hoel AW, Hallett JW, Arya S, Upchurch GR, Jr., et al. Preoperative antiplatelet and statin treatment was not associated with reduced myocardial infarction after high-risk vascular operations in the Vascular Quality Initiative. *J Vasc Surg*. 2016;63(1):182-9. PMID: 26409843. Yoon DY, Hoel AW. Progressive Lower Extremity Pain. *JAMA Surg*. 2016;151(1):81-2. PMID: 26558427.

Seok Jong Hong, PhD

Publications

Park E, Long SA, Seth AK, Geringer M, Xu W, Chavez-Munoz C, Leung KP, Hong SJ, Galiano R, Mustoe T. The use of desiccation to treat staphylococcus aureus biofilm infected wounds. *Wound Repair Regen*. 2015 Oct 31. doi: 10.1111/wrr.12379

Xu W*, Hong SJ*, Zhong A, Xie P, Jia S, Xie Z, Zeitchek M, Niknam-Bienia S, Zhao J, Porterfield DM, Surmeier DJ, Leung KP, Galiano R, Mustoe T. (2015) Sodium Channel Nax is a Regulator in Epithelial Sodium Homeostasis. *Sci Transl Med* Nov 4;7(312):312ra177. * Authors are equally contributed

Zhong A, Xu W, Zhao J, Xie P, Jia S, Sun J, Galiano R, Mustoe T, Hong SJ. (2016) S100A8 and S100A9 are induced by decreased hydration in the epidermis and promote fibroblast activation and fibrosis in the dermis. *Am J Path*. 186:109-22

Xie P, Jia S, Xu W, Zhong A, Tye R, Hong SJ, Galiano R, Mustoe T. Topical (2016) Administration of Oxygenated Hemoglobin Improved Wound Healing in an Ischemic Rabbit Ear Model. *Plast Reconstr Surg*. 137(2):534-43

Seema Khan, MD

Presentations

Invited Speaker. Cancer Prevention and Control Seminar, University of Arizona Cancer Center. "New approaches to breast cancer prevention". Tucson, AZ. September 16, 2015.

Invited Speaker. University of Arizona, "Local therapy for the primary tumor in stage IV breast cancer." September 16, 2015.

Invited Speaker. Lynn Sage Breast Cancer Symposium. "Breast MRI: Where are we now?" Chicago, IL. October 2015.

Invited Speaker. Kenner Family Research Fund and American Pancreatic Association Forum. Early Detection: Lessons Learned from Other Cancers. "Detecting pancreatic cancer early: Lessons from the breast". San Diego, CA. November 2015.

Faculty Presentations & Publications

Invited Speaker. San Antonio Breast Cancer Symposium. Moderator: "Controversies in the Management of DCIS." San Antonio, TX. December 2015.

Invited Speaker. Cleveland Clinic Breast Cancer Summit. "The 'DIN' around DCIS." Cleveland, OH. March 2016.

Invited Speaker. Japan Clinical Oncology Group Meeting. "Local therapy for the intact primary tumor in the presence of metastases: the current data." Tokyo, Japan. January 2016.

Publications

Clare SE, Gupta A, Choi MR, Ranjan M, Lee O, Wang J, Ivancic DZ, Kim JJ, Khan SA. Progesterone receptor blockade in human breast cancer cells decreases cell cycle progression through G2/M by repressing G2/M genes. *BMC Cancer*. 2016 May; Epub ahead of print.

Shidfar A, Fatokun T, Ivancic D, Chatterton RT, Khan SA, Wang J. Protein Biomarkers for Breast Cancer Risk Are Specifically Correlated with Local Steroid Hormones in Nipple Aspirate Fluid. *Horm Cancer*. 2016 Apr; Epub ahead of print. PMID: 27094399.

Lee O, Choi MR, Christov K, Ivancic D, Khan SA. Progesterone receptor antagonism inhibits progesterone-related carcinogenesis and suppresses tumor cell proliferation. *Cancer Lett*. 2016 Apr; S0304-3835(16)30241-5. PMID: 27080304.

Chatterton RT, Heinz RE, Fought AJ, Ivancic D, Shappell C, Allu S, Gapstur S, Scholtens DM, Gann PH, Khan SA. Nipple aspirate fluid hormone concentrations and breast cancer risk. *Horm Cancer*. 2016. Apr; 7(2):127-36. PMID: 26902826.

Shidfar A, Wang J, Wiesenfeld E, Zhang W, Scholtens D, Fought A, Chatterton RT, Khan SA. Genetic determinants of nipple aspiration fluid yield. *Ann Surg Oncol*. 2016. Mar; Epub ahead of print. PMID: 27027309.

Lee O, Khan SA. Novel routes for administering chemoprevention: Local transdermal therapy to the breasts. *Semin Onc*. 2016 Feb; 41(1):107-15. PMID: 26970129.

Khan SA. Surgical Management of de novo Stage IV Breast Cancer. *Semin Radiat Oncol*. 2016 Jan; 26(1):79-86. PMID: 26617213.

Monahan DA, Wang J, Lee O, Revesz E, Taft N, Ivancic D, Hansen NM, Bethke KP, Zalles C, Khan SA. Cytologic atypia in the contralateral unaffected breast is related to parity and estrogen-related genes. *Surg Oncol*. 2015. Dec; S0960-7404(15)30038-4. PMID: 26856771.

Dunderdale J and Khan SA. Lobular neo-

plasia: another reset in management? *Ann Surg Oncol*. 2015. Dec; Epub ahead of print. PMID: 26676981.

Khan SA. ASCO Update on Breast Cancer, 2015. *Surg Oncol*. 2015. Dec; 24(4):361-362. PMID 26549144.

Thomas A, Khan SA, Chrischilles EA, Schroeder MC. Initial surgery and survival in Stage IV breast cancer in the United States, 1988-2011. *JAMA Surg*. 2015 Dec; 2:1-8. PMID: 26629881.

Karavites LC, Allu S, Khan SA, Kaiser K. Awareness of preventive medication among women at high risk for breast cancer and their willingness to consider transdermal or oral tamoxifen: A focus group study. *BMC Cancer*. 2015 Nov; 9(15):878. PMID: 26552376.

Asztalos S, Pham TN, Gann PH, Hayes MK, Deaton R, Wiley EL, Emmadi R, Kajdacsy-Balla A, Banerji N, McDonald W, Khan SA, Tonetti DA. High incidence of triple negative breast cancers following pregnancy and an associated gene expression signature. *Springerplus*. 2015 Nov; 19(4):710. PMID: 26618099.

Lee O, Ivancic D, Allu S, Shidfar A, Kenney K, Helenowski I, Sullivan ME, Muzzio M, Scholtens D, Chatterton Jr. RT, Bethke KP, Hansen NM, Khan SA. Local transdermal therapy to the breast for breast cancer prevention and DCIS therapy: preclinical and clinical evaluation. *Cancer Chemother Pharmacol*. 2015. Nov; Epub ahead of print. PMID: 26560487.

Felicitas Koller, MD

Publications

Salem R, Vouche M, Baker T, Herrero JI, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlastos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization-Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*. 2015 Nov;99(11):2347-55. doi: 10.1097/TP.0000000000000729. PubMed PMID: 25905983.

McElroy LM, Collins KM, Koller FL, Khorzad R, Abecassis MM, Holl JL, Ladner DP. Operating room to intensive care unit handoffs and the risks of patient harm. *Surgery*. 2015 Sep;158(3):588-94. doi: 10.1016/j.surg.2015.03.061. Epub 2015 Jun 9. PubMed PMID: 26067459; PubMed Central PMCID: PMC4536086.

Swati Kulkarni, MD

Presentations

Breast Forum Session. Discussant, American College of Surgeon's Clinical Congress, Chi-

cago, Illinois, October 2015.

Axillary Management and Adjuvant Therapy in Young Woman with Extra-Capsular Extension (ECE), Panel Speaker for Challenging Clinical Cases. Lynn Sage Breast Cancer Symposium, Chicago, Illinois, October 2015.

Controversies in Advanced Breast Cancer, Session Chair. Lynn Sage Breast Cancer Symposium. Chicago, Illinois, October 2015.

The Potential Role of TSECs in Breast Cancer Prevention and Treatment: A Window of Opportunity Study comparing Conjugated Estrogens/ Bazedoxifene to Placebo in Postmenopausal Women with DCIS. Invited Speaker. Estrogens, SERMs, and TSECs Scientific Advisory Board Meeting. Clearwater, FL, April 2016.

Surgery Clerkship Breast Lecture. Invited lecturer. Feinberg School of Medicine, Northwestern University. Chicago, IL, August 2016.

Daniela Ladner, MD

Publications

Namm J, Mueller J, Kulkarni, S. The utility of sentinel lymph node biopsy in patients with ductal carcinoma in situ suspicious for micrometastasis on core biopsy. *Ann Surg Oncol*. 2015 Jan; 22(1):59-65.

An, G, Kulkarni, S. An agent-based modeling framework linking inflammation and cancer using evolutionary principle: description of a generative hierarchy for the hallmarks of cancer and developing a bridge between mechanism and epidemiological data. *Mathematical Biosciences*. 2015 Feb; 260:16-24. Daniela Ladner

Presentations

Opioid Sparing Pain Protocol Reduces Adverse Events for Living Donor Liver Transplant Donors. DM Woods EP, MA Simpson, J Guarnera, R Fisher, T Curtis, A Daud, E Reyes, E Wymore, R Kang, DP Ladner American Public Health Association; 2015; Chicago, IL

Effective and safe post-operative pain management in living liver donor D Ladner, E Pomfret, M A Simpson, J Guarnera, R Fisher, T Curtis, A Daud, E Reyes, E Wymore, D Woods AASLD, San Francisco, November 2015

Provider Attitudes toward Shared Mobile Decision Aid Utilized among Patients evaluated for Kidney transplantation: iChoose Kidney Randomized Trial Basu, Pastan, Mohan, Wolf, Friedewald, Ladner, Smith, McPherson, Russell, Chiles, Patzer ATC, 2015, Philadelphia

Trans-disciplinary Transplant Outcomes Research Across Northwestern and Beyond – NUTORC

Faculty Presentations & Publications

IPHAM Seminar Series, Northwestern University, September 2015

Improving outcomes in patients with liver disease
Hepatology Conference, Northwestern University, October 2015

ASTS Winter Symposium, Miami, Florida.
Fast and Furious: Donor Safety in Living Donation. January, 2016

American Transplant Congress, Boston, Massachusetts. Reenacting the Civil War Geographic Disparities in Transplantation, The Argument in Favor of Redistricting and Potential Solutions/Models. June 14, 2016

Publications

Mandell MS, Smith AR, Dew MA, Gordon DB, Holtzman S, Howell T, DiMartini AF, Butt Z, Simpson SA, Ladner DP, Freise CE, McCluskey SA, Fisher RA, Guarrera JV, Olthoff KM, Pomfret EA. Early Postoperative Pain and its Predictors in the Adult to Adult Living Donor Liver Transplantation Cohort Study (A2ALL). *Transplantation*. 2016 Aug 11. [Epub ahead of print] PubMed PMID: 27517726.

Patzer RE, Serper M, Reese PP, Przytula K, Koval R, Ladner DP, Levitsky JM, Abecassis MM, Wolf MS. Medication Understanding, Non-Adherence, and Clinical Outcomes among Adult Kidney Transplant Recipients. *Clin Transplant*. 2016 Jul 22. doi: 10.1111/ctr.12821. [Epub ahead of print] PubMed PMID: 27447351.

Ladner DP, Mehrotra S. Resolving Misconceptions About Liver Allocation and Redistricting Methodology-Reply. *JAMA Surg*. 2016 Jun 22. doi:10.1001/jamasurg.2016.1318. [Epub ahead of print] PubMed PMID: 27331370.

Dew MA, DiMartini AF, Ladner DP, Simpson MA, Pomfret EA, Gillespie BW, Merion RM, Zee J, Smith AR, Holtzman S, Sherker AH, Weinrieb R, Fisher RA, Emond JC, Freise CE, Burton JR Jr, Butt Z. Psychosocial Outcomes 3 to 10 Years After Donation in the Adult to Adult Living Donor Liver Transplantation Cohort Study. *Transplantation*. 2016 Jun;100(6):1257-69. doi: 10.1097/TP.0000000000001144. PubMed PMID: 27152918; PubMed Central PMCID: PMC4874865.

McElroy LM, Khorzad R, Nannicelli AP, Brown AR, Ladner DP, Holl JL. Failure mode and effects analysis: a comparison of two common risk prioritization methods. *BMJ Qual Saf*. 2016 May;25(5):329-36. doi: 10.1136/bmjqs-2015-004130. Epub 2015 Jul 13. PubMed PMID: 26170336.

McElroy LM, Woods DM, Yanes AF, Skaro AI, Daud A, Curtis T, Wymore E, Holl JL, Abecassis

MM, Ladner DP. Applying the WHO conceptual framework for the International Classification for Patient Safety to a surgical population. *Int J Qual Health Care*. 2016 Apr;28(2):166-74. doi: 10.1093/intqhc/mzw001. Epub 2016 Jan 23. PubMed PMID: 26803539; PubMed Central PMCID: PMC4833202.

