



# THE SURGICAL SCOPE

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

## MESSAGE FROM THE CHAIR:

NATHANIEL SOPER, MD, FACS



I am happy to share an overview of the past year from the Northwestern Medicine Department of Surgery. This is truly an exciting time to be part of the academic medical center at the heart of the Northwestern hospital system, as our recent upward trajectory has been breathtaking. We continue to grow and expand as a system, delivering cutting edge surgical care to the Chicago-

land area. The beautiful new Northwestern Medicine Lake Forest hospital is nearing completion and is due to open its doors next spring. Northwestern Memorial Hospital was again included in the U.S. News and World Report honor roll, ranked #13 nationally and #1 in Illinois.

The research enterprise at Northwestern Feinberg School of Medicine is bucking the national trend of sagging NIH funding by continuing its growth, and the Department of Surgery is contributing to that expansion. This past year, the department ranked #10 in the nation in NIH funding according to the Blue Ridge Institute. Our young faculty have made great strides; we currently have 5 K grants funded, with others nearing the funding level. To recognize his research accomplishments and leadership within the department, Dr. Jason Wertheim will take over the reins as Vice Chair for Research this year. The rapid growth of research at FSM has led to a shortage of bench lab space; in late June we celebrated the 'topping off' ceremony for our new state-of-the-art Simpson-Querrey research building, which should open in the next 18 months to allow continued recruitment and growth.

Along with the ongoing national debate regarding health care funding, the other significant challenge on the horizon is this coming year's system-wide transition to a new instance of the

EPIC electronic health record. However, the advantages of instituting a common EHR are compelling and great pains have gone into planning the training and implementation to minimize the anticipated disruption.

I will highlight a few of the notable clinical and academic accomplishments of the past year that are detailed herein. In recognition of his cutting-edge programmatic approach to surgical quality and outcomes, Dr. Karl Bilimoria was recently appointed as Vice President for Quality within the health care system. Dr. Mike McGee has established an ERAS (enhanced recovery after surgery) program within colorectal surgery at NMH. The early results suggest significant improvements in many outcome metrics, and this program will be expanded to other specialties locally and to other hospitals in our system across Illinois. Dr. Ankit Bharat has developed a burgeoning clinical program in pulmonary extracorporeal membrane oxygenation (ECMO) and has discovered a novel group of donor-derived cells that can be targeted to decrease rejection of lung and other transplanted organs. *(continued on next page)*

### IN THIS ISSUE...

- Launch of Novel ERP Pilot
- National Leader in Fetal Surgery Joins Lurie Children's
- Scientists Discover Cause of Deadly Syndrome After Lung Transplantation
- Lurie Children's Recognized as Level 1 Pediatric Surgery Center for Second Time

Dr. Aimen Shaaban was recently recruited from the University of Cincinnati to Lurie Children's Hospital to establish a program in fetal surgery. Dr. Patrick McCarthy, Director of the Bluhm Cardiovascular Institute, recently initiated a program in the West region of minimally invasive cardiac surgery. These, and many other developments have advanced surgical therapy within Northwestern Medicine.

Our educational programs also continue to define excellence. Last year's graduating general surgery residents all matriculated to outstanding subspecialty fellowship programs. Our residency is one of only a handful in the U.S. to have a 100% pass rate on the American Board of Surgery certifying examination over the past 5 years. We were grateful to have outstanding visiting professors and lecturers over the past year who shared their knowledge and wisdom with our faculty and residents: we therefore owe a debt of gratitude to Drs. Mary Hawn, Taylor Riall, Lazar Greenfield, Gretchen Schwarze, Frank Detterbeck, Clyde Barker and the 'Skeptical Scalpel'.

Thus, you can understand my enthusiasm in being granted the opportunity to lead such a great group of faculty and trainees

that constitute our Department of Surgery; it certainly makes coming to work most gratifying. This group of individuals truly buy in to our departmental mission statement: "Safer surgery today, better surgery tomorrow"!

I hope you enjoy this submission and welcome any feedback you may have.

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”.



**84**

Clinical Faculty



**16**

Research Faculty



**42**

Contr. Services/  
Adjunct Faculty

## Providing Excellent Clinical Care...

	Breast	Cardiac	Thoracic	GI	Transplant	Plastic	Trauma	Vascular	Surg Onc
<b>OR Cases</b>	1,366	1,068	889	1,845	901	2,279	713	925	1,856
<b>Clinic Visits</b>	8,734	3,058	2,632	7,857	14,087	15,362	666	4,540	5,273
<b>wRVUs</b>	33,543	62,164	25,393	34,789	57,723	65,023	49,606	41,910	54,899

## Advancing Research & Innovation...



**\$24,079,926**

Total Grant Funding



**\$3,647,115**

Federal Funding



**47**

Active Grants



**38**

Active Clinical Trials



**35**

Unique Patents Filed



**18,764 SF**

Research Space

## Teaching the Surgeons of Tomorrow...

Residents		Fellows	
General Surgery	25	Breast	2
Plastic	14	Trauma/Critical Care	2
Cardiothoracic	6	Transplant	4
Vascular	5	Vascular	4
Preliminary	6	Cardiac/Cardiothoracic	4
		Pediatric	3
<b>Total</b>	<b>56</b>	<b>Total</b>	<b>19</b>



# LAUNCH OF NOVEL ERP PILOT



Michael McGee, MD

In September 2016, a multi-disciplinary team involving NMG colorectal surgeons launched a novel enhanced recovery pathway (ERP) pilot for elective bowel resection patients at Northwestern Memorial Hospital. This novel pathway utilizes evidence-based practice bundles to expedite convalescence, decrease complications, and decrease re-admissions by

employing state-of-the-art technologies and practice to the pre-, intra-, and post-operative care of colorectal patients. The patient-centered project was sponsored by the Academy for Quality and Safety Improvement (AQSI), Surgical Outcomes and Quality Improvement Center Surgical Outcomes, Department of Surgery, and Department of Anesthesiology.

“Surgical patient outcomes are impacted by much more than the surgeon’s hands in the operating room,” according to surgical champion Dr. Michael McGee. “We’ve realized the entire episode of care, beginning at the clinic, to the anesthetic, to the care on the floor, and back to the clinic again may be every bit as important as the actual surgery itself” states Dr. McGee.

The colorectal ERP pilot includes a robust patient education program, creation of a virtual telephone clinic to check in on pre- and post-operative ERP patients, a specialized anesthesia protocol, and features a unique post-operative lidocaine infusion to control post-operative pain. Unlike traditional surgical care, IV fluids and opioids are kept to a minimum which expedites return of bowel function and decreases complications and length-of-stay. Patients are fed shortly after surgery, and time in bed is kept to a minimum. According to Dr. McGee, “We really ask a lot from these patients, but because they are better educated about their role in their surgery, patients are happy.”

Preliminary ERP data has been encouraging. To date, over 100 ERP pilot patients have shown a decreased length-of-stay by approximately 1 day, a decrease in wound infections by 50%, and a decrease in re-admissions by 40%. Additional outcomes including hospital charges and patient experience are being assessed. “Despite the perception that patients may be leaving prematurely and will be re-admitted later, we’re observing just the opposite,” claims Dr. McGee.

Based on early success, the ERP team is considering strategies to expand ERP to all NMH and Northwestern Memorial HealthCare (NMHC) affiliates. “We think we’ve arrived at a scalable and reliable package that can provide turn-key solutions to interested partners,” according to Dr. McGee. Interested surgical services considering developing service-specific ERP are encouraged to contact Dr. McGee.

## The first 7 months of the ERP pilot has impacted:

<b>Length of Stay</b>	<ul style="list-style-type: none"> <li>• Reduction in LOS from 5.9 to 5.1 days (for all patients, laparoscopic and open)</li> <li>• Reduction in LOS from 7.6 days to 6.4 days (for open colorectal resection patients)</li> </ul>
<b>Readmissions</b>	<ul style="list-style-type: none"> <li>• Reduction in 30-day readmission rates from 12.5% to 7.1%</li> </ul>
<b>Surgical Site Infection</b>	<ul style="list-style-type: none"> <li>• Reduction in all SSIs from 9.2% to 4.4%</li> <li>• Reduction in superficial SSIs from 4% to 0%</li> </ul>
<b>ERP Adoption</b>	<ul style="list-style-type: none"> <li>• Approximately 90% of elective colorectal resections are now performed as ERP cases</li> </ul>



## NATIONAL LEADER IN FETAL SURGERY JOINS LURIE CHILDREN'S



Aimen Shaaban, MD

Aimen Shaaban, MD, joined Ann & Robert H. Lurie Children's Hospital of Chicago as Director of The Chicago Institute for Fetal Health and as Professor of Surgery at Northwestern University Feinberg School of Medicine effective July 1, 2017. The Chicago Institute has a multidisciplinary, multi-institutional mandate to provide a complete spectrum of care for the fetus and

mother ranging from prevention of disease to in utero fetal surgery.

"Dr. Shaaban's unique skills are shared by only a handful of pediatric surgeons in the world," said Marleta Reynolds, MD, Surgeon-in-Chief. "He has been studying and practicing fetal surgery for over 20 years, and we are very pleased to have him join the Division of Pediatric Surgery at Lurie Children's. His

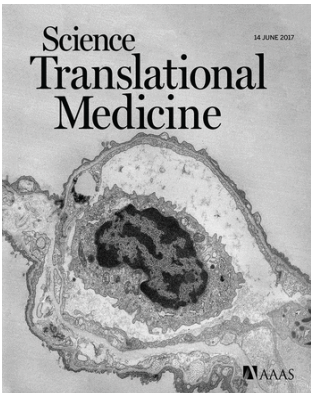
comprehensive skill set, medical expertise, and vision will expand the care we can provide to families through The Chicago Institute for Fetal Health."

Dr. Shaaban is among the most well-respected fetal intervention surgeons in the world. His clinical research contributions surround the diagnosis and treatment of congenital diseases such as spina bifida, congenital diaphragmatic hernia, sacroccocygeal teratoma, congenital pulmonary airway malformation, gastroschisis, omphalocele, twin-twin transfusion syndrome, and fetal bladder outlet obstruction. He has published extensively in these areas and has received support for his basic science research program from the National Institutes of Health.

Dr. Shaaban received his medical degree from the University of Illinois College of Medicine. He completed his general surgery residency at the University of Iowa Hospitals and Clinics and his pediatric surgical residency and post-doctoral fellowship in fetal surgery research at Children's Hospital of Philadelphia.

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## SCIENTISTS DISCOVER CAUSE OF DEADLY SYNDROME AFTER LUNG TRANSPLANTATION



Northwestern Medicine scientists have discovered that a subset of immune cells called nonclassical monocytes (NCMs), previously unknown to reside in the lungs, play a key role in driving primary graft dysfunction (PGD), the leading cause of death after lung transplantation.

The study, published in *Science Translational Medicine*, also

demonstrates that targeting these cells could lead to novel treatments for PGD, a complication that currently impacts more than half of transplant patients.

Ankit Bharat, MD, Associate Professor of Surgery in the Division of Thoracic Surgery, was the principal investigator of the study.

"This is a widespread, lethal problem and the biggest reason why lung transplant patients experience both early death and long-term problems. So if you can fix PGD, you can really fix a lot about transplantation," Dr. Bharat said. "Now we know what causes it, and we can develop a treatment for it."

PGD is a severe form of lung injury that develops when the recipient's neutrophils — white blood cells — are recruited into

the transplanted lung, initiating the inflammatory cascade and causing tissue damage. But while it has been understood that neutrophils were the main effector cells seen in PGD, the mechanisms that drive their influx into the lung were unknown. Further, targeting the patient's neutrophils was not considered a practical strategy for treatment, given that those same cells are critical for defending the body against pathogens.

In the current study, the scientists demonstrated that NCMs hidden in the donor lung are the culprit ultimately responsible for initiating the damaging inflow of neutrophils following transplantation of that lung.

Previously, it had been thought that all donor immune cells are eradicated when the lungs are flushed with a solution prior to transplantation. But the scientists discovered that NCMs, a type of immune cell whose structure and function have only recently been described, are actually retained in the blood vessels of the donor lung.

After identifying these cells in the lungs for the first time, the scientists further demonstrated their fundamental role in developing PGD: NCMs activate a pathway that produces a protein called CXCL2, which acts to attract the damaging neutrophils into the lung. *(continued on next page)*

## SCIENTISTS DISCOVER CAUSE OF DEADLY SYNDROME AFTER LUNG TRANSPLANTATION

The findings suggest that targeting NCMs in donor lungs could potentially prevent the development of PGD.

“This is a clinically-relevant finding, because it would likely be easy to develop a drug that kills these cells at the time of transplant,” said Bharat, also a professor of Medicine in the Division of Pulmonary and Critical Care and a member of the Robert H. Lurie Comprehensive Cancer Center of Northwestern University. “That’s a big strength of our findings: Because these are donor-derived cells, you could administer those drugs to the donor lungs before transplant and prevent any potential side effects to the recipient.”

The NCMs also don’t seem to play a role in a recipient’s ability to fight infection, the scientists found, indicating that the cells could be eradicated without weakening the immune system.

The scientists now plan to investigate developing a drug that would eliminate NCMs during transplantation. Similar therapies have already been demonstrated in their animal models.

Separately, the research also seems to suggest that these monocytes may play a broader role in other forms of lung injury beyond transplantation, including acute respiratory distress syndrome. Those findings are forthcoming in future publications.

Bharat was initially driven to investigate primary graft dysfunction after a lung transplant patient of his developed the syndrome.

“We truly believe here that if a patient develops an unsolvable problem, it should be our commitment and duty to do everything we can to take that problem to our scientific laboratories, find a cure and then bring it back to patients,” Dr. Bharat said. “Hence, while we ensure that patients receive

the best technical expertise in the field of lung transplantation, we also want to advance the field by finding cures for such lethal problems to really make a difference in patient outcomes.”

Bharat and his collaborators followed a similar path two years ago when they identified the mechanism behind hyperammonemia syndrome, a fatal disorder

that affects 5 percent of lung transplant recipients, after it affected one of their patients. The findings, also published in *Science Translational Medicine*, eventually led to a treatment for a deadly syndrome that had plagued the field of lung transplantation since its inception.

“For several years since it was first identified, recipients have been dying of hyperammonemia. And now with this discovery, everyone can be effectively treated,” Bharat said. “I hope that similarly with primary graft dysfunction we can now develop a treatment for this lethal problem.”

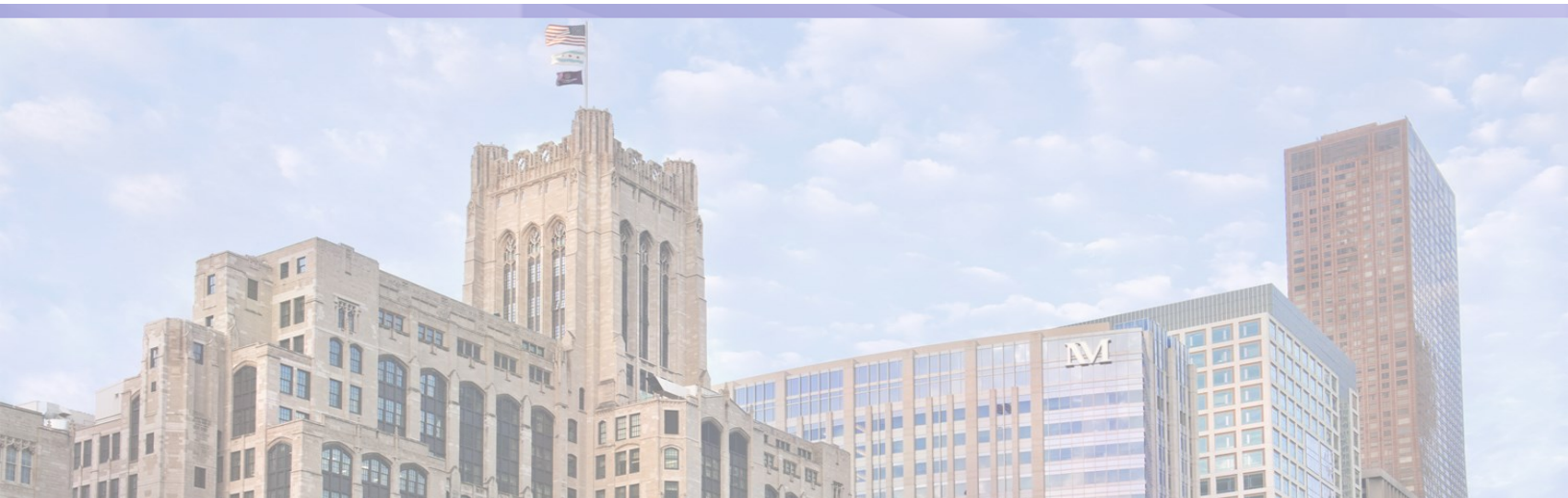
Zhikun Zheng, MD, a former research fellow, and Stephen Chiu, MD, a postdoctoral fellow in the Bharat Laboratory, were the first authors of the study.

This study was supported by National Institute of Health grants T32 DK077662, P01 AG049665, P01 HL071643 and HL125940; the American Society for Transplant Surgery; Department of Defense grant PR141319; the Thoracic Surgery Foundation, the American Lung Association; and the Society of University Surgeons.

*Author: Anna Williams, Feinberg School of Medicine*



*Ankit Bharat, MBBS*



# FACULTY EXPANSION

## NEW FULL-TIME FACULTY



**Derrick Christopher, MD, MBA**, was appointed as Assistant Professor in the **Division of Transplant Surgery** on the Clinician-Educator career track. Dr. Christopher graduated medical school from Vanderbilt University School of Medicine. He also received his MBA from Vanderbilt University Owen School of Management. He completed a general surgery residency at Vanderbilt, where he served as Chief Resident. Dr. Christopher joins Northwestern from University of Michigan, where he completed a fellowship in multi-organ abdominal transplant surgery.



**Marco Ellis, MD**, was appointed as Assistant Professor in the **Division of Plastic Surgery** on the Clinician-Educator career track. Dr. Ellis graduated from Harvard Medical School in 2005. He returns to Northwestern Medicine after completing his integrated plastic surgery residency at Northwestern in 2012 and craniofacial/microsurgery fellowship at Johns Hopkins Hospital in 2013. His primary clinical focus will be cosmetic and reconstructive surgery of the head and neck.



**Joseph Forbess, MD, MBA**, was appointed as Professor in the **Division of Pediatric Surgery**. Dr. Forbess graduated from Harvard Medical School in 1990. He completed an internship and fellowship at Duke University Medical Center, where he also served as chief resident. Prior to joining the department, Dr. Forbess served as the chief of pediatric cardiovascular (CV) surgery for Advocate Children's Hospital and co-director of the Advocate Children's Heart Institute. He also was director of pediatric cardiovascular surgery at Dallas Children's Hospital and Professor of Pediatric Cardiovascular Surgery at the University of Texas-Southwestern. He recently received an executive MBA in healthcare management from the University of Texas at Dallas.



**Caroline Lemoine, MD**, was appointed as Assistant Professor in the **Division of Pediatric Surgery**. Dr. Lemoine graduated medical school from Université de Montréal and completed a general surgery residency at Centre Hospitalier Universitaire de Sherbrooke. Dr. Lemoine finished a fellowship in pediatric general surgery from Centre Hospitalier Universitaire Sainte-Justine and a fellowship in pediatric transplant surgery and advanced pediatric hepatobiliary surgery from McGaw Medical Center of Northwestern. She recently finished a fellowship in abdominal transplant surgery from McGaw Medical Center.



**Ryan Merkow, MD, MS**, was appointed as Assistant Professor in the **Division of Surgical Oncology** on the Investigator career track. Dr. Merkow graduated from the University of Colorado Denver School of Medicine and received his Masters in Health Services and Outcomes Research from Northwestern. He completed surgical residencies at the University of Colorado and the University of Chicago. He joins Northwestern from Memorial Sloan Kettering Cancer Center, where he completed a Complex General Surgical Oncology Fellowship.



## FACULTY EXPANSION

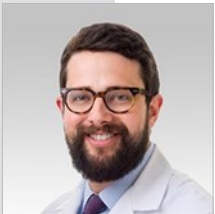
### NEW FULL-TIME FACULTY



**Kyle Mueller, MD, MS, FACS**, was appointed as Health System Clinician in the **Division of GI Surgery**. Dr. Mueller graduated from the University of Illinois College of Medicine and completed a general surgery residency through Feinberg School of Medicine. He was previously affiliated with Northwestern Memorial Hospital and Feinberg as a surgeon in Northwestern Surgical Associates.



**Aimen Shaaban, MD**, was appointed as Professor in the **Division of Pediatric Surgery**. Dr. Shaaban graduated from the University of Illinois College of Medicine and completed a general surgery residency through the University of Iowa Hospital and Clinics. At The Children's Hospital of Philadelphia, he was a post-doctoral fellow in fetal surgery research, William Maul Measey Fellow in fetal surgery, pediatric surgical resident, and Louise Schnauffer Chief Surgical Resident. Dr. Shaaban joins Northwestern from the University of Cincinnati College of Medicine, where he served as Director of the Center for Fetal Cellular and Molecular Therapy.



**Ezra Teitelbaum, MD, MEd**, was appointed as Assistant Professor in the **Division of GI Surgery** on the Clinician-Educator career track. Dr. Teitelbaum graduated from the Mount Sinai School of Medicine and received his Masters in Education from the University of Cincinnati. He completed surgical residencies at George Washington University and Northwestern University. He also completed a research fellowship in minimally invasive surgery and surgical education from Northwestern. He joins the department from Providence Portland Medical Center, where he completed a minimally invasive/foregut surgery fellowship.



**Qiang Wu, PhD**, was appointed as Research Assistant Professor in the **Division of Thoracic Surgery**. Dr. Wu received his PhD from Beijing Medical University in 1997. After finishing his PhD, he was a postdoctoral fellow at the NIAID/NIH and a research associate at the University of Chicago. Most recently, Dr. Wu was a research assistant Professor in the Division of Pulmonary, Critical Care, Sleep, and Allergy at the University of Illinois at Chicago.

## FACULTY PROMOTIONS



**Ankit Bharat, MBBS**, Division of Thoracic Surgery, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



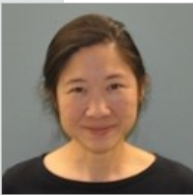
**Mary Hummel, PhD**, Division of Transplant Surgery, was promoted to Research Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Anne-Marie Boller, MD**, Division of GI Surgery, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Catherine Hunter, MD**, Division of Pediatric Surgery, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Jeanette Chung, PhD**, Division of Surgical Oncology, was promoted to Research Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Jason Ko, MD**, Division of Plastic Surgery, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Elisa Gordon, PhD, MPH**, Division of Transplant Surgery, was promoted to Research Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



**Jason Wertheim, MD, PhD**, Division of Transplant Surgery, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.



# RESEARCH

## NEWS & HIGHLIGHTS

The Department of Surgery had a very productive research year in 2017. From September 2016 through June 2017 we submitted 81 proposals with an estimated value of over \$32M. The Department of Surgery has received \$16.2M in awards from September 2016 through June 2017. This is a 27.5% increase in our reporting award amount from where we were last year at this time. 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.

The Department of Surgery at Northwestern Medicine exponentially increased our ranking for 2016 and is now in the top 10 for NIH received funding (Figure 1). Additionally, our productivity has surpassed prior years as measured by our research expenditures (Figure 2).