McElroy LM, Schmidt KA, Richards CT, McHugh MC, Holl JL, Adams JG, Ladner DP. Reducing Hospital Readmissions via Optimization of Emergency Department Care. *Transplantation*. 2016 Apr;100(4):886-8. doi: 10.1097/TP.0000000000000988. PubMed PMID: 26528769.

Neapolitan R, Jiang X, Ladner DP, Kaplan B. A Primer on Bayesian Decision Analysis With an Application to a Kidney Transplant Decision. *Transplantation*. 2016 Mar;100(3):489-96. doi: 10.1097/TP.0000000000001145. Review. PubMed PMID: 26900809; PubMed Central PMCID: PMC4818954.

Ladner DP, Mehrotra S. Methodological Challenges in Solving Geographic Disparity in Liver Allocation. *JAMA Surg*. 2016 Feb;151(2):109-10. doi: 10.1001/jamasurg.2015.3937. PubMed PMID: 26536494.

Yanes AF, McElroy LM, Abecassis ZA, Holl J, Woods D, Ladner DP. Observation for assessment of clinician performance: a narrative review. *BMJ Qual Saf*. 2016 Jan;25(1):46-55. doi: 10.1136/bmjqs-2015-004171. Epub 2015 Sep 30. Review. PubMed PMID: 26424762.

Liotta EM, Lizza BD, Romanova AL, Guth JC, Berman MD, Carroll TJ, Francis B, Ganger D, Ladner DP, Maas MB, Naidech AM. 23.4% Saline Decreases Brain Tissue Volume in Severe Hepatic Encephalopathy as Assessed by a Quantitative CT Marker. *Crit Care Med*. 2016 Jan;44(1):171-9. doi: 10.1097/CCM.0000000000001276. PubMed PMID: 26308431.

Rowe TA, Huded J, McElroy L, Ladner DP, Lindquist LA. The Evolution of Living Kidney Donation and Transplantation in Older Adults. *J Am Geriatr Soc*. 2015 Dec;63(12):2616-2620. doi: 10.1111/jgs.13832. Epub 2015 Dec 11. PubMed PMID: 26663317.

Atiemo K, Ladner DP. Active Education, Keeping It Personal and Making It Easy: A Potential Path to Increasing Donors. *Transplantation*. 2015 Dec;99(12):2448. doi: 10.1097/TP.0000000000000898. PubMed PMID: 26356177; PubMed Central PMCID: PMC4829943.

Gordon EJ, Lee J, Kang R, Ladner DP, Skaro AI, Holl JL, French DD, Abecassis MM, Caicedo JC. Hispanic/Latino Disparities in Living Donor Kidney Transplantation: Role of a Culturally Competent Transplant Program.

Transplant Direct. 2015 Sep 22;1(8):e29. doi: 10.1097/TXD.0000000000000540. eCollection 2015 Sep. PubMed PMID: 27500229; PubMed Central PMCID: PMC4946478.

Mehrotra S, Kilambi V, Gilroy R, Ladner DP, Klintmalm GB, Kaplan B. The Authors' Reply. *Transplantation*. 2015 Sep;99(9):e160-1. doi:10.1097/TP.0000000000000833. PubMed PMID: 26308422.

Joseph Leventhal, MD, PhD

Presentations

CIHR Training Program/Regenerative Medicine, Toronto, Canada, Immune Tolerance: Moving to the Clinic, 2015.

Driscoll Children's Hospital, Grand Rounds, Corpus Christi, TX - Pursuing Chimerism to Achieve Transplantation Tolerance, So Close, Yet So Far? 2015.

Cigna Lifesource Transplant Network, Pittsburgh, PA, Immune Tolerance, 2015.

American Transplant Congress, Boston, Massachusetts. Concurrent Session: Clinical Science: Tolerance: Clinical Studies. Seven Year Follow-Up of a Phase 2 Clinical Trial to Induce Tolerance in Living Donor Renal Transplant Recipients. June 13, 2016.

American Transplant Congress, Boston, Massachusetts. Concurrent Session: Kidney Immunosuppression: Novel Agents. June 14, 2016.

American Transplant Congress, Boston, Massachusetts. Cellular Therapy Versus Enhancing Endogenous Immunoregulation - To Transfer or to Induce?. June 14, 2016

American Transplant Congress, Boston, Massachusetts. Joint Plenary IV. HLA Identical Renal Transplant Tolerance Using Donor Hematopoietic Stems Cells (DHSC): Role of Immunoregulation. June 15, 2016

Publications

Leventhal JR, Mathew JM, Salomon DR, Kurian SM, Friedewald JJ, Gallon L, Konieczna I, Tambur AR, Charette J, Levitsky J, Jie C, Kanwar YS, Abecassis MM, Miller J. Nonchimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/Genomic Biomarkers. *Am J Transplant*. 2016 Jan;16(1):221-34. doi: 10.1111/ajt.13416. Epub 2015 Jul 30. PubMed PMID: 26227106; PubMed Central PMCID: PMC4718825.

Levitsky J, Miller J, Huang X, Gallon L, Leventhal JR, Mathew JM. Immunoregulatory Effects of Everolimus on In Vitro Alloimmune Responses. *PLoS One*. 2016 Jun 8;11(6):e0156535. doi: 10.1371/journal.pone.0156535. eCollection 2016. Pub-

Faculty Presentations & Publications

Med PMID: 27275747; PubMed Central
PMCID: PMC4898829.

Tambur AR, Haarberg KM, Friedewald JJ, Leventhal JR, Cusick MF, Jaramillo A, Abecassis MM, Kaplan B. Unintended Consequences of the New National Kidney Allocation Policy in the United States. *Am J Transplant*. 2015 Sep;15(9):2465-9. doi: 10.1111/ajt.13381. Epub 2015 Jul 2. PubMed PMID: 26137963.

Tambur AR, Herrera ND, Haarberg KM, Cusick MF, Gordon RA, Leventhal JR, Friedewald JJ, Glotz D. Assessing Antibody Strength: Comparison of MFI, C1q, and Titer Information. *Am J Transplant*. 2015 Sep;15(9):2421-30. doi: 10.1111/ajt.13295. Epub 2015 Apr 30. PubMed PMID: 25930984.

Gallon L, Traitanon O, Yu Y, Shi B, Leventhal JR, Miller J, Mas V, L X, Mathew JM. Differential Effects of Calcineurin and Mammalian Target of Rapamycin Inhibitors on Alloreactive Th1, Th17, and Regulatory T Cells. *Transplantation*. 2015 Sep;99(9):1774-84. doi: 10.1097/TP.0000000000000717. PubMed PMID: 25905982.

S. Chris Malaisrie, MD

Presentations

Presenter. Organizational Sustainability Between Generations. The 2015 Samakee Summit. Thai Americans For The Future. Chicago, IL. Aug 2015

Presenter. Aortic Surgery – What are the Options? / Loews Dietz 101 & Surgery. The Marfan Foundation: 31st Annual Family Conference. Chicago, IL. Aug 2015

Speaker. Surgical Perspectives on Structural Heart Disease – Transcatheter Aortic Valve Replacement. 2nd Annual Cardiovascular Symposium 2015: Care at the Crossroads. Methodist Cardiovascular Symposium. Merrillville, IN. Oct 2015

Speaker. Mended Hearts Lecture. “Heart Valve Replacement without the Surgery”. Northwestern Medicine. Chicago, Illinois. Dec 2015

Speaker. 11th Annual Heart Failure Holiday Symposium. “Transcatheter Mitral Valve Replacement: The Next Frontier?” Northwestern Medicine. Chicago, Illinois. Dec 2015
Speaker. Type B Aortic Dissection. Prairie Cardiovascular Consultants, LTD. Cardiovascular Conference Grand Rounds. Springfield, IL. Jan 2016

Speaker. Surgical Approach to Heart Failure. Heart Failure Symposium 2016. Northwest Indiana Heart and Vascular at Methodist Hos-

pitals. Merrillville, IN. May 2016

Speaker. Hybrid Approach to Valve Replacement. Cardiology Grand Rounds. Einstein Medical Center. Philadelphia, PA. Mar 2016

Keynote Lecturer. Long-term Result of TEVAR for Chronic Type B Aortic Dissection. 68th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery. Kobe, Japan. Oct 2015

Speaker. Ascending to Descending Aorta - Leveraging TEVAR for Thoracic Aortic Disease. 68th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery. Kobe, Japan. Oct 2015

Publications

Daniel H. Enter, Anthony Zaki, Brett F. Duncan, Jane Kruse, Adin-Cristian Andrei, Zhi Li, S. Chris Malaisrie, Sanjiv J. Shah, James D. Thomas, Patrick M. McCarthy, A contemporary analysis of pulmonary hypertension in patients undergoing mitral valve surgery: Is this a risk factor?, *The Journal of Thoracic and Cardiovascular Surgery*, Volume 151, Issue 5, May 2016.

Scott A. Resnick, Dan O'Brien, David Strain, Chris Malaisrie, Daniel Schimmel, Riad Salem, Robert Vogelzang, Single-Center Experience Using AngioVac with Extracorporeal Bypass for Mechanical Thrombectomy of Atrial and Central Vein Thrombi, *Journal of Vascular and Interventional Radiology*, Volume 27, Issue 5, May 2016.

Eric J. Keller; S. Chris Malaisrie; Jane Kruse; Patrick M. McCarthy; James C. Carr; Michael Markl; Alex J. Barker; Jeremy D. Collins. Reduction of aberrant aortic haemodynamics following aortic root replacement with a mechanical valved conduit. *Interactive Cardiovascular and Thoracic Surgery*. May 30, 2016

Kodali S, Thourani VH, White J, Malaisrie SC, Lim S, Greason KL, Williams M, Guerrero M, Eisenhauer AC, Kapadia S et al: Early clinical and echocardiographic outcomes after SAPIEN 3 transcatheter aortic valve replacement in inoperable, high-risk and intermediate-risk patients with aortic stenosis. *European Heart Journal* March 2016

Taylor A P, Yadlapati A, Andrei AC, Li Z., Clennon C., McCarthy PM, Thomas JD, Malaisrie SC, Stone NJ, Bonow RO, Fedak P, W.M., Puthumana JJ. Statin Use and Aneurysm Risk in Patients With Bicuspid Aortic Valve Disease. *Clin Cardiol*, 39: 41–47. March 2016.

Schnell S, Entezari P, Mahadewia RJ, Malaisrie SC, McCarthy PM, Collins JD, Carr J, Markl M. Improved Semiautomated 4D Flow MRI Analysis in the Aorta in Patients With Congenital Aortic Valve Anomalies Versus

Tricuspid Aortic Valves. *Journal of Computer Assisted Tomography*. 40(1):102-108, January/February 2016.

Allen BD, Markl M, Barker AJ, van Ooij P, Carr JC, Malaisrie SC, McCarthy P, Bonow RO, Kansal P. Influence of beta-blocker therapy on aortic blood flow in patients with bicuspid aortic valve. *Int J Cardiovasc Imaging*. 2016 Jan 27.

Shah SV, Kruse J, Andrei AC, Li Z, Malaisrie SC, Knight BP, Passman RS, McCarthy PM. Gender difference in outcomes after surgical ablation of atrial fibrillation. *J Thorac Cardiovasc Surg* 2016;151(2):391-8.

Desai SS, Konanur M, Foltz G, Malaisrie SC, Resnick S. An Endovascular Approach to the Entrapped Central Venous Catheter After Cardiac Surgery. *CardioVascular and Interventional Radiology* 2016, 39(3):453-457.

van Ooij, P., Garcia, J., Potters, W. V., Malaisrie, S. C., Collins, J. D., Carr, J. C., Markl, M. and Barker, A. J. (2016), Age-related changes in aortic 3D blood flow velocities and wall shear stress: Implications for the identification of altered hemodynamics in patients with aortic valve disease. *J. Magn. Reson. Imaging*, 43: 1239–1249.

Jeremy D. Collins, Edouard Semaan, Alex Barker, Patrick M. McCarthy, James C. Carr, Michael Markl, S. Chris Malaisrie, Comparison of Hemodynamics After Aortic Root Replacement Using Valve-Sparing or Bioprosthetic Valved Conduit, *The Annals of Thoracic Surgery*, Volume 100, Issue 5, November 2015, Pages 1556-1562.

Yadlapati A, Groh C, Malaisrie SC, Gajjar M, Kruse J, Meyers S, Passman R. Efficacy and safety of novel oral anticoagulants in patients with bioprosthetic valves. *Clin Res Cardiol*. 2015 Sep 18.

Garcia J, Barker AJ, Murphy I, Jarvis K, Schnell S, Collins JD, Carr JC, Malaisrie SC, Markl M. Four-dimensional flow magnetic resonance imaging-based characterization of aortic morphometry and haemodynamics: impact of age, aortic diameter, and valve morphology. *Eur Heart J Cardiovasc Imaging*. 2015 Sep 15.