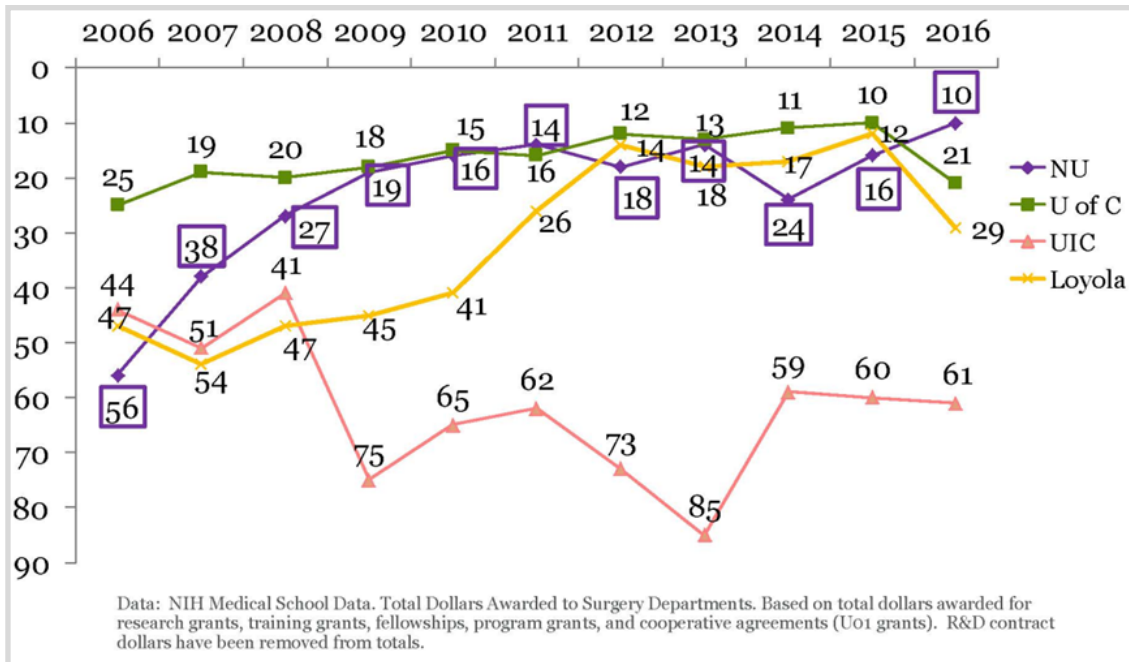


Figure 1. Local AMC Surgery Department NIH Rankings

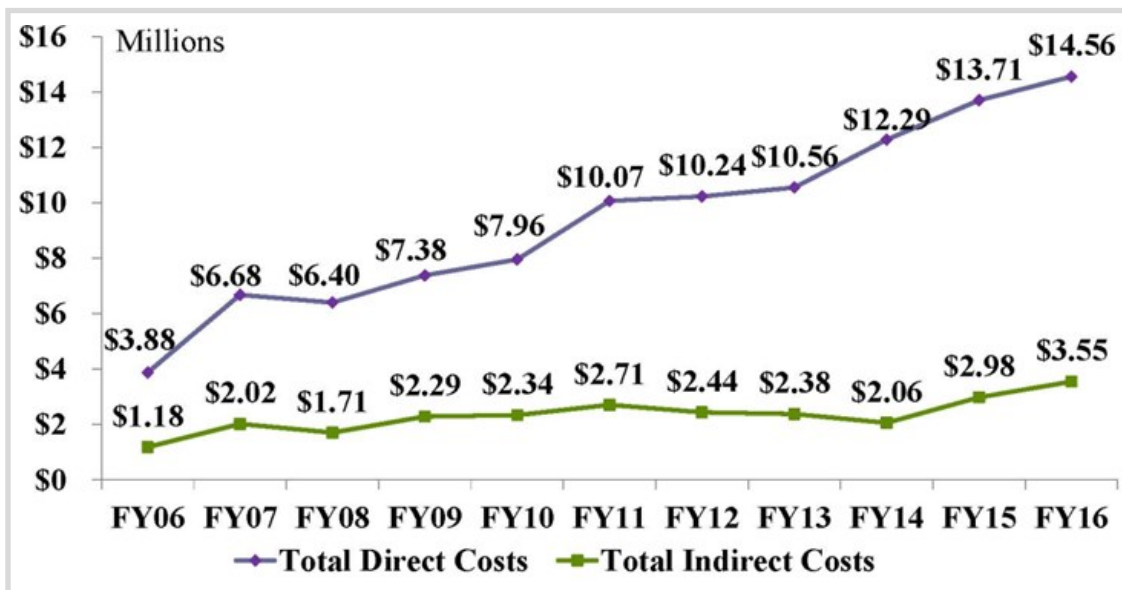


Figure 2. Total Research Expenditures



# RESEARCH

## NEWS & HIGHLIGHTS

UNIQUE PATENTS FILED		Total
Ankit Bharat	1 Divisional, 1 Provisional	2
Guillermo Ameer	5 Provisional, 4 Nationalization	9
Jason Ko	1 Continuation	1
Jason Wertheim	1 Utility	1
Joseph Leventhal	1 Nationalization	1
Michael Abecassis	9 Nationalization, 1 Provisional	10
Ramille Shah	7 Nationalization, 1 PCT, 1 Provisional	9
Seema Khan	1 Utility	1
Xiaomin Zhang	1 Continuation	1
	<b>Total Filed</b>	<b>35</b>

## SIGNIFICANT NEW FEDERAL AWARDS

- ◇ **Swati Kulkarni, MD**—NCI R01 “Evaluating the Protective Effect of a Tissue Selective Estrogen Complex (TSEC) in women with newly Diagnosed Ductal Carcinoma In Situ”
- ◇ **Seema Khan, MD**—NCI Federal Contract “Phase IIB Trial of Neoadjuvante Oral Tamoxifen versus Transdermal 4-hydroxytamoxifen in Women with DCIS of the Breast”
- ◇ **Michael Abecassis, MD**—NIDDKD T32 “Transplant Surgery Scientist Training Program”
- ◇ **Jason Wertheim, MD, PhD & Hekman**—NHLBI F32 “Modulating Senescence in Induced Pluripotent Stem Cell-Derived Endothelial Cells for Vascular Disease Modeling and Therapy”
- ◇ **Jason Wertheim, MD, PhD & Su**—NIDDKD F31 “Microenvironmental Signaling Cues to Model Glomerular Endothelial Cell and Podocyte Interactions”

# RESEARCH

## NEWLY FUNDED PROJECTS

### Breast Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Khan	Seema	Preclinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents	\$250,000	10/1/2016	9/30/2017	New	Breast Cancer Research Foundation
Khan	Seema	Shenzhen "Three-Famous Health Project" program	\$143,000	7/26/2016	6/30/2021	New	Shenzhen People's Hospital
Khan	Seema	A randomized, double-blind, placebo-controlled study of 4-hydroxymoxifen topical gel in women with mammographically dense breasts	\$65,976	9/19/2016	9/18/2018	New	National Institutes of Health
Khan	Seema	Flaxseed Lignan as a Prevention Strategy for Pre-Menopausal Women at High Risk for Development of Breast Cancer	\$30,000	11/1/2011	9/23/2017	Supplement	Susan G. Komen Breast Cancer Foundation
Khan	Seema	Progesterone Signaling and Blockade in Human Breast Tumorigenesis and Prevention	\$396,152	8/3/2015	7/31/2020	Noncompeting Continuation	National Institutes of Health
Khan	Seema	Cancer Prevention Agent Development Program: Early Phase Clinical Research	\$624,237	9/24/2012	9/23/2017	Noncompeting Continuation	National Institutes of Health
Khan	Seema	N01 Contract: Task Order 11, NU-Cost Reimbursable	\$630,210	9/24/2012	9/23/2017	Noncompeting Continuation	National Institutes of Health
Khan	Seema	N01 Contract: Task Order 5, NU-Cost Reimbursable	\$77,947	9/24/2012	9/23/2017	Noncompeting Continuation	National Institutes of Health
Khan	Seema	N01 Contract: Task Order 9, NU Base-Cost Reimbursable	\$316,791	9/24/2012	9/23/2017	Noncompeting Continuation	National Institutes of Health
Kulkarni	Swati	Preventing Tumor Progression in Women with High-Risk DCIS	\$37,420	9/1/2016	8/31/2019	New	University of California
Kulkarni	Swati	Evaluating the Protective Effect of a Tissue Selective Estrogen Complex (TSEC) in Women with Newly Diagnosed Ductal Carcinoma In Situ	\$2,649,685	8/1/17	7/31/22	New	National Institutes of Health
Kulkarni	Swati	Alterations in Gene Expression and ER-Alpha Binding Profile in Mammary Tissue After Bariatric Surgery	\$50,000	9/1/17	8/31/18	New	Northwestern Memorial Healthcare

### Clinical Trials Unit

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Eskandari	Mark	Fixed Price Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial (N-TA3CT)	\$57,690	8/1/2012	2/28/2017	Noncompeting Continuation	National Institutes of Health
Eskandari	Mark	AAA Geometric Surrogates - Geometric Surrogates for Clinical Management of Abdominal Aortic Aneurysms	\$59,249	4/1/2017	3/31/2019	New	National Institutes of Health
Grady	Kathleen	Pediatric Heart Transplantation: Transitioning to Adult Care	\$67,665	7/15/2013	5/31/2017	Noncompeting Continuation	National Institutes of Health
Grady	Kathleen	Mechanical circulatory support: Measures of adjustment and quality of life	\$719,919	3/7/2016	2/28/2021	Noncompeting Continuation	National Institutes of Health
Hoel	Andrew	Prot #SSB-11-02: Evaluation of the GORE® TAG® Thoracic Branch Endoprosthesis (TBE Device) in the Treatment of Lesions of the Aortic Arch and Descending Thoracic Aorta	\$74,553	2/14/2017	2/14/2020	New	W.L. Gore and Associates
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	5/6/2016	5/6/2019	New	Terumo Corporation
Malaisrie	S. Chris	Prot# IP-0017-16: A Prospective, Multicenter, Non-Blinded, Non-Randomized Study of the RelayPro Thoracic Stent-Graft in Subjects with an Acute, Complicated Type B Aortic Dissection	\$49,715	6/16/2017	6/16/2020	New	Werfen Group
Malaisrie	S. Chris	P3 AVIV Registry - A Prospective, Single-Arm, Multicenter Study to Investigate the Safety and Effectiveness of SAPIEN 3 Transcatheter Heart Valve Implantation in Patients With a Failing Aortic Bioprosthetic Valve	\$960,634	5/16/2017	5/16/2020	New	Edwards Lifesciences Corporation

# RESEARCH

## NEWLY FUNDED PROJECTS

### GI Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Hungness	Eric	Effect of Laparoscopic Sleeve Gastrectomy on Esophagogastric Junction Distensibility	\$4,100	11/1/2015	10/31/2017	Noncompeting Continuation	American Society for Metabolic and Bariatric Surgery
Stulberg	Jonah	System-Level Implementation to Reduce Excess Opioid Prescribing in Surgery	\$711,000	9/1/17	8/31/20	New	National Institutes of Health

### Surgical Oncology

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Bilimoria	Karl	Evaluating the Implementation of a Multi-Component Quality Collaborative	\$238,791	3/1/2016	12/31/2020	Noncompeting Continuation	Department of Health and Human Services
Bilimoria	Karl	Illinois Surgical Quality Improvement Program Conference Funding	\$7,500	1/9/2017	1/8/2018	New	Medtronic, Inc.
Bilimoria	Karl	FIRST Trial	\$550,000	1/1/2016	12/31/2017	New	Accreditation Council for Graduate Medical Education
Bilimoria	Karl	ILLINOIS SURGICAL QUALITY IMPROVEMENT COLLABORATIVE (ISQIC)	\$3,410,125	4/14/2014	8/31/2018	Noncompeting Continuation	Health Care Service Corporation
Bilimoria	Karl	Using Patient Outcomes to Inform Surgical Education	\$7,784	6/1/2016	5/31/2017	New	National Institutes of Health
Johnson	Julie	Reframing healthcare: A mixed methods study of patient experiences and outcomes integrating social and medical services for chronic conditions	\$96,114	12/15/2015	12/14/2018	New	Robert Wood Johnson Foundation
Yang	Anthony	Implementation of Optimal Venous Thromboembolism Prophylaxis in Diverse Hospitals	\$40,000	7/1/2016	6/30/2018	New	American College of Surgeons

### Plastic Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Dumanian	Gregory	Improving the Lives of Wounded Warriors: Assessing the Viability and Effectiveness of Upper Limb Transplantation	\$776,587	4/1/2011	3/31/2017	Noncompeting Continuation	Northwestern Memorial Healthcare
Dumanian	Gregory	(Frankel Foundation Transplant Grants) Refinement and Testing of a Novel Direct Skeletal Attachment System to Improve the Lives of Wounded Warriors	\$100,000	4/1/2016	3/31/2021	New	Northwestern Memorial Healthcare
Dumanian	Gregory	Application of Targeted Reinnervation for People with Transradial Amputation	\$8,664	11/1/2014	6/30/2017	Noncompeting Continuation	National Institutes of Health
Galiano	Robert	Prospective trial evaluating the long-term outcomes associated with the use of MTF allograft cartilage in cosmetic and reconstructive rhinoplasty procedures	\$130,000	10/20/2016	10/19/2018	New	Musculoskeletal Transplant Foundation, Inc.
Mustoe	Thomas	Locally applied statins to reduce scarring	\$80,306	9/22/2013	9/22/2017	Option Years	Department of the Army



# RESEARCH

## NEWLY FUNDED PROJECTS

### Thoracic Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Bharat	Ankit	High Carbon Dioxide Impairs Lung Repair	\$40,000	7/1/2016	6/30/2020	Noncompeting Continuation	Thoracic Surgery Foundation for Research and Education
Bharat	Ankit	Lung-restricted antibodies lead to lung allograft rejection	\$20,000	7/1/2017	6/30/2018	New	International Society for Heart & Lung Transplantation
Bharat	Ankit	High carbon dioxide impairs lung repair	\$162,086	8/1/2015	5/31/2020	Noncompeting Continuation	National Institutes of Health
Odell	David	Development of a Novel Lung Cancer Quality Improvement Collaborative in Illinois	\$50,000	7/1/2016	6/20/2018	New	American Association for Thoracic Surgery
Odell	David	A Learning Collaborative Model for the Study of Lung Cancer	\$40,000	7/1/17	6/30/19	New	American College of Surgeons
Odell	David	Development of a Novel Lung Cancer Collaborative in Illinois	\$80,000	7/1/17	6/30/19	New	The Thoracic Surgery Foundation

### Vascular Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Eskandari	Mark	Bard Vascular Surgery Fellowship 2016-2017	\$15,000	7/1/2016	6/30/2018	Noncompeting Continuation	Cook Group Inc.
Ho	Karen	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$100,000	6/1/2016	5/31/2021	New	Society for Vascular Surgery Foundation and the American College of Surgeons
Ho	Karen	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$160,488	1/25/2016	12/31/2020	Noncompeting Continuation	National Institutes of Health
Ho	Karen	Gut Microbe-Dependent Metabolites as Modulators and Biomarkers of Atherosclerosis	\$50,000	1/1/2017	12/31/2018	New	Vascular Cures
Ho	Karen	Student Award in support of Kelly Wun, for "Modulation of Neointimal Hyperplasia after Arterial Injury by Microbe-Derived Propionate"	\$3,000	5/1/2017	4/30/2018	New	Society for Vascular Surgery
Pearce	William	Vascular Surgery Scientist Training Program	\$291,366	5/1/2014	6/30/2019	Noncompeting Continuation	National Institutes of Health
Rodriguez Alvarez	Heron	Prot #771-0016: The LUCY Study: Trivascular Evaluation of Females who are Underrepresented Candidates for Abdominal Aortic Aneurysm Repair	\$110,421	11/23/2015	11/23/2018	New	TriVascular, Inc.

### Pediatric Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Hunter	Catherine	Defining bacterial virulence, cAMP and PKA in necrotizing enterocolitis	\$149,472	8/1/2015	6/30/2020	Noncompeting Continuation	National Institutes of Health
Ghomrawi	Hassan	Quantifying Underuse and Overuse of Knee Replacement	\$323,144	12/1/2016	4/30/2018	Noncompeting Continuation	National Institutes of Health

# RESEARCH

## NEWLY FUNDED PROJECTS

### Transplant Surgery

Last Name	First Name	Proposal Title	Amount	Start Date	End Date	Award Type	Sponsor
Abecassis	Michael	Mechanisms of MCMV reactivation in immunodeficient transplant recipients	\$442,961	7/1/2014	6/30/2018	Noncompeting Continuation	National Institutes of Health
Abecassis	Michael	Transplant Surgery Scientist Training Program	\$325,846	7/1/2017	6/30/2022	New	National Institutes of Health
Abecassis	Michael	Proteogenomic Monitoring and Assessment of Kidney Transplant Recipients	\$250,000	10/8/2014	4/1/2018	Noncompeting Continuation	Transplant Genomics, Inc.
Abecassis	Michael	Supplement for Kofi Atiemo	\$88,743	7/1/2016	6/30/2017	Noncompeting Continuation	National Institutes of Health
Gordon	Elisa	A Culturally Charged Targeted Transplant Program to Increase Live Donation in Hispanics	\$704,066	3/20/2016	2/28/2021	Noncompeting Continuation	National Institutes of Health
Gordon	Elisa	Ethical and Sociocultural Implications of Genetic Testing in Transplantation	\$156,377	6/14/2016	5/31/2018	New	National Institutes of Health
Gordon	Elisa	Promotoras de Donación: Leveraging Lay Educators to Increase Donor Registration in Older Hispanic Women	\$61,352	9/1/2016	8/31/2019	New	Department of Health and Human Services
Gordon	Elisa	Intergovernmental Personnel Act Agreement for Elisa Gordon	\$14,840	12/1/2015	9/30/2017	Competing Renewal	Veterans Health Administration
Gordon	Elisa	Dissemination of a Mobile Web App on Increased Risk Donor Kidneys	\$4,500	1/1/2016	12/31/2016	Supplement	Gift of Hope Organ & Tissue Donor Network
Ladner	Daniela	Retrospective, EMR-based Study Examining the Clinical and Economic Burden Associated with Donor Specific Antibody (DSA) Formation among Kidney Transplant Patients	\$60,000	1/20/2016	5/31/2017	Noncompeting Continuation	Astellas Pharma Inc.
Leventhal	Joseph	Induction of Donor Specific Tolerance in Recipients of Living Kidney Allografts by Donor Stem Cell Infusion	\$2,334,840	7/1/2014	6/30/2018	Noncompeting Continuation	Novartis AG
Leventhal	Joseph	Clinical Transplant Tolerance Induction by the Use of Ex Vivo Expanded Antigen Specific Regulatory T Cells	\$300,000	11/30/2016	11/29/2017	New	Dr. Ralph and Marian Falk Medical Research Trust
Shah	Ramille	Multifunctional Printed Scaffolds for Enhancing Hepatocyte Viability and Function	\$130,325	8/1/2016	7/31/2018	Noncompeting Continuation	National Institutes of Health
Wertheim	Jason	Optimization and control of hepatocyte activity via biofunctional modification	\$161,748	5/1/2014	3/31/2019	Noncompeting Continuation	National Institutes of Health
Wertheim	Jason	Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune assessment of a rodent model of extremity transplantation	\$613,156	6/1/2015	5/31/2019	Noncompeting Continuation	Northwestern Memorial Healthcare
Wertheim	Jason	Modulating senescence in induced pluripotent stem cell-derived endothelial cells for vascular disease modeling and therapy	\$63,078	7/1/2017	6/30/2020	New	National Institutes of Health
Wertheim	Jason	Human Organ Project and AST Transplantation and Immunology Research Network (TIRN) Research Grant: Defining Functional Standards in Bioreactor-Based Organ Engineering	\$50,000	7/1/2016	6/30/2017	New	American Society of Transplantation
Wertheim	Jason	Engineering Podocyte Microenvironments	\$50,000	7/1/2016	6/30/2018	New	American Society of Transplantation
Zhang	Zheng Jenny	Operating Microscope System for Translational Research in Regenerative and Transplant Medicine	\$71,750	6/1/2017	5/31/2018	New	Department of the Navy
Leventhal	Joseph	T Cell Receptor Repertoire Analysis as a Biomarker for Predicting Graft Rejection in Transplant Recipients	\$999,297	9/30/17	9/29/20	New	U.S. Army Medical Research and Materiel Command
Zhang	Zheng Jenny	Operating Microscope System for Translational Research in Regenerative and Transplant Medicine	\$71,000	6/1/17	5/31/18	New	Office of Naval Research

# SURGICAL EDUCATION

## UPDATES & HIGHLIGHTS

### Medical Student Education

The FSM class of 2017 included seven students who matched into categorical general surgery residency positions in the following programs: UCLA Medical Center-CA, Icahn School of Medicine at St Lukes-Roosevelt, Montefiore Medical Center, Carolinas Medical Center, LSU School of Medicine, Naval Medical Center Portsmouth, and Icahn School of Medicine at Mount Sinai. An additional fourteen students from the class of 2017 matched into surgical sub-specialties. Congratulations to Kevin Blair, recipient of the 2016 Julius Conn Award, given annually to the highest achieving surgery clerkship student based upon academic performance and professionalism.

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 (LDSIG) 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 and peg transfer sessions. This past year, Dr. Amy Halverson established a Book Club series through LDSIG. Additionally, a formalized OR shadowing process has been established as well as a trauma call experience for first and second year medical students. Over seventy students have participated in the trauma call experience thus far. Last fall, the Department of Surgery held a lunch series through LDSIG for first and second year students to talk to faculty about their career as surgeons. We want to thank the following faculty for being the featured guests at the lunches: Drs. Khan, Pham, Posluszny, Hunter, Kulkarni, Shoup, Soper, DeCamp, Koller, Fronza, Meyerson, Stulberg, and Fryer.

The Surgical Sub-Internship continues to grow in popularity among students. The sub-I is led by Dr. Abigail Tarbox and Sarah Patrick (who joined the sub-I 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. The sub-internship team was also responsible for coordinating the Surgery Capstone for fourth year students who matched into a surgical or surgical sub-specialty residency. We are grateful for the assistance of all the residents and faculty who took the time to teach the medical students during the Boot Camp portion of the Surgery Capstone.



# SURGICAL EDUCATION

## UPDATES & HIGHLIGHTS

### 2017 Edelstone-Bendix Residents' Research Day

The 2017 Edelstone-Bendix Residents' Research Day was held on Friday, June 9, 2017. This annual event featured presentations by residents and fellows, showcasing their outstanding accomplishments in both clinical and basic science research. The visiting professor this year was Dr. Clyde F. Barker, Donald Guthrie Professor of Surgery at the University of Pennsylvania. Dr. Barker met with several residents and faculty, served as a judge for the research presentations, and lectured about the History of Transplantation: A Chicago Story. Edelstone-Bendix Day concluded with the graduation dinner and awards ceremony which was held at The Drake 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 2017 Alan B. Kanavel Surgical Scholar Award is awarded for exceptional accomplishments achieved in the research laboratory. This year's recipient was Dr. Michael Wandling, 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 Dr. Ravi Rajaram, who was also awarded a monetary prize for his 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:** Elizabeth DesJardin, MD
- ◇ **Resident Basic Science Research Competition:** Stephen Chiu, MD
- ◇ **Resident Clinical Research Competition:** Ramiro Fernandez, MD



L-R: Dr. Nathaniel Soper, Dr. Tyler Cohn, Dr. Juaquito Jorge, Dr. Brett Duncan, Dr. Ravi Rajaram, Dr. Shari Meyerson

# SURGICAL EDUCATION

## UPDATES & HIGHLIGHTS

### 2017 Edelstone-Bendix Residents' Research Day (cont.)

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.

#### Resident as Teacher Awards

Brian Brajcich, MD (PGY-1)	Brett Duncan, MD (PGY-5)
Azad Karim, MD (PGY-1-Thoracic)	Ravi Rajaram, MD (PGY-5)
William Phillips, MD (PGY-2)	Chad Purnell, MD (PGY-5-Plastics)
Tarik Yuce, MD (PGY-2)	Sumanas Jordan, MD (PGY-6-Plastics)
Eriberto Michel, MD (PGY-3-Thoracic)	Michael Gart, MD (PGY-6-Plastics)
Ben Deschner, MD (PGY-4)	

#### Fellow as Teacher Awards

Ashish Jain, MD (Vascular Surgery)
Micah Girotti, MD (Vascular Surgery)
Jonathan Bean, MD (Surgical Critical Care)



L-R: Dr. Eriberto Michel, Dr. Azad Karim, Dr. Brian Brajcich, Dr. Ben Deschner, Dr. Ravi Rajaram, Dr. Brett Duncan, Dr. Jonathan Fryer, Dr. Will Phillips, Dr. Tarik Yuce, Dr. Nathaniel Soper

# SURGICAL EDUCATION

## UPDATES & HIGHLIGHTS

### 2017 Edelstone-Bendix Residents' Research Day

We congratulate the following 2017 Department of Surgery graduates who were recognized at the Edelstone-Bendix Day awards ceremony:

<b>General Surgery</b>
Tyler Cohn
Juaquito Jorge
Brett Duncan
Ravi Rajaram
<b>Breast Surgery</b>
Elizabeth DesJardin
Sasa-Grae Espino
<b>Trauma/Critical Care Surgery</b>
Joliette Barnum
Jonathan Bean
<b>Transplant Surgery</b>
Caroline Lemoine
Matthew Sanders
<b>Vascular Surgery</b>
Micah Girotti
Courtney Morgan
<b>Pediatric Critical Care Surgery</b>
Jocelyn Burke
<b>Pediatric Surgery</b>
Nathaniel Koo

Thank you to the faculty, residents, and staff who made the Edelstone-Bendix Day such a great success. Congratulations to all our participants, winners, and graduates! We look forward to the 2018 Edelstone-Bendix Day on Friday, June 15, 2018.

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

#### Preliminary Surgery

Nkoli Akaolisa	Jory Bond
Martin Errea	Simer Grewal
Kimberly Helseth	Matt Pilecki

#### General Surgery

Weston Bertot	Allison Blake
Rachel Joung	Bona Ko
William Readdy	

#### Thoracic Surgery

Bart Imielski	Andre Son
Austin Ward	

#### Cardiac Surgery

Daniel Holloway	Yuji Kaku
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#### Trauma & Critical Care Surgery

Kulsoom Laeeq	Rahul Rasheed
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#### Breast Surgery

Batul Al-Zubeidy	Michelle Han
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#### Transplant Surgery

Rebecca Craig-Shapiro	
Kofi Atiemo	

#### Vascular Surgery

Andres Guerra	Gabriel Wallace
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#### Plastic Surgery

Jonathan Massie	Julian Klosowia
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#### Pediatric Critical Care Surgery

Stewart Carter	
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#### Pediatric Surgery

Chethan Sathya	
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# SURGICAL EDUCATION

## Excellence in Teaching Awards

The "Excellence in Teaching" awards recognize faculty members who excel at supporting resident and medical student learning. We are grateful to these surgeons for their efforts in distinguishing themselves as outstanding educators. The 2016-2017 Excellence in Teaching award winners are:



**Kevin Bethke\***



**Dina Elaraj**



**Jeffrey Fronza**



**Jonathan Fryer\***



**Amy Halverson\***



**Karen Ho**



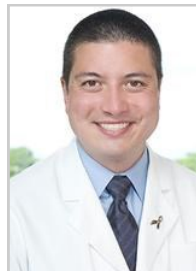
**Nabil Issa\***



**Seema Khan**



**Shari Meyerson\***



**Clark Schierle**



**Michael Shapiro\***



**Nathaniel Soper\***



**Jonah Stulberg**



**Cord Sturgeon\***



**Jeffrey Wayne\***



**Anthony Yang**

*\*These faculty members have been awarded the Excellence in Teaching Award a minimum of five times. They are members of the Teaching Wall of Honor.*





L-R: Dr. Nora Hansen (Chief), Dr. Seema Khan, Dr. Swati Kulkarni, Dr. Kevin Bethke

## Clinical

The Division of Breast Surgery has continued to enjoy great success in 2017. Our team not only demonstrated strong clinical performance, as achieved by performing ahead-of-budget for divisional wRVUs, we also maintained strong performance with respect to our patient satisfaction (Likelihood to Recommend, or LTR), performing at the 94<sup>th</sup> percentile nationally. The Lynn Sage Comprehensive Breast Center, led by Dr. Nora Hansen (Chief, Division of Breast Surgery), is accredited by the National Accreditation Program for Breast Center (NAPBC), which recognizes our achievement in collaborative, multi-disciplinary care planning for our patients, and continues this year to be the highest volume NAPBC-accredited program in Chicago and Illinois.

The Division of Breast Surgery has used 2017 to focus on further development and optimization of our High Risk Breast Program in the Central Region, as well as partnering with colleagues across the Northwestern system to develop system-wide best practices. This work will continue in 2018 as we look to implement optimized processes for our high risk patients.

Finally, in his role system role as the Surgical Director of Regional Breast Cancer Care, Dr. Bethke has been a valuable resource to the breast programs across the system. He continues to complete reviews of the breast programs at Northwestern's affiliate hospitals and identify ways to ensure best-in-class patient care across the health system. This year, under his direction, breast became the first disease group to share our monthly tumor board with another NM hospital, which has been a great success!

## Research

Dr. Seema A. Khan, Professor of Surgery, and the Bluhm Family Professor of Cancer Research, Co-Leader Breast Cancer, continues to lead 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. *(continued on next page)*

### Research (cont.)

She also secured the competitive renewal of “Preclinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents with BCRF”. She is the project leader of a project studying the lipid metabolism markers in breast tissue and breast cancer risk. This project is part of the Avon Foundation for Breast Cancer Research and Care Program at the Robert H. Lurie Comprehensive Cancer Center of Northwestern University. Finally, she opened a study titled “A Randomized, Double-blind, Placebo-controlled Study of 4-hydroxytamoxifen Topical Gel in Women with Mammographically Dense Breast” as a consortium thru University of Texas MD Anderson NCI.

Dr. Swati Kulkarni, Associate Professor of Surgery in the Division of Breast Surgery, has realized a number of accomplishments in her second year at Northwestern. She received an NIH R01 award from the National Cancer Institute for her project entitled, “Evaluating the protective effect of a tissue selective estrogen complex (TSEC) in women with newly diagnosed ductal carcinoma in situ” for a total of \$2,649,685.00 for 5 years. In addition, she received funding from the Lynn Sage Foundation for her project “Alterations in Gene Expression and ER-Alpha Binding Profile in Mammary Tissue after Bariatric Surgery” to continue her work on an investigator-initiated trial to investigate the relationship between obesity and breast cancer.

### Education

Dr. Sasa-Grae Espino and Dr. Elizabeth DesJardin were the graduating Lynn Sage Breast fellows during fiscal year 2017 and we wish them great success in their future endeavors. Dr. Grae accepted a position at the Southside Regional Medical Center in Petersburg, VA and Dr. DesJardin has rejoined Maine Medical Center in Portland, ME.