David G. Guzzardi, Alex J. Barker, Pim van Ooij, S. Chris Malaisrie, Jyothy J. Puthumana, Darrell D. Belke, Holly E.M. Mewhort, Daniyil A. Svystonyuk, Sean Kang, Subodh Verma, Jeremy Collins, James Carr, Robert O. Bonow, Michael Markl, James D. Thomas, Patrick M. McCarthy, Paul W.M. Fedak, Valve-Related Hemodynamics Mediate Human Bicuspid Aortopathy: Insights From Wall Shear Stress Mapping, *Journal of the American College of Cardiology*, Volume 66, Issue 8, 25 August 2015, Pages 892-900

Faculty Presentations & Publications

James M. Mathew, PhD.

Presentations

Invited Speaker, American Transplant Congress - Early Morning Symposium; Functional Biomarkers of Clinical Transplant Tolerance; Boston; June 11, 2016.

Shetty A, Traitanon O, Ansari M, Mathew JM, Leventhal J, Mas V, Gallon L. Prospective Randomized Study of a Steroid Free, Low Dose Tacrolimus with Everolimus Regimen in Kidney Transplant. *Am J Transplant.* 2016; 16 (suppl 3).

Shetty A, Opas T, Mathew JM, Mas V, Leventhal J, Sustento-Reodica N, Gallon L. Impact of Low Dose Tacrolimus with Everolimus Regimen on Renal Pathology and T-Regulatory Cells in Kidney Transplant. *Am J Transplant.* 2016; 16 (suppl 3).

Leventhal J, Mathew JM, Salomon D, Kurian S, Friedewald J, Gallon L, Huang X, Tambur A, Kanwar Y, Charette J, Abecassis M, Miller J. HLA Identical Renal Transplant Tolerance Using Donor Hematopoietic Stems Cells (DHSC): Role of Immunoregulation. *Am J Transplant.* 2016; 16 (suppl 3).

Skaro A, LeFever A, Mathew J, Gallon L, Hie J, Hansen C, Stare D, Johnson G, Leventhal J. Results of a Phase 1 Trial of Treg Adoptive Cell Transfer (TRACT) in De Novo Living Donor Kidney Transplant Recipients. *Am J Transplant.* 2016; 16 (suppl 3).

Leventhal J, Galvin J, Stare D, Gallon L, Miller J, Mathew JM, Abecassis M, Ildstad S. Seven Year Follow-Up of a Phase 2 Clinical Trial to Induce Tolerance in Living Donor Renal Transplant Recipients. *Am J Transplant.* 2016; 16 (suppl 3).

Mathew JM, McEwen S, Konieczna I, Huang X, He J, Kornbluth R, Miller J, Gallon L, Leventhal J. Ex Vivo Expansion and Functional Characterization of Human Alloantigen-Specific Regulatory T Cells. *Am J Transplant.* 2016; 16 (suppl 3).

Publications

Leventhal JR*, Mathew JM*, Salomon DR, Kurian SM, Friedewald J, Gallon L, Konieczna I, Tambur AR, , charette j, Levitsky J, Jie C, Kanwar YS, Abecassis MM and Miller J. Non-Chimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic / Genomic Biomarkers. *American Journal of Transplantation*; 2016; 16: 221–234.

Levitsky J, Miller J, Huang X, Gallon L, Leventhal JR and Mathew JM. Immunoregulatory Effects of Everolimus on in vitro Alloimmune Responses. *PLoS ONE.* 2016; 11(6): e0156535. doi:10.1371/journal.pone.0156535.

Veerappan A, VanWagner LB, Mathew JM, Huang X, Miller J, Lapin B and Levitsky J. Hepatitis B Virus as a determinant for lower acute rejection following liver transplantation independent of hepatitis B immunoglobulin use. *Human Immunology*, 2016, 77: 367-374.

Patrick McCarthy, MD

Presentations

MV Disease from the Surgeon's Perspective. Session IX: Valvular heart Disease. Echo Northwestern 37th Annual Program. Chicago, IL, September 2015.

What Do I Do with this Patient with Complex Valve Disease? Panel Discussant. Echo Northwestern 37th Annual Program. Chicago, IL, September 2015.

The Only Way to Predict the Future is to Create It. Medical Innovations Club Advisor. Northwestern University. Chicago, IL, October 2015.

Aortic stenosis-anatomy, physiology, evaluation, when to operate. CT Surgery Residents/ Mid-Level Providers. Northwestern University. Chicago, IL, November 2015.

Co-Course Director. The 5th Annual Chicago Cardiovascular Update Meeting. Northwestern Medicine and Northwestern University Feinberg School of Medicine. Chicago, IL, July 2016.

Moderator. Session III Valvular Heart Disease. The 5th Annual Chicago Cardiovascular Update Meeting. Northwestern Medicine and Northwestern University Feinberg School of Medicine. Chicago, IL, July 2016.

Concomitant AF Ablation In Mitral Surgery: More Questions. Session V: The Cardiac Network Trials: Answers and More Questions. 2015 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2015.

Will the Sternotomy Make a Comeback? Session IX: Predicting the Future. 2015 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2015.

Moderator. Session III. Mitral Regurgitation: Evolution of Surgical Therapy. 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

How Good Can Surgical Outcomes Be in Secondary MR? The Expert Surgeon's Perspective. 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

Poll Moderator. Pre-debate Vote: Should Most Patients Undergoing Surgery for Secondary MR Have Mitral Repair or Replacement? 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

Poll Moderator. Post-debate Vote (Who Won?): Should Most Patients Undergoing Surgery for Secondary MR Have Mitral Valve Repair or Replacement? 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

Discussant. Transcatheter Mitral Valve Replacement: Overarching Concepts and Emerging Insights. 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

Is Hemodynamic Collapse Due to Increased Afterload After MV Replacement in Severe MR With Reduced LVEF a Real Phenomenon? 27th Annual Scientific Symposium of Transcatheter Cardiovascular Therapeutics, TCT 2015. San Francisco, CA, October 2015.

What's Happening to Heart Valve Treatment? In the Middle of the Paradigm Shift. Grand Rounds. University of South Florida/Tampa General Hospital. Tampa, FL, December 2015.

Mitral Valve Surgery and Intervention: Today and Tomorrow. Mount Sinai Medical Center. Miami, FL, January 2016.

Surgery for Degenerative Mitral Valve Disease: What Should be done? What can Robots Do? ASE's 29th Annual State-of-the-Art Echocardiography Conference. Tucson, AZ, February 2016.

Case Based Review of Secondary Mitral Regurgitation: How Do I Define the Severity? When Should I Refer for an Intervention? ASE's 29th Annual State-of-the-Art Echocardiography Conference. Tucson, AZ, February 2016.

Surgical Considerations for Aortic Valve Disease: What is the Best Operation? ASE's 29th Annual State-of-the-Art Echocardiography Conference. Tucson, AZ, February 2016.

Mini SAVR - When Less Is More Too. Session #678: Valvular Heart Disease - Scientific Session: TAVR Update for the Clinician - And How Does the Heart Team Work? ACC.2016 - 65th Annual Scientific Session & Expo. Chicago, IL, April 2016.

Mitral Valve Repair - Varied Approaches, Annuloplasty Devices, and Techniques, but My Way Is Best. Session #707: Valvular Heart

Faculty Presentations & Publications

Disease - Scientific Session: Surgical Procedures for Valvular Heart Disease - So Many Choices. ACC.2016 - 65th Annual Scientific Session & Expo. Chicago, IL, April 2016.

How to Perform a MAZE Procedure in 2016. Adult Cardiac Skills: Demystifying Complex Cardiac Surgery-Minimizing the Fear Factor. American Association for Thoracic Surgery 96th Annual Meeting. Baltimore, MD, May 2016.

Co-Course Director. Midwest Valve Symposium. Edwards Lifesciences. Chicago, IL, June 2016.

Publications

Vassileva CM, Aranki S, Brennan JM, Kaneko T, He M, Gammie JS, Suri RM, Thourani VH, Hazelrigg S, McCarthy PM. Evaluation of The Society of Thoracic Surgeons online risk calculator for assessment of risk in patients presenting for aortic valve replacement after prior coronary artery bypass graft: An analysis using the STS adult cardiac surgery database. *Ann Thorac Surg* 2015;100(6):2109-16.

Taylor AP, Yadlapati A, Andrei AC, Li Z, Clennon C, McCarthy PM, Thomas JD, Malaisrie SC, Stone NJ, Bonow RO, Fedak PW, Puthumana JJ. Statin use and aneurysm risk in patients with bicuspid aortic valve disease. *Clin Cardiol* 2016;39(1):47-7.

Damiano RJ, Lawrance CP, Saint LL, Henn MC, Sinn LA, Kruse J, Gleva MJ, Maniar HS, McCarthy PM, Lee R. Detection of atrial fibrillation after surgical ablation: Conventional versus continuous monitoring. *Ann Thorac Surg* 2016;101(1):42-8.

Shah SV, Kruse J, Andrei AC, Li Z, Malaisrie SC, Knight BP, Passman RS, McCarthy PM. Gender difference in outcomes after surgical ablation of atrial fibrillation. *J Thorac Cardiovasc Surg* 2016;151(2):391-8.

Schnell S, Entezari P, Mahadewia R, Malaisrie SC, McCarthy PM, Collins JD, Carr JC, Markl M. Improved semiautomated 4D flow MRI analysis in the aorta in patients with congenital aortic valve anomalies versus tricuspid aortic valves. *J Comput Assist Tomogr* 2016;40;(1):102-8.

Allen BD, Markl M, Barker AJ, van Ooij P, Carr JC, Malaisrie SC, McCarthy PM, Bonow RO, Kansal P. Influence of beta-blocker therapy on aortic blood flow in patient with bicuspid aortic valve. *Int J Cardiovasc Imaging* 2016;32(4):621-8.

Robinson E, Kaushal S, Alaboson J, Sharma S, Belagodu A, Watkins C, Walker B, Webster G, McCarthy PM, Ho D. Combinatorial release of dexamethasone and amiodarone from a nano-structured parylene-C film to re-

duce perioperative inflammation and atrial fibrillation. *Nanoscale* 2016;8(7):4267-75.

Sorajja P, Mack M, Vemulapalli S, Holmes DR, Stebbins A, Kar S, Lim DS, Thourani V, McCarthy PM, Kapadia S, Grayburn P, Pedersen WA, Ailawadi G. Initial experience with commercial transcatheter mitral valve repair in the United States. *J Am Coll Card* 2016;67(10):1129-40.

Enter DH, Zaki A, Duncan BF, Kruse J, Andrei AC, Li Z, Malaisrie SC, Shah SJ, Thomas JD, McCarthy PM. A contemporary analysis of pulmonary hypertension in patients undergoing mitral valve surgery: Is this a risk factor? *J Thorac Cardiovasc Surg* 2016;151(5):1288-99.

Leon MB, Smith Cr, Mack MJ, Makkar RR, Svensson LG, Kodali SK, Thourani VH, Tuzcu EM, Miller DC, Herrmann HC, Doshi D, Cohen DJ, Pichard AD, Kapadia S, Dewey T, Babaliaros V, Szeto WY, Williams MR, Kereiakes D, Zajarias A, Greason KL, Whisenant BK, Hodson RW, Moses JW, Trento A, Brown DL, Fearon WF, Pibarot P, Hahn RT, Jaber WA, Anderson WN, Alu MC, Webb JG; PARTNER II Investigators (McCarthy PM). *N Engl J Med* 2016;374(17):1609-20.

Keller EJ, Malaisrie SC, Kruse J, McCarthy PM, Carr JC, Markl M, Barker AJ, Collins JD. Reduction of aberrant aortic hemodynamics following aortic root replacement with a mechanical valved conduit. *Interact Cardiovasc Thorac Surg* 2016;23(3):416-23.

Lee R, Vassallo P, Kruse J, Malaisrie SC, Rigolin V, Andrei AC, McCarthy PM. A randomized, prospective pilot comparison of three atrial appendage elimination technique: Internal ligation, stapled excision and surgical excision. *J Thorac Cardiovasc Surg* 2016 Jun 23. pii: S0022-5223(16)30562-1. Doi:10.1016/j.jtcvs.2016.06.009, In Press.

Schnell S, Smith DA, Barker AJ, Entezari P, Honarmand AR, Carr ML, Malaisrie SC, McCarthy PM, Collins J, Carr JC, Markl M. Altered aortic shape in bicuspid aortic valve relatives influences blood flow patterns. *Eur Heart J Cardiovasc Imaging* 2016 Jul 26.pii:jew149, In Press.

Michael McGee, MD

Presentations

Hemorrhoids: The Surgeon's Toolbox" American Society of Gastrointestinal Endoscopists (ASGE) Hands-On Course Hemorrhoid Therapies, DDW, San Diego, CA, May 21, 2016.

"Hemorrhoids and Fissures" American Society of Colon and Rectal Surgeons Annual Meeting, Los Angeles, California, May 1, 2016.

Publications

Wasserman MA, McGee MF, Helenowski IB, Halverson AL, Boller AM, Stryker SJ. The Anthropometric Definition of the Rectum is Highly Variable. *International Journal of Colorectal Disease*, 2016 Feb;31(2):189-95. PMID 26607905.

McGee MF. Stomas (Patient page). *JAMA*, 2016, 315(18): 2032.

Steinhagen E, McGee MF. Perianal Hidradenitis Suppurativa. In: *Fundamentals of Anorectal Surgery* (3rd ed), 2016, Springer.

McGee, MF, Cataldo, P. Stomas. In: *The ASCRS Textbook of Colon and Rectal Surgery* (3rd ed), 2016, Springer.

Shari Meyerson, MD

Presentations

Meyerson SL, Odell DD, McSpadden L, Oberrieder C, Schuller M, Fryer J. Using entrustable professional activities to bridge the gap between rotation evaluations and milestones. Association of Program Directors in Surgery. Boston MA, April 15, 2016.

Bohnen, George BC, Williams RG, Schuller MC, DaRosa DA, Torbeck L, Mullen JT, Meyerson SL, Auyang ED, Chipman JG, Choi JN, Choti MA, Endean ED, Foley EF, Mandell SP, Meier AJ, Smink DS, Terhune KP, Wise PE, Soper NJ, Zwischenberger JB, Lillemoe KD, Dunnington GL, Fryer JP. The feasibility of real-time intraoperative performance assessment with SIMPL (System for Improving and Measuring Procedural Learning): Early experience from a multi-institutional trial. Association of Program Directors in Surgery. Boston MA, April 15, 2016.

Sternbach JS, Wang K, El Khoury R, Teitelbaum E, Meyerson SL. Measuring error identification and recovery skills in surgical residents. Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix AZ, January 26, 2016.

Sternbach JS, Bender EM, Zwischenberger JB, Meyerson SL. A system for real-time evaluation of thoracic resident operative autonomy and formative feedback. Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix AZ, January 26, 2016.

Meyerson SL, Lipnick S, Hollinger E. The utility of mock oral exams for program improvement. American College of Surgeons Clinical Congress, Chicago IL, October 5, 2015.

Meyerson SL. Psychometrics and survey research in surgical education. Association for Academic Surgery, Chicago IL, October 3, 2015.

Meyerson SL. Dr. Seuss guide to happiness in

Faculty Presentations & Publications

a surgical career. University of Kentucky. Visiting Professor, Grand Rounds. June 10, 2016.

Meyerson SL. Developing operative autonomy. Rush University, Thoracic Surgery Grand Rounds. June 1, 2016.

Meyerson SL. Developing operative autonomy. University of California Davis, Thoracic Surgery Education Conference. May 20, 2016.

Meyerson SL. Developing operative autonomy. University of Kentucky, Thoracic Surgery Education Conference. May 12, 2016.

Meyerson SL. Developing operative autonomy. MD Anderson Cancer Center, Thoracic Surgery Research Conference. April 5, 2016.

Meyerson SL. Developing operative autonomy. University of Iowa Cardiothoracic Conference. Iowa City IA, February 22, 2016.

Meyerson SL. Developing operative autonomy. Stanford University Cardiothoracic Conference. Palo Alto CA, February 8, 2016.

Meyerson SL. Apps for thoracic surgery education. Tech Con, Society of Thoracic Surgeons 52nd Annual Meeting, Phoenix AZ, January 24, 2016.

Meyerson SL. Developing operative autonomy. Thoracic Surgery Directors' Association, Phoenix AZ, January 23, 2016.

Publications

Sternbach JS, Wang K, El Khoury R, Teitelbaum E, Meyerson SL. Measuring error identification and recovery skills in surgical residents. *Annals of Thoracic Surgery*. In press. Michel E, Meyerson SL. Resident identification of significant learning experiences: A qualitative analysis. *Annals of Thoracic Surgery*. In press.

Galgiani JN, Ampel N, Blair J, Catanzaro A, Geertsma R, Hoover SE, Johnson R, Kusne S, Lisse J, MacDonald JD, Meyerson S, Raksin PB, Siever J, Stevens DA, Sunenshine R, Theodore N. Infectious Diseases Society of America (IDSA) clinical practice guideline for the treatment of coccidioidomycosis. *Clinical Infectious Diseases*. In press.

Mehta CM, Yeldandi A, DeCamp MM, Odell D, Meyerson SL, Bharat A. Primary spontaneous pneumothorax in healthy menstruating females has high recurrence. *Annals of Thoracic Surgery*. 2016 Jun 24 [Epub ahead of print].

Meyerson SL, Balderson SS, D'Amico TA. Training assistants improves the process of adoption of video assisted thoracic surgery lobectomy. *Annals of Thoracic Surgery*, 2015 Aug; 100(2):401-6.

Wandling M, Hoel A, Meyerson S, Rodriguez

H, Shapiro M, Swaroop M, Bharat A. Complex intrathoracic tracheal injury following blunt chest trauma. *American Journal of Respiratory and Critical Care Medicine*, 2015; 192(2):e20-e21.

Phillips J, Knab L, Blatner N, Haghi L, DeCamp M, Meyerson S, Heiferman M, Heiferman J, Gounari F, Bentrem D, Khazie K. Preferential expansion of proinflammatory Tregs in non-small cell lung cancer. *Cancer Immunology, Immunotherapy*, 2015 Sep; 64(9):1185-91.

Michael C. Mongé, MD

Presentations

Presenter, Midwest Pediatric Cardiology Society 39th Annual Meeting, Novel Modifications of a Ventricular Assist Device for Infants and Children, Children's Hospital of Illinois-Peoria, Peoria, IL, September 10-11, 2015.

Co-presenter, 12th Annual Research Scholar's Day, Ann & Robert H. Lurie Children's Hospital and Stanley Manne Children's Research Institute, Novel Approaches to Cryopreservation of Intact Atrial Tissue: Preserving Cellular Diversity. Chicago, IL, May 11, 2016.

Co-presenter, 12th Annual Research Scholar's Day, Ann & Robert H. Lurie Children's Hospital and Stanley Manne Children's Research Institute, Pediatric Heart Failure Epigenetically Activates Cardiac Stem Cells. Chicago, IL, May 11, 2016.

Presenter, 12th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion, Successful Bridge-to-Transplant of Functionally Univentricular Patients with a Modified Continuous-flow Ventricular Assist Device. New York, NY, May 18-21, 2016.

Publications

Mongé MC, Walterhouse DO, Kalapurakal JA, Rigby CK, Backer CL. Resection of intrapericardial rhabdomyosarcoma in a child. *World J Pediatr Congenit Heart Surg*. *World J Pediatr Congenit Heart Surg* 2016 Jan;7:108-111.

Mongé MC, Kulat BT, Eltayeb O, Balasubramanya S, Sarwark AE, Zingle NR, Moss ST, Moga MA, Pahl E, Costello JM, Backer CL. Novel modifications of a ventricular assist device for infants and children. *Ann Thorac Surg* 2016 Jul;102:147-153

David D. Odell, MD

Presentations

Plenary Session Speaker, American College of Surgeons-NSQIP Annual Meeting. The Impact of Hospital Safety Culture on Surgical Outcomes. San Diego, CA, July 2016

Invited Speaker; Western Thoracic Surgical Association Annual Meeting. Concordance with Commission on Cancer Quality Measures

in Lung Cancer Care: An Opportunity for Improvement. Kona, HI, June 2016

Invited Speaker; Society of Thoracic Surgeons Annual Meeting. Antireflux Surgery is Safe & Effective Following Lung Transplantation. Phoenix, AZ, January 2016

Invited Speaker; Northwestern University Annual Shields Research Day. Lung Cancer Guideline Concordance: An Opportunity for Improvement. Chicago, IL, May 2016.

Invited Speaker; Northwestern University Pulmonary Symposium. Surgical Diagnostics for ILD When to Refer. Chicago, IL, November 2015

Invited Speaker; Northwestern University Nursing Education Symposium. Anatomy, Physiology and Treatment of Benign Esophageal Disease: A Surgeon's Perspective. Chicago, IL, September 2015

Publications

Primary Spontaneous Pneumothorax in Menstruating Women Has High Recurrence. Mehta CK, Stanifer BP, Fore-Kosterski S, Gillespie C, Yeldandi A, Meyerson S, Odell DD, DeCamp MM, Bharat A. *Ann Thorac Surg*. 2016 Jun 24. pii: S0003-4975(16)30400-3. doi: 10.1016/j.athoracsur.2016.04.069. [Epub ahead of print]

Program Director Perceptions of Surgical Resident Training and Patient Care under Flexible Duty Hour Requirements. Saadat LV, Dahlke AR, Rajaram R, Kreutzer L, Love R, Odell DD, Bilimoria KY, Yang AD. *J Am Coll Surg*. 2016 Jun;222(6):1098-105. doi: 10.1016/j.jamcollsurg.2016.03.026. Epub 2016 Apr 4.

Atrial arrhythmias after lung transplantation: Incidence and risk factors in 652 lung transplant recipients. D'Angelo AM, Chan EG, Hayanga JW, Odell DD, Pilewski J, Crespo M, Morrell M, Shigemura N, Luketich J, Bermudez C, Althouse AD, D'Cunha J. *J Thorac Cardiovasc Surg*. 2016 Apr 29. pii: S0022-5223(16)30284-7. doi: 10.1016/j.jtcvs.2016.04.070. [Epub ahead of print]

The Intersection of GERD, Aspiration, and Lung Transplantation. Patti MG, Vela MF, Odell DD, Richter JE, Fisichella PM, Vaezi MF. *J Laparoendosc Adv Surg Tech A*. 2016 Jul;26(7):501-5. doi: 10.1089/lap.2016.0170. Epub 2016 May 24.

Chu D, Vaporciyan AA, Iannettoni MD, Ikonomidis JS, Odell DD, Shemin RJ, Starnes SL, Stein W, Badhwar V. Are There Gaps in Current Thoracic Surgery Residency Training Programs? *Ann Thorac Surg*. 2016 Apr 13. pii: S0003-4975(16)00050-3. doi:10.1016/j.athoracsur.2016.01.038 [Epub ahead of print]. PMID:27085196.

Faculty Presentations & Publications

Odell DD. The View from the Other Side of the Table: Beginning a Practice in Academic Thoracic Practice. *J Thorac Cardiovasc Surg*. 2016. Apr; 151(4):924-5. doi: 10.1016/j.jtcvs.2016.01.004. epub 2016 Jan 9. PMID: 26874602.

Shah AA, Aftab M, Tchantchaleishvili V, LaPar DJ, Stephens EH, Walters DM, DeNino WF, Odell DD, Cevasco M, Eilers AL, Gillaspie EA, Goldstone A, Malas T, Rice RD, Shelstad RC, Andersen ND. Characterizing the operative Experience of Cardiac Surgical Trainees: What Are Residents Really Doing in the Operating Room? *Ann Thorac Surg*. 2016 March 25. Pii:S0003-4975 (15)02111-6. Doi: 10.1016/j.athoracsur.2015.12.069. [Epub ahead of print] PMID:27021035.

Loor G, Doud A, Nguyen TC, Antonoff MB, Morancy JD, Robich MP, Odell DD, Yarboro LT, Vaporiciyan AA, Roselli E. Development and Evaluation of a Three-Dimensional Multi-station Cardiovascular Simulator. *Ann Thorac Surg*. 2016 Mar 25. Pii: S0003-4975(15)02112-8. Doi: 10.1016/j.athoracsur.2015.12.070 [Epub ahead of print] PMID:27021029.

Bilimoria KY, Chung JW, Hedges LV, Dahlke AR, Love R, Cohen ME, Hoyt DB, Yang AD, Tarpley JL, Mellinger JD, Mahvi DM, Kelz RR, Ko CY, Odell DD, Stulberg JJ, Lewis FR. National Cluster-Randomized Trial of Duty-Hour Flexibility in Surgical Training. *N Engl J Med*. 2016 Feb 2. [Epub ahead of print] PMID:26836220. Odell DD, Bilimoria KY. Evaluating Appropriate Blood Transfusion in Cancer Surgery. *JAMA Surg*. 2016 Jan 13;1. doi: 10.1001/jamasurg.2015.5104. [Epub ahead of print] No abstract available. PMID:26763614.

Mahesh B, Bhama JK, Odell DD, Hayanga AJ, Bermudez CA, Morrell MR, Crespo MM, Pilewski JM, Johnson BA, Luketich JD, D'Cunha J, Shigemura N. Surgical Strategy for Lung Transplantation in Adults With Small Chests: Lobar Transplant Versus a Pediatric Donor. *Transplantation*. 2016 Jan 12.

Rajaram R, Saadat L, Chung J, Dahlke A, Yang AD, Odell DD, Bilimoria KY. Impact of the 2011 ACGME resident duty hour reform on hospital patient experience and processes-of-care. *BMJ Qual Saf*. 2015 Dec 30. pii: bmjqs-2015-004794. doi: 10.1136/bmjqs-2015-004794.

Bansal S, Hayanga J, Odell J, Odell D, Jeong K, Fabio A, Luketich J, D'Cunha J. Risky Business: Taking the Stigma Out of High-Risk Donation in Lung Transplantation. *Ann Thorac Surg*. 2015 Nov;100(5):1787-94. doi: 10.1016/j.athoracsur.2015.05.065. Epub 2015 Aug 18. PMID: 26294346.