On August 1, 2017, Dr. Michelle Han and Dr. Batul Al-zubeidy joined the Division of Breast Surgery as the 2017-2018 Lynn Sage Breast Fellows. Dr. Al-zubeidy joins Northwestern Medicine from Howard University Hospital and Dr. Han comes to us from University of Rochester Medical Center. The Lynn Sage Breast Fellowship continues to provide a unique, multi-disciplinary opportunity for physicians wishing to pursue breast surgery.



*Batul Al-zubeidy*



*Michelle Han*



### Front row (L-R):

Dr. Amy Halverson  
 Dr. Jonah Stulberg  
 Dr. Nathaniel Soper  
 Dr. Anne-Marie Boller  
 Dr. Scott Strong (Chief)

### Back row (L-R):

Dr. Alex Nagle  
 Dr. Eric Hungness  
 Dr. Ezra Teitelbaum  
 Dr. Michael McGee  
 Dr. Kyle Mueller

## GI Surgery Division Reorganization

As the Division of GI and Oncologic Surgery grew in faculty and staff, the physician leadership team took the opportunity to re-align subspecialists with the Robert H. Lurie Comprehensive Cancer Center (RHLCCC) and the Digestive Health Center (DHC). Under the leadership of Dr. Strong, the following surgical subspecialties were moved to the newly formed Division of GI Surgery and further aligned with the Digestive Health Center: bariatric surgery; colon and rectal surgery; general surgery; and upper GI surgery. Endocrine and thyroid surgery was transitioned to Surgical Oncology under the leadership of Dr. Jeffrey Wayne (Division Chief of Surgical Oncology).

## Research

Jonah Stulberg, MD, PhD, MPH, received a National Institutes of Health (NIH) R34 grant award for his project: *System-Level Implementation to Reduce Excess Opioid Prescribing in Surgery*. The 3-year grant totaling \$711,000 aims to identify and implement evidence-based practices to address the opioid crisis.

- Background:** The United States is in the midst of an opioid crisis so severe it has been declared a national emergency. Following surgery, surgeons frequently prescribe far more opioid pills than patients end up using to control their pain. These excess pills are too often consumed for non-medical indications or diverted to individuals other than the intended user. The Digestive Health Center (DHC) intends to be a national leader by finding solutions to the current crisis, and we received funding from the National Institute on Drug Abuse (NIDA) to develop and implement an intervention to reduce opioid prescribing following surgery across all Northwestern hospitals.
- Plan:** Several evidence-based practices exist to effectively manage post-surgical pain while reducing opioid prescribing, but they are significantly underutilized. These best practices include: (1) Use of non-opioid analgesics as first-line therapy with opioid supplementation, if needed; (2) For patients, setting adequate pain management expectations and understanding of the benefits and potential risks of various pain medications; (3) Use by providers of their state Prescription Monitoring Programs (PMP) prior to writing any opioid prescription to identify and address duplicative opioid prescriptions; and (4) Familiarization of providers with evidence on alternatives to opioid analgesics for pain management.

## Research (cont.)

- Goal:** The National Institutes of Health (NIH) funded study will implement these evidence-based practices, using a multi-component intervention. The Minimizing Opioid Prescribing in Surgery (MOPiS) intervention includes: (1) electronic health record (EHR)-based decision support tools; (2) prescriber education; (3) standardized patient education materials; and (4) automated provision of prior opioid prescription information through the Illinois Prescription Monitoring Program (IL-PMP). With this funding, we will evaluate the effectiveness of the intervention to facilitate dissemination of MOPiS in hospitals throughout the United States.

## Digestive Health Center

On November 21, 2016, the Digestive Health Center’s clinic and outpatient endoscopy moved to its new home on the 16th floor of the Lavin Family Pavilion (259 E. Erie). The new location afforded the DHC with the opportunity to provide a truly multi-disciplinary center by co-locating the outpatient clinics and endoscopy (originally separated by 13 floors and two different patient elevator banks). Designed with patient and provider flow in mind, the new DHC has 12 endoscopy suites, 36 prep/recovery bays, 2 motility procedure rooms, 33 exam rooms, and 8 consult rooms in about 34,000 square feet of space. Furthermore, the DHC leadership team took this opportunity to restructure its programs in an effort to increase collaboration across DHC subspecialties. Now, both medical and surgical subspecialties work in the same clinical hallway and share the same workrooms. For example, a patient who has achalasia or reflux disease is able to see both an esophageal gastroenterologist and foregut surgeon on the same day during a coordinated visit.



Ribbon Cutting Ceremony: Dr. Stephen Hanauer (DHC Medical Director) & Dr. Scott Strong (DHC Surgical Director)



DHC Endoscopy Recovery Area



Lavin Family Pavilion



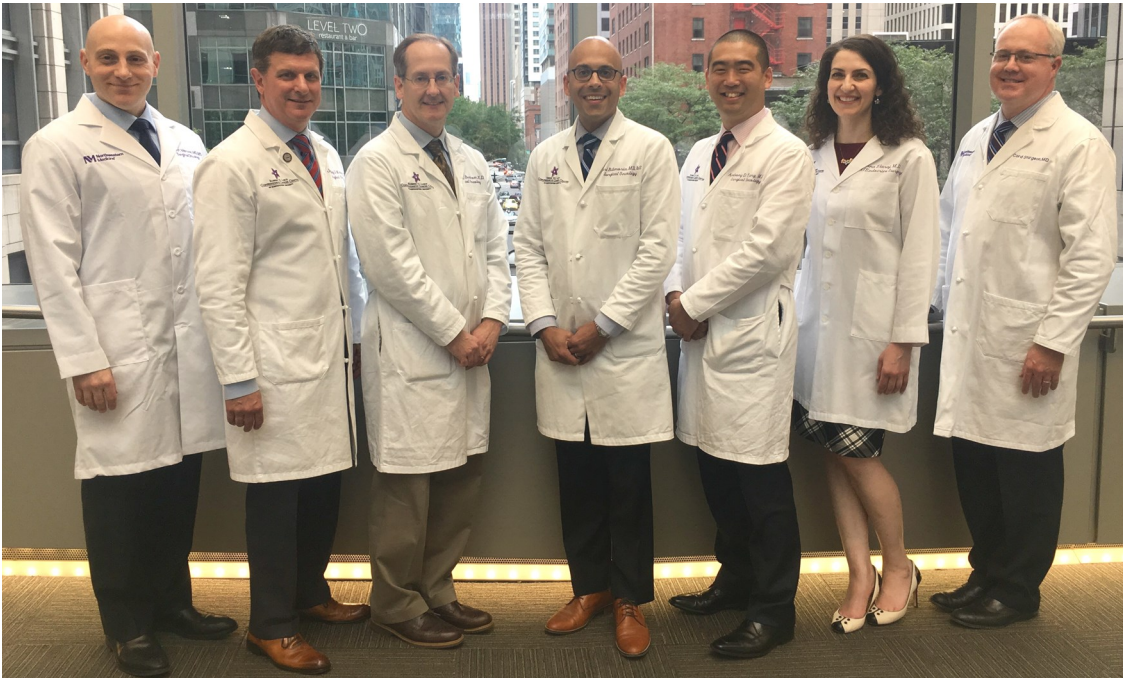
### Digestive Health Foundation

In its second year of being established as a 501(c)3, the Digestive Health Foundation continued its success with fundraising and support for the DHC. The inaugural Envision Gala held in 2016 honoring Jayne and Dr. Stephen Hanauer raised \$1.2M to support the DHC in medical research and education. The 2017 Envision Gala, held on June 3, 2017, (chaired by Janet and Dr. Michael Ruchim) raised more than \$1.6M to fund DHC initiatives including a biorepository. Since its inception, the DHF funded:

- The grand opening event of the Digestive Health Center on November 16, 2016
- 21 grants totaling \$376,050
  - \* Division of GI Surgery DHF Grant Recipients:
    - ◆ Perioperative Lidocaine Pharmacokinetics in Patients Receiving Intravenous Lidocaine Analgesia during and after Colorectal surgery. PI: Shireen Ahmad, MD, **Michael F. McGee, MD**, Michael J. Avaram, PhD
    - ◆ A Multidisciplinary Collaboration to Minimize Diversion of Opioids. PI: **Jonah Stulberg, MD, PhD, MPH**
- Fellowships:
  - \* Building an endowment for a Stephen B. Hanauer Fellowship in IBD
  - \* Alvin I. Goodman Esophageal Fellowship (non-endowed)
- Biorepository



Since 2015, DHF has raised over \$3.0 million and funded more than 20 cutting-edge research studies that are changing the future of digestive health.



**Left to right:**

Dr. Ryan Merkow  
 Dr. Jeff Wayne (Chief)  
 Dr. David Bentrem  
 Dr. Karl Bilimoria  
 Dr. Anthony Yang  
 Dr. Dina Elaraj  
 Dr. Cord Sturgeon

## Clinical

In March 2017, as a result of growth and expansion over the last few years, the Division of GI and Oncologic Surgery separated into two distinct divisions and the Division of Surgical Oncology was officially formed. The Division of Surgical Oncology clinically provides services in the surgical treatment of gastrointestinal cancers, melanoma and soft tissue cancers, hepatobiliary surgery and endocrine surgery. Dr. Jeffrey Wayne was appointed to lead this new division as Division Chief. Dr. Wayne brings strong leadership and an exciting vision for the Division of Surgical Oncology focused on expanding our clinical mission.

The team has demonstrated strong clinical performance and volumes were 8.7% ahead of budget. The division also performed exceptionally well with respect to our patient satisfaction (Likelihood to Recommend, or LTR), performing at the 99<sup>th</sup> percentile nationally.

This year, the division expanded the use of a unique treatment option for patients with unresectable melanoma. T-Vec, an oncolytic herpes virus, is delivered locally and injected directly into the melanoma lesions. This therapy has shown great promise, and it also being offered in combination with targeted immunotherapy as part of an ongoing clinical trial available at the Robert H. Lurie Cancer Center.

## Research

Many faculty of the division participate in the Surgical Outcomes and Quality Improvement Center (SOQIC) at Northwestern University. Led by Dr. Karl Bilimoria, a surgical oncologist in our division, the center continued to realize many successes in 2017, which include:

- Nearly 40 publications in peer-reviewed journals, including the New England Journal of Medicine and JAMA, since January of 2017.
- Dr. Jonah Stulberg was awarded a 3-year NIH R34 grant titled: Decreasing Excess Opioid Prescriptions Following Surgical Encounters, along with an industry grant from Pacira and an internal NMH Digestive Health Grant to combat Opioid use after surgery.

### Research (cont.)

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- Dr. Dave Odell was awarded the Thoracic Surgery Research Grant from the Thoracic Surgery Foundation, Society of Thoracic Surgeons for the assessment of guideline adherence in lung cancer care at 12 Illinois hospitals.
- SOQIC received funding to continue the Flexibility In Duty Hour Requirements for Surgical Trainees (FIRST) Trial data collection and analysis through 2018.
- SOQIC continues to run the Illinois Surgical Quality Improvement Collaborative (ISQIC) which continues to lead hospitals in quality and process improvement. Current initiatives include Surgical Site Infection reduction and the start of an Enhanced Recovery after Surgery (ERaS) initiative.

Additionally, Dr. David Bentrem continues his translational research on the topic of pancreatic cancer as a co-investigator on an R01 grant with Dr. Munshi to investigate the “Role of Snail and Slug proteins in pancreatic cancer progression.” Finally, Dr. Jeffrey Wayne was a co-investigator on the landmark MSLT-II trial, published in the New England Journal of Medicine. This trial examined the role of complex lymph node dissections for patients whose melanoma had spread to their sentinel lymph nodes.

### Education

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Faculty continue to be important mentors in the area of education for residents and medical students in Surgery. Numerous faculty were awarded Excellence in Teaching awards by the residents in recognition as their roles as educators. Additionally, this year Dr. Wayne concluded a 7-year term as Associate Program Director of the General Surgery Residency. Finally, Drs. Elaraj and Sturgeon provided key mentorship to medical students through Feinberg School of Medicine’s Area of Scholarly Concentration program. In this program, students perform a hypothesis-driven investigation or formal project in an individualized area of independent study within biomedical research or a medically-related field.

### Staff News

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The Division of Surgical Oncology was excited to welcome Lauren Schiemann, PA-C, to the team this year. Prior to joining Northwestern, Lauren was a Surgical Oncology Physician Assistant at Massachusetts General Hospital in Boston, MA. Lauren works closely with the team in the clinic, in the operating rooms, and on the inpatient units and has her own clinic in the Robert H. Lurie Cancer Center.





**Top row (L-R):**  
 Dr. Russell McElveen  
 Dr. Azad Karim (PGY1)  
 Dr. Steven Miller (PGY6)  
 Dr. Paul Devlin (PGY2)  
 Dr. Erik Orozco-Hernandez (Fellow)  
 Dr. Daniel Enter (PGY5)  
 Dr. Jonathan Tomasko (PGY7)  
 Dr. Eriberto Michel (PGY3)  
 Dr. Chris Mehta (resident)  
 Dr. Bryan Stanifer  
 Dr. Danielle Smith

**Bottom row (L-R):**  
 Dr. Ankit Bharat  
 Dr. James Cox  
 Dr. David Odell  
 Dr. Shari Meyerson  
 Dr. Malcolm DeCamp  
 Dr. Patrick McCarthy  
 Dr. Chris Malaisrie  
 Dr. Duc Thinh Pham  
 Dr. Andrei Churyla

CARDIAC SURGERY

Clinical

The Division of Cardiac Surgery is pleased to have concluded yet another successful year. We climbed in the U.S. News & World Report rankings, up to the No. 6 Heart & Heart Surgery spot, among the nation’s most elite programs! The BCVI has recognized unprecedented success in its ranking since its launch in 2005, when Northwestern was unranked. Additionally, for the tenth straight year, the heart and heart surgery program has been ranked #1 in Illinois. Overall, the program’s surgical volumes grew 11% from the previous year, with Northwestern’s leading Transcatheter Aortic Valve Replacement (TAVR) program volumes up 22% from the previous year. A large contributor to our program’s recognition as an elite program has been our progressive treatment of heart valve disease, our role in pioneering the latest advances in transcatheter valve therapies, and the phenomenal quality of care we provide our patients. The program has continued to lead and participate in innovative clinical trials such as SCOUT, TIARA-I, and MOMENTUM 3 that help to shape future technologies.

Research

The division welcomed Dr. Craig Miller, Doelger Professor of Cardiovascular Surgery at Stanford University Medical School, to the annual Cardiothoracic Surgery Alumni and Graduation Day, which was held on June 2017. Drs. John Sanders and Paul Fedak also returned for the event among several others. The event featured research presentations by faculty and fellows, as well as Dr. Miller’s keynote lecture entitled *“The only hard thing about Valve – Sparing Aortic Root Surgery is deciding who should have a Tirone David – V Valve – Sparing Aortic Root Replacement”*

Select Ongoing research efforts by our faculty include:

- Dr. Patrick McCarthy is one of only a few U.S. physicians as PI for the study entitled Intrepid: Evaluation of the Safety and Performance of the Twelve Transcatheter Mitral Valve Replacement System in High Risk Patients with Severe Symptomatic Mitral Regurgitation and the TIARA-I Trial: Early Feasibility Study of the Neovasc Tiara™ Mitral Transcatheter Heart Valve.
- Dr. Duc Pham is participating in the MOMENTUM 3: Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with HeartMate 3™ Continued Access Protocol.



### CARDIAC SURGERY

#### Research (cont.)

- 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, Partner 3 Trial - Aortic VIV: A prospective single-arm, multicenter study to investigate the safety and effectiveness of SAPIEN 3 transcatheter heart valve implantation in patients with a failing aortic Bioprosthetic valve and Thoraflex™ Hybrid-002 IDE Study: 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.
- Dr. Kathleen Grady (PI) received funding for the SUSTAIN-IT study, Sustaining Quality of Life of the Aged: Heart Transplant and MCS A-QOL: Mechanical Circulatory Support: Measures of Adjustment and Quality of Life.

#### Education

We are pleased to welcome our new trainees for Cardiothoracic Surgery in the integrated program: Andre Son, MD, is from New York University School of Medicine, Bartlomiej Imielski, MD, is our incoming transfer 3rd year resident from Medical College of Wisconsin, and Austin Ward, MD, will be our incoming traditional fellow from the University Of Kentucky College of Medicine. For our Advanced Cardiac Surgery Fellowship Program, we have two incoming fellows: Daniel Holloway, MD, from the Libin Cardiovascular Institute in Calgary, Canada, completed his training at Queen's University Faculty of Health Sciences, and Yuji Kaku, MD, completed his training at Tokyo Women's Medical University in Japan and completed a fellowship at Texas Heart Institute.

In addition to a successful year, we are ecstatic to announce our graduates from the Cardiothoracic Surgery Integrated and Traditional programs: Danielle Smith, MD, our first female resident to graduate from our integrated program. Danielle accepted a position with Oregon Health Sciences Center in Adult Cardiac Surgery. Bryan Payne Stanifer, MD, who graduated from our traditional program accepted a position at Columbia University in New York. We also wished our Advanced Cardiac Fellow, Erik Javier Orozco-Hernandez, MD, a farewell as he joins the University of Alabama in Cardiac Surgery, and Russell McElveen, MD, will be starting his practice with Southern Illinois Healthcare. We are pleased that 3 of our 4 graduates this year have accepted Academic/Clinical positions.



### THORACIC SURGERY

#### Clinical

During fiscal year 2017, the division once again worked diligently toward the ongoing pursuits of efficient and high-quality clinical care. Our team demonstrated strong clinical performances and concluded the operating year 22% ahead of our wRVU budget. Additionally, we once again maintained strong performance with respect to our patient satisfaction (Likelihood to Recommend, or LTR), concluding the year at 95% top-box rated scoring. The division made ongoing enhancements to clinical access by assessing and modifying both faculty and mid-level provider coverage schedules to ensure optimum availability for ambulatory assessment and clinical intervention. To this end, we had a baseline target of achieving 62% of the requested ambulatory visits occurring within 7 days of being scheduled. We proudly report that we exceeded this goal and demonstrated performance of 68% of the requested visits occurring within 7 days.

During fiscal year 2017, the lung transplant program performed 11 transplants. This same team of skilled clinicians once again worked in tandem with our Cardiac Surgery and perfusion colleagues create a “Lung Rescue” respiratory or veno-venous ECMO program.

#### Research

Dr. Bharat and his collaborators earned the prestigious cover article of the June 2017 edition of Science Translational Medicine (STM). The cornerstone publication addressed the role and effects of the potential depletion of nonclassical monocytes with successful organ transplantation. He was elected to the editorial board of the Journal of Surgical Research and won the prestigious 2017 Young Physician-Scientist Award from the The American Society for Clinical Investigation.

Dr. Odell received notification of a perfect score on his K07 resubmission to the NCI regarding an Illinois Lung Cancer collaborative with funding expected to begin in the Fall of 2017. He was also the recipient of the American College of Surgeons 2017 Faculty Research Scholar award as well as a Faculty Research Grant from the Thoracic Surgery Foundation.

Division-wide, the clinical research team continued active participation in the national ProvenCare Lung Cancer Collaborative. We have now enrolled more than 1,600 patients in an effort to reliably deliver higher quality lung cancer care. We continue to grow our lung cancer biorepository and are working collaboratively with bioengineers in Evanston to pilot a lung cancer screening test using partial wave spectroscopy to detect alterations in the nanoarchitecture of cells swabbed from buccal mucosa.

#### Education

The 24th Annual Thomas W. Shields Lecture was hosted by the Division on May 18, 2017. This year, we invited Dr. Frank Detterbeck of Yale University. Dr. Detterbeck’s lecture addressed “Facts, Fiction and Personal Conviction – Maintaining a Focus on Science in a Messy World” which was a topic that resonated quite well with the event attendees. Dr. Detterbeck’s clinical focus on thoracic oncology, coupled with his achievements and success as a researcher, proved reassuring to our team’s ongoing pursuit of our tripartite missions. He also presided over our Shields Research Seminar where six of our trainees, mentees of Drs. DeCamp, Meyerson, Odell and Bharat, presented their own work. In all, it was a great event and we very much look forward to the Quarter Century celebration of this remarkable lectureship series in honor of Dr. Thomas W. Shields.



### Front row (L-R):

Dr. Mark Eskandari (Chief)

Dr. William Pearce

### Back row (L-R):

Dr. Heron Rodriguez

Dr. Karen Ho

Dr. Tadaki Tomita

Dr. Andrew Hoel

## Clinical

The 41st annual Northwestern Vascular Symposium was held in Chicago, IL, December 8-10, 2016. The symposium provided a comprehensive analysis of the current management of vascular disease including treatment of extracranial cerebrovascular and supra-aortic trunk disease, new approaches to lower extremity arterial and venous problems, cutting-edge developments in open and endovascular approaches to treat aortic and visceral arterial disease, and 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 eighty-five registered attendees represented the United States and several other countries.

## Research

Neel Mansukhani, MD, and Cori Cason, MD, completed their Vascular Surgery Scientist Training Program (T32) June 30, 2017. Dr. Mansukhani is currently one of the first year fellows in Vascular Surgery and Dr. Cason is completing her fourth year in the General Surgery residency. The incoming T32 trainees are Edmund Chen, MD, who will be working with Dr. Karen Ho, and Pieter Norden, PhD, who will be working with Dr. Tsutomu Kume. Drs. Eddie Blay and Michael Nooromid are continuing their research projects under the mentorship of Dr. Karl Bilimoria and Dr. Karen Ho, respectively.

Resident, Katherine Hekman, MD, received an F32 award from NIH. The subject of her research will be “Modulating Senescence in Induced Pluripotent Stem Cell-Derived Endothelial Cells for Vascular Disease Modeling and Therapy” under the mentorship of Dr. Jason Wertheim.

## Education

On July 1, 2017, Andres Guerra, MD, joined the Vascular Integrated Residency Program. Gabriel Wallace, MD, will join the Vascular Surgery Fellowship Program on August 1, 2017. Courtney Morgan, MD, and Micah Girotti, MD, completed their Vascular Surgery fellowships on June 30, 2017. Dr. Morgan is the third graduate of the Vascular Integrated Residency Program, and was instrumental in shaping the program from its infancy. *(continued on next page)*

### Education (cont.)

Dr. Morgan was a prolific academic vascular trainee, known widely among her peers as a leader, and won many awards for teaching. She has accepted a position at University of Wisconsin. Dr. Girotti is recognized as a notable teacher who has won the Department's, "Fellow as Teacher Award." He has joined Vascular Surgery Associates in Bel Air, MD. Vascular Surgery fellow, Ashish Jain, MD, was awarded "Fellow as Teacher Award" by the Department as well. Resident, Neel Mansukhani, MD, completed the NIH-sponsored Vascular Surgery Scientist Training Program on June 30, 2017, and is currently in the first year of his Vascular Surgery fellowship. Resident, Katherine Hekman, MD, presented her Quality Improvement Project entitled, "Vascular Groin SSI Reduction Initiative," at Grand Rounds. The division hosted two visiting professors. Dr. Lazar Greenfield served as the 5<sup>th</sup> annual John J. Bergan, MD, honorary speaker presenting, "The Filter at 45: Lessons Learned." Dr. Karl Illig spoke on Thoracic Outlet Syndrome at our Vascular Conference.

### Faculty News



**Dr. Mark Eskandari** was appointed to the Executive Committee of the Division of Transplant's Transplant Surgery Scientist Training Program (T32). He also was appointed to the American College of Surgeons' Operative Decision Making Workgroup (Vascular Surgery) and the Society for Vascular Surgery's History Committee and Vascular Annual Meeting Video Committee.



**Dr. Karen Ho** has served as Clinical Question Writer for the Vascular Educational & Self-Assessment Program and as a member of the Research and Education Committee for the Society for Vascular Surgery. She was appointed to the Program Committee of the Association of Academic Surgery.



**Dr. Andrew Hoel** was appointed to the Physician Advisory Committee for Northwestern Medicine's Project One. He served as an Examiner/Proctor for the Midwestern Vascular Mock Orals and Simulation & Surgical Skills Assessment Program.



**Dr. Heron Rodriguez** received an appointment as Associate Professor of Angiology, Vascular and Endovascular Surgery at Centro Médico Nacional "20 de Noviembre", Universidad Nacional Autónoma de México and received the status of Distinguished Fellow in the Society for Vascular Surgery.



**Dr. William Pearce** was appointed to the Vascular Surgery Peer Review Panel of the Defense Medical Research and Development Program.





*L-R:* Dr. Marco Ellis, Dr. John Kim, Dr. Jason Ko, Dr. Gregory Dumanian (Chief), Dr. Robert Galiano, Dr. Mohammed Alghoul

### Education

The plastic surgery residency program continues to increase in the number of applicants and attracts the top medical school candidates nationally. This year, the program received over 200 applications for the two residency positions in the integrated program. We were pleased to welcome Dr. Julian Klosowiak from Northwestern University Feinberg School of Medicine and Dr. Jonathan Massie from New York University School of Medicine as the intern class of 2024. Last year's chief residents are currently completing fellowship training—Dr. Michael Gart is doing a hand surgery fellowship at OrthoCarolina in Charlotte, NC, and Dr. Sumanas Jordan is doing a microsurgery fellowship at The Ohio State University.



*Julian Klosowiak*



*Jonathan Massie*

### 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 10% with respect to RVUs 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. Marco Ellis to the faculty in March, the practice has seen an increased volume of patients.

### Research

Dr. John Kim completed his term as Chair of the American Society of Plastic Surgery's Annual Program Breast Committee and was Co-Chair of the ASPS Breast and Body Meeting. He was also Chair of the ASPS Cadaver (Facelift, Migraine, Rhinoplasty) Program. He gave the 2017 University of Toronto Breast Reconstruction Lecture at the Toronto Breast Symposium, was invited faculty at the London Breast Meeting and Shenzhen Breast Multidisciplinary Meeting, and was the 2017 Greeley Lecturer for the Chicago Surgical Society. His research on aesthetic outcomes was awarded Outstanding Paper Presentation at the ASPS Cosmetic Track. His medical device start-up company was awarded a Zell grant, YEi Laureate, and a Hello Tomorrow Global Top 500 Award.

Dr. Jason Ko continues to work with Dr. Dumanian as the Co-I of the Department of Defense-funded clinical trial comparing targeted muscle reinnervation (TMR) to standard muscle implantation for the treatment of neuromas in upper and lower extremity amputees, along with collaborating with Dr. Dumanian on the amputee pain survey project. Dr. Ko is also evaluating the biomechanical strength and healing properties of mesh suture in flexor tendon repairs in cadaver and animal models, along with other orthopedic applications. He is an Associate Editor of the Journal of Hand Surgery, Editor of the Hand/Peripheral Nerve section of the Plastic Surgery Educational Network (PSEN), Co-Editor of the Soft Tissue Section of Hand-e [the online learning portal for the American Society for Surgery of the Hand (ASSH)], and was Editor of a recent volume of Hand Clinics on "Hand Burns."