Understanding Why Residents May Inaccurately Log Their Role in Operations: A Look at

the 2013 In-Training Examination Survey. Robich MP, Flagg A, LaPar DJ, Odell DD, Stein W, Aftab M, Berfield KS, Eilers AL, Groth SS, Lazar JF, Shah AA, Smith DA, Stephens EH, Stock CT, DeNino WF, Tchantchaleishvili V, Soltesz EG. *Ann Thorac Surg*. 2016 Jan;101(1):323-8. doi: 10.1016/j.athoracsur.2015.07.047. Epub 2015 Oct 9.

The fountain of youth: Influence of human leukocyte antigen compatibility in adult and pediatric lung transplantation. Odell DD. *J Thorac Cardiovasc Surg*. 2016 Feb;151(2):558-9. doi: 10.1016/j.jtcvs.2015.08.094. Epub 2015 Sep 1. No abstract available.

Resident Perception of Technical Skills Education and Preparation for Independent Practice. Odell DD, Macke RA, Tchantchaleishvili V, Loor G, Nelson JS, LaPar DJ, LaZar JF, Wei B, DeNino WF, Berfield K, Stein W, Youssef SJ, Nguyen TC. *Ann Thorac Surg*. 2015 Dec;100(6):2305-12; discussion 2312-3. doi: 10.1016/j.athoracsur.2015.05.135. Epub 2015 Sep 26.

Preoperative (3-dimensional) computed tomography lung reconstruction before anatomic segmentectomy or lobectomy for stage I non-small cell lung cancer. Chan EG, Landreneau JR, Schuchert MJ, Odell DD, Gu S, Pu J, Luketich JD, Landreneau RJ. *J Thorac Cardiovasc Surg*. 2015 Sep;150(3):523-8. doi: 10.1016/j.jtcvs.2015.06.051. Epub 2015 Jul 2.

A Decade of Change: Training and Career Paths of Cardiothoracic Surgery Residents 2003 to 2014. Stephens EH, Odell D, Stein W, LaPar DJ, DeNino WF, Aftab M, Berfield K, Eilers AL, Groth S, Lazar JF, Robich MP, Shah AA, Smith DA, Stock C, Tchantchaleishvili V, Mery CM, Turek JW, Salazar J, Nguyen TC. *Ann Thorac Surg*. 2015 Oct;100(4):1305-13; discussion 1313-4. doi: 10.1016/j.athoracsur.2015.04.026. Epub 2015 Jul 11.

Predictors of Career Choice Among Cardiothoracic Surgery Trainees. Tchantchaleishvili V, LaPar DJ, Odell DD, Stein W, Aftab M, Berfield KS, Eilers AL, Groth SS, Lazar JF, Robich MP, Shah AA, Smith DA, Stephens EH, Stock CT, DeNino WF, Nguyen TC.

Ann Thorac Surg. 2015 Nov;100(5):1849-54; discussion 1853. doi: 10.1016/j.athoracsur.2015.04.073. Epub 2015 Jul

William Pearce, MD

Presentations

Presenter, "Ultrasound Imaging of Carotids", 37th Annual Echo Northwestern Conference, Chicago, IL, September 20, 2015.

Presenter, "Ask the Expert, Including Evolutionary History of the Stent", 29th Annual Nursing Vascular Conference, Chicago, IL, October 30, 2015.

Moderator, "Current Issues in Vascular Surgery", 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 10-12, 2015.

Moderator, "Complex Arterial and Venous Diseases", 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 10-12, 2015.

Publications

Ares GJ, Yoon DY, Pearce WH. Elderly man with 1-month history of flank and abdominal pain. *JAMA Surg* 2015;150:1011-2. PMID 26287472

Duc Thinh Pham, MD

Presentations

Your Patient Has Advanced Heart Failure Now What? Session V. The 5th Annual Chicago Cardiovascular Update Meeting. Chicago, IL, July 2016 (Invited Speaker)

Session V: LV Dysfunction and Heart Failure. The 5th Annual Chicago Cardiovascular Update Meeting. Chicago, IL, July 2016 (Co-Moderator)

Session IV: Interventional Therapies for Heart Failure. The 11th Annual Heart Failure Symposium. Chicago, IL, December 2015 (Co-Moderator)

Session III: Keynote Address: The evolution of TAVR- A Journey through Team Building. The 11th Annual Heart Failure Symposium. Chicago, IL, December 2015 (Moderator)

The 11th Annual Heart Failure Holiday Symposium. Chicago, IL December 2015 (Course Director)

"IABP, ECMO, LVAD, or BIVAD? How to decide" Session: Managing the Emergency/ Cardiogenic Shock Cardiac Surgery Patient. American Heart Association, Orlando, Florida November 2015 (Invited Speaker)

Session Title: Mechanical Circulatory Support Simulation: Shock Team in Action. American Heart Association, November 2015 (Panel Participant)

Northwestern University VAD and Acute MCS Program: East Coast Meets West Coast. 3rd Annual Mid-Summer Chicagoland Perfusion Meeting. Ann & Robert H. Lurie Children's Hospital of Chicago. Chicago, IL. July 2015 (Invited Speaker)

Publications

Bharat A, Pham DT, Prasad SM. Ambulatory Extracorporeal Membrane Oxygenation: A Surgical Innovation for Adult Respiratory Distress Syndrome. *JAMA Surg*. 2016

Faculty Presentations & Publications

Michael S Kiernan, Kartik S Sundareswaran, Duc Thinh Pham, Navin K Kapur, Naveen L Pereira, Martin Strueber, David J Farrar, David DeNofrio, Joseph G Rogers. Preoperative Determinants of Quality of Life and Functional Capacity Response to Left Ventricular Assist Device Therapy. *J Card Fail.* 2016 Jan 14.

Morine KJ, Kiernan MS, Pham DT, Paruchuri V, Denofrio D, Kapur NK. The Pulmonary Artery Pulsatility Index is Associated with Right Ventricular Failure Following Left Ventricular Assist Device Surgery. *J Card Fail.* 2015

Pham DT, Kapur NK, Dermody M, Halin N. Stenting of an outflow graft obstruction after implantation of a continuous-flow, axial-flow left ventricular assist device. *J Thorac Cardiovasc Surg.* 2015 Jul;150(1).

Kapur NK, Jumean M, Ghuloom A, Aghili N, Vassallo C, Kiernan MS, DeNofrio D, Pham DT. First Successful Use of 2 Axial Flow Catheters for Percutaneous Biventricular Circulatory Support as a Bridge to a Durable Left Ventricular Assist Device. *Circ Heart Fail.* 2015 Sep;8(5):1006-8.

Heron Rodriguez, MD

Presentations

Lecturer. Isolated Acute Visceral Artery Dissection. 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2015. 102. Moderator. Upper Extremity Diseases. 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2015.

Commentator. PVD surgery vs. endovascular approaches- A multidisciplinary treatment approach. Northwestern University Stone Cardiology Rounds, Chicago, IL, May 4, 2016.

Lecturer. Isolated acute visceral artery dissection: Treatment recommendations. 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2015.

Moderator. Upper extremity Diseases. 40th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2015.

Lecturer. Venous aneurysms. Mexican Society of Angiology and Vascular Surgery XLVII National Congress, Los Cabos, Mexico, September 9, 2015.

Lecturer. Management of iatrogenic lesions in the neck. Mexican Society of Angiology and Vascular Surgery XLVII National Congress, Los Cabos, Mexico, September 9, 2015.

Lecturer. Cava reconstruction after renal cancer tumor thrombectomy. Mexican Society of Angiology and Vascular Surgery XLVII National Congress, Los Cabos, Mexico, September 9, 2015.

Lecturer. Formacion en la especialidad en USA. Cirujanos vasculares de habla hispana, Quito, Ecuador, October 12, 2015.

Lecturer. Experiencia en el manejo de cate- teres intraarteriales colocados en forma acci- dental. VIII Curso Annual de Actualidades en Angiologia y Cirugia Vascular Instituto Nacion- al de Ciencias Medicas y Nutricion Salvador Zubiran, Mexico City, February 10, 2016.

Lecturer. Como prevenir y salir de complica- ciones con los Accesos en los tratamientos Endovasculares. VIII Curso Annual de Actual- idades en Angiologia y Cirugia Vascular Insti- tuto Nacional de Ciencias Medicas y Nutricion Salvador Zubiran, Mexico City, February 10, 2016.

Lecturer. Infra management popliteal vein thrombosis: observation, anticogulation, or filter. Interactive Course of Vascular Diseases, Mexico City, Mexico, June 9-11th, 2016.

Lecturer. When temporal filters must be per- manent? Experience with more than a thou- sand cases. Interactive Course of Vascular Diseases, Mexico City, Mexico, June 9-11th, 2016.

Lecturer. Differences between techniques for rescuing critical limb ischemia. Interactive Course of Vascular Diseases, Mexico City, Mexico, June 9-11th, 2016.

Lecturer. Advances in endovascular aortic disease management (review of casuistry broken aneurysms, percutaneous access, dissections). Interactive Course of Vascular Diseases, Mexico City, Mexico, June 9-11th, 2016.

Lecturer. Complication in arterial access. In- teractive Course of Vascular Diseases, Mexi- co City, Mexico, June 9-11th, 2016.

Lecturer. Vascular Ultrasound-guided access. Interactive Course of Vascular Diseases, Mex- ico City, Mexico, June 9-11th, 2016.

Publications

Kumar HR, Rodriguez HE, Eskandari MK. Mid-term outcomes of self-expanding covered stent grafts for repair of popliteal artery aneu- rysms. *Surgery* 2015;157:874-880. PMID:25704425

Morgan CE, Herm-Barabasz R, Rodriguez HE, Hoel AW, Eskandari MK. Incidence of acute lower extremity venous thrombosis after percutaneous endovascular aneurysm repair. *J Vasc Surg* 2015;62:351-354.

Wandling MW, Hoel AW, Meyerson SL, Rodri- guez HE, Shapiro MB, Swaroop M, Bharat A. Complex Intrathoracic Tracheal Injury. *Am J Respir Crit Care Med.* 2015 Jul 15;192(2):e20- 1. doi: 10.1164/rccm.201502-0296IM

Zamor KC, Eskandari MK, Rodriguez HE, Ho KJ, Morasch MD, Hoel AW. Outcomes of Tho- racic Endovascular Aortic Repair and Subcla- vian Revascularization Techniques. *J Am Coll Surg.* 2015 Jul;221(1):93-100.

Yoon DY, Annambhotla S, Resnick SA, Eskandari MK, Rodriguez HE. Inadvertent Arterial Placement of Central Venous Cathe- ters: Diagnostic and Therapeutic Strategies. *Ann Vasc Surg.* 2015 Nov;29(8):1567-74. doi: 10.1016/j.avsg.2015.05.030

Garcia RM, Choy W, DiDomenico JD, Barring- ton N, Dahdaleh NS, Rodriguez HE, Lam S, Smith ZA. Thirty-day readmission rate and risk factors for patients undergoing single level elective anterior lumbar interbody fusion (ALIF). *J Clinical Neuroscience.* 2016 Jul 8. pii: S0967-5868(16)30117-5. doi: 10.1016/ j.jocn.2016.04.003.

Ramille Shah, PhD

Presentations

R.N. Shah. "A biomaterial ink synthesis plat- form for 3D printing customizable, cell- \rightarrow laden hydrogels" American Chemical Society Sym- posium, Philadelphia, PA, August 2016.

R.N. Shah, A.E. Jakus. "A New Class of 3D- \rightarrow Printable Particle- \rightarrow Laden Inks for Biomedical Applications" American Ceramic Society, Chi- cago, IL July 2016.

R.N. Shah. "Expanding the 3D Printing Bio- material Palette: New Approaches to Material Design and Development" Materials Research Society Conference, Phoenix, AZ, April 2016.

Jakus, A.E., Shah, R.N. "A 3D- \rightarrow Painted Fu- ture: New Materials for Tissue Engineering, Energy, Advanced Structure and More". 2016 Additive Manu- facturing Users Group Annual Meeting, St. Louis, MO, April 2016.

A.E. Jakus, R.N. Shah. "3D Printing Biologic Scaffolds: The Promise of Engineered Tis- sues" North American Spine Society Annual Meeting, Chi- cago, IL, October 2015.

Shah, R.N., "Materials Innovation in 3D Print- ing for Medical Applications" Comprehensive Transplant Center Advisory Meeting, Chicago, IL, Sep- tember 2015.

Jakus, A.E., Shah, R.N. "3D- \rightarrow Printing gra- phene from liquid Inks." Physical Sciences Symposia, Boston, MA, September 2015.

Shah, R.N., "3D Printing Functional Biomateri-

Faculty Presentations & Publications

als" Simpson Querrey Institute Advisory Meeting, Chicago, IL, August 2015.

Publications

Lewis, P.L., Shah, R.N., "3D Printing for Liver Tissue Engineering: Current Approaches and Future Challenges" Current Transplantation Reviews. 2016, 3(100).

Wang, B., Jakus, A.E., Baptista, P.M., Soker, S., Soto-Gutierrez, A., Abecassis, M.M., Shah, R.N., Wertheim, J.A. "Functional maturation of iPSC--hepatocytes in extracellular matrix — A comparative analysis of bioartificial liver microenvironments". Stem Cells Translational Medicine 2016. In Press.

Frolich, S., Leemreize, H., Jakus, A.E., Xiao, X., Shah, R.N., Birkedal, H., Almer, J.D., Stock, S.R., "Diffraction Tomography and Rietveld Refinement of a Hydroxyapatite Bone Phantom" Journal of Applied Crystallography 2016, 49, 103.

Jakus, A.E., Rutz, A., Shah, R.N., "Advancing the Field of 3D Biomaterial Printing" J Biomedical Materials 2016, 11(1).

Michael Shapiro, MD

Presentations

Blair KJ, Paladino L, Shaw P, Schuetz SJ, Shapiro MB, Nwomeh BC, Richards CT, Swaroop M. Trauma and Surgical Care Capacity in Low-Middle Income Countries: A Systematic Review of the Tools. American College of Surgeons. Chicago, IL, October 4, 2015.

Wandling MW, Nathens AB, Shapiro MB, Haut ER. The Association Between Pre-Hospital Mode of Transport and Mortality Following Penetrating Injuries in Urban Trauma Systems. Chicago Committee on Trauma Resident Paper Competition. Chicago, IL, October 2, 2015.

Wandling MW, Nathens AB, Pavey ES, Stulberg JJ, Chung JW, Yang AD, Shapiro MB, Ko CY, Bilimoria KY. What About Emergency Surgery Patients Who Don't Have Surgery? A National Assessment Of Non-Operative Management in Emergency General Surgery. Chicago Committee on Trauma Resident Paper Competition. Chicago, IL, October 2, 2015.

Wandling MW, Shapiro MB, Nathens AB, Haut ER. Police Transport vs. Ground EMS: A Trauma System Level Evaluation of Pre-Hospital Care Policies and their Effect on Clinical Outcomes. Eastern Association for the Surgery of Trauma. San Antonio, TX, January 13, 2016.

Wasserman MA, Sternbach JM, Wandling MW, Crandall ML, Issa NM, Schwulst SJ, Bilimoria KY, Shapiro MB, Swaroop M. Reduction in Arterial Blood Gas Utilization Through Implementation of End-Tidal CO2 Monitoring. Academic Surgical Congress. Academic Surgical Congress. Jacksonville, FL, February 4, 2016.

Wandling MW, Nathens AB, Pavey ES, Chung JW, Yang AD, Shapiro MB, Ko CY, Bilimoria KY. Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management. Academic Surgical Congress. Jacksonville, FL, February 4, 2016.

Cherukupalli SE, Bhatia M, Gupta S, Nagarajan N, Boeck M, Sharma S, Nwomeh BC, Thakur J, Shapiro MB, Bhalla A, Swaroop M. Surgical Needs in Rural India: A Population-Based Survey in Nanakpur, Haryana. Academic Surgical Congress, Jacksonville, FL, February 4, 2016.

Bhatia MB, Cherukupalli SE, Blair KJ, Boeck M, Helenowski I, Sharma S, Nwomeh B, Shapiro MB, Thakur J, Bhalla A, Swaroop M. A Quantitative Analysis of Surgical and Trauma Care Capacity in Rural Haryana, India. Academic Surgical Congress, Jacksonville, FL, February 4, 2016.

Wandling MW, Hungness ES, Stulberg JJ, Pavey ES, Schwab B, Yang AD, Shapiro MB, Ko CY, Bilimoria KY, Nathens AB. The Disappearance of Common Bile Duct Exploration from the Surgical Armamentarium: A National Assessment of Trends in Choledocholithiasis Management from 1998-2011. Pacific Coast Surgical Association. Kohala Coast, HI, February 16, 2016.

Wandling MW, Nathens AB, Pavey ES, Chung JW, Yang AD, Shapiro MB, Ko CY, Bilimoria KY. Evaluating the Blind Spot of Surgical Quality: A National Assessment of Non-Operative Management. 2016 Congress of the European Society for Surgical Research. Prague, Czech Republic, May 28, 2016.

Publications

Wandling MW, Hungness ES, Pavey ES, Stulberg JJ, Schwab B, Yang AD, Shapiro MB, Bilimoria KY, Ko CY, Nathens AB. Nationwide Assessment of Trends in Choledocholithiasis Management in the United States from 1998-2013. JAMA Surgery, 2016, accepted for publication.

Wandling MW, Nathens AB, Shapiro MB, Haut ER. Police Transport vs. Ground EMS: A Trauma System Level Evaluation of Pre-Hospital Care Policies and their Effect on Clinical Outcomes. The Journal of Trauma and Acute Care Surgery, 2016, accepted for publication.

Nathaniel J. Soper, MD

Presentations

Invited Lecturer: ISS/SIC Main Session: "Technical Tips for the Treatment of Paraesophageal Hernia", World Congress of Surgery, Bangkok, Thailand, August 23, 2015

Invited Educator: Writers Workshop, World Congress of Surgery, Bangkok, Thailand, August 24, 25 and 26, 2015

Invited Lecturer: ISS/SIC Main Session: "The Difficult Laparoscopic Cholecystectomy" World Congress of Surgery, Bangkok, Thailand, August 27, 2015

Invited Lecturer: ISDS Main Session: "Current Status of NOTES Cholecystectomy: is NOTES Nuts?", World Congress of Surgery, Bangkok, Thailand, August 27, 2015

Invited Lecturer: ISDS Main Session "POEM: the Real Deal or Delaying Surgery?", World Congress of Surgery, Bangkok, Thailand, August 27, 2015

Invited Gliedman Orator: "Minimally Invasive GI Surgery: Past, Present, and (?) Future", 32nd Annual Controversies, Problems & Techniques in Surgery, New York, New York, December 18, 2015

Invited Moderator: PG Course: Common Bile Duct Stones: IOC to LCBDE, SAGES Meeting, Boston, MA, March 16, 2016

Invited Speaker: SAGES University Masters Series: Foregut Disease "Reflux with esophageal Dysmotility" SAGES Meeting, Boston, MA March 17, 2016

Keynote Lecture: "Engendering operative autonomy in surgical trainees", Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 3, 2016

Invited Educator: Master Class (MC24): "Techniques and Results of the POEM Procedure" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

Invited Speaker: Keynote Lecture: "Management of hiatus hernia in 2016" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

Invited Speaker: "New procedures and techniques for the treatment of GERD" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

Invited Speaker: "Management Of Achalasia 2016" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

Faculty Presentations & Publications

Invited Lecturer: Surgeons as Leaders Course, American College of Surgeons, Durham, NC, June 5-8, 2016

Visiting Professor, "Engendering Operative Autonomy in Surgical Training" University of Florida, Gainesville, FL, June 22, 2016

Publications

Jorge AM, Kswani RN, Veerappan A, Soper NJ, Gawron AJ. (2015) "Non-operative Management of Symptomatic Cholelithiasis in Pregnancy is Associated with Frequent Hospitalizations" *J Gastrointest Surg*; 19:598-603. PMID: 2565016

Teitelbaum EN, Sternbach J, El Khoury R, Soper NJ, Pandolfino JE, Kahrilas PJ, Lin Z, Hungness ES. (2016) "The effect of incremental distal gastric myotomy lengths on EGJ distensibility during POEM for achalasia" *Surg Endosc*, 30:745-750

Strong SA, Soper NJ (2015) "Minimally invasive approaches to rectal cancer and diverticulitis. Does less mean more?" *JAMA*; 314:1343-1345 PMID: 26441178

El Khoury R, Ramirez M, Hungness ES, Soper NJ, Patti MG (2015) "Symptom relief after laparoscopic paraesophageal hernia repair without mesh". *J Gastrointest Surg* 19:1938-1942. PMID: 26242885

Nicodème F, Soper NJ, Lin Z, Pandolfino JE, Kahrilas PJ. "Calculation of esophagogastric junction vector volume using three-dimensional high-resolution manometry". *Diseases of the Esophagus*. 2015 Oct;28 (7):7. ISSN: 1120-8694

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Sternbach JM, El Khoury R, Teitelbaum EN, Soper NJ, Pandolfino JE, Hungness ES. (2015) "Early esophagram in per-oral endoscopic myotomy (POEM) for Achalasia does not predict long-term outcomes" *In Surgery* 2015 Oct;158(4):9. ISSN: 0039-6060

Bohnen JD, George BC, Williams RG, Schuller MC, DaRosa DA, Torbeck L, Mullen JT, Meyerson SL, Auyang ED, Chipman JG, Choi JN, Choti MA, Endean ED, Foley EF, Mandell SP, Meier AH, Smink DS, Terhune KP, Wise PE, Soper NJ, Zwischenberger JB, Lillemoe KD, Dunington GL, Fryer, JP, (2016) *Procedural Learning and Safety Collaborative (PLSC)*. "The Feasibility of Real-Time Intraoperative Performance Assessment with SIMPL (System for Improving and Measuring Procedural Learning): Early Experience from a Multi-Institutional Trial" *In Journal of Surgical Education*. In press.

Carlson DA, Lin Zhiyue, Kahrilas PJ, Sternbach J, Hungness ES, Soper NJ, Balla M, Listernick Z, Tye M, Ritter K, Craft J, Ciolino J, Pandolfino JE. (2016) "High-resolution impedance manometry metrics of the esophagogastric junction for the assessment of treatment response in achalasia". *In Am J of Gastroenterology*. In press

Patti MG, Andolfi C, Bowers SP Soper NJ. (2016) POEM vs. Laparoscopic Heller myotomy and fundoplication: Which is now the Gold Standard for Treatment of Achalasia? *J Gastrointest Surg*. In Press

Mamta Swaroop, MD

Presentations

Boeck MA, South SD, Schuetz S, Miller C, Helenowski IB, Simons Gonzalez JR, Cabrera Vargas M, Ruderman L, Gallardo JL, Saavedra Laguna JMP, Issa NM, Shapiro MB, Swaroop M. Emergency Experiences of Trauma First Responder Course Participants in Potosí, Bolivia. Oral Presentation by SD South at the Chicago Committee on Trauma, Chicago, IL, October 2, 2015.

Cherukupalli S, Bhatia M, Gupta S, Sharma S, Nwomeh B, Thakur JS, Shapiro MB, Bhalla A, Swaroop M. Surgical Needs in Rural India: Population-Based Survey in Nanakpur, Haryana. Northwestern Interdisciplinary Global Health Symposium, Northwestern University, Chicago, IL. November 12, 2015.

CME Invited Lecturer on Global Surgery, Northwestern University, April 2016

Discussant, Global Surgery Session American College of Surgeons, October 2015, Chicago, IL

K. J. Blair, L. Paladino, P. Shaw, S. J. Schuetz, M. B. Shapiro, B. C. Nwomeh, M. Swaroop. Trauma & Surgical Care Capacity in Low Middle Income Countries: A Systematic Review of the Tools. Oral Podium Presentation, Global Surgery Forum at ACS Meeting 2015.

Molly A. Wasserman, Joel M. Sternbach, Michael W. Wandling, Marie L. Crandall, Nabil M. Issa, Steven J. Schwulst, Karl Y. Bilimoria, MD, Michael B. Shapiro, Mamta Swaroop. Reduction in Arterial Blood Gas Utilization Through Implementation of ETCO2 Monitoring. Quickshot by M Wasserman at the ASC. Jacksonville, FL. February 2016.

Cherukupalli S, Bhatia M, Gupta S, Nagarajan N, Boeck MA, Sharma S, Nwomeh BC, Thakur JS, Shapiro MB, Bhalla A, Swaroop M. Surgical Needs in Rural India: Population-Based Survey in Nanakpur, Haryana. Quickshot Oral by V Cherukupalli at the ASC. Jacksonville, FL. February 2016.

M. A. Boeck, T. E. Callese, S. K. Nelson, S. J. Schuetz, C. G. Miller, C. Fuentes Bazan, J. R.

Simons Gonzáles, M. C. Vargas, L. W. Ruderman, J. L. Gallardo, J. M. Laguna Saavedra, N. M. Issa, M. B. Shapiro, M. Swaroop. Trauma First Responder Course Participant Characteristics & Experiences in La Paz & Potosi, Bolivia. Quickshot by MA Boeck at the ASC. Jacksonville, FL. February 2016.

T. E. Callese, S. K. Nelson, M. Boeck, S. J. Schuetz, C. F. Bazan, J. Mauricio P. Saavedra Laguna, M. B. Shapiro, N. M. Issa, M. Swaroop. Participant Evaluation of a Novel, Layperson Trauma First Responder Course in La Paz, Bolivia. Quickshot by T. E. Callese at the ASC. Jacksonville, FL. February 2016.