Left to right:

- Dr. Jason Wertheim
- Dr. Jonathan Fryer
- Dr. Juan Caicedo-Ramirez
- Dr. Michael Abecassis (Chief)
- Dr. Nitin Katariya
- Dr. Daniela Ladner
- Dr. Derrick Christopher
- Dr. Joseph Leventhal

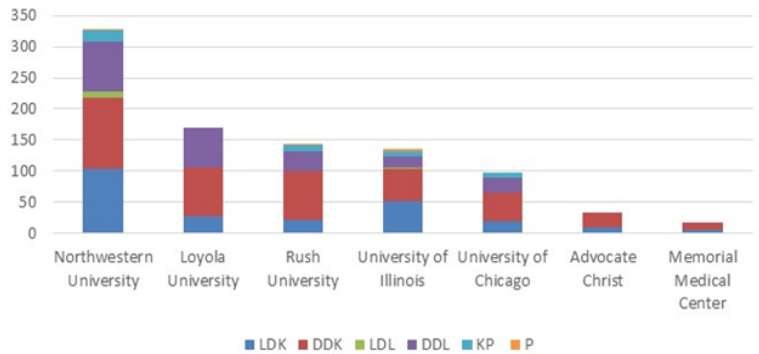
## Clinical

The Division of Organ Transplantation continues to be 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.

The national opioid epidemic has led to an increased number of deceased donor organs at Organ Procurement Organizations (OPOs) across the United States. In addition, a recent change was made to our deceased donor acceptance policy, where we now accept Hepatitis C antibody positive donors, whose Nucleic Acid Testing (NAT) is negative confirming that they are not actively viremic. The change was made after a thorough evaluation of the risk-benefit ratio of accepting these donors. The risk of transmission of Hepatitis C to the recipient with these donors is negligible in most cases. And, in the event that there is an unexpected transmission, the disease can be treated with a high rate of success using the newly available Directly Acting Antivirals (DAAs). The benefit lies in the fact that many of these donors are younger with higher quality organs. We are ahead of the national curve, with this practice, allowing us to receive organs from across the country to transplant into our recipients.

As a result of these changes in the latter half of FY17, we have experienced significant increases in offers for both deceased

Illinois Transplant Centers - 2016



donor kidneys and livers. The number of deceased donor kidney transplants in FY17 was 17% higher than the previous year and deceased donor liver and liver/kidney transplants were 36% higher.

We have begun an exciting initiative under the “Hope Act” that allows us to transplant HIV positive kidneys and livers into appropriate HIV infected recipients. As a participating institution in this multi-center observational study we have the opportunity to use organs that are initially determined to be HIV positive (previously unable to be used for transplantation) which upon further testing are found to be uninfected. This effort will significantly reduce waiting times for transplantation in HIV+ individuals.

## Research

The research enterprise at the Comprehensive Transplant Center (CTC) continues to grow. Through May we submitted 27 grant proposals totaling \$13.9M. In this same period, CTC researchers were awarded 25 grants totaling over \$6.5M, 266% increase over this time last fiscal year.

Dr. Joseph Leventhal received a three-year award for \$999,297 for his project “T-Cell Receptor Repertoire Analysis as a Biomarker for Predicting Graft Rejection in Transplant Recipients”, from the Department of Defense.

Dr. Jenny Zhang also received an award from the Department of Defense. This award is part of the Fiscal Year 2017 Defense University Research Instrumentation Program (DURIP) and will be used to purchase an operation microscope system that will be used for performing vascularized composite transplants in

mice and rats. This equipment will enable the CTC to expand its capabilities and the services offered to investigators.

Dr. Ladner received the PCORI-Pipeline to Proposal Awards-Tier III after successfully completing Tier 1 and II. The emphasis in all three funding tiers is to actively integrate patients, caregivers, clinicians, and other healthcare stakeholders as members of the patient-centered outcomes research/comparative effectiveness research (PCOR/CER) process. Dr. Ladner will work with the stakeholders to generate a meaningful patient-centered comparative effectiveness liver cirrhosis research proposal to be submitted to PCORI for consideration.

Dr. Wertheim was awarded a VA Merit Award for his project Extracellular Matrix Induction of Renal Stem and Progenitor Cell Development.

## Education

### Transplant Surgery Clinical Fellowship

Kofi Atiemo, MBChB, & Rebecca Craig-Schapiro, MD, PhD, have joined Alex Darani, MD, & Davy Woodland, MD, in our transplant surgery fellowship.



*Kofi Atiemo*



*Rebecca Craig-Schapiro*

### T32 Transplant Surgery Scientist Training Program

The CTC’s T32 fellowship was funded for another five years. We received an additional slot, bringing the total number to three. Fran Tangherlini, MD, and Jessica Heinrichs Voss, PhD, began their fellowships in the Northwestern University Collaborative Transplant-Related Immunology and Biomedical Engineering (NUCTRIBE) track this summer. Jessica Brown, PhD, is in her final year in the NUCTRIBE track as is Ramiro Fernandez, MD,

who was awarded an additional position through the T32 Research Supplement to Promote Diversity in Health-Related Research Program for Underrepresented Minority (URM) candidates.

Nik Mazumder, MD, MPH, will begin his fellowship in January in the Northwestern University Transplant Outcomes Research Collaborative (NUTORC) track.

### CTC Summer Student Immersion Program

The 2017 Comprehensive Transplant Center Summer Student Immersion Program (CTCSSIP) received over 160 applications from students nationally. Student selection is highly competitive and is dependent on an in-depth curriculum vitae review, phone interview, and an application form submission, that requests students’ academic record (GPAs, SAT, ACT, MCAT, GRE scores, etc.). Students are then paired with a transplant faculty member for the 8-week research internship. The 2017 CTCSSIP accepted 23 students (8 medical students, 12 undergraduates, and 3 high school students) who presented their work at the cumulative poster session on August 4, 2017.





*Left to right:*

Dr. Steven Schwulst

Dr. Michael Shapiro (Chief)

Dr. Mamta Swaroop

Dr. Nabil Issa

Dr. Joseph Posluszny

Christine Schilling, RN, BSN

## Clinical

The Trauma/Emergency Surgery service continued to see noteworthy clinical growth this year with a nearly 4% increase in volumes compared to last year. Performance measures reflect high-quality care with excellent outcomes. Trauma-related activity has continued to climb, particularly in the summer and fall months, which has been a consistent trend over the past several 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 remains high and focus on these initiatives is vital. The trauma program at Northwestern Medicine continues to participate robustly as a Level 1 Trauma Center. Additionally, the general surgery practice remains extensive and the service has continued to foster excellent 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.

## Research

Divisional research activity has continued to thrive this year and reflects 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.

Dr. Steven Schwulst entered the second year of his four-year NIH K08 grant awarded from the National Institute of General Medical Sciences. His project is entitled, “The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome”.

Dr. Joseph Posluszny led an Academy for Quality and Safety Improvement project with the goal of reducing length of stay and readmission rates for frail geriatric trauma and emergency surgery patients. The project was successful and earned the peer and external judging best project awards. In addition, this work was developed into an abstract that has been accepted for presentation at the EAST trauma meeting in January 2018.

Dr. Mamta Swaroop continued to make progress in her areas of focus. She leads the Chicago South Side Trauma First Responders Project, where they’ve taught over 100 lay first responders. The Bolivian Trauma Initiative has garnered an official seat in the government facilitated legislation to provide funding for the implementation of a prehospital system. Sam South, Global Surgery Fellow, presented at the ACS Region 14 meeting in Uruguay in May 2017 on this topic.



### Education

The Surgical Critical Care Fellowship enters its ninth year with two new fellows. Dr. Kulsoom Laeeq joins Northwestern Medicine upon completion of her residency at Creighton University Medical Center and Dr. Rahul Rasheed comes to us from Texas Tech University Health Sciences Center - El Paso. Dr. Nabil Issa has continued to thrive as Program Director as it has aligned well with his special interests in curriculum development. Additionally, Dr. Nabil Issa obtained a Masters of Health Professions Education (MHPE) degree from the University of Illinois at Chicago.



*Kulsoom Laeeq*



*Rahul Rasheed*

### Staff News

The Division of Trauma/Emergency Surgery service was excited to welcome Megan Larsen, PA-C, to the team this year. Prior to joining Northwestern, Megan was an Emergency Medicine Physician Assistant at Community Hospital North/East in Indianapolis, IN. Megan works closely with the team on the inpatient units and has been an invaluable resource to ensure continuity of care for our patients. Megan has done a wonderful job integrating with the team and we are lucky to have her!



# Northwestern Lake Forest Hospital



Rendering of the Main Entry at NLFH

Northwestern Lake Forest Hospital (NMLFH) Department of Surgery led changes in the governance of Surgical Services; participated in quality programs, system-wide and locally; prepared for the transition to the new hospital; and weathered a near-catastrophic storm in 2017.

A new governance structure is in place for Surgical Services. After an extensive review by Sullivan Consultants, two new entities were formed: Peri-operative Executive Committee (PEC) and the Surgeon Advisory Group (SAG).

PEC consists of the Chief of Anesthesiology, the Chief of Surgery, the Director of the OR, the CMO, and the CEO of NMLFH. This group meets every two weeks and is working to improve the OR efficiency, patient and surgeon satisfaction with Surgical Services, and monitoring and improving quality.

SAG is an advisory group to the PEC and consists of 7 surgeons from diverse specialties and one gastroenterologist. The group meets monthly and reviews recommendations of PEC, proposes needed change within the OR, and advises PEC on multiple issues related to Surgical Services.

Our first task was to improve First Case On-Time Starts (FCOTS). Before implementation of changes, our FCOTS were averaging

35%. After the changes, we improved to 70%. Changes made include: a daily huddle at 10 AM to review the next day's schedule and address any potential conflicts as well as to assess prior day's performance metrics; changes to registration processes; implementation of a "T-minus" system whereby the patient is seen by the anesthesiologist and the surgeon at a time T-minus a specified number of minutes before 0730.

Our next task was improving the block schedule. We have gone through three phases of change, eliminating blocks with 0% utilization, reducing or removing blocks with <30% utilization and amending blocks with 30-50% utilization. This created more open space in the schedule and allowed new surgeons to request block time.

PEC continues to work on turn-over time, which averages 31 minutes. Specialty teams are being formed in the OR where RNs and techs will be focusing on a group of specialties (while maintaining competencies in others). A nurse float is assigned between two OR rooms to aid in turnover and prepare for subsequent cases. These changes are expected to improve turnover times.

SAG has advised PEC on these matters and is also evaluating our antibiotic prophylaxis guidelines, developing a protocol for new



# Northwestern Lake Forest Hospital

procedures and new technology, participating in our value analysis committee where these new technologies are vetted, reviewing metrics on SSIs, and reviewing the appropriate use of our Grayslake Ambulatory Surgery Center.

The NMLFH Department of Surgery is also involved in many quality programs, both system-wide and locally. We have implemented the Colon Surgery Bundle. Dr. Frydman is our lead surgeon for ERAS protocols and is also our surgeon champion for ISQIC. We have offered the iCough program to patients undergoing colon surgery to decrease postoperative pneumonia.

Locally, the Department of Surgery participates in the SSI subcommittee. This multidisciplinary group tracks SSI data, performs Apparent Cause Analyses on all SSI patients, is involved with establishing a Total Joint Program, and has gathered data by direct observation in the ORs to evaluate where we can improve intra-operatively to reduce SSIs. Through the efforts of this committee and the implementation of programs such as the colon surgery bundle, we have seen a steady decline in SSIs. For example, there has not been a reportable colon surgery SSI since February 2016.

Surgery case volumes rose by 5% this fiscal year at NMLFH. Throughout the North Region, Northwestern Medicine has grown at double digit pace.

Dr. Dennis Pessis and Dr. John Hairston of Urology are joining NMLFH. Recruitment for additional surgeons in other specialties

is ongoing.

Dr. Gary Friend, DPM, published an article, “Metastatic Melanoma of a Metatarsal: A Case Report.” Journal of the American Podiatric Medical Association. Vol. 107, No. 1, pp. 90-94.

NMLFH’s Level II Trauma Program successfully passed an IDPH survey this past spring, allowing the hospital to maintain its Level II status.

The new hospital is substantially completed and has been turned over to Northwestern. The building, both inside and out, is beautiful and will be welcomed by patients and staff when it opens for patient care in March 2018.

Recently, a confluence of historic storms and power outages at the hospital required the transfer of 93 patients to NMH and surrounding hospitals. The hospital, through nothing less than a Herculean effort by administration and staff members, reopened 6 days later and is once again full of patients. During the shut down, surgical patients were rescheduled at the Grayslake ASC for outpatient surgery. The new hospital sustained minimal damage from these storms and no clinical areas or equipment were affected.

It is felt that if the hospital staff and patients can survive the “perfect storm” of epic rainfall and power outages, then the 2018 simultaneous activation of the new hospital and rolling out of the Epic EMR platform will be surmountable.



Rendering of the Boardwalk at NLFH



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 US. 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

The JB Robotic Program was started in 2013 by Dr. Josh Meeks and is used mainly for Urologic procedures. Dr. Joe Vitello leads our growing bariatric program which is the designated center for weight loss surgery in our integrated service network. Thoracic Surgery is back at Jesse Brown led by Dr. Frank Podbielsky. Drs. Mark Eskandari and Heron Rodriguez are new part time providers in our section of Vascular Surgery.

## Research

Dr. Jason Wertheim has received merit funding from the VA Biomedical Laboratory Research and Development (BLR&D) and participated in an “Organ Summit” at the White House with the goals of expanding organ transplantation through technology. Dr. Wertheim’s work was recently featured on the cover of Journal of the American Society of Nephrology. Dr. 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

Medical students continue to enjoy their rotations at Jesse Brown. Over the last five years, over 70% of NU medical students rate the value of the VA clinical training as very good or excellent.





## Lurie Children’s Recognized as Level 1 Pediatric Surgery Center for Second Time

For the second year, 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). In 2017, Lurie Children’s became the first children’s hospital in Illinois to earn this status and is currently one of only five in the country. The Level I verification 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, and emergency medicine, and must 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, leader-

ship and research in the field of children’s surgery and may offer residency and fellowship training for the next generation of children’s surgeons and surgical subspecialists.

The verification is valid for one year, and Lurie Children’s can request reverification after a year by submitting data on surgical performance, patient outcomes, patient safety, and availability of surgical experts, subspecialists, and clinical resources.



## Dr. Carl Backer Appointed Director of the American Board of Thoracic Surgery



Dr. Carl Backer has been recently appointed as a Director of the American Board of Thoracic Surgery. He is the A.C. Buehler Professor of Surgery, Division Head of Cardiovascular-Thoracic Surgery, and Surgical Director of the Cardiac Transplant Program at Lurie Children’s Hospital. Dr. Backer specializes in the surgical treatment of congenital heart disease in infants and children and also performs complex re-do procedures in adults. His primary interests are: adults with congenital heart disease, arrhythmia surgery, heart transplantation, vascular ring surgery, tracheal reconstruction, and pacemakers.

### Renowned Pediatric Cardiovascular Surgeon Joins Lurie Children's

Internationally renowned neonatal heart surgeon, Joseph Forbess, MD, joined Lurie Children's in July as the Associate Division Head of Pediatric Cardiovascular-Thoracic Surgery and Surgical Director of the Single Ventricle Reconstruction Program.

Dr. Forbess received his medical degree from Harvard Medical School and completed his residency and fellowship at Duke University Medical Center. He began his career at Children's Hospital Boston. Recently he was Professor of Surgery at the University of Texas Southwestern Medical Center and Director of Cardiothoracic Surgery at Children's Medical Center in Dallas from 2004 to 2016. Dr. Forbess has published over 100 peer-reviewed articles and book chapters and has given nearly 60 invited presentations.

In addition to his surgical expertise in complex single and biventricular reconstruction in neonates, Dr. Forbess is a well-established scientist. His research interests include the development of bioresorbable (or naturally-dissolving) stents, coatings and nanoparticles for use in pediatric vascular and airway applications. He will continue this innovative work at the



Stanley Manne Children's Research Institute, where all research at Lurie Children's is conducted.

*Credit: [www.luriechildrens.org](http://www.luriechildrens.org)*

### Dr. Ann O'Connor First in Illinois Board-Certified in Obesity Medicine



Ann O'Connor, MD, an authority in the surgical care and treatment of obesity and obesity-related disorders in teens, recently became the only pediatric surgeon in Illinois certified by the American Board of Obesity Medicine. Dr. O'Connor leads Lurie Children's bariatric surgery

program, which is the only program in the State of Illinois with expertise specifically dedicated to the treatment of adolescents and their unique medical, behavioral, nutritional and psychological needs.

Her interest in surgical weight management in teens was sparked by her observations early in her career that many of her patients had medical and surgical problems stemming from

obesity. When medical and behavioral weight loss programs have proved unsuccessful for severely obese teenagers, bariatric surgery can be an effective treatment, as it can resolve more than 80% of weight-related issues.

Dr. O'Connor sees patients at Lurie Children's at Northwestern Medicine Central DuPage Hospital Pediatric Outpatient Center.

*Credit: Precision Surgery Magazine*

## UPCOMING EVENTS

### Surgical Grand Rounds 2017-2018

Thursdays 7:00-8:00 AM

**9/7/17**

Enhanced Recovery  
Dr. Michael McGee  
Arkes 6th Floor, VC Room

**11/16/17**

Method Lectureship  
Dr. Lee Swanstrom  
Arkes 6th Floor, VC Room

**2/22/18**

Research Presentations  
TBD  
Arkes 6th Floor, VC Room

**4/26/18**

TBD  
Dr. Fizan Abdullah  
Arkes 6th Floor, VC Room

**9/21/17**

Gerald Ujiki Education Lectureship  
& Teaching Awards  
Dr. Caprice Greenberg  
Pritzker Auditorium

**11/30/17**

SOQIC Lectureship  
Dr. Amir Ghaferi  
Arkes 6th Floor, VC Room

**3/1/18**

Bergan Lectureship  
Dr. Norman Rich  
Pritzker Auditorium

**5/10/18**

Mayo Lectureship  
Dr. Armando E. Giuliano  
Arkes 6th Floor, VC Room

**9/28/17**

Faculty Meeting  
Dr. Nathaniel Soper  
Arkes 6th Floor, VC Room

**12/14/17**

Faculty Meeting  
Dr. Nathaniel Soper  
Arkes 6th Floor, VC Room

**3/15/18**

Faculty Meeting  
Dr. Nathaniel Soper  
Arkes 6th Floor, VC Room

**5/17/18**

Shields Lectureship  
Dr. Yolanda Colson  
Arkes 6th Floor, VC Room

**10/19/17**

TBD  
Dr. Donald Fry  
Arkes 6th Floor, VC Room

**1/18/18**

TBD  
Dr. Gregory Dumanian  
Arkes 6th Floor, VC Room

**3/22/18**

Teaching Grand Rounds  
Drs. Fryer & Halverson  
Arkes 6th Floor, VC Room

**5/31/18**

TBD  
Dr. Jason Wertheim  
Arkes 6th Floor, VC Room

**10/26/17**

Teaching Grand Rounds  
Drs. Fryer & Halverson  
Arkes 6th Floor, VC Room

**2/1/18**

State of the Department  
Dr. Nathaniel Soper  
Arkes 6th Floor, VC Room

**4/5/18**

TBD  
Dr. Ankit Bharat  
Arkes 6th Floor, VC Room

**11/9/17**

Research Presentations  
TBD  
Arkes 6th Floor, VC Room

**2/8/18**

Davis Lectureship  
Dr. John C. Alverdy  
Arkes 6th Floor, VC Room

**4/12/18**

TBD  
Dr. Daniela Ladner  
Arkes 6th Floor, VC Room

### SAVE THE DATE

Department of Surgery Holiday Reception - December 8, 2017

Edelstone-Bendix Resident Research Day & Faculty Retreat - June 15, 2018



# FACULTY HONORS & AWARDS

## Ankit Bharat, MBBS

Research Fellowship Award (Recipient Ramiro Fernandez), 37th Annual Meeting of International Society of Heart and Lung Transplantation. Role: Primary Mentor. 2017.

Philip K Caves Award (Recipient Stephen Chiu) 37th Annual Meeting of International Society of Heart and Lung Transplantation. Role: Primary Mentor. 2017.

ASCI Young Physician-Scientist Award, The American Society for Clinical Investigation. 2017.

Director of Respiratory ECMO – Northwestern Medicine, 2017.

Member of Judging Panel, BSTR Abstract Award Presentations, 37th ISHLT Conference, 2017.

Moderator, Academic Surgical Congress (Cardiothoracic Session), 2017.

Elected Member, Scientific Council on Basic Science and Translational Research, ISHLT, 2017.

Elected Member, Program Committee, Association for Academic Surgery, 2016.

Elected Member, Program Committee, American Thoracic Society, 2016.

## Karl Y. Bilimoria, MD, MS

James IV Association of Surgeons Traveling Fellow, 2016-2018.

Included in New England Journal of Medicine, 10 Most Notable Studies of 2016 (for FIRST Trial). December 2016.

Appointed to Technical Expert Panel (TEP) for Hospital Quality Star Ratings on Hospital Compare. March 29, 2017.

Appointed System Vice President for Quality, Northwestern Memorial Healthcare Corporation. May 1, 2017.

## James L. Cox, MD

Appointed Surgical Director, Center for Heart Rhythm Disorders. Visiting Professor of Surgery, Division of Cardiac Surgery. December 2016.

Honorary Professor of Surgery, Mexican Society of Cardiac Surgery.

Alumni Hall of Fame, University of Mississippi (Ole Miss).

## Malcolm M. DeCamp, Jr., MD

Solovy Award for Advancement in COPD, Respiratory Health Association, 2017.

National Comprehensive Cancer Network (NCCN), Non-Small Cell Lung Cancer Panel, 2016-present.

National Comprehensive Cancer Network (NCCN), Pleural Mesothelioma Panel, 2016-present.

National Comprehensive Cancer Network (NCCN), Thymic Malignancies Panel, 2016-present.

American Lung Association Lung Cancer Expert Medical Advisory Panel, 2016-present.

Excellence in Teaching Award, Northwestern University Feinberg School of Medicine, 2016-2017.

## Mark K. Eskandari, MD

Associate Examiner, American Board of Surgery Certifying Examination, Chicago, IL. September 26-28th, 2016.

Reviewer, Multidisciplinary Mentored Career Development Program (KL2), Northwestern University Clinical and Translational Sciences Institute, Chicago, IL. 2017.

## Kathleen L. Grady, PhD

Fellow of the Heart Failure Society of America (HFSA). 2016.

Barsuk J (PI) et al., Grady, KL (co-investigator). Use of simulation to improve ventricular assist device self-management. National Institutes of Health, NINR. R21NR016745. \$432,813. (12/9/16-11/30/18).

## Eric S. Hungness, MD

Winner, ASMBS Research Grant. Nov. 2015.

Outstanding Teacher Award, Area of Scholarly Concentration Mentor, 2015-2016. Nov. 2016.

## Seema A. Khan, MD

NIH/NCI Grant "Phase IIB trial of neoadjuvant oral tamoxifen versus transdermal 4-hydroxytamoxifen in women with DCIS of the breast."

NIH R01 Grant "Progesterone Signaling and Blockade in Human Breast Tumorigenesis and Prevention."

## Swati Kulkarni, MD

NIH/NCI 1R01CA218436-01 "Evaluating the Protective Effect of a Tissue Selective Estrogen Complex (TSEC) in women with newly diagnosed Ductal Carcinoma In Situ."

Excellence in Medical Student Teaching for Focused Clinical Experiences from the Office of Medical Education, Northwestern Medicine.

Lynn Sage Cancer Research Foundation Research Grant, "Alterations in gene expression and ER-Alpha binding profile in mammary tissue after bariatric surgery."

## Michael F. McGee, MD

Excellence in Teaching Award, Department of Surgery, Feinberg School of Medicine, Northwestern University, 2016.

Appointed to the American College of Surgeons Case Studies in Surgery Editorial Board, 2016.

Appointed to the Society for Surgery of the Alimentary Tract Program Committee, 2017.

## James M. Mathew, PhD

Editorial Member, Human Immunology. Dec. 2016.

Principal Investigator, John & Lillian Mathews Endowment. \$50,000. Oct. 2016.

Co-Principal Investigator, Falk Foundation Research Grant. \$260,376. Nov. 2016.

Co-Principal Investigator, DOD- FY 2016 RTRP. \$999,294. May 2017.

## Shari L. Meyerson, MD

Excellence in Teaching Award, Northwestern University Department of Surgery, 2016.

## David D. Odell, MD, MMSc

Faculty Research Scholar, American College of Surgeons, 2017.

Oz-Lemole Research Scholar, Surgery Graham Foundation, American Association for Thoracic Surgery, 2016.

Thoracic Surgery Education and Research Foundation, Alley Sheridan Scholar for Health Policy and Leadership, 2016.

Thoracic Surgery Education and Research Foundation; Alley Sheridan Scholar for Health Policy and Leadership, 2016.

American College of Surgeons, National Surgical Quality Improvement Program (ACS NSQIP); Best Abstract Winner 2016 Annual Meeting, 2016.



## FACULTY HONORS & AWARDS

### Joseph A. Posluszny, Jr., MD

Northwestern University Emergency Medicine Residency Teaching Award, Best Trauma/SICU Teacher, May 2017.

Academy for Quality and Safety Improvement, Peer and External Judging Award for Best QI Project, Northwestern University School of Medicine, May 2017.

### William H. Pearce, MD

Chicago Magazine's Chicago's Top Doctors—2016.

### Heron E. Rodriguez, MD

Awarded "Who's Who in Hispanic Chicago," *Negocios Now*. 2016.

Awarded Distinguished Fellow Status by the Society of Vascular Surgery. April 2017.

### Anat Roitberg-Tambur, DMD, PhD

President, ASHI. Sept. 2015-Sept. 2016.

Chair of Annual Planning Committee, ASHI. Sept. 2016-Sept. 2017.

Chair of NGS meeting, ASHI. Nov. 2016.

Executive Board Member, UNOS. June 2016-July 2017.

Chair, AST ASHI Collaborative, STAR Conference. February 2016-ongoing.

### Michael B. Shapiro, MD

Excellence in Teaching Award, Department of Surgery, Northwestern University Feinberg School of Medicine. 2016.

### Nathaniel J. Soper, MD

Named Chairman of the Board, 2017-2018 of Society for Surgery of the Alimentary Tract.

Named to America's Best Physicians, 2016.

Visiting Joaquin S. Aldrete Endowed Lecturer, University of Alabama School of Medicine, Birmingham, AL, 2016.

Philip E. Donahue Keynote Speaker at the 10 Annual Olga Jonasson Symposium/9th Warren H. Cole Society Scientific Meeting, Chicago, IL, 2017.

### Jonah J. Stulberg, MD, PhD, MPH

Elected to the Patient Care Committee of Northwestern Memorial Healthcare Policy Division at Northwestern Memorial Hospital, July 2016.

Named Director of 2nd Year Resident Technical Skills Laboratory Curriculum (R2 Skills Lab) at Northwestern University Feinberg School of Medicine, September 2016.

Elected Sponsorship and Fundraising Chair for the Surgical and Perioperative Interest Group, AcademyHealth, Agency for Healthcare Research and Quality (AHRQ), October 2016.

Elected to the Education Committee of the Association for Academic Surgery (AAS), February 2017.

Elected as a Task Force Advisor to the American College of Surgeon's Patient Education Program: "Opioids and Surgery: Use Abuse and Alternatives," May 2017.

Elected to the Health Care Effectiveness and Outcomes Research (HEOR) Study Section for the Agency for Healthcare Research and Quality (AHRQ), June 2017.

Awarded funding through the Digestive Health Foundation for "A Multidisciplinary Collaboration to Minimize Diversion of Opioids," June 2017.

Elected to the Opioid Advisory Council for the American Hospital Association (AHA), June 2017.

### Mamta Swaroop, MD

Founding Member, Board of Directors, American College of Academic International Medicine, 2016.

Chair, Board of Directors, OPUS 12 Foundations, 2016.

Planning Committee, Academic International Medicine, 2016.

G4 Alliance (Global Alliance for Surgical, Obstetric, Trauma, and Anesthesia Care), Representative for Northwestern University, 2017.

Deputy Chair, Women in Global Health Working Group, Consortium of Universities in Global Health, 2017.

Chair, Conference Committee, American College of Academic International Medicine, 2017.

### Frank A. Vicari, MD

Awarded Best Pediatric/Craniofacial Paper Award by Plastic and Reconstructive Surgery for paper titled, "Effectiveness of Conservative Therapy and Helmet Therapy for Positional Cranial Deformation," September 2016.

### Jeffrey D. Wayne, MD

Castle/Connolly Top Doctor, Surgery, 2017.

Excellence in Teaching Award, Department of Surgery, Northwestern University Feinberg School of Medicine, 2016 (Hall of Fame).

Elected President, Chicago Surgical Society, 2017-2018.

Elected Vice President-elect, IL Surgical Society, 2017-2018.

Named to AOA Selection Committee.

Named Chief of Surgical Oncology, NU FSM.

### Jason A. Wertheim, MD, PhD

Vanguard Prize, American Society of Transplant Surgeons, 2016.

Faculty Development Grant, American Society of Transplantation, 2016.

Basic Science Career Development Award, American Society of Transplantation, 2017.

### Anthony D. Yang, MD, MS

Named Surgeon Champion for Northwestern Memorial Hospital, American College of Surgeons (ACS) National Surgical Quality Improvement Program (NSQIP), June 2017.

Named to the Steering Committee of the Academy for Quality and Safety Improvement, Northwestern University Feinberg School of Medicine, May 2017.

Named Vice Chair, Endocrine Disease Site Working Group, Society of Surgical Oncology, December 2016.

Appointed Medical Director, 12 East Feinberg Surgical Unit, Northwestern Memorial Hospital, August 2016.

# FACULTY PRESENTATIONS

## Michael M. Abecassis, MD

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, Optum Health, Transplant Value Initiative Forum, Minneapolis, Minnesota. June 28, 2016.

Panel Member, Optum Health, 25th Annual National Conference, Controversies in Transplantation, Liver Allocation for HCC, and Role of Living Donor Liver Transplantation for HCC, Minneapolis, Minnesota. October 7, 2016.

Panel Member, Optum Health, 25th Annual National Conference, How has the ACA Affected the Transplant Care and Payment Models, and Vice-versa? Minneapolis, Minnesota. October 7, 2016.

Moderator, American Association of the Study of Liver Disease Annual Conference, Boston, Massachusetts. "Liver Transplantation in the High MELD Era: Perioperative Management of the Critically Ill Patient". November 12, 2016.

Invited Speaker, American Association of the Study of Liver Disease Annual Conference, Boston, Massachusetts. "Bundled Care: Lessons Learned from Liver Transplantation." November 14, 2016.

Invited Speaker, Hispanic Outreach Transplant Congress, Monterrey, Mexico. Liver Transplantation at Northwestern-past-present-future. November 18, 2016.

Invited Speaker, ASTS 17th Annual State of the Art Winter Symposium, Miami, Florida. "National Treasure: Have we achieved Pareto-optimality or efficiency in Transplantation?" January 27, 2017.

Invited Speaker, Gift of Hope Organ Summit. Chicago, IL. February 21, 2017.

Invited Speaker, OptumHealth Education, Scottsdale, Arizona. "Direct-acting Antiviral Agents for the Treatment of Hepatitis C Virus." March 20, 2017.

Invited Speaker, Northwestern University Alumni Weekend Forum, Chicago, IL. "The Promise of Transplantation – Past, Present, and Future." April 28, 2017.

## David J. Bentrem, MD

Dhar V, Wilson G, Abbott D, Kooby D, Merchant

N, Kim HJ, Martin R, Scoggins C, **Bentrem DJ**, Weber S, Cho C, Maithel S, Ahmed S. The Biology of mixed-type intraductal papillary mucinous neoplasms: are current classification guidelines accurate? AHPBA 2017 (Miami, FL).

Benjamin A, Talamonti M, Roggin K, **Bentrem DJ**, Baker M. Liver transplant offers a survival benefit over margin negative resection in patients with small unifocal HCC and preserved liver function. DDW 2017.

Benjamin A, Talamonti M, Roggin K, **Bentrem DJ**, Baker M. Neoadjuvant chemotherapy is associated with higher rates of margin negative resection and improved survival in patients with extrahepatic cholangiocarcinoma. DDW 2017.

Bryan D, Talamonti M, Benjamin A, Ajmani G, Roggin K, **Bentrem DJ**, Baker M. Lymph node ratio is an important predictor of overall survival independent of grade and stage in patients with resected gallbladder cancer. DDW 2017.

Mazmudar A, Yang A, **Bentrem DJ**. Association of length of hospital stay with readmission after elective pancreatic resection. AHPBA, March 31, 2017. (Miami Beach, FL)

Kantor O, Talamonti M, Roggin K, **Bentrem DJ**, Prinz R, and Baker M. Minimally invasive pancreaticoduodenectomy: Is the incidence of postoperative clinically relevant fistula comparable to that following open pancreaticoduodenectomy. SSAT 2017.

Ethun CG, Pawlik T, Poultsides G, Idrees K, Fields R, Weber S, Cho C, Martin R, Scoggins C, Shen P, Schmidt C, **Bentrem DJ**, Ahmad S, Abbott D, Kim HJ, Merchant N, Kooby D, and Maithel S. Distal cholangiocarcinoma and pancreas adenocarcinoma: are they really the same disease? A 13-institution study from the US Extrahepatic Biliary Malignancy Consortium and the Central Pancreas Consortium. Southern Surgical Association, December 4, 2016. (Palm Beach, FL)

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. Southern Surgical Association, December 4, 2016. (Palm Beach, FL)

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.

## Ankit Bharat, MBBS

Frontiers of Lung Transplantation. Surgical Grand Rounds. Rush University Hospital. July 5, 2017.

When we are their last (or only) hope: The impact of last ditch efforts on healthcare providers. Schwartz Center Rounds. Northwestern Memorial Hospital. June 26, 2017.

Solving a Fatal Problem in Lung Transplantation: From Bedside to Bench and Back. Christian Medical College, CMC Alumni 2017 Conference, Newark, NJ. June 16, 2017.

Frontiers of Thoracic Surgery. Surgical Grand Rounds, Presence St. Joseph's Hospital. March 8, 2017.

Human to murine lung transplantation and back. Surgical Grand Rounds, University of North Carolina, Chapel Hill. February 1, 2017.

## Karl Y. Bilimoria, MD, MS

Chicago LEARN Consortium Grand Rounds. Evidence Based Opportunities to Improve CMS Public Reporting and Pay-for-Performance Programs. Chicago, IL, October 28, 2016.

Annual Collaborative Meeting Keynote, Ontario Surgical Quality Improvement Network. Development of a Novel Platform for Quality Improvement and Research: The Illinois Surgical Quality Improvement Collaborative. Ontario, CA, November 4, 2016.

Peter C. Canizaro Visiting Professor Lecture, Weill Cornell Medical College. Generating Evidence to Inform Policy: The FIRST Resident Duty Hour Trial. New York, NY, November 14, 2016.

Ohio State Grand Rounds. HSR Program. Columbus, OH, December 15, 2017.

MD Anderson 15th Oncology Update. Reimbursements Linker to Outcomes: Where do we Stand? Steamboat Springs, CO, January 13, 2017.

Center for Health and the Social Sciences and the Harris School of Public Policy. Opportunities to Improve CMS Public Reporting and Pay-for-Performance Programs. Chicago, IL, 2016.

AAS/SUS Surgical Investigators' Course: The Grant Writing Workshop. Essential Elements of a Successful Research Proposal – Outcomes/Health Services Research; Writing the Specific Aims. Las Vegas, NV, February 6, 2017.

# FACULTY PRESENTATIONS

## Karl Y. Bilimoria, MD, MS (cont.)

SSO: Timely Topics in Clinical Research. Opportunities for Innovative Oncology Research Using Large National Datasets. Washington, DC, March 15, 2017.

STARS 4 Symposium Keynote Speaker, Dartmouth Hitchcock Medical Center. Informing Policy with Evidence: The FIRST Resident Duty Hour Trial. Lebanon, NH, April 13, 2017.

DCAS Teaching Course, RACS Annual Scientific Congress. Challenges of Optimizing Surgical Training - The FIRST Trial. Adelaide, Australia, May 7, 2017.

RACS Annual Scientific Congress. How Can We Improve Adherence to Cancer Care Guidelines? Adelaide, Australia, May 9, 2017.

RACS Annual Scientific Congress. Does NSQIP Make Surgery Safer for Patients? Adelaide, Australia, May 12, 2017.

Keynote Speaker, Baylor College of Medicine's Research Day. Informing Policy with Evidence: The FIRST Resident Duty Hour Trial. Houston, TX, June 7, 2017.

Northwestern Medicine Department of Obstetrics and Gynecology Celebration of Teaching Day. Generating Evidence to Inform Policy: The FIRST Resident Duty Hour Trial. Chicago, IL, May 19, 2017.

## Juan C. Caicedo-Ramirez, MD

Invited Speaker, Northwestern University Transplant Outcomes Research Collaborative (NUTORC), AOSC & Summer Student Lecture, Chicago, Illinois, Hispanic Transplant Program – Cultural Competency in Transplantation, July 2016.

Invited Speaker, Dallas Methodist Transplant Center, Dallas, Texas, Cultural Barriers to Kidney Transplantation, July 2016.

Invited Speaker, Mt. Sinai Medical Center, New York City, New York, Cultural Barriers to Kidney Transplantation, September 2016.

Invited Speaker, Northwestern University, Feinberg School of Medicine, Interventional Radiologist Fellow's Lecture Series, Chicago, Illinois, Basic Concepts of Hepatobiliary Surgery and Liver Transplantation for Interventional Radiologists, September 2016.

Invited Speaker, Saint Barnabas Medical Center, Livingston, New Jersey, Cultural Barriers to Kidney Transplantation, October 2016.

Invited Speaker, The Inaugural Texas Medical Center Hispanic Transplant Symposium, Houston, Texas, How cultural and language differences affect patient experience and access to transplantation: How Northwestern found a solution, October 2016.

Invited Speaker, University of Colorado, Denver, Colorado, Cultural Barriers to Kidney Transplantation, November 2016.

Webinar, American Society of Transplantation – Optimizing Your Living Kidney Donor Program. Reaching the Hard to Reach: Strategies to Reduce Cultural Barriers in Living Kidney Donation – Special focus in Hispanics, November 2016.

Invited Speaker, University Of Minnesota, Minneapolis, Minnesota, Cultural Barriers to Kidney Transplantation, December 2016.

## Andrei Churyla, MD

Presenter, "Coronary Artery Disease/CABG". Department of Surgery Core Curriculum Series. Northwestern University. Chicago, IL, August 2016.

Presenter, "Conduit Selection". Cardiothoracic Surgery Residents and Mid-Level Providers Conference. Northwestern University. Chicago, Illinois, Nov. 2016.

Speaker, "Transcatheter Interventions in Cardiac Surgery". 3 year CT Fellowship Presentations. Northwestern University. Chicago, IL, Feb. 2017.

## James L. Cox, MD

Invited Lectureship – Northern General Hospital – Sheffield, UK – September 13, 2016.

Keynote Lecture – MAM Conference – Zurich, Switzerland – September 15-16, 2016.

Grand Rounds – University of Virginia – Charlottesville, VA – September 21, 2016.

The H. Newland Oldham Lecture – Duke University – Durham NC – October 1, 2016.

Atricure Maze Masters Course – San Diego, CA – October 15-16, 2016.

Atricure Dinner Lecture on AF – Grand Rapids, MI – October 29, 2016.

The Rollin A. Daniel, Jr. Lecture – Vanderbilt University – Nashville, TN – November 17-20, 2016.

Crossing Borders Symposium – University of Maastricht, NTH – February 8-10, 2017.

The Jeffrey M. Piehler Lecture – University of Kansas – Kansas City, KS – February 17, 2017.

Keynote Lecture – Navigating the Maze Symposium – Barcelona, SP – April 2-4, 2017.

Grand Rounds – Medical College of Wisconsin – Milwaukee, WI – April 5, 2017.

Atricure Dinner Lecture on AF – Milwaukee, WI – April 6, 2017.

Keynote Lecture – Mexican Society of Cardiac Surgery – Merida, MX – April 19, 2017.

4 other Lectures – Mexican Society of Cardiac Surgery – Merida, MX – April 20-22, 2017.

AATS Centennial Meeting – Innovation Summit – Boston, MA – April 29, 2017.

AATS Centennial Meeting – Controversies in Aortic Surgery – Boston, MA – May 1, 2017.

Co-Chair, Heart Rhythm Society AF Session – Chicago – May 11, 2017.

Chair, Heart Rhythm Society LAA Session – Chicago – May 12, 2017.

Northwestern Electrophysiology Weekly Conference – Chicago – May 19, 2017.

Keynote Lecture – All-Russian Cardiac Society Meeting – Moscow, RF – June 1, 2017.

## Malcolm M. DeCamp, Jr., MD

Houston Methodist Lung Cancer Symposium, Role of Surgery in Patients with Marginal Pulmonary Function, DEBATE: Lobectomy vs Stereotactic Radiation Therapy for Operable Stage I NSCLC. Houston, TX, 2016.

American College of Surgeons, Clinical Congress, Childhood Surgical Conditions: Transitions to Long Term Care and Adult Providers Redo Thoracic Surgery Following Childhood Foregut Operations. Washington, DC, 2016.

Visiting Professor, 5th Annual Laman Gray, MD Lecture, Surgical and Device Interventions for Advanced Emphysema. University of Louisville, KY, 2016.

## Mark K. Eskandari, MD

Yoon DY, Hekman KE, Mansukhani N, Hoel AW, Rodriguez HE, Pearce WH, **Eskandari MK**, Tomita TM. Poor Outcomes in Obese Patients after Mesenteric revascularization for Chronic Mesenteric Ischemia. Midwestern Vascular 2016, Columbus, OH, September 8-10, 2016.



# FACULTY PRESENTATIONS

## Mark K. Eskandari, MD (cont.)

Moderator, "Cerebrovascular and Supra-Aortic Trunk Disease". 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8-10, 2016.

Moderator, "Visceral and Renal Artery Disease". 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8-10, 2016.

Moderator, "Thoracic/Thoracoabdominal Diseases". 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8-10, 2016.

Mansukhani NA, Haleem MS, **Eskandari MK**. TEVAR Complications Reported in the FDA Manufacturer and User Facility Device Experience Database. 12th Annual Academic Surgical Congress, Las Vegas, NV, February 7-9, 2017.

Panelist, "Aortic Aneurysms". SIR 2017, Washington, DC, March 4-9, 2017.

Morgan CE, **Eskandari MK**, Rodriguez HE. 10-year Review of Isolated Spontaneous Mesenteric Arterial Dissections. Society for Clinical Vascular Surgery 45th Annual Symposium, Lake Buena Vista, FL, March 18-22, 2017.

## Jonathan P. Fryer, MD

ASTS European Transplant Fellow Workshop, Rome, Italy, September 2016.

Grand Rounds Presenter, University of Rochester, NY, January, 2017.

Invited Speaker, Annual Academic Surgical Congress, Las Vegas, NV, February 2017.

Invited Speaker, Tri-nation Alliance Int'l Medical Symposium, Melbourne, Australia March 2017.

## Kathleen L. Grady, PhD

Patient Outcomes .... More than Just Survival. Cardiovascular Research Series, Lurie Children's Hospital. Chicago, IL.

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

Quality of Life Research in Cardiovascular Disease. 42nd Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC). Lake Tahoe, CA.

Cardiovascular Quality of Care and Outcomes Research. 42nd Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC). Lake

Tahoe, CA.

Support and Cardiovascular Outcomes in the New Millennium. America Heart Association Scientific Sessions. New Orleans, LA.

Erasing the Fear: Palliative Care in Sometimes the Right Choice. ACC, 66th Annual Scientific Sessions. Washington D.C.

Quality of Life after Transplant. ACC, 66th Annual Scientific Session. Washington D.C.

Quality of Life after VAD and the Impact of Frailty and Social Behaviors on VAD Success. International Society for Heart and Lung 2017 MCS Core Academy at the Meeting and Scientific Sessions. San Diego, CA.

Completing the Picture: Patient Reported Outcomes (PROs) in transplantation both in view of PRO development and measurement. International Society for Heart and Lung 2017 Meeting and Scientific Sessions. San Diego, CA.

Using Registries as an Effective Platform for Conducting Clinical Trials. Pediatric Heart Transplant Study (PHTS) Registry. San Diego, CA.

## Karen J. Ho, MD

Discussant, Grip Strength is Associate with Increased Cardiac Risk and Frailty among Patients with Vascular Disease, Surgical Forum, Vascular Surgery II, American College of Surgeons Clinical Congress, Washington, DC, October 19, 2016.

Moderator, Vascular Access, 41st Annual Northwestern Vascular Surgery Symposium, Northwestern University Feinberg School of Medicine, Chicago, IL, December 8, 2016.

Ho, KJ. Readmissions in Vascular Surgery, 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8, 2016.

Moderator, Lower Extremity Arterial Disease, 41st Annual Northwestern Vascular Surgery Symposium, Northwestern University Feinberg School of Medicine, Chicago, IL, December 9, 2016.

Co-Moderator, Peripheral Arterial Disease, Vascular Research Initiatives Conference: Peripheral Arterial Disease, Minneapolis, MN, May 3, 2017.

## Seok Jong Hong, PhD

Invited Speaker, Sodium Channel Proteins are Novel Targets for the Prevention of Scarring. The 15th Annual Symposium of Wound Healing:

Science + Industry. June 22-25, 2017, Caribe Hilton, San Juan, Puerto Rico.

## Eric S. Hungness, MD

Advanced Skills Training for Rural Surgeons: Laparoscopic Bile Duct Exploration and Facial Lacerations, Course Director, Chicago, IL August 3, 2015.

Common Bile Duct Hands-on Course. Course Co-director, SAGES 2016 Annual Meeting, Boston, March 2016.

Reclaiming our surgical heritage: Teaching the Next Generation of Surgeons the Art of Bile Duct Exploration. Post-graduate course: Common Bile Duct Stones, SAGES 2016 Annual Meeting, Boston, March 2016.

Introduction to POEM. Instructor. Hands-on Session, SSAT Annual Meeting, San Diego, CA, May 21, 2016

Per-Oral Endoscopic Myotomy for the UES, LES and Pylorus, Breakfast with the Expert, SSAT (DDW), San Diego, May 2016.

Instrument Selection. Mastery Learning Course, Northwestern Simulation, June 28, 2016, Chicago, IL

Mastery learning – Deliberate practice. Mastery Learning Course, Northwestern Simulation, June 28-30, 2016, Chicago, IL

POEM 2016: What Have we Learned and Where do we go from Here? Chicago Live, August 2016.

NOTES and POEM. Rush University Surgical Grand Rounds, September 28, 2016, Chicago, IL

Current treatment algorithms for patients with biliary dyskinesia/functional gallbladder disorder and brief summary of the current literature on the role of cholecystectomy for biliary dyskinesia. ACS Clinical Congress Panel Session, October 18, 2016, Washington D.C.

Cost Effectiveness of Per Oral Endoscopic Myotomy Relative to Laparoscopic Heller Myotomy for the Treatment of Achalasia. Invited Discussant, ACS Clinical Congress, Oct 18, 2016, Washington D.C.

Treatment of Achalasia in 2016. SSAT GI Surgery Winter Course on Evidence-Based Surgical Treatment of GI Disease, Dec 2, 2016. Miami, FL

Achalasia and POEM. University of Dartmouth Surgical Grand Rounds, March 10, 2017.

SSAT Hands-On Session, Esophagus and Gastric Educator. DDW, May 6, 2017, Chicago, IL

Are hands-on courses enough for training in POEM. NOSCART, July 14, 2017, Chicago, IL.

## FACULTY PRESENTATIONS

### Eric S. Hungness, MD (cont.)

POEM. Session Moderator. NOSCAR, July 14, 2017, Chicago, IL.

### Seema A. Khan, MD

San Antonio Breast Cancer Symposium. Invited speaker. "Targeting the breast, locally: Old and new approaches." San Antonio, TX. December 2016.

University of Texas, San Antonio, Invited speaker. "Progesterone in the breast: Cacophony or orchestra?" San Antonio, TX. November 18, 2016.

Lynn Sage Breast Cancer Symposium. Invited speaker "Current status of nipple sparing mastectomy". Chicago, IL. September 2016.

### Swati Kulkarni, MD

Invited speaker, Bariatric Surgery Alters Estradiol Availability and Estrogen Receptor Alpha Activity in Postmenopausal Women. Society of Surgical Oncology Annual Meeting. Seattle, WA. March 2017.

### Daniela P. Ladner, MD, MPH

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, 2016, Philadelphia.

### Joseph R. Leventhal, MD, PhD

Invited Speaker, Harvard University, Cambridge, MA, Pursuing Chimerism to Achieve Transplantation Tolerance: The Good, the Bad, and the Ugly, 2016.

Invited Speaker, Controversies in Transplantation Conference, Cell Therapy in Kidney Transplantation, Breckenridge, CO 2016.

Invited Speaker, Medical University of Vienna, Austria, Tolerance Through Chimerism: a clinician's first hand experience, 2016.

Invited Speaker, Living Donor Abdominal Organ Transplant Conf, Trieste, Italy, Intra-graft Molecular Pathways Associated w/Tolerance Induction in Renal Transplantation, 2016.

Invited Speaker, Grand Rounds, Houston Methodist Hospital, 2017.

Invited Speaker, AST Cutting Edge of Transplantation, "Who Needs T Regs if you Have Facilitator Cells & Chimerism?" Phoenix, AZ 2017.

Invited Speaker, American Council on ECP, New York, NY, 2017.

Invited Speaker, 3rd Int'l Workshop on Clinical Tolerance, Stanford, CA 2017.

### S. Chris Malaisrie, MD

Speaker. "Pulmonary hypertension and chronic pulmonary thromboembolism". Advances in Pulmonary Hypertension 2016 Symposium. Northwestern University. Chicago, IL, Aug. 2016.

Speaker. "Valve in Valve Percutaneous Mitral Valve Replacement". 3rd Annual Chicago CSI Case-Based Coronary and Structural Heart Intervention (CSI) Update. Northwestern Medicine. Chicago, IL, Sept. 2016.

Keynote Speaker. "The role of 4DMR in surgery of the thoracic aorta". 28th Annual International Conference. Society for Magnetic Resonance Angiography. Northwestern Medicine. Chicago, IL, Sept. 2016.

Speaker. Controversies & Catastrophes in Adult Cardiac Surgery. "Tricuspid Valve reconstruction with Cormatrix." 30th EACTS Annual Meeting. Barcelona, Spain, Oct. 2016.

Speaker. Aspirin and Plavix for Mechanical Aortic Valves: Will It Always Be the Future? AHA Scientific Sessions 2016. New Orleans, LA, Nov. 2016.

Speaker. Valve Surgery for Heart Failure: Surgical Techniques and Percutaneous Options. 12th Annual Heart Failure Holiday Symposium. Northwestern University. Chicago, IL, Dec. 2016.

Speaker. Coronary artery disease and Diabetes. TPAAC 2017 Convention. Bangkok, Thailand, Feb. 2017.

Speaker. "Aortic Root Reimplantation: Technical Considerations" ASCVTS 2017 Annual Meeting. Seoul, Korea, Mar. 2017.

Speaker. "Outcomes after Transcatheter and Surgical Aortic Valve Replacement in Intermediate Risk Patients with Preoperative Mitral Regurgitation: Analysis of PARTNER IIA Randomized Cohort." AATS 2017 Annual Meeting. Boston, MA, May 2017.

### James M. Mathew, PhD

Invited Speaker, Clinical Transplant Tolerance – Coming of Age. Keynote Speaker. 6th International Immunology Conference and Expo, Chicago Oct. 24-26, 2016.

Invited Speaker, Immune Tolerance in Clinical Transplantation. Annual Meeting of the Renal Physicians of America; Nashville, TN, March 17-19, 2017.

Levitsky L\*, **Mathew JM**, Miller J, Heinrichs J, Huang X, Abecassis MM. Immunosuppression Withdrawal in Liver Transplant Recipients on Sirolimus. *Hepatology*, 2016; 63: 1S. 1A.

Gallon L\*, Leventhal JR, D. Maluf, V. Sai Bontha, A. Shetty, O. Traitanon, M. Javeed Ansari, **Mathew JM**, S. Wongraphairot and Mas. Molecular profiles of renal allograft biopsies at 12 Months Post Renal Transplant in Patients Exposed to Low Dose CNi and Everolimus vs. Patients Exposed to Full Dose CNi and MMF. *Am J Transplant*. 2017; 17 (suppl 3).

Leventhal J\*, Galvin J, **Mathew JM**, Gallon L, Stare D, Sweeny A, Miller J, Abecassis M, Ildstad S. Eight Year Follow-Up of a Phase 2 Clinical Trial to Induce Tolerance in Living Donor Renal Transplant Recipients. *Am J Transplant*. 2017; 17 (suppl 3).

### Michael F. McGee, MD

Colonoscopic Polypectomy, Postgraduate Flexible Endoscopy Course, American College of Surgeons Clinical Congress, Washington, DC, October 16, 2016.

Enhanced Recovery After Surgery, Which Components, If Any Impact on the Systemic Inflammatory Response After Surgery? American College of Surgeons Clinical Congress, Washington DC, October 18, 2016.

Putting patients to work: Improving Surgical Quality with Patient Activation, Rush University Department of Surgery Grand Rounds, March 15, 2017, Chicago, IL.

Making a Decision Regarding Surgical Resection of Malignant Colon and Rectal Polyps: Patient Factors, Patient Wishes and Polyp Pathology. DDW Combined Clinical Symposium, Chicago, IL, May 6, 2017.

Minimally Invasive Rectal Cancer Surgery: Laparoscopic? Robotic? Open? SSAT and ISDS Joint Symposium: Minimally Invasive Frontier in GI Surgery, Society for Surgery of the Alimentary Tract (SSAT) / DDW, May 9, 2017.

### Shari L. Meyerson, MD

Sternbach JS\*, Bender EM, Zwischenberger JB, **Meyerson SL**. Resident autonomy in the operating room: Expectations versus reality. Society of Thoracic Surgeons 53rd Annual Meeting, Houston, TX, January 23, 2017.