M. B. Bhatia, S. E. Cherukupalli, K. J. Blair, M. Boeck, I. Helenowski, S. Sharma, B. Nwomeh, M. B. Shapiro, J. Thakur, A. Bhalla, M. Swaroop. A Quantitative Analysis of Surgical and Trauma Care Capacity in Rural Haryana, India. Quickshot by M. B. Bhatia at the ASC. Jacksonville, FL. February 2016.

MA Boeck, SJ Schuetz, CG Miller, IB Helenowski, JR Simons Gonzáles, MC Vargas, LW Ruderman, JL Gallardo, JMP Laguna Saavedra, NM Issa, MB Shapiro, M Swaroop. Emergency Experiences of Trauma First Responder Course Participants in Potosí, Bolivia. ORAL PRESENTATION by MA Boeck. 19th World Congress on Disaster & Emergency Medicine, April 21-24, 2015, Cape Town, South Africa.

MA Boeck, N Nagarajan, S Gupta, RS Groen, S Shrestha, S Gurung, AL Kushner, B Nwomeh, M Swaroop. Assessing Access to Surgical Care in Nepal via a Countrywide Survey. ORAL PRESENTATION by MA Boeck. Bethune Round Table 2015, June 4-7, 2015, Calgary, Canada.

MA Boeck, SJ Schuetz, CG Miller, IB Helenowski, JR Simons Gonzáles, MC Vargas, LW Ruderman, JL Gallardo, JMP Laguna Saavedra, N Issa, MB Shapiro, M Swaroop. Evaluation of the Northwestern Trauma and Surgical Initiative's Trauma First Responder Course in Potosí, Bolivia. ORAL PRESENTATION by MA Boeck. AAST/IATSIC Paper Session at the 46th World Congress of Surgery, August 23-27, 2015, Bangkok, Thailand.

Academic Global Surgery, Career Development Course Lecturer with AAS, International Surgical Society, August 2015, Bangkok, Thailand

INDUS-EM Course Director, Fundamental of Trauma Resuscitation and Trauma Critical Course, October 2015, New Delhi, India

INDUS-EM Co-Course Director, Trauma Critical Course, October 2015, New Delhi, India

Boeck MA, Foianini E, Perry H, Mata L, Jayaraman S, Aboutanos M, Swaroop M. The Implementation of a Hospital-Based Trauma

Faculty Presentations & Publications

Registry in Santa Cruz de la Sierra, Bolivia: A Pilot Study. PanAmTrauma Society Meeting SantaCruz, Bolivia, November 2015.

Blair KJ, Boeck MA, Gallardo JL, Almendras LN, Schuetz SJ, Lopez JLH, Helenowski IB, Shapiro MB, Swaroop M. Surgical and Trauma Care Access, Capacity, and Training in Potosí, Bolivia: A Brief Assessment. Short Oral: PanAmTrauma Society Meeting SantaCruz, Bolivia, November 2015.

Boeck MA, Foianini E, Blair KJ, Toledo G, Mansilla Camacho JC, Perry H, Nwomeh B, Swaroop M. A Baseline Evaluation of Trauma Management and Emergency Response Capacity in Santa Cruz de la Sierra, Bolivia. Short Oral: PanAmTrauma Society Meeting SantaCruz, Bolivia, November 2015.

Blair KJ, Boeck MA, Gallardo JL, Almendras LN, Schuetz SJ, Lopez JLH, Helenowski IB, Nwomeh B, Shapiro MB, Swaroop M. Surgical and Trauma Capacity in Potosí, Bolivia: A Quantitative Analysis. Short Oral: PanAmTrauma Society Meeting SantaCruz, Bolivia, November 2015.

Publications

Rothstein, DH, Swaroop M. Put down the bullet, pick up a scalpel. July 2015, General Surgery News.

MW Wandling, AW Hoel, SL Meyerson, HE Rodriguez, MB Shapiro, M Swaroop, A Bharat: Complex Intrathoracic Tracheal Injury following Blunt Chest Trauma. Am J Respir Crit Care Med. 2015 Jul 15;192(2):e20-1. PMID: 26177182

Contributing Author, GBD Collaborators, Global, regional, and national incidence, prevalence, and YLDs for 301 acute and chronic conditions and injuries for 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. Lancet. 2015 Aug 22;386(9995):743-800. PMID: 26364544

Boeck MA, Nagarajan N, Swaroop M. The Role of Public Health in a Global Surgery Fellowship. J Surg Educ. 2015 Sep-Oct;72(5):776-7. PMID: 26210253

Swaroop M, deVries C. Are we there yet? The Conundrum of Training in Global Surgery... JAMA Surg. 2015 Nov 1;150(11):1079. PMID: 26266825

Contributing Author, GBD Collaborators, Global, regional, and national comparative risk assessment of 79 behavioural, environmental and occupational, and metabolic risks or clusters of risks in 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. Lancet. 2015 Dec 5;386(10010):2287-323. PMID: 26364544

Contributing Author, GBD Collaborators, Glob-

al, regional, and national disability-adjusted life years (DALYs) for 306 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. Lancet. 2015 Nov 28;386(10009):2145-91. PMID: 26321261 Academic Global Surgery, Success in Academic Surgery Series. Swaroop M and Krishnaswami S (eds). Springer. December 2015.

Tatebe LC, Swaroop M, reviewer. Selected Readings in General Surgery. 2016:42 (1):e1. http://web2.facs.org/SRGS_Connect/wysk/wysk0216.cfm. Accessed February 8, 2016. Review of: Madore, J. C., et al. The impact of acute care surgery on appendicitis outcomes: Results from a national sample of university-affiliated hospitals.

T Kindel, N Latchana, M Swaroop, UI Chaudhry, SF Noria, RL Choron, MJ Seamon, MJ Lin, M Mao, J Cipolla, M El Chaar, D Scantling, ND Martin, DC Evans, TJ Papadimos, SP Stawicki. Laparoscopy in Trauma: An Overview of Complications and Related Topics. IJCIIS Symposium, Procedural Complications in Trauma and Critical Care, Int J Crit Illn Inj Sci. 2015 Jul-Sep;5(3):196-205. PMID: 26557490

S. Devkota, S. Gupta, S. Ghimire, A. Ranjit, M. Swaroop, A. L. Kushner, B. C. Nwomeh, Victorino GP Prevalence of injuries due to falls in Nepal: A countrywide population based survey. Annals of Global Health, 2015 Jul-Aug;81(4):487-94. PMID: 26709280

Tarbox, A, Swaroop M. Patient Safety: Medical-legal Considerations. In: Stawicki SP, Galwankar SC, Papadimos TJ, Moffatt-Bruce SD (eds): Fundamentals of Patient Safety in Medicine and Surgery. Wolters-Kluwer, 2015.

Gale J, Stanislaw Stawicki, Swaroop M Chapter: Patient-centered Clinical Transformation: Case Examples. In: Stawicki SP, Galwankar SC, Papadimos TJ, Moffatt-Bruce SD(eds): Fundamentals of Patient Safety in Medicine and Surgery. Wolters-Kluwer, 2015.

S Siddiqui, KR Moran, T J Papadimos, M Swaroop Chapter: Creating and Sustaining a Culture of Safety in Health Care. In: Stawicki SP, Galwankar SC, Papadimos TJ, Moffatt-Bruce SD(eds): Fundamentals of Patient Safety in Medicine and Surgery. Wolters-Kluwer, 2015.

MA Boeck, N Nagarajan, S Gupta, RS Groen, S Shrestha, S Gurung, AL Kushner, B Nwomeh, M Swaroop. Assessing Access to Surgical Care in Nepal via a Countrywide Survey. Surgery, 2016 May3. PMID: 27158120

Contributing Author, GlobalSurg Collaborative, Mortality of emergency abdominal surgery in high-, middle- and low-income countries. Br J Surg. 2016 Jul;103(8):971-988. PMID:

27145169

M O Trudeau, M Swaroop, DH Rothstein. Humanitarian Skill Set Acquisition Trends Among Graduating U.S. Surgical Residents, 2004-2014. J Surg Res. 2016 Jun 15;203(2):319-23. PMID: 27363639

Siddiqui SM, Sagar S, Gupta A, Mishra MC, Crandall M, Swaroop M. Patterns of Injury: Motorized Two Wheeler Pillion Riders in New Delhi, India. In press.

Anat R. Tambur, MD

Presentations

Invited speaker, Donor Specific HLA Antibodies and the Highly Sensitized Patients: Various Aspects / Different Perspectives. FDA workshop on Surrogate Endpoint and Clinical Trial Design. September 28, 2015

Invited Speaker, Anti-Graft Antibodies in Transplantation – What's Hot – What's New. BANFF. Vancouver October 2015
Invited Speaker, Making the most of antibody testing – Israeli Transplant Society – Israel - October 2015

Invited Speaker, Virtual Crossmatching – Israeli Transplant Society – Israel – October 2015

Invited Speaker, Assessing HLA antibody strength and more – Leiden – Guest lecture – November 2016
Invited Speaker, Hiding in Plain Sight – Epitope meeting – Leiden November 2016

Invited Speaker, Making the most of single antigen antibody testing - Edmonton grand rounds January 2016

Invited Speaker, How are we measuring Sensitization? CEOT Phoenix AZ February 2016
Invited Speaker, Merits of the assays – CTOT NIH, Bethesda, April 2016

Invited Speaker, Discovering new antibodies. Antibody Mediated Rejection in Liver Transplantation meeting. Baylor, April 2016

Publications

Glott D, Tambur A Stratifying Patients Based on Epitope Mismatching: Ready for Prime-time? Am J Transplant. 2015 Aug;15(8):2021-2

Tambur AR, Herrera ND, Haareberg KMK, Cusick MF, Gordon RA, Leventhal JR, Friedewald JJ, Glott D. Assessing antibody strength: comparison of MFI, C1q, and Titer information. AJT 2015; Sep;15(9):2421-30

Tambur AR, Haareberg KMK, Friedewald JJ, Leventhal JR, Cusick MF, Jaramillo A, Abecassis MM, Kaplan B. Unintended consequences of the new national kidney allocation policy in the US. Am J Transplant. 2015

Faculty Presentations & Publications

Sep;15(9):2465-9

Leventhal JR, Mathew J, Salomon DR, Kurian SM, Friedewald JJ, Gallon L, Konieczna I, Tambur AR, Charette J, Levitsky J, Jie C, Kanwar YS, Abecassis MM, Miller J. Non-Chimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/ Genomic Biomarkers AJT 2016: 16:221-234

Duquesnoy RJ, Gebel HM, Woodle ES, Nickerson P, Baxter-Lowe LA, Bray RA, Claas FH, Eckels DD, Friedewald JJ, Fuggle SV, Gerlach JA, Fung JJ, Kamoun M, Middleton D, Shapiro R, Tambur AR, Taylor CJ, Tinckam K, Zeevi A. High-Resolution HLA Typing for Sensitized Patients: Advances in Medicine and Science Require Us to Challenge Existing Paradigms. Am J Transplant. 2015 Oct;15(10):2780-1

Cusick MF & Tambur AR. Advancing histocompatibility testing for solid organ transplantation – what is needed? A personal opinion. Clinical Transplants 2015

Sternbach JM, Raparia K, Steward N, Garcha P, Bhorade S, Ison M, Askar M, Farver C, Budev M, Tambur AR, DeCamp MM, Mohanakumar M, Bharat A Hyper-acute and acuter humoral allograft rejection despite negative crossmatch.

Tambur AR & Lavee J. Suggested guidelines to incorporating HLA antibodies results into clinical practice. Perspective JHLT 2016;35(7):851-6

Tambur AR, Glotz D, Herrera ND, Chatroop EN, Roitberg T, Friedewald JJ, Gjersten D. Can solid phase assays be better utilized to measure efficacy of antibody removal therapies? Human Immunology 2016 Aug;77(8):624-30

Tambur AR. Auto and allo epitopes in DQ alloreactivity. Currently Opinions in Organ Transplantation. 2016 21(4):355-61

Tambur AR. HLA-DQ antibodies: are they real? Are they relevant? Why so many? Currently Opinion in Organ Transplantation. 2016 21(4):441-6

Levitsky J, Kaneku H, Jie C, Walsh RC, Abecassis M, Tambur AR. Donor-Specific HLA Antibodies in Living Versus Deceased Donor Liver Transplant Recipients. Am J Transplantation 2016;16 2437–2444)

Tambur AR. Hiding in plain Sight – or a new look at HLA epitopes. A personal viewpoint. AJT 2016 June 11 (Epub)

Tadaki Tomita, MD

Presentations

Tomita TM. CONNECTIVE TISSUE DISORDERS AFFECTING THE VASCULAR SYS-

TEM. Northwestern 28th Annual Vascular Nursing Conference. November 2015. Chicago, IL

Tomita TM. PERIPHERAL VASCULAR DISEASE: MANAGING TRAFFIC ON THE ARTERIAL HIGHWAY. Lake Forest Hospital Grand Rounds. February 2016. Lake Forest, IL
Tomita TM. CAROTID ULTRASOUND. Northwestern Memorial Hospital Ultrasound Conference. April 2016. Winfield, IL

Publications

Smeds M, Duncan A, Harlander-Locke M, Lawrence PF, Lyden S, Fatima J, Eskandari M and Vascular Low-Frequency Disease Consortium: Steenberge S, Tomita TM, et al. AORTIC ENDOGRAFT INFECTION: TREATMENT AND OUTCOMES. J Vasc Surg. 2016 Feb;63(2):332-40.