# FACULTY PRESENTATIONS

## Shari L. Meyerson, MD (cont.)

Williams RG, George BC, **Meyerson SL**, Bohnen JT, Dunnington GL, Schuller MC, Torbeck L, Mullen JT, Auyang E, Chipman J, Choi J, Choti M, Endean E, Foley EF, Mandell S, Meier A, Smink D, Terhune KP, Wise P, DaRosa D, Soper N, Zwischenberger JB, Lillemoe K, Fryer JP\*. What factors influence attending surgeon decisions about resident guidance in the operating room? 12th Annual Academic Surgical Congress. Las Vegas, NV, February 9, 2017.

**Meyerson SL\***, Sternbach JM, Zwischenberger JB, Bender EM. The effect of gender on resident autonomy in the operating room. Association of Program Directors in Surgery. San Diego, CA, April 18, 2017.

Karim AS\*, Sternbach JM, Bender EM, Zwischenberger JB, **Meyerson SL**. Developing strategies to help faculty improve operative performance feedback to residents using qualitative analysis. Association of Program Directors in Surgery. San Diego, CA, April 20, 2017.

George BC\*, Bohnen JD, Williams RG, **Meyerson SL**, Schuller MC, Meier AH, Torbeck L, Mandell SP, Mullen JT, Smink DS, Chipman JG, Auyang ED, Terhune KP, Wise PE, Choi JN, Foley EF, Dimick JB, Choti MA, Soper NJ, Lillemoe KD, Zwischenberger JB, Dunnington GL, DaRosa DA, Fryer JP. Readiness of US general surgery residents for independent practice. American Surgical Association. Philadelphia, PA, April 22, 2017.

## David L. Nahrwold, MD

Invited Historical Lecture, American Association of Endocrine Surgeons annual meeting, "Surgery, Surgeons, and their College," Orlando, Florida, April 2, 2017.

## Duc Thinh Pham, MD

Updates in Surgical Strategies for Heart Failure Management. Northwest Indiana Heart & Vascular Institute at Methodist Hospitals. Merrillville, IN., May, 2017. (Invited Speaker)

Session IV: Surgical and Interventional Therapies for Heart Failure. Heart Failure Holiday Symposium. Chicago, IL, December 2016 (Moderator)

Session IV: Durable Mechanical Circulatory Support: LVADs, Now and in the Future Chicago, IL, December 2016 (Speaker)

The 12th Annual Heart Failure Holiday Symposium. Chicago, IL December 2016 (Course Director)

Session Title: Surgical Treatment of HF: Mechanical Support, Transplant or Management of Arrhythmias. American Heart Association Scientific Sessions. New Orleans, LA, November 2016 (Invited Poster Professor)

HeartWare Field Clinical Call/Ask The Experts Webinar: HMII – hVAD exchanges. October 2016 (Invited Presenter)

"Biventricular Support - When One Device is Not Enough" 3rd Annual Chicago Case-Based Coronary & Structural Heart Intervention. Chicago, IL September 2016 (Invited Speaker)

Session VIII: Heart Failure. 38th Annual ECHO Northwestern. September 2016 (Panelist)

"Cardiac Assist Devices: What are they and how can echo help?" Session VIII: Heart Failure. 38th Annual ECHO Northwestern. Chicago, IL September 2016 (Invited Speaker)

Session I: Valvular Heart Disease. 38th Annual ECHO Northwestern. Chicago, IL September 2016 (Panelist)

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)

Course 10: Mechanical Circulatory Support. STS 53rd Annual Meeting, STS University Task Force. Houston, Tx, January 2017 (Table Instructor)

Adult Cardiac Track III STS 53rd Annual Meeting. STS 53rd Annual Meeting, Houston, Tx, January 2017 (Moderator)

Session 11: Intermediate and chronic support for ambulatory heart failure. Heartware MVAD/ BiVAD, DHF Meeting. Paris, France, December 2016 (Invited Speaker/Panelist)

## William H. Pearce, MD

Moderator, "Current Issues in Vascular Surgery", 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8-10, 2016.

Moderator, "Complex Arterial and Venous Diseases", 41st Annual Northwestern Vascular Symposium, Chicago, IL, December 8-10, 2016.

## Joseph A. Posluszny, Jr., MD

Sean P. Nassoioy DO, Robert H. Blackwell MD, McKenzie Brown BS, Anai N. Kothari MD, Timothy Plackett DO, FACS, Paul C. Kuo MD, MBA, FACS, Joseph A. Posluszny MD. Development of Atrial Fibrillation Following

Trauma Increases Risk of Short-Term Risk of Cardiovascular Events. American College of Surgeons Chicago Committee on Trauma, Resident Research Competition. Chicago, IL. September 2016. Oral Presentation (Second Place, Clinical)

## Heron E. Rodriguez, MD

Distinguished Lecturer: Conferencia Magistral: Surgical Education in the US. At the 70th Annual Reunion of University Programs in Vascular and Endovascular Topics. September 1-3, 2016. Cantalagua, Estado de México, México.

Invited Faculty. Aggressively Treating Deep Obstruction is as Important as Superficial Ablation in Treating Venous Insufficiency. 40th Annual Midwestern Vascular Meeting, Columbus, OH. September 9, 2016.

Invited Faculty. Experiencia en el manejo de cateteres intraarteriales colocados en forma accidental. Summit Cirujanos Endovasculares de Latinoamerica 2016 / 4tas Jornadas Internacionales de la Sociedad Uruguaya de Cirujanos Vasculares y Endovasculares. September 15, 2016. Montevideo, Uruguay.

Invited Faculty. Filtros de Cava Temporales que deben ser Permanentes: Experiencia con más de Mil Casos. Summit Cirujanos Endovasculares de Latinoamerica 2016 / 4tas Jornadas Internacionales de la Sociedad Uruguaya de Cirujanos Vasculares y Endovasculares. September 15, 2016. Montevideo, Uruguay.

Invited Faculty. Manejo de Lesiones Oclusivas de los Troncos Supraorticos. Summit Cirujanos Endovasculares de Latinoamerica 2016 / 4tas Jornadas Internacionales de la Sociedad Uruguaya de Cirujanos Vasculares y Endovasculares. September 15, 2016. Montevideo, Uruguay.

Invited Faculty. Manejo de la Insuficiencia Venosa Cronica: ¿Es suficiente tartar el reflujo safeno o se debe tartar la obstruccion? 48 Congreso Nacional de Angiología y Cirugía Vascular. October 28, 2016. Chihuahua, Mexico.

Invited Faculty. Opciones de revascularización de la iliaca interna durante el manejo de aneurismas Aorto iliacos. 48 Congreso Nacional de Angiología y Cirugía Vascular. October 28, 2016. Chihuahua, México.

Invited Faculty. Opciones en el manejo de endofugas tipo 2. 48 Congreso Nacional de Angiología y Cirugía Vascular. October 28, 2016. Chihuahua, Mexico.



# FACULTY PRESENTATIONS

## Heron E. Rodriguez, MD (cont.)

Invited Faculty. Management of Internal Iliac Artery Aneurysms. 41st Annual Northwestern Vascular Symposium, Chicago, IL. December 10, 2016.

Invited Faculty. "Venous aneurysms, what are they? Why are they important? How are they treated?" CADECI/TCT 2017. Guadalajara, México. February 24, 2017.

Invited Faculty. Step by Step Management of Patients with Venous Thoracic Outlet Syndrome. CADECI/TCT 2017. Guadalajara, México. February 25, 2017.

Invited Faculty. Venous Insufficiency: Is it enough to treat the saphenous reflux or should obstruction be resolved? CADECI/TCT 2017. Guadalajara, México. February 25, 2017.

Invited Faculty. Retrieval Vena Cava Filters: Indications and complications. CADECI/TCT 2017. Guadalajara, México. February 25, 2017.

Invited Faculty. Modern Management of Visceral Dissections. University of Maryland Vascular Symposium, Baltimore, Maryland. May 5, 2017.

## Anat Roitberg-Tambur, DMD, PhD

Overview of Advances in HLA Diagnostics –TTS, Hong Kong, August 2016.

Immunogenicity – Are All HLA Epitopes the Same? –TTS, Hong Kong, August 2016.

What Does the Antibody See - –TTS, Hong Kong, August 2016.

HLA Epitopes As Viewed By Antibodies – What is it All About For Clinical Transplantation - Buenos Aires Transplant Society, Buenos Aires, September 2016.

Assessing Antibody Strength: Comparison of MFI, C1q, and Titer Information - Buenos Aires Transplant Society, Buenos Aires, September 2016.

Finding The Best Match; Looking At The Epitope – CEOT, Arizona, February 2017.

DSA Monitoring as an End Point – BANFF Working Group Conference, Barcelona, March 2017.

HLA Antibodies, Donor Specific Antibodies, and How to Measure Them. ISHLT, San Diego April 2017.

Consideration of Quantitative Use of HLA Antibody Assays - FDA, Bethesda, April 2017.

Importance of HLA Antibodies in Transplantation. IPTA, Barcelona, May 2017.

## Steven J. Schwulst, MD

The Role of Innate Immunity in Traumatic Brain Injury. 8th Congress of the International Federation of Shock Societies. Tokyo, Japan. October 3-5, 2016.

Nonclassical Monocytes are Required for Neutrophil Recruitment in Traumatic Brain Injury. Shock Society, 40th Annual Conference on Shock. Ft. Lauderdale, FL. June 3-6, 2017.

## Nathaniel J. Soper, MD

Visiting Joaquin S. Aldrete Endowed Lecturer, "Engendering Operative Autonomy in Surgical Training" University of Alabama School of Medicine, Birmingham, AL, October 4, 2016.

Invited Educator: "Meet the Expert Lunch Facilitator" ME113F-The Difficult Gallbladder: Tricks of the Trade, American College of Surgeons Clinical Congress, Washington DC, October 17, 2016.

Invited Co-Moderator: "Cholecystectomy: Choosing the Right Patient for Surgery", American College of Surgeons Clinical Congress, Washington DC, October 18, 2016.

Invited State of the Art Lecturer: "Treatment of Achalasia, 2016", Mexican Association of General Surgery – XL International Congress, Merida, Mexico, October 31, 2016.

Invited Co-Moderator: "Cholecystectomy: Choosing the Right Patient for Surgery", American College of Surgeons Clinical Congress, Washington DC, October 18, 2016.

Invited State of the Art Lecturer: "Treatment of Achalasia, 2016", Mexican Association of General Surgery – XL International Congress, Merida, Mexico, October 31, 2016.

Invited Lecturer: "Update on the POEM Procedure", Mexican Association of General Surgery – XL International Congress, Merida, Mexico, November 1, 2016.

Invited lecturer: "Treatment of Achalasia, 2017", XII Latin American Congress of Surgery (FELAC), Lima, Peru, March 15, 2017.

Invited Speaker: "Surgical Management of Choledocholithiasis", XII Latin American Congress of Surgery (FELAC), Lima, Peru, March 15, 2017.

Invited Speaker/President of SSAT: "Importance of SSAT", XII Latin American Congress of Surgery (FELAC), Lima, Peru, March 15, 2017.

Invited Keynote Speaker: "Engendering Operative Autonomy in Surgical Trainees", 10th Annual Olga Jonasson Symposium, 9th Warren H. Cole Society Scientific Meeting, Chicago, IL, June 2, 2017.

## Jonah J. Stulberg, MD, PhD, MPH

Invited Speaker. Northwestern University Feinberg School of Medicine, Perioperative Clinic Optimization Meeting, Preoperative Optimization in Geriatric Patients, Chicago, IL, September 28, 2016.

Invited Speaker. 6th Annual Feinberg Medical Education Day, Northwestern University Feinberg School of Medicine, Video-Based Technical Skills Assessment: The Future of Surgical Teaching?, Chicago, IL, September 30, 2016.

Discussant. 102nd Annual Clinical Congress of the American College of Surgeons, Quality, Safety and Outcomes II Session, Washington, DC, October 18, 2016.

Discussant. 102nd Annual Clinical Congress of the American College of Surgeons, General Surgery II Session, Washington, DC, October 19, 2016.

Discussant. 102nd Annual Clinical Congress of the American College of Surgeons, Safety and Outcomes IV Session, Washington, DC, October 19, 2016.

Co-moderator. 2017 ISQIC Semi-Annual Meeting, Surgeons and the Opioid Epidemic: ISQIC Panel Discussion, Naperville, IL, January 20, 2017.

Moderator. 2017 ISQIC Semi-Annual Meeting, Video-Based Coaching Initiative and Live Video Scoring, Naperville, IL, January 20, 2017.

Invited Speaker. Midwest Podiatry Conference, Pain Management and Opioid Safety, Chicago, IL, April 30, 2017.

Invited Speaker. ACS Quality and Safety Conference 2017, Opioid Sparing Surgery, New York, NY, July 21, 2017.

Presenter. ACS Quality and Safety Conference 2017, Are Low-Risk Surgeries Safe for Elderly Patients? Patient Age, Surgical Complexity, and Postoperative Outcomes Following Elective Surgery, New York, NY, July 22, 2017.

# FACULTY PRESENTATIONS

## Mamta Swaroop, MD

Marissa A. Boeck, J. Esteban Foianini, German Toledo, Jose Carlos Camacho, Oscar Morales Gutiérrez, Lorena Jauregui, Pablo Mercado, J, Adil H. Haider, **Mamta Swaroop**. Injuries in Bolivia: Initial Trauma Registry Results from Five Hospitals in Santa Cruz de la Sierra. Oral Podium Presentation at Pan AM Trauma Society Nov 2016 (Maceio, Brazil).

Leah C. Tatebe, Sedona Speedy, Sheila Regan, Addie Boone, Franklin Cosey-Gay, LeVon Stone, Michael Shapiro, **Mamta Swaroop**. Empowering Bystander to Intervene: The Health Belief Model and Chicago's South Side. Oral Podium Presentation at the ASC, Feb 2017, Las Vegas, Nevada.

Hot Topics: Creator and Invited Speaker Global Surgery, Just a Hobby or a Viable Career Path, Feb. 2017.

South, Samuel, Foianini, Jorge Esteban, Boeck, Marissa, Penaranda, Pablo, Monasterio, Joaquin, Swaroop, Mamta. Global Surgery Indicators Guide Legislative Advocacy in Lower- and Middle-Income Countries. Oral Podium Presentation at the Region IX COT. Montevideo, Uruguay, May 2017.

Invited Panelist, International College of Surgeons, Seattle, WA (declined invitation), June 2017.

Varshini Cherukupalli, Nirmal Thakur, Nitika Suria, Irene Helenowski, Ashish Bhalla, Sanjeev Bhoi, **Mamta Swaroop**, Implementation and Evaluation of First Responders Course in Nanakpur, Haryana, India. ORAL PODIUM Presenter: Cherukupalli. Academic International Medicine. July 29, 2017.

Chintan Pathak, Jack Cavanaugh, Srinarshini Cherukupalli, Rakesh Singh, Nitika Suria, Ashish Bhalla, **Mamta Swaroop**, Identifying Barriers to Community Health Worker Success in Rural India. QUICK SHOT Presenter: Pathak. Academic International Medicine. July 29, 2017.

SM Siddiqui, P Murphy, M Saeed, S Shafqat, Z Mehmood, S Mattar, JJ Coleman, **M Swaroop**. Is Surgical Training the Same Everywhere? Evaluating International Surgical Training Programs using ACGME Competencies. QUICK SHOT Presenter: Saeed. Academic International Medicine. July 29, 2017.

Creator and Moderator, Simulation and Technology in International Medicine, Academic International Medicine, Tampa, FL, July 2017.

Co-Creator and Co-Moderator, Women in

International Medicine, Academic International Medicine, Tampa, FL., July 2017.

Panelist, Role of Entrepreneurship in Global Health, Academic International Medicine, Tampa, FL, July 2017.

## Tadaki M. Tomita, MD

Yoon DY, Hekman KE, Mansukhani N, Hoel AW, Rodriguez HE, Pearce WH, Eskandari MK, Tomita TM. POOR OUTCOMES IN OBESE PATIENTS AFTER MESENTERIC REVASCULARIZATION FOR CHRONIC MESENTERIC ISCHEMIA. *Midwestern Vascular* 2016. September 8-10, 2016. Columbus, OH.

Tomita TM (moderator). Lower Extremity Venous Disease. 41st Annual Northwestern Vascular Symposium. December 8-10, 2016. Chicago, IL.

Tomita TM. Chronic Mesenteric Ischemia in Obese Patients. 41st Annual Northwestern Vascular Symposium. December 8-10, 2016. Chicago, IL.

Tomita TM. Abdominal Aortic Aneurysm. Lake Forest Symposium 2017. March 3, 2017. Lake Forest, IL.

## Jeffrey D. Wayne, MD

Surgical Management of Melanoma. Lurie Cancer Center Multidisciplinary Head and Neck Cancer Symposium. December 4, 2016.

## Jason A. Wertheim, MD, PhD

Wertheim, J.A. "(Re)Building Organs: When Biology Meets (Bio)Engineering" Anthony B. Rishwain Lectureship and Surgical Grand Rounds Presentation, University of California San Francisco (October 2016).

Wertheim, J.A. "Tissue Bioengineering and 3D Scaffolds for Stem Cell Development" Farago Visiting Professorship Series in Organ Transplantation and Grand Rounds Lectureship, Scripps Mercy Hospital, (October 2016).

Wertheim, J.A. "Nanotechnology and Preservation" Transplant Surgery Workshop, The Liver Meeting, Boston, MA (November 2016).

Wertheim, J.A. "Novel Technology for Liver Regeneration and Replacement" AASLD/ILTS Transplant Course, The Liver Meeting, Boston, MA (November 2016).

Wertheim, J.A. "Scaffolds for biological repair, tissue engineering and measurement of cell and tissue function." 7th Persh Workshop: The Interface between materials and biology,

Alexandria, VA. (February 2017).

Wertheim, J.A. "Bioengineered Organs" American Society for Artificial Internal Organs. Chicago, IL (June 2017).

Wertheim, J.A. "Scaffolds for stem cell development and tissue bioengineering to address organ shortage in transplantation" Grand Rounds, University Hospital, London Health Sciences Centre, London, ON, Canada (June 2017).

## Anthony D. Yang, MD, MS

Presenter. 6th Annual Feinberg Medical Education Day, Northwestern University Feinberg School of Medicine, Differences in Resident Perceptions of Duty Hour Policies by Level of Training: An Analysis from the FIRST Trial, Chicago, IL, September 30, 2016.

Presenter. Northwestern MEN Patient and Family Seminar, Minimally Invasive Surgery for Pancreatic Tumors in Multiple Endocrine Neoplasia, Chicago, IL, October 22, 2016.

Presenter. PCPI Fall Conference, Utilization of Novel Composite Process Measure to Improve VTE Prophylaxis in a Statewide Collaborative, Chicago, IL, October 27, 2016.

Presenter. 6th Annual Feinberg Medical Keynote Speaker. Canadian Partnership Against Cancer Electronic Synoptic Surgery Quality Initiative Network Forum, On The Road to Improving Surgical Quality: Tales from the Frontlines, Toronto, Ontario, Canada, April 6, 2017.

Keynote Speaker. VTE Safety Summit of the Hospital Improvement Innovation Networks/Midwest Alliance for Patient Safety (MAPS) Patient Safety Organization (PSO), Illinois Hospital Association, Improving Venous Thromboembolism Prophylaxis in Hospitalized Patients: From Measurement to Action, Naperville, IL, May 3, 2017.

Invited Speaker. Illinois Association for Healthcare (IAHQ) Annual Conference, Data-Driven Quality Improvement: Using Quality Measure Performance to Reduce Venous Thromboembolism, Naperville, IL, May 5, 2017.

Invited Speaker. ACS Quality and Safety Conference, Training Champions: A Quality Improvement Mentorship Program for Statewide Process Improvement, New York, NY, July 22, 2017.

# FACULTY PUBLICATIONS

## Michael M. Abecassis, MD

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 kidney transplant recipients. *Clinical Transplantation*. 2016 Oct;30(10): 1294-1305. doi: 10.1111/ctr.12821. Epub 2016 Aug 29.

Mesnard L, Muthukumar T, Burbach M, Li C, Shang H, Dadhania D, Lee JR, Sharma VK, Xiang J, Suberbielle C, Carmagnat M, Ouali N, Rondeau E, Friedewald JJ, **Abecassis MM**, Suthanthiran M, Campagne F. Exome Sequencing and Prediction of Long-Term Kidney Allograft Function. *PLoS Comput Biol*. 2016 Sep 29; 12(9):e1005088. doi: 10.1371/journal.pcbi.1002088. eCollection 2016.

**Abecassis M**, Kaplan B. Caveat emptor: the devil is still in the detail. *Nat Rev Nephrol*. 2016 Nov 14. doi: 10.1038/nrneph.2016.161 [Epub ahead of print]

Skaro AI, Gallon LG, Lyuksemburg V, Jay CL, Zhao L, Ladner DP, VanWagner LB, De Wolf AM, Flaherty JD, Levitsky J, **Abecassis MM**, Gheorghide M. The impact of coronary artery disease on outcomes after liver transplantation. *J Cardiovasc Med (Hagerstown)*. 2016 Dec; 17(12):875-885. PMID: 25517876.

Alphs Jackson H, Giblin J, **Abecassis M**. Paths to Value: The Act of Improvement versus the Habit of Excellence. *NEJM Catalyst* article. January 25, 2017: <http://catalyst.nejm.org/pay-for-performance-paths-to-value/>

Heimbach J, Kulik LM, Finn R, Sirlin CB, **Abecassis M**, Roberts LR, Zhu A, Murad MH, Marrero J. AASLD Guidelines for the Treatment of Hepatocellular Carcinoma. *Hepatology*. 2017 Jan 28. doi: 1002/hep.29086. [Epub ahead of print]

Kurian SM, Velazquez E, Thompson R, Whisenant T, Rose S, Riley N, Harrison F, Gelbart T, Friedewald JJ, Charrette J, Brietigam S, Peysakhovich J, First MR, **Abecassis MM**, Salomon DR. Orthogonal Comparison of Molecular Signatures of Kidney Transplants with Subclinical and Clinical Acute Rejection – Equivalent Performance is Agnostic to either Technology or Platform. *Am J Transplant*. 2017 Feb 11. doi: 10.1111/ajt. 14224 [Epub ahead of print]

O'Connell PJ, Kuypers D, Mannon RR, **Abecassis M**, Chadban S, Gill JS, Murphy B, Nickerson PW, Schold JD, Stock P, Seron D, Alloway R, Bromberg J, Budde K, Jordan S, Legendre C, Lefaucher C, Sarwall M, Segev D, Stegall MD, Tullius SG, Wong G, Woodle ES, Ascher N,

Morris RE. Clinical Trials for Immunosuppression in Transplantation; The Case for Reform and Change in Direction. *Transplantation*. 2017 Feb 15. doi: 10.1097/TP.0000000000001648. [Epub ahead of print]

Atiemo K, Skaro A, Maddur H, Zhao L, Montag S, VanWagner L, Goel S, Kho A, Ho B, Kang R, Holl JL, **Abecassis MM**, Levitsky J, Ladner DP. Mortality Risk Factors Among Patients with Cirrhosis and a Low ( $\leq 15$ ) MELD Sodium Score: An Analysis of Liver Transplant Allocation policy Using Aggregated Electronic Health Record Data. *Am J Transplant*. 2017 Feb 22. doi: 10.1111/ajt.14239. [Epub ahead of print]

Kurian SM, Whisenant T, Mas V, Heilman R, **Abecassis MM**, Salomon DR, Moss A, Kaplan B. Biomarker Guidelines for High-Dimensional Genomic Studies in Transplantation: Adding Method to the Madness. *Transplantation*. 2017 Mar;101(3):457-463. doi: 10.1097/TP.0000000000001622.

Levitsky J, Goldberg DS, Smith AR, Mansfield SA, Gillespie BW, Merion RM, Lok AS, Levy G, Kulik L, **Abecassis M**, Shaked A. Acute rejection increases risk of graft failure and death in recent liver transplant patients. *Clin Gastroenterol Hepatol*. 2017 Apr;15(4):584-593.e2. PMID: 27567694. PMCID: 5326609.

Toby TK, **Abecassis M**, Kim K, Thomas PM, Fellers RT, LeDuc RD, Kelleher NL, Demetris J, Levitsky J. Proteoforms in Peripheral Blood Mononuclear Cells as Novel Rejection Biomarkers in Liver Transplant Recipients. *Am J Transplant*. 2017 May 16. doi: 10.1111/ajt.14359 [Epub ahead of print]

Mutharasan RK, Kansal P, Alphs Jackson H, Benacka, Fortman R, Navarro D, Ahmad F, **Abecassis MM**, Anderson AS, Davidson C, Noskin G, Soulakis N, Yancy C. Hospitalized Heart Failure Incidence is Significantly Underestimated by Diagnosis-Related Group Codes. *Journal of Cardiac Failure*, 2016; 22(8): S133.

Mutharasan RK, Kansal P, **Abecassis MM**, Alphs Jackson H, Anderson AS, Benacka C, Berry Jaeker JA, Davidson C, Gurchich I, Navarro D, Noskin GA, Schaeffer-Pettigrew C, Soulakis ND, Van Miegham J, Yancy CW. Heart Failure Care Transitions: A Queuing Theory Approach to Match Variable Hospital Discharge Rate with Outpatient Clinic Capacity. *Circ Cardiovasc Qual Outcomes*. 2016;9:A161.

Mutharasan RK, Kansal P, **Abecassis MM**, Alphs Jackson H, Anderson AS, Benacka C, Berry Jaeker JA, Davidson C, Gurchich I, Navarro D, Noskin GA,

Schaeffer-Pettigrew C, Soulakis ND, Van Miegham J, Yancy CW. Enterprise Data Warehouse-Supported Early Identification of Acute Decompensated Heart Failure Admissions for Efficient and Multidisciplinary Care Team Interventions. *Circ Cardiovasc Qual Outcomes*. 2016;9:A152.

Mutharasan RK, Kansal P, Alphs Jackson H, Anderson A, **Abecassis M**, Davidson C, Noskin G, Gurchich I, Van Miegham J, Yancy C. Heart Failure Care Transitions: Queuing Theory-based Cost-Effectiveness Analysis of Outpatient Clinic Capacity Sizing. *Journal of the American College of Cardiology*, 2017, In Press.

Youmans Q, Kansal P, Alphs Jackson H, Fortman R, Navarro D, **Abecassis M**, Noskin G, Anderson A, Davidson C, Yancy C, Mutharasan RK. Hospitalized Heart Failure Epidemiology: Active Surveillance to Enhance Inpatient Cardiology Consultation Rates. *Circulation Cardiovasc Qual Outcomes*, 2017, In Press.

## David J. Bentrem, MD

Mazmudar A, Vitello D, Chapman M, Tomlinson J, **Bentrem DJ**. Gender as a risk factor for adverse intraoperative and postoperative outcomes of elective pancreatectomy. *JSO* 2017;115(2):131-6.

Ethun C, Postlewait L, Merchant N, Parikh A, Hawkins W, Fields R, Weber S, Cho C, Martin R, Scoggins R, **Bentrem DJ**, Kim HJ, Abbott D, Kooby D and Maithel S. The diagnosis of pancreatic mucinous cystic neoplasms and associated adenocarcinoma in males: an 8 institution study of 349 patients over 15 years. *JSO* 2017;115(7):784-7

Ethun C, Pawlik T, Fields R, Weber S, Cho C, Martin R, Scoggins R, Schmidt C, **Bentrem DJ**, Ahmad S, Abbott D, Kim HJ, Merchant N, Staley C, Kooby D and Maithel S. Distal cholangiocarcinoma and pancreas adenocarcinoma: are they really the same disease? a 13-institution study from the US extrahepatic biliary malignancy consortium and the central pancreas consortium. *JAMASurgery* 2017;224(4):406-13.

Zureikat A, Borrebach J, McGill D, Hogg M, **Bentrem DJ**, Hall B, Pitt H, Zeh H. Minimally invasive hepatopancreatobiliary surgery in North America: An ACS-NSQIP Analysis of predictors of conversion for laparoscopic and robotic pancreatectomy and hepatectomy. *HPB* 2017;19(7):595-02



# FACULTY PUBLICATIONS

## David J. Bentrem, MD (cont.)

Andreatos N, Gani F, Sasaki K, **Bentrem DJ**, Hall B, Pitt H, Wilson S, Pawlik T. Albumin-Bilirubin score: Predicting short-term outcomes including bile leak and post-hepatectomy liver failure following hepatic resection. *JOGS* 2017;21(2):238-48.

Xia B, Ahmad S, Maithel S, Kooby D, Cho C, Weber S, Talamonti M, **Bentrem DJ**, Abbott D. Time to initiation of adjuvant chemotherapy in pancreas cancer: a multi-institutional experience. *Ann Surg Onc* 2017.

Lutfi W, Talamonti M, Kantor O, Wang C, **Bentrem DJ**, Roggin K, Winchester DJ, Marsh R, Prinz R and Baker M. Neoadjuvant external beam radiation is associated with no benefit in overall survival for early stage pancreatic cancer. *Am J Surgery* 2017;213(3):521-5.

Schultz M Schultz M, Diaz A, Smite S, DeCant B, McKinney R, Mascarinas W, Poole L, **Bentrem DJ**, Dawson D Grippo P. Thioredoxin system-mediated regulation of mutant Kras associated pancreatic neoplasia and cancer. *Oncotarget*- accepted 6.2017

Nikolaos A, Amini N, Gani F, Sasaki K, Thompson V, **Bentrem D**, Hall B, Pitt H, Wilson A, Pawlik T. Albumin-bilirubin score: Predicting short term outcomes including bile leak and post-hepatectomy liver failure following hepatic resection. *JOGS* 2016;21(2):238-50.

Kantor O, Talamonti M, Sharpe S, Winchester DJ, Roggin K, **Bentrem DJ**, Prinz R, Baker M. Laparoscopic pancreaticoduodenectomy for adenocarcinoma provides short-term oncologic outcomes and long-term overall survival rates similar to those for open pancreaticoduodenectomy. *Amer J Surg* 2017;213(3):512-5.

Kantor O, Talamonti M, Winchester DJ, **Bentrem DJ**, Prinz R, Baker M. Extent of vascular resection predicts perioperative outcomes in pancreaticoduodenectomy for pancreatic cancer. *HPB* accepted 7/17.

Kumar K, DeCant B, Grippo P, Hwang R, **Bentrem DJ**, Ebine K, and Munshi H. BET inhibitors block pancreatic stellate cell collagen I production and attenuate fibrosis in vivo. *JCI Insight* 2017;2(3).

Rajaram R, Mohanty S, **Bentrem DJ**, Odell D, Bharat A, Bilimoria KY, DeCamp M. Nationwide assessment of robotic lobectomy for non-small cell lung cancer. *Ann Thor Surg* 2017;103(4):1092-100.

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. *JOGS* 2016;20(9):1608-17.

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* 2017;152(1):19-25.

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

Wilson G, Maithel S, **Bentrem DJ**, Abbott D, Weber S, Cho C, Martin R, Scoggins C, Kim HJ, Merchant N, Kooby D, Ahmad S. Are the Current Guidelines for the surgical management of IPMN of the Pancreas adequate? *JAMA Surg* 2017;224(4):461-9.

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* 2016;160(3):714-24.

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* 2016;113(2):175-80.

## Ankit Bharat, MBBS

Dr Kreisel et al. PD-1 expression on CD8+ T cells regulates their differentiation within lung allografts and is critical for tolerance induction. *American Journal of Transplantation*. Online first. 21 July 2017.

**A Bharat**. Catamenial pneumothorax: A matter of anamnesis. *The Annals of Thoracic Surgery*, Volume 104, Issue 1, July 2017, Pages 368-369.

C Mehta, A Hoel, C Malaisrie, **A Bharat**. Aorto-esophageal fistula resulting from aortic endograft migration. *Journal of Thoracic and Cardiovascular Surgery*. E-pub ahead of print. 22 June 2017.

A. Misharin et al. Monocyte-derived alveolar macrophages drive lung fibrosis and persist in the lung over the lifespan. *JEM* 08-07-2017 issue, vol. 214 no. 8.

Z Zhikun... **A Bharat**. Donor pulmonary intravas-

cular nonclassical monocytes recruit recipient neutrophils and mediate primary lung allograft dysfunction. *Science Translational Medicine*. 14 June 2017: Vo. 9, Issue 394, eaa14508.

**A Bharat**, GRS Budinger, MG Ison. A new lethal donor-derived infection in lung transplant recipients. *Journal of Heart and Lung Transplantation*. E-pub ahead of print. 24 April 2017.

R Rajaram, S Mohanty, DJ Bentrem, ES Pavey, DD Odell, **A Bharat**, KY Bilimoria, MM DeCamp. Nationwide Assessment of Robotic Lobectomy for Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2017 Apr;103(4):1092-1100. PMID:28109575

R Fernandez, Chi, M G Ison, K B Waites, D M Crabb, H Caijigas, M M DeCamp, D Odell, GR S Budinger, **A Bharat**. Sequelae of Donor-derived Mollicutes Transmission in Lung Recipients. *American Journal of Respiratory and Critical Care Medicine*, 2017 Mar 01. 195(5), pp. 687-689. PMID: 27925760.

R Fernandez, JM Tomasko, D Edgren, **A Bharat**. Lobar necrosis from pulmonary embolism. *Am J Respir Crit Care Med*. 2017 Mar 1;195(5):685-686. PMID: 28118020.

R Fernandez, D Crabb, AE Ratliff, K B Waites, **A Bharat**. Ureaplasma transmitted from donor lungs is pathogenic following lung transplantation. *Ann Thorac Surg*. 2017 Feb;103(2):670-671.

J Kanter, F Khan, **A Bharat**. Mobile intramural gastroesophageal junction mass. *JAMA Surgery*, *JAMA Surg*. 2017 Feb 1;152(2):201-202. PMID: 28002554

R Fernandez, D Edgren, **A Bharat**. Pulmonary artery sarcoma. *Am J Respir Crit Care Med*. 2017 Feb 1;195(3):e23-e24. PMID: 27786557.

M J Nooromid, **A Bharat**. Posterior Mediastinal Cyst. *Ann Thorac Surg*. 2017 Jan;103(1):e83

**A Bharat**, T Mohanakumar. Immune responses to tissue-restricted non-major histocompatibility complex antigens in allograft rejection. *Journal of Immunology Research*. Volume 2017, Article ID 6312514.

**A Bharat**, H Cajigas, S Budinger. Spontaneous cerebral hemorrhage and sudden biventricular failure following lung transplantation. *JAMA Cardiol*. 2016 Nov 1;1(8):963-964. PMID:27654933.

## FACULTY PUBLICATIONS

### Ankit Bharat, MBBS (cont.)

T Nicholson, K Raparia, G Mutlu, P Sporn, **A Bharat**. Wandering Pleural Mesothelial Fatty Cyst. *Am J Respir Crit Care Med*. 2016 Nov 1;194(9):1164-1165. PMID: 27556583

C Mehta, K Raparia, **A Bharat**. A fatty tumor compressing the heart. *JAMA Surg*. 2016 Nov 1;151(11):1081-1082. PMID:27652588

**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 Oct;55(4):532-541. PMID: 27144500

**A Bharat**, et al. Humoral human lung allograft rejection by tissue-restricted non-HLA antibodies. *Ann Thorac Surg*. 2016 Oct;102(4):e339-41. PMID:PM5030466

C Mehta, B Stanifer, S Koterski, 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 Oct;102(4):1125-30. PMID:PM5030123

J M Tomasko, S Prasad, M DeCamp, **A Bharat**. Therapeutic anticoagulation-free extracorporeal membrane oxygenation as a bridge to lung transplantation. *J Heart Lung Transplant*. 2016 Jul;35(7):947-8. PMID:27235267

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. Heart-resident CCR2+ macrophages promote neutrophil extravasation through TLR9/MyD88/CXCL5 signaling. *JCI Insight*. Aug 4, 2016;1(12):e87315. PMID: PMC4985028

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. PMID:PMC4912911

### Karl Y. Bilimoria, MD, MS

Zendejas B, Jakub JW, Terando AM, et al. Laparoscopic skill assessment of practicing surgeons prior to enrollment in a surgical trial of a new laparoscopic procedure. *Surg Endosc*. 2016.

Asch DA, **Bilimoria KY**, Desai SV. Resident Duty Hours and Medical Education Policy - Raising the Evidence Bar. *N Engl J Med*. 2017.

Ban KA, Chung JW, Matulewicz RS, et al. Gender-Based Differences in Surgical Residents' Perceptions of Patient Safety, Continuity of Care, and Well-Being: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. *J Am Coll Surg*. 2017;224(2):126-136e122.

Berian JR, Thomas JM, Minami CA, et al. Evaluation of a novel mentor program to improve surgical care for US hospitals. *Int J Qual Health Care*. 2017:1-9.

**Bilimoria KY**, Quinn CM, Dahlke AR, et al. Use and Underlying Reasons for Duty Hour Flexibility in the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. *J Am Coll Surg*. 2017;224(2):118-125.

Blay E, Jr., Hewitt DB, Chung JW, et al. Association Between Flexible Duty Hour Policies and General Surgery Resident Examination Performance: A Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial Analysis. *J Am Coll Surg*. 2017;224(2):137-142.

DeLancey JO, Barnard C, **Bilimoria KY**. Retained Lumbar Catheter Tip. *JAMA*. 2017;317(12):1269-1270.

Engelhardt KE, Wayne JD, **Bilimoria KY**. Editorial: Should We Abandon TNM Staging in Favor of Gene Profiles in Node-Positive Melanoma? *Ann Surg Oncol*. 2017;24(1):3-5.

Hornor MA, **Bilimoria KY**. Moving beyond failure to rescue. *Surgery*. 2017;161(3):791-792.

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*. 2017;265(1):192-196.

Kreutzer L, Dahlke AR, Love R, et al. Exploring Qualitative Perspectives on Surgical Resident Training, Well-Being, and Patient Care. *J Am Coll Surg*. 2017;224(2):149-159.

Liu JB, Berian JR, Chen S, et al. Postoperative Complications and Hospital Payment: Implications for Achieving Value. *J Am Coll Surg*. 2017.

Liu JB, **Bilimoria KY**, Mallin K, Winchester DP. Patient characteristics associated with undergoing cancer operations at low-volume hospitals. *Surgery*. 2017;161(2):433-443.

Matulewicz RS, Odell DD, Chung JW, Ban KA, Yang AD, **Bilimoria KY**. Association Between Resident Perceptions of Patient Safety and Duty Hour Violations. *J Am Coll Surg*. 2017;224(2):113

-117e114.

Minami CA, Barnard C, **Bilimoria KY**. Management of a Patient With a Latex Allergy. *Jama-J Am Med Assoc*. 2017;317(3):309-310.

Minami CA, Odell DD, **Bilimoria KY**. Ethical Considerations in the Development of the Flexibility in Duty Hour Requirements for Surgical Trainees Trial. *Jama Surg*. 2017;152(1):7-8.

Minami CA, Sheils CR, Pavey E, et al. Association Between State Medical Malpractice Environment and Postoperative Outcomes in the United States. *J Am Coll Surg*. 2017;224(3):310-318.

Pasquali S, Sommariva A, Spillane AJ, **Bilimoria KY**, Rossi CR. Measuring the quality of melanoma surgery - Highlighting issues with standardization and quality assurance of care in surgical oncology. *Eur J Surg Oncol*. 2017;43(3):561-571.

Rajaram R, Mohanty S, Bentrem DJ, et al. Nationwide Assessment of Robotic Lobectomy for Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2017;103(4):1092-1100.

Stulberg JJ, Pavey ES, Cohen ME, Ko CY, Hoyt DB, **Bilimoria KY**. Effect of Flexible Duty Hour Policies on Length of Stay for Complex Intra-Abdominal Operations: A Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial Analysis. *J Am Coll Surg*. 2017;224(2):143-148e141.

Yang AD, Chung JW, Dahlke AR, et al. Differences in Resident Perceptions by Postgraduate Year of Duty Hour Policies: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. *J Am Coll Surg*. 2017;224(2):103-112.

Asch DA, **Bilimoria KY**, Desai SV. Resident Duty Hours and Medical Education Policy — Raising the Evidence Bar. *New England Journal of Medicine*. 2017;376(18):1704-6. PubMed PMID: 28402246.

DeLancey JO, Softcheck J, Chung JW, Barnard C, Dahlke AR, **Bilimoria KY**. Associations Between Hospital Characteristics, Measure Reporting, and the Centers for Medicare & Medicaid Services Overall Hospital Quality Start Ratings. *JAMA*. 2017;317(19):2015-7. PubMed PMID: 28510670.

Dahlke AR, Quinn CM, Chung JW, **Bilimoria KY**. Surgical Residents' Work Hours and Wellbeing in Year 2 of the FIRST Trial. *New England Journal of Medicine*. 2017 (in press).

# FACULTY PUBLICATIONS

## Andrei Churyla, MD

**Churyla, A.**, Idriss, A., Kruse, J., Malaisrie, S. C., Passman, R., McCarthy, P. M. Biatrial or Left Atrial Lesion Set for Ablation During Mitral Surgery: Risks and Benefits. *The Annals of Thoracic Surgery*. Oct 2016.

## Mark E. Cohen, PhD

**Cohen, M. E.**, Liu, Y., Hall, B. L., Ko, C. Y. An examination of ACS NSQIP Surgical Risk Calculator accuracy. *Journal of the American College of Surgeons*, 2017, 224, 787-795.

Liu, J. B., Berian, J. R., Chen, S., **Cohen, M. E.**, Bilimoria, K. Y., Hall, B. L., Ko, C. Y. Postoperative Complications and Hospital Payment: Implications for Achieving Value. *Journal of the American College of Surgeons*, 2017, 224, 779-786.

Stulberg, J. J., Pavey, E., **Cohen, M. E.**, Ko, C. Y., Hoyt, D. B., Bilimoria, K. Y., Effect of flexible duty hour policies on length of stay for complex intra-abdominal operations: A flexibility in duty hour requirement for surgical trainees (FIRST) trial analysis. *Journal of the American College of Surgeons*, 2017, 224, 143-148.

Kraemer, K, **Cohen, M. E.**, Barnhart, D. C., Rangel, S. J., Saito, J. M., Bilimoria, K. Y., Ko, C. Y., Hall, B. L. Development and Evaluation of the American College of Surgeons NSQIP Pediatric Surgical Risk Calculator. *Journal of the American College of Surgeons*, 2016 223, 685-693.

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*, 2016, 151, 1084-1086.

Liu, Y. **Cohen, M. E.**, Ko, C. Y., Bilimoria, K. Y., Hall, B. L. Considerations in releasing equations for the American College of Surgeons NSQIP surgical risk calculator. *Journal of the American College of Surgeons*, 2016, 223, 674-675.

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*, 2016, 264, 566-574.

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*, 2016, 223, 231-239.

**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. *Annals of Surgery*, 2016, 264, 966-972.

## James L. Cox, MD

Bedeir K, Holmes DR, **Cox JL**, Ramlawi B: Left atrial appendage exclusion: An alternative to anticoagulation in nonvalvular atrial fibrillation. *Journal of Thoracic and Cardiovascular Surgery*, 2017 May;153(5):1097-1105.

**Cox JL**, McCarthy PM - Invited Expert Review of AATS Expert Consensus Guidelines: Examining Surgical Ablation for Atrial Fibrillation – An Impossible Job Done Well, *Journal of Thoracic and Cardiovascular Surgery*, 2017 Jun;153(6):1355-1356.

**Cox JL**: Preface, *The Adventure of Discovery* by Buckberg GD, 2017 (In Press).

**Cox JL**: Invited Keynote Chapter, “Having seen it all: My vision of AF treatment in 2022”, *European Journal of Cardiothoracic Surgery*, 2017 (In Press).

Quintana E, **Cox JL**: Surgical management of atrial fibrillation at the time of septal myectomy, *Annals of Cardiothoracic Surgery*, (In Press)

**Cox JL**: *The Cut-and-Sew Maze-III Procedure, Operative Cardiac Surgery*, 6th Edition, Publishers Taylor and Francis, London England, 2017 (In Press).

Caliskan E, **Cox JL**, Holmes Jr DR, Meier B, Lakkireddy DJ, Falk V, Salzberg SP, Emmert MY: Current evidence of interventional and surgical management of the left atrial appendage, (In Press).

## Malcolm M. DeCamp, Jr., MD

Fernandez R, Chiu S, Raparia K, Garcha P, Farver C, Budev M, Tambur AR, **DeCamp MM**, Budinger S, Perlman H, Mohanakumar T, Bharat A. Humoral Human Lung Allograft Rejection by Tissue-Restricted Non-HLA Antibodies. *Ann Thorac Surg*. 2016 Oct;102(4):e339-41.

Varlotto J, McKie K, Yao A, Graeber G, Fitzgerald T, Rava PS, Zhang J, Maddox D, Flickinger JC Sr, **DeCamp MM**, Liebmann J, Walsh W, Quadri S, Stock C, Huang L, Uy K. Adjuvant Chemotherapy and Radiation Options and Their Associated Outcomes in Surgically Resected Non-Small Cell Carcinoma. *Int J Radiat Oncol Biol Phys*. 2016 Oct 1;96(2S):E486-E487.

Sternbach JM, **DeCamp MM**. Targeting the Sympathetic Chain for Primary Hyperhidrosis: An Evidence-Based Review. *Thorac Surg Clin*.

2016 Nov;26(4):407-420.

Fernandez R, Chi M, Ison MG, Waites KB, Crabb DM, Ratliff AE, Cajigas H, **DeCamp MM**, Odell D, Budinger GR, Bharat A. Sequelae of Donor-Derived Mollicute Transmission in Lung Recipients. *Am J Respir Crit Care Med*. 2016 Dec 7. [Epub ahead of print]

Rajaram R, Mohanty S, Bentrem DJ, Pavey ES, Odell DD, Bharat A, Bilimoria KY, **DeCamp MM**. Nationwide Assessment of Robotic Lobectomy for Non-Small Cell Lung Cancer. *Ann Thorac Surg*. 2017 Jan 18. [Epub ahead of print]

Mehta CK, Stanifer BP, Fore-Kosterski S, Gilliespie C, Yeldnadi A, Meyerson S, Odell DD, **DeCamp MM**, Bharat, A. Primary Spontaneous Pneumothorax in Menstruating Women Has High Recurrence. *Ann Thorac Surg*. 2016 June 24. pii: S0003-4975 (16)30400-3.doi: 10.1016/j.athoracsur.2016.04.069. [epub ahead of print] PMID: 27345097 [PubMed-as supplied by publisher]

Ettinger, DS, Wood De, Aisner DL, Akerly W, Bauman J, Chirieac LR, D’Amico TA, **DeCamp, MM**, Dilling TJ, Dobeblower M, Doebele RC, Govindan R, Bugens MA, Hennon M, Horn L, Komaki R, Lackner RP, Lanuti M, Leal TA, Leisch LJ, Lilienbaum R, Lin J, Loo BW Jr, Martins R, Otterson GA, Reckamp K, Riely GJ, Schild Se, Shapiro TA, Stevenson J, Swanson SJ, Tauer K, Yang SC, Gregory K, Hughes M. Non-Small Cell Lung Cancer. Version 5.2017. NCCN Clinical Practice Guidelines in Oncology. *J Natl Compr Canc Netw*. 2017 Apr; 15 (4):504-535. PMID 28404761 [PubMed – in process]

Society of Thoracic Surgeons General Thoracic Surgery Database Task Force. The Society of Thoracic Surgeons Composite Score for Evaluating Esophagectomy for Esophageal Cancer. *Ann Thorac Surg*. 2017 May; 103 (5):1661-1667. Doi: 10.1016/j.athoracsur.2016.10.027. Epub 2017 Apr 3. PMID: 28385375 (PubMed – in process)

Feller-Kopman D, Liu S, Geisler BP, **DeCamp MM**, Pietzsch JB. Cost-Effectiveness of a Bronchial Genomic Classifier for the Diagnostic Evaluation of Lung Cancer. *J Thorac Oncol*. 2017 May 11. [Epub ahead of print]

Zhou Q, Dai J, Chen T, Dada LA, Zhang X, Zhang W, **DeCamp MM**, Winn RA, Sznajder JI, Zhou G. Downregulation of PKCζ/Pard3/Pard6b is responsible for lung adenocarcinoma cell EMT and invasion. *Cell Signal*. 2017 Jun 24;38:49-59. [Epub ahead of print]



## FACULTY PUBLICATIONS

### Malcolm M. DeCamp, Jr., MD (cont.)

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 Oct;55(4):532-541. PMID: 27144500

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 Jul;35(7):947-8. PMID:27235267

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. PMID:PMC4912911

### Mark K. Eskandari, MD

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 Nov 1;151(11):1032-1038. doi: 10.1001/jamasurg.2016.2247. PMID: 27487304

Nooromid MJ, Ju MH, Havelka GE, Kozlowski JM, Kundu SD, **Eskandari MK**. Fifteen-year experience with renal cell carcinoma with associated venous tumor thrombus. *Surgery* 2016 Oct;160(4):915-23. doi: 10.1016/j.surg.2016.06.029. PMID: 27506867

Yoon DY, Resnick SA, **Eskandari MK**, Rodriguez HE. Endograft component separation in giant hepatic artery aneurysm. *J Vasc Surg* 2016 Oct;64(4):1140. doi: 10.1016/j.jvs.2015.12.063. PMID: 27666451

Yoon DY, Riaz A, Teter K, Vavra AK, Kibbe MR, Pearce WH, **Eskandari MK**, Lewandowski R, Rodriguez HE. Surveillance, anticoagulation, or filter in calf vein thrombosis. *J Vasc Surg Venous Lymphat Disord* 2017 Jan;5(1):25-32. doi: 10.1016/j.jvsv.2016.08.007. PMID: 27987606

Yoon DY, Hekman KE, Mansukhani N, Hoel AW, Rodriguez HE, Pearce WH, **Eskandari MK**, Tomita TM. Poor outcomes in obese patients after mesenteric revascularization for chronic mesenteric ischemia. *J Vasc Surg* 2016;64:872.

Mansukhani NA, Havelka GE, Helenowski IB, Rodriguez HE, Hoel AW, **Eskandari MK**. The enduring patency of primary inferior vena cava repair. *Surgery* 2017;161:1414-1422. PMID: 28011005

Chauhan SS, Gutierrez CA, Thirugnanasambandam M, DeOliveira V, Muluk SC, **Eskandari MI**, Finol EA. The association between geometry and wall stress in emergently repaired abdominal aortic aneurysms. *Ann Biomed Eng* 2017 April 25. Doi: 10.1007/s10439-017-1837-1. PMID 28444478

Yoon DY, Vavra AK, Eifler AC, Teter K, **Eskandari MK**, Ryu RK, Rodriguez HE. Why temporary filters are not removed: Clinical predictors in 1,000 consecutive cases. *Ann Vasc Surg* 2017 Mar 10 (epub ahead of print). PMID 28286187

Mansukhani NA, Havelka GE, Helenowski IB, Rodriguez HE, Hoel AW, **Eskandari MK**. Hybrid endovascular aortic aneurysm repair: Preservation of pelvic perfusion with external to internal iliac artery bypass. *Ann Vasc Surg*. 2017 Mar 8. pii:S0890-5096(17)30352-7. doi: 10.1016/j.avsg.2016.10.052. [Epub ahead of print] PubMed PMID: 28286187.

Chauhan SS, Gutierrez CA, Thirugnanasambandam M, De Oliveira V, Muluk SC, **Eskandari MK**, Finol EA. The association between geometry and wall stress in emergently repaired abdominal aortic aneurysms. *Ann Biomed Eng*. 2017 Apr 25. doi:10.1007/s10439-017-1837-1. [Epub ahead of print] PubMed PMID: 28444478.

Vavra AK, Eskandari MK. *Coiling peripheral pseudoaneurysms*. In *Atlas of Vascular & Endovascular Surgical Techniques*, Mansour MA, Mitchell E, Shames M, eds. Jaypee Brothers Medical Publishers Ltd., New Delhi, India, 2016.

*Current Vascular Surgery: 40th Anniversary of the Northwestern Vascular Symposium*. Eskandari MK, Pearce WH, Yao JST, eds. People's Medical Publishing House—USA, Shelton CT, 2016.

*Current Vascular Surgery: Northwestern Vascular Symposium*. Eskandari MK, Pearce WH, Yao JST, eds. People's Medical Publishing House—USA, Raleigh, NC, 2017.

### Donald E. Fry, MD

**Fry DE**, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Hospital outcomes in inpatient laparoscopic cholecystectomy in Medicare patients. *Ann Surg* 2017; 265:178-184. doi: 10.1097/SLA.0000000000001653. PMID:28009744

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* 2017; 32:163-171. doi: 10.1177/1062860615626279. Epub

2016 Jul 9. PMID: 26911665

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* 2017; 32:141-147. doi: 10.1177/1062860616629205. Epub 2016 Feb 1. PMID: 26917809.

**Fry DE**: Extrapulmonary tuberculosis and related surgical treatment. *Surg Infect* 2016; 17:394-401. doi: 10.1089/sur.2016.046. PMID:27058682.

**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; 212:10-5. doi: 10.1016/j.amjsurg.2016.01.037. PMID:27242219

Fry DE: Topical antimicrobials and the open surgical wound. *Surg Infect* 2016; 17:520-4. doi: 10.1089/sur.2016.107. PMID:27512891.

**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 J Bone Joint Surg Am* 2017; 99:10-18. doi: 10.2106/JBJS.15.01455. PMID:28060228

Fry DE: Infection Control in Colon Surgery. *Langenbeck's Arch Surg* 2016 Aug;401(5):581-97. doi: 10.1007/s00423-016-1467-3. Review. PMID:27350045

**Fry DE**, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Risk-adjusted Outcomes in Medicare Inpatient Nephrectomy Patients. *Medicine* 2016; 95:e4784. doi: 10.1097/MD.0000000000004784. PMID:27603382

Nedza S, **Fry DE**, DesHarnais S, Spencer E, Yep P: Emergency Department Visits Following Joint Replacement Surgery in an Era of Mandatory Bundled Payments. *Acad Emerg Med* 2017; 24:236-245. doi: 10.1111/acem.13080. PMID:27611713.