Havelka GE, Tomita TM, Malaisrie SC, Ho KJ, and Eskandari MK. TWO CASES OF AORTIC INTIMAL INTUSSUSCEPTION DURING ENDOVASCULAR REPAIR OF AN ACUTE TYPE B DISSECTION. J Endovasc Ther. 2016 Jun;23(3):521-8.

Tomita TM, Rodriguez HE, Hoel AW, Ho KJ, Pearce WH, and Eskandari MK. IMPLICATIONS OF INTRAOPERATIVE VASCULAR SURGERY ASSISTANCE FOR HOSPITALS AND VASCULAR SURGERY TRAINEES. JAMA Surg. 2016 Aug 3. Doi: 10.1001/jamasurg.2016.2247 [Epub ahead of print]

Jeffrey Wayne, MD

Publications

Klingensmith ME, Awad M, Delman KA, Deveney K, Fahey TJ 3rd, Lees JS, Lipsett P, Mullen JT, Smink DS, Wayne J. Early Results from the Flexibility in Surgical Training Research Consortium: Resident and Program Director Attitudes Toward Flexible Rotations in Senior Residency. J Surg Educ. 2015 (15) 00138-5. [Epub ahead of print]

Jakub JW, Terando AM, Sarnaik A, Ariyan CE, Faries MB, Zani S Jr, Neuman HB, Wasif N, Farma JM, Averbook BJ, Bilimoria KY, Jake Allred JB, Suman VJ, Grotz TE, Zendejas B, Wayne JD, Tyler DS. Training High-Volume Melanoma Surgeons to Perform a Novel Minimally Invasive Inguinal Lymphadenectomy: Report of a Prospective Multi-Institutional Trial. J Am Coll Surg, 2015; S1072-7515. [Epub ahead of print].

Pelster MW, Wayne JD, and Yoo S. Outcomes of Patients with Multiple Cutaneous Squamous Cell Carcinomas. JAMA Oncology, 2016;2(1):130-1.

Kinnier CV, Paruch JL, Dahlke AR, Wayne JD, Benson AB, Winchester DP, Bilimoria KY. Adjusted hospital sentinel lymph node positivity rates in melanoma: a novel potential measure of quality. Annals of Surgery, 2016 Feb; 263

(2):392-8.

Jakub JW, Terando AM, Sarnaik A, Ariyan CE, Faries MB, Zani S Jr, Neuman HB, Wasif N, Farma JM, Averbook BJ, Bilimoria KY, Grotz TE, Allred JB, Suman VJ, Brady MS, Tyler D, Wayne JD, Nelson H. Safety and Feasibility of Minimally Invasive Inguinal Lymph Node Dissection in Patients With Melanoma (SAFE-MILND): Report of a Prospective Multi-institutional Trial. Ann Surg. 2016 Feb 25. [Epub ahead of print]

Kane JR, Lewis N, Lin R, Villa C, Larson A, Wayne JD, Yeldandi AV, Laskin WB. Plexiform fibromyxoma with cotyledon-like serosal growth: A case report of a rare gastric tumor and review of the literature. Oncol Lett. 2016 Mar;11(3):2189-2194. Epub 2016 Feb 4.

Minami CA, Wayne JD, Yang AD, Martini MC, Gerami P, Chandra S, Kuzel TM, Winchester DP, Palis BE, and Bilimoria KY. National Evaluation of Hospital Performance on the New Commission on Cancer Melanoma Quality Measures. Ann Surg Oncol. 2016 Jun 8. [Epub ahead of print].

von Mehren Randall RL, M, Benjamin RS, Boles S, Bui MM, Conrad EU 3rd, Ganjoo KN, George S, Gonzalez RJ, Heslin MJ, Kane JM 3rd, Koon H, Mayerson J, McCarter M, McGarry SV, Meyer C, O'Donnell RJ, Pappo AS, Paz IB, Petersen IA, Pfeifer JD, Riedel RF, Schuetz S, Schupak KD, Schwartz HS, Tapp WD, Wayne JD, Bergman MA, Scavone J. Soft Tissue Sarcoma, Version 2.2016, NCCN Clinical Practice Guidelines in Oncology. J Natl Compr Canc Netw. 2016;14(6):758-86.

Robinson JK, Wayne JD, Martini MC, Hultgren BA, Mallett KA and Turrisi R. Early detection of new melanoma by patients with partners using a structured skin self-examination skills training intervention – a randomized clinical trial. JAMA Dermatol. 2016 Jun 29 [Epub ahead of print].

Jason Wertheim, MD, PhD

Presentations

Wertheim, J.A. “A multidimensional approach to develop bioartificial tissues in vitro.” Brigham and Women’s Hospital/ Massachusetts General Hospital Renal Grand Rounds (September 2015).

Wertheim, J.A. “Integrating Tissue Engineering and Surgical Innovation.” American College of Surgeons Clinical Congress, Chicago, IL (October 2015).

Wertheim, J.A. “Solving Organ Shortage Through Tissue Engineering—The Future of Transplantation.” 13th Latin American Transplant Congress, Cancun, Mexico (October 2015).

Faculty Presentations & Publications

Wertheim, J.A. "Using Artificial and Decellularized Scaffolds to Build Functional Nephrons." Kidney Week 2015, American Society of Nephrology, San Diego, CA (November 2015).
Wertheim, J.A. "Functional Maturation of iPSC-Hepatocytes in Extracellular Matrix." 18th International Symposium on Cells of the Hepatic Sinusoid. Asilomar, CA (November 2015).

Wertheim, J.A. "Innovation Showcase-Tissue to Organs 2" Speaker and Moderator, World Stem Cell Summit, Atlanta GA (December 2015).

Wertheim, J.A. "The Return of the Six Million Dollar Man and the Bionic Woman: Developing Bioartificial Tissues and Organs" American Society of Transplant Surgeons 16th Annual State of the Art Winter Symposium, Miami, FL (January 2016).

Wertheim, J.A. "Addressing Organ Shortage in Transplantation: Tissue Bioengineering and 3D Scaffolds for Stem Cell Development" University of Chicago Pathobiology Seminar Series, Chicago, IL (March 2016).

Publications

Wang B, Jakus AE, Baptista PM, Soker S, Soto-Gutierrez A, Abecassis MM, Shah RN, Wertheim JA. Functional Maturation of Induced Pluripotent Stem Cell Hepatocytes in Extracellular Matrix-A Comparative Analysis of Bioartificial Liver Microenvironments. *Stem Cells Transl Med*. 2016 Jul 15. pii: sctm.2015-0235. [Epub ahead of print] PubMed PMID: 27421950.

Jiang B, Suen R, Wang JJ, Zhang ZJ, Wertheim JA, Ameer GA. Tissue Engineering: Mechanocompatible Polymer-Extracellular-Matrix Composites for Vascular Tissue Engineering (Adv. Healthcare Mater. 13/2016). Adv Healthc Mater. 2016 Jul;5(13):1593. doi:

10.1002/adhm.201670067. PubMed PMID: 27384933.

Jiang B, Suen R, Wang JJ, Zhang ZJ, Wertheim JA, Ameer GA. Mechanocompatible Polymer-Extracellular-Matrix Composites for Vascular Tissue Engineering. *Adv Healthc Mater*. 2016 Jul;5(13):1594-605. doi: 0.1002/adhm.201501003. Epub 2016 Apr 24. PubMed PMID: 27109033; PubMed Central PMCID: PMC4979004.

Tsukamoto A, Abbot SE, Kadyk LC, DeWitt ND, Schaffer DV, Wertheim JA, Whittlesey KJ, Werner MJ. Challenging Regeneration to Transform Medicine. *Stem Cells Transl Med*. 2016 Jan;5(1):1-7. doi: 10.5966/sctm.2015-0180. Epub 2015 Nov 25. Review. PubMed PMID: 26607174; PubMed Central PMCID: PMC4704880.

Jiang B, Jen M, Perrin L, Wertheim JA, Ameer GA. SIRT1 Overexpression Maintains Cell Phenotype and Function of Endothelial Cells Derived from Induced Pluripotent Stem Cells. *Stem Cells Dev*. 2015 Dec 1;24(23):2740-5. doi: 10.1089/scd.2015.0191. Epub 2015 Oct 28. PubMed PMID: 26413932; PubMed Central PMCID: PMC4653826.

Uzarski JS, Bijonowski BM, Wang B, Ward HH, Wandering-Ness A, Miller WM, Wertheim JA. Dual-Purpose Bioreactors to Monitor Non-invasive Physical and Biochemical Markers of Kidney and Liver Scaffold Recellularization. *Tissue Eng Part C Methods*. 2015 Oct;21(10):1032-43. doi: 10.1089/ten.TEC.2014.0665. Epub 2015 Jun 26. PubMed PMID: 25929317; PubMed Central PMCID: PMC4593971.

Anthony D. Yang, MD

Publications

Minami CA, Sheils CR, Bilimoria KY, Johnson

JK, Berger ER, Berian JR, Englesbe MJ, Guilamondegui OD, Hines LH, Cofer JB, Flum DR, Thirlby RC, Kazaure HS, Wren SM, O'Leary KJ, Thurk JL, Kennedy GD, Tevis SE, Yang AD. "Process Improvement in Surgery." *Current Problems in Surgery*. 53(2):62-96, 2016.

Sadat LV, Dahlke AR, Rajaram R, Kreutzer L, Love R, Odell DD, Bilimoria KY, Yang AD. "Program Director Perceptions of Surgical Resident Training and Patient Care Under Flexible Duty Hour Requirements." *Journal of the American College of Surgeons*. 374(8):713-27, 2016. PMID: 27234632.

Minami CA, Bilimoria KY, Hansen NM, Strauss JB, Hayes JP, Feinglass JM, Bethke KP, Rydzewski NR, Winchester DP, Palis BE, Yang AD. "National Evaluation of the New Commission on Cancer Quality Measure for Postmastectomy Radiation Treatment for Breast Cancer." *Annals of Surgical Oncology*. 23(8):2446-55, 2016. PMID: 27169774.

Bilimoria, KY, Yang, AD. "Accurately Measuring Hospital Venous Thromboembolism Prevention Efforts." *JAMA*. 315 (19):2113-2114, 2016.

Kreutzer L, Minami CA, Yang, AD. "Patient Page: Preventing Venous Thromboembolism After Surgery." *JAMA*. 315 (19):2136, 2016. PMID: 27187318.

Sheils CR, Dahlke AR, Kreutzer L, Bilimoria KY, Yang AD. "Evaluation of hospitals participating in the American College of Surgeons National Surgical Quality Improvement Program." *Surgery*. Epub April, 2016. PMID: 27302100.

Upcoming Events

Surgical Grand Rounds 2016—2017

Thursdays 7:00AM—8:00AM

09/15/2016

*Mesh suture for high-tension
internal closures*

Gregory Dumanian, MD
6th floor, VC Room—Arkes Building

09/22/2016

Faculty Meeting

Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

09/29/2016

Harold Method Professorship

Mary Hawn, MD
6th floor, VC Room—Arkes Building

10/13/2016

*Gerald Ujiki Education Grand
Rounds & Teaching Awards*

Glenn Regehr, MD
251 E. Huron 3rd floor—
Pritzker Auditorium

10/27/2016

Quality Improvement Presentations
6th floor, VC Room—Arkes Building

11/10/2016

*Hospital Outcomes in Surgical
Care: A Risk-Adjusted Comparative
Analysis*

Donald Fry, MD
6th floor, VC Room—Arkes Building

11/17/2016

*Surgical Outcomes and Quality
Improvement Lectureship*

Margaret (Gretchen) Schwarze, MD
6th floor, VC Room—Arkes Building

12/01/2016

DoS Research Presentations

TBD
6th floor, VC Room—Arkes Building

12/08/2016

Faculty Meeting

Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

01/12/2017

State of the Department

Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

02/16/2017

DoS Research Presentations

TBD
6th floor, VC Room—Arkes Building

03/02/2017

Bergan Lectureship

Lazar Greenfield, MD
251 E. Huron 3rd floor—
Pritzker Auditorium

03/09/2017

Faculty Meeting

Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

03/30/2017

Loyal Davis Lectureship

Taylor Riall, MD
6th floor, VC Room—Arkes Building

04/13/2017

TBD

Kyle Miller, MD
6th floor, VC Room—Arkes Building

04/27/2017

Skeptical Scalpel

Mayo Lectureship
6th floor, VC Room—Arkes Building

05/04/2017

Quality Improvement Presentations
6th floor, VC Room—Arkes Building

05/18/2017

Shields Lectureship

Frank Detterbeck, MD
6th floor, VC Room—Arkes Building

06/09/2017

Edelstone-Bendix Lectureship
Location TBD

SAVE THE DATE:

Department of Surgery Holiday Reception - December 9, 2016

Edelstone-Bendix Resident Research Day & Faculty Retreat - June 9, 2017