Ban KA, Laronga C, Harbrecht BG, Jensen EH, **Fry DE**, Itani KMF, Dellinger EP, Ko CY, Minei JP, Duane TM: American College of Surgeons/Surgical Infection Society Surgical Site Infection Guidelines: 2016 Update. *J Am Coll Surg* 2017; 224:59-74. doi: 10.1016/j.jamcollsurg.2016.10.029. Review. PMID:27915053

# FACULTY PUBLICATIONS

## Donald E. Fry, MD (cont.)

Ban KA, Laronga C, Harbrecht BG, Jensen EH, **Fry DE**, Itani KMF, Dellinger EP, Ko CY, Minei JP, Duane TM: Executive summary of the American College of Surgeons/Surgical Infection Society Surgical Site Infection Guidelines: 2016 Update. *Surg Infect* 2017; 18:379-382. doi: 10.1089/sur.2016.214. PMID:28541808.

**Fry DE**, Pine M, Nedza SM, Locke DG, Reband AM, Pine G: Defining potentially preventable adverse outcomes in medicare elective lung resections. *J Patient Saf* 2017 Feb 24. doi: 10.1097/PTS.0000000000000362. [Epub ahead of print] PMID:28234727

Fry DE: Pressure Irrigation of Surgical and Traumatic Wounds. *Surg Infect* 2017; 18:424-430. doi: 10.1089/sur.2016.252. Epub 2017 Mar 1. PMID:28437197.

Fry DE: The Role of Surgery in Extrapulmonary Mycobacterium Tuberculosis Infection. *Minerva Pneumol* (in press, 2017)

Galbraith N, Carter JV, Netz U, **Fry DE**, McCafferty M, Galandiuk S: Laparoscopic lavage in the management of perforated diverticulitis: a contemporary meta-analysis. *J Gastrointest Surg*. 2017 Jun 12. doi: 10.1007/s11605-017-3462-6. [Epub ahead of print] PMID:28608041

Pine M, **Fry DE**, Nedza SM, Locke DG, Reband AM, Pine G: Medicare Inpatient and Post-Discharge Outcomes of Elective Percutaneous Coronary Interventions. *Am J Account Care* (in press, 2017)

Fry DE, Pine M, Nedza SM, Reband AM, Huang C -J, Pine G: Comparison of Risk-Adjusted Outcomes in Medicare Open versus Laparoscopic Cholecystectomy. *Am Surg* (In Press, 2017).

**Fry DE**, Nedza SM, Pine M, Reband AM, Huang C-J, Pine G: Inpatient and 90-day Post-Discharge Outcomes in Elective Medicare Spine Fusion Surgery. *Spine J* (in press, 2017).

Fry DE: Infection, Inflammation, and Antibiotics. In *Surgery: Core Principles and International Practice*. Corson JD, Williamson RCN (Eds) Second Edition. Jaypee Brothers Medical Publishers. Philadelphia. Chapter 7. 2017. Pp. 123-60.

Fry DE: Informatics, Outcomes, and Economics of Surgical Care. In *Surgery: Core Principles and International Practice*. Corson JD, Williamson RCN (Eds) Second Edition. Jaypee Brothers Medical Publishers. Philadelphia. 2017. Chapter 9. Pp. 183-211.

Fry DE: Surgical Risk of Transmittable Diseases. In *Youmans Neurological Surgery*. Winn HR (Ed). Seventh Edition. Elsevier Saunders (Publ). Philadelphia. 2017. Chapter 43.

Fry DE, Galandiuk SG: Peritonitis of Colonic Origin. In *Surgery of the Anus, Rectum, and Colon*. Keighley MRB, Williams NS. 4th Edition. CRC Press. London. (In press, 2017)

## Jonathan P. Fryer, MD

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

Coverdill JE, Alseidi A, Borgstrom DC, Dent DL, Dumire RD, **Fryer J**, Hartranft TH, Holsten SB, Nelson MT, Shabahang M, Sherman S, Termuhlen PM, Woods RJ, Mellinger JD. Professionalism in the Twilight Zone: A Multicenter, Mixed-Methods Study of Shift Transition Dynamics in Surgical Residencies. *Acad Med*. 2016 Nov;91.

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, 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. *Procedural Learning and Safety Collaborative (PLSC) J Surg Educ*. 2016 Nov - Dec;73(6).

Goldberg DS, Karp SJ, McCauley ME, Markmann JF, Croome KP, Taner CB, Heimbach JK, Leise MD, **Fryer JP**, Bohorquez HE, Cohen AJ, Gilroy RK, Kumer SC, Foley DB, Karim AS, Hernandez-Alejandro R, Levstik MA, Abt PL. Interpreting Outcomes in DCDD Liver Transplantation: First Report of the Multi-Center IDOL Consortium. *Transplantation*. 2017 Jan 21.

**Fryer JP**, Teitelbaum EN, George BC, Schuller MC, Meyerson SL, Theodorou BA, Kang J, Yang A, Lihui Z, DaRosa DA. Effect of Ongoing Assessment of Resident Operative Autonomy on the Operating Room Environment. *J Surg Educ*. March/April 2017. [In Press]

**Fryer JP**, George BC, Bohnen JD, Schuller MC,

Williams RG, PASS, SIMPL and beyond: Competency-based Assessment for the Busy Surgical Workplace. *Current Problems in Surgery*. 2017[In Press]

## Kathleen L. Grady, PhD

Farmer S, Magasi S, Block BA, Whelen MJ, Hansen LO, Bonow RO, Schmidt P, Shah A, **Grady KL**. Patient, Caregiver, and Physician Work in Heart Failure Disease Management: A Qualitative Triangulation of Issues that Undermine Wellness. *Mayo Clinic Proceedings*. 2016Aug;91(8):1056-65.

Pagani FD, Aaronson, KD, Kormos R, Mann DL, Spino C, Jeffries N, Taddei-Peters WC, Mancini DM, McNamara DM, **Grady KL**, Gorcsan J, Petrucci R, Anderson AS, Glick HA, Acker MA, Rame E, Goldstein DJ, Pamboukian SV, Miller MA, and Baldwin JT, on behalf of the REVIVE-IT Investigators. The NHLBI REVIVE-IT Study: Understanding its Discontinuation in the Context of Current Left Ventricular Assist Device Therapy. *J Heart Lung Transplant* 2016 November; 35(11):1277-1283.

Braun LT, **Grady KL**, Kutner JS, Adler E, Berlinger N, Boss R, Butler J, Enguidanos S, Friebert SO, Gardner T, Higgins P, Holloway R, Konig M, Meier D, Morrissey MB, Quest TE, Wiegand D, Coombs-Lee P, Fitchett G, Gupta C, Roach Jr. WH. Palliative Care and Cardiovascular Disease and Stroke: An American Heart Association/American Stroke Association Policy Statement. *Circulation*. 2016 Sep 13;134(11):e198-225.

Lowden E, Schmidt K, Mulla I, Andrei A, Cashy J, Johnson Oakes D, Aleppo G, **Grady KL**, Wallia A, Molitch ME. Evaluation of Outcomes and Complications in Patients who Experience Hypoglycemia after Cardiac Surgery. *Endocrine Practice*. 2017;23:46-55.

Bidwell, J.T., Lyons, K.S., Mudd, J.O., Gelow, J.M., Chien, C.V., Hiatt, S.O., **Grady, K.L.** & Lee, C.S. Quality of life, depression, and anxiety in ventricular assist device therapy: Longitudinal outcomes for patients and family caregivers. *J Cardiovasc Nurs* (in press).

Jalowiec A, **Grady KL**, White-Williams C. Heart transplant outcomes in pre transplant diabetics. *Am J Crit Care*. (in press).

Lee, CS., Gelow, J.M., Chien, C.V., Hiatt, S.O., Bidwell, J.T., Denfeld, Q.E., **Grady, K.L.**, Mudd, J.O. Implant strategy-specific changes in symptoms in response to left ventricular assist devices. *Journal of Cardiovascular Nursing* (in press).

# FACULTY PUBLICATIONS

## Kathleen L. Grady, PhD (cont.)

Jalowiec A, **Grady KL**, White-Williams C. Mortality, Rehospitalization, and Post-Transplant Complications in Gender-Mismatched Heart Transplant Recipients. *Heart & Lung*. (in press)

Jalowiec A, **Grady KL**, White-Williams C. Gender, age, and racial disparities in heart transplant outcomes. *Critical Care Nurse*. (in press).

Nassif ME, Spertus JA, Jones PG, Fendler TJ, Allen LA, **Grady KL**, Arnold SV. Changes in disease-specific versus generic health status measures left ventricular assist device implantation. Insights from INTERMACS. *J Heart Lung Transplant*. (in press).

Goetz P, **Grady KL**, Yancy C. (invited editorial) The ICD and shared decision making: Nothing is ever easy. *J Cardiac Fail*. (in press).

Cook J, Peura J, Colvin-Adams M, Francis G, **Grady KL**, Hoffman T, Jessup M, John R, Kiernan M, Mitchell J, O'Connell J, Pagani F, Petty M, Ravichandran P, Rogers J, Semigran M, Toole J.

Recommendations for the use of Mechanical Circulatory Support: Ambulatory and Community Patient Care: A Scientific Statement from the American Heart Association. *Circulation* (in press).

**Grady K**, Allen L, Goetz P. Psychosocial Considerations of Mechanical Circulatory Support: Decision Making, Behavioral Evaluation, Quality of Life, Caregivers, and End of Life. In *Mechanical Circulatory Support in End Stage Heart Failure: A Practical Guide*. Loforte A (ed). New York, NY: Springer. (in press).

## Karen J. Ho, MD

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 Nov 1;151(11):1032-1038; doi: 10.1001/jamasurg.2016.2247; PMID: 2748730

**Ho KJ**, Devlin PM, Madenci AL, Semel ME, Gravereaux EC, Nguyen LL, Belkin M, Menard MT High dose-rate brachytherapy for the treatment of lower extremity in-stent restenosis. *J Vasc Surg*. 2017 Mar;65(3):734-743. doi: 10.1016/j.jvs.2016.10.002. PMID: 27986482

**Ho KJ** and Owens CD. Diagnosis, classification, and treatment of femoro-popliteal artery in-stent restenosis. *J Vasc Surg*. 2017 Feb;65

(2):545-557. doi: 10.1016/j.jvs.2016.09.031. PMID: 28126181

Cason CA, Dolan K, Sharma G, Tao M, Kulkarni R, Helenowski IB, Avram M, McDermott MM, Chang EB, Ozaki CK, **Ho KJ**. Plasma microbiome-modulated indole and phenyl-derived metabolites associate with advanced atherosclerosis and mortality. *J Vasc Surg*. Manuscript submitted.

Cason CA and **Ho KJ**. The Gut Microbiome and Surgical Diseases: A Review. *Annals of Surgery*. Manuscript in preparation.

Ho KJ and H Wasse. Procedures for dialysis access-associated steal syndrome. In Fischer, JE, Darling III, RC, and Ozaki, CK eds. *Master Techniques in Surgery*. Philadelphia, PA: Wolters Kluwer, 2016, 183-190.

Ho KJ. Femoropopliteal in-stent restenosis (FP-ISR): Classification, prevention, and treatment. In Eskandari ME, Pearce WH and Yao JST, eds. *Current Vascular Surgery 2015*. Shelton, CT: PMPH-USA, Ltd., 2016, 273-282.

Girotti ME and **Ho KJ**. Readmissions in vascular surgery. In Eskandari ME, Pearce WH and Yao JST, eds. *Current Vascular Surgery 2016*. Shelton, CT: PMPH-USA, Ltd., 2016, pp 49-56.

## Andrew W. Hoel, MD

Spangler EL, Brooke BS, Beck AW, **Hoel A**, Farber A, Goodney PP. Design and initial enrollment in the Vascular Physicians Offer and Report (VAPOR) trial. *J Vasc Surg*. 2016 Apr;63(4):1121-5.e2. PMID: 27016862.

Suckow B, Schanzer AS, **Hoel AW**, Wyers M, Marone LK, Veeraswamy RK, et. al. A national survey of disease-specific knowledge in patients with an abdominal aortic aneurysm. *J Vasc Surg*. 2016 May;63(5):1156-62. PMID: 26947235.

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 Nov 1;151(11):1032-1038. PMID: 27487304.

Mansukhani NA, Havelka GE, Helenowski IB, Rodriguez HE, **Hoel AW**, Eskandari, MK. The enduring patency of primary inferior vena cava repair. *Surgery*. 2016 December 20; pii: S0039-6060(16)30748-6. Epub ahead of print. PMID: 25011005.

**Hoel AW**, Faerber AE, Moore KO, Ramkumar N, Brooke BS, Scali ST, et. al. A pilot study for long-term outcome assessment after aortic aneurysm repair using Vascular Quality Initiative

data matched to Medicare claims. *J Vasc Surg*. 2017 Feb 17. pii: S0741-5214(17)30075-7. PMID: 28222989.

Mansukhani NA, Havelka GE, Helenowski IB, Rodriguez HE, **Hoel AW**, Eskandari MK. Hybrid Endovascular Aortic Aneurysm Repair: Preservation of Pelvic Perfusion with External to Internal Iliac Artery Bypass. *Ann Vasc Surg*. 2017 Mar 8. pii: S0890-5096(17)30352-7. PMID: 28286187.

Goodney PP, Spangler EL, Newhall K, Brooke BS, Schanzer A, Tan TW, et. al. Feasibility and pilot efficacy of a brief smoking cessation intervention delivered by vascular surgeons in the Vascular Physician Offer and Report (VAPOR) Trial. *J Vasc Surg*. 2017 Apr;65(4):1152-1160.e2. PMID: 28190719.

Lemmon GW, Neal D, DeMartino RR, Schneider JR, Singh T, Kraiss L, Scali S, et. al. Variation in hospital costs and reimbursement for endovascular aneurysm repair: A Vascular Quality Initiative pilot project. *J Vasc Surg*. 2017 May 11. pii: S0741-5214(17)30914-X. PMID: 28502551.

Schneider JR, Jackson CR, Helenowski IB, Verta MJ, Wilkinson JB, Kim S, **Hoel AW**. A comparison of results of carotid endarterectomy in octogenarians and nonagenarians to younger patients from the Mid-America Vascular Study Group and the Society for Vascular Surgery Vascular Quality Initiative. *J Vasc Surg*. 2017 Jun;65(6):1643-1652. PMID: 28259574.

Mansukhani NA, Havelka GE, Helenowski IB, Rodriguez HE, **Hoel AW**, Eskandari MK. The enduring patency of primary inferior vena cava repair. *Surgery* 2017;161:1414-22. PMID: 28011005.

**Hoel AW**, Tomita TM. EVAR in High-Risk Patients. In: Eskandari MK, Pearce WH, Yao JT, editors. *Current Vascular Surgery: Northwestern Vascular Symposium*. PMPH-USA. 2017.

## Seok Jong Hong, PhD

Zhao J, Zhong A, Friedrich EE, Jia S, Xie P, Galiano RD, Mustoe TA, **Hong SJ**. (2017) S100A12 induced in the epidermis by reduced hydration activates dermal fibroblasts and causes dermal fibrosis. *J Invest Dermatol*. 137 (3):650-659

Friedrich EF, Niknam-Bienia S, Ping Xie, Jia S, Xie P, **Hong SJ**, Mustoe TA, Galiano RD. Quantifiable Thermal Burn Hypertrophic Scar Model in the Rabbit Ear. *Wound Repair Regen*. 2017 Apr;25 (2):327-337. doi: 10.1111/wrr.12518.



# FACULTY PUBLICATIONS

## Seok Jong Hong, PhD

Gust MJ\*, **Hong SJ\***, Fang RC, Lanier ST, Buck DW 2nd, Nuñez JM, Jia S, Park ED, Galiano RD, Mustoe TA. Adipose Tissue Drives Response to Ischemia-Reperfusion Injury in a Murine Pressure Sore Model. *Plast Reconstr Surg.* 2017 May;139(5):1128e-1138e. doi: 10.1097/PRS.0000000000003271. \*Authors are equally contributed.

Zhao J, Jia S, Xie P, Arenas GA, Galiano RD, **Hong SJ\***, Mustoe TA\*. Topical application of *Dermatophagoides farinae* or oxazolone induces symptoms of atopic dermatitis in the rabbit ear. *Arch Dermatol Res.* 2017 Jun 30. doi: 10.1007/s00403-017-1758-8. \*Co-corresponding author.

Jia S, Xie P, **Hong SJ**, Galiano RD, Mustoe TA. Local Application of Statins Significantly Reduced Hypertrophic Scarring in a Rabbit Ear Model. *Plast Reconstr Surg Glob Open.* 2017 Jun 14;5(6):e1294. doi: 10.1097/GOX.0000000000001294. eCollection 2017 Jun.

## Eric S. Hungness, MD

Lin Z, Carlson DA, Dykstra K, Sternbach J, **Hungness E**, Kahrilas PJ, Ciolino JD, Pandolfino JE. High-resolution impedance manometry measurement of bolus flow time in achalasia and its correlation with dysphagia. *Neurogastroenterol Motil.* Sep;27(9):1232-8. doi: 10.1111/nmo.12613.

Baldrige AS, Pacheco JA, Aufox SA, Kim KA, Silverstein JC, Denham W, **Hungness E**, Smith ME, Allen NB, Greenland P, Rasmussen-Torvik LJ. Factors Associated With Long-Term Weight Loss Following Bariatric Surgery Using 2 Methods for Repeated Measures Analysis. *Am J Epidemiol.* Aug 1;182(3):235-43.

Kumbhari V, Tieu AH, Onimaru M, El Zein MH, Teitelbaum EN, Ujiki MB, Gitelis ME, Modayil RJ, **Hungness ES**, Stavropoulos SN, Shiwaku H, Kunda R, Chiu P, Saxena P, Messallam AA, Inoue H, Khashab MA. Peroral endoscopic myotomy (POEM) vs laparoscopic Heller myotomy (LHM) for the treatment of Type III achalasia in 75 patients: a multicenter comparative study. *Endosc Int Open.* 2015 Jun;3(3):E195-201.

Sternbach JM, El Khoury R, Teitelbaum EN, Soper NJ, Pandolfino JE, **Hungness ES**. Early esophagram in per-oral endoscopic myotomy (POEM) for achalasia does not predict long-term outcomes. *Surgery.* 2015 Oct;158(4):1128-36. doi: 10.1016/j.surg.2015.05.023.

Khoury RE, Sternbach JM, Teitelbaum EN, Soper NJ, **Hungness ES**. Esophagogastric junction distensibility measured by a functional lumen

imaging probe with incremental gastric myotomy lengths in achalasia. *Surg Endosc.* 2016 May;30(5):2139-40.

El Khoury R, Ramirez M, **Hungness ES**, Soper NJ, Patti MG. Symptom Relief After Laparoscopic Paraesophageal Hernia Repair Without Mesh. *J Gastrointest Surg.* 2015 Nov;19(11):1938-42. doi: 10.1007/s11605-015-2904-2.

Rasmussen-Torvik LJ, Baldrige AS, Pacheco JA, Aufox SA, Kim KA, Silverstein JC, Denham EW, **Hungness E**, Smith ME, Greenland P. rs4771122 Predicts Multiple Measures of Long-Term Weight Loss After Bariatric Surgery. *Obes Surg.* 2015 Nov;25(11):2225-9. doi: 10.1007/s11695-015-1872-7.

El Khoury R, Teitelbaum EN, Sternbach JM, Soper NJ, Harmath CB, Pandolfino JA, Kahrilas PK and **Hungness ES**. Evaluation of the need for routine esophagram after peroral endoscopic myotomy (POEM). *Surg Endosc.* 2016 Jul;30(7):2969-74.

**Hungness ES**, Sternbach JM, Teitelbaum EN, Kahrilas PJ, Pandolfino JE, Soper NJ. Per-oral Endoscopic Myotomy (POEM) After the Learning Curve: Durable Long-term Results With a Low Complication Rate. *Ann Surg.* 2016 Sep;264(3):508-17.

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 to 2013. *JAMA Surg.* 2016 Dec 1;151(12):1125-1130.

Schwab B, Rooney DM, **Hungness ES**, Barsness KA. Preliminary Evaluation of a Laparoscopic Common Bile Duct Simulator for Pediatric Surgical Education. *J Laparoendosc Adv Surg Tech A.* 2016 Oct;26(10):831-835.

Carlson DA, Lin Z, Kahrilas PJ, Sternbach J, **Hungness ES**, Soper NJ, Balla M, Listernick Z, Tye M, Ritter K, Craft J, Ciolino JD, Pandolfino JE. High-Resolution Impedance Manometry Metrics of the Esophagogastric Junction for the Assessment of Treatment Response in Achalasia. *Am J Gastroenterol.* 2016 Dec;111(12):1702-1710.

Schwab B, **Hungness ES**, Barsness KA and MCGAGHIE WC. The Role of Simulation in Surgical Education. *J Laparoendosc Adv Surg Tech A.* 2017 May;27(5):450-454.

**Hungness ES** and El Koury R. Operations for Achalasia: Peroral Endoscopic Myotomy. In: Fisichella PM and Patti MG (eds): *Atlas of esophageal surgery.* 1st ed. London, Springer

International, Switzerland, 2015, 85-93.

Sternbach JM and **Hungness ES**. Endoscopic and Laparoscopic Anti-Reflux Procedures -Surgical Intervention for Esophageal Dysmotility. *Tech Gastrointest Endo.* 2015 April 2015, 17(2);77-82.

Sternbach JM and **Hungness ES**. POEM. In: Kroh M and Reavis K (eds): *Operating through the endoscope.* 1st ed. London, Springer-Verlag, 2016, 293-312.

Santos BF and **Hungness ES**. Management of Suspected Choledocholithiasis on Intraoperative Cholangiography. In: Matthews JB and Millis JM (eds): *Difficult Decisions in Hepatobiliary and Pancreatic Surgery – An Evidence Based Approach.* 1st ed. London, Springer International, Switzerland, 2016, 263-272.

Teitelbaum EN, **Hungness ES** and Mahvi D. Stomach. In: Townsend CM, Beauchamp RD, Evers BM and Mattox KL (eds): *Sabiston's Textbook of Surgery.* 20th ed. Elsevier, Philadelphia, 2016.

Teitelbaum EN, **Hungness ES**. Laparoscopic Common Bile Duct Exploration. In: Cameron JL and Cameron AM (eds): *Current Surgical Therapy.* 12th ed. Elsevier, Philadelphia, 2017.

Minami CA, Stulberg JJ, **Hungness ES**. Partnering Behavioral Modification With Bariatric Surgery. *JAMA.* 2016 Jul 26;316(4):448-9.

Fisichella PM, DeMeester SR, **Hungness E**, Perretta S, Soper NJ, Rosemurgy A, Torquati A, Sachdeva AK, Patti MG. Emerging Techniques in Minimally Invasive Surgery. *Pros and Cons.* *J Gastrointest Surg.* 2015 Jul;19(7):1355-62.

Schwab B, **Hungness E**, Barsness KA, McGAGHIE WC. The Role of Simulation in Surgical Education. *J Laparoendosc Adv Surg Tech A.* 2017 Jan 24.

Sternbach JM and **Hungness ES**. Learning curve and Initial Outcomes In: Reavis K (ed): *Per Oral Endoscopic Myotomy (POEM).* London, Springer -Verlag, 2017.

Soper NJ and **Hungness ES**. Laparoscopic antireflux surgery. In Fischer JE, Bland KI (eds): *Mastery of Surgery*, 7th edition. Philadelphia, Lippincott Williams & Wilkins, 2017 (In Press).

**Hungness ES** and Auyang EA. Per-Oral Endoscopic Myotomy (POEM) for Achalasia and Endoluminal Approaches for GERD. In Fischer JE, Bland KI (eds): *Mastery of Surgery*, 7th edition. Philadelphia, Lippincott Williams & Wilkins, 2017 (In Press).

## FACULTY PUBLICATIONS

### Eric S. Hungness, MD (cont.)

Hungness ES. Expert commentary on Stenberg et al: "Closure of mesenteric defects in laparoscopic gastric bypass: a multicentre, randomised, parallel, open-label trial". Selected Reading in General Surgery: What you should know. (In press).

Sternbach JM and **Hungness ES**. POEM. CSurgeries video. (In press).

Sternbach JM and **Hungness ES**. Anatomic and physiologic tests of esophageal function. In Schwartzberg S and Jones D (eds): Operative Endoscopic and Minimally Invasive Surgery, 1st ed. (In press)

Sternbach JM and **Hungness ES**. POEM. In: Grams J, Perry K and Tavakkoli A (eds): The Sages Manual of Foregut Surgery. 1st ed. (In Press).

Jorge J and **Hungness ES**. Per Oral Esophageal Myotomy (POEM): Is it a Safe and Durable Procedure for Achalasia? Advances in Surgery, Vol 51. (In press)

Schwab B and **Hungness ES**. Training in LCBDE – Role of Simulation and its impact on clinical outcomes. In: Santos BF and Soper NJ (eds): Choledocholithiasis: Comprehensive Surgical Management. 1st ed. (In press).

### Seema A. Khan, MD

Farr DE, Thomas A, **Khan SA**, Schroeder MC. Male breast cancer as a second primary cancer: increased risk following lymphoma. *Oncologist*. 2017 May; Epub ahead of print. PMID: 28487463.

Wang J, Shidfar A, Ivancic D, Ranjan M, Liu L, Choi M, Parimi V, Gursel DB, Sullivan ME, Najor MS, Abukdeir AM, Scholtens D, **Khan SA**. Overexpression of lipid metabolism genes and PBX1 in the contralateral breasts of women with estrogen receptor-negative breast cancer. *Int J Cancer*. 2017 Mar; Epub ahead of print. PMID: 28263391.

Sacotte R, Fine N, Kim JY, Alghoul M, Bethke K, Hansen N, **Khan SA**, Kulkarni S, Strauss J, Hayes JP, Donnelly ED. Assessing long-term complications in patients undergoing immediate postmastectomy breast reconstruction and adjuvant radiation. *Pract Radiat Oncol*. 2017 Mar; Epub ahead of print. PMID: 28274406.

Rakhra S, Bethke K, Strauss J, Hayes JP, Hansen N, **Khan SA**, Helenowski I, Donnelly ED. Risk factors leading to complications in early-stage breast cancer following breast-conserving surgery and intraoperative radiotherapy. *Ann*

*Surg Oncol*. 2016 Nov; Epub ahead of print. PMID: 27853900.

Shidfar A, Costa FF, Scholtens DM, Bischof JM, Sullivan ME, Ivancic D, Vanin EF, Soares MB, Wang J, **Khan SA**. Expression of miR-18a and miR-210 in normal breast tissue as candidate biomarkers of breast cancer risk. *Can Prev Res*. 2016 Oct; Epub ahead of print. PMID: 27789587.

Stearns V, Fackler MJ, Hafeez S, Bujanda ZL, Chatterton R, Jacobs L, Khouri N, Ivancic D, Kenney K, Shehata C, Jeter S, Wolfman J, Zalles C, Huang P, **Khan SA**, Sukumar S. Gene methylation and cytological atypia in random fine needle aspirates for assessment of breast cancer risk. *Can Prev Res*. 2016 Aug; 9 (8):673-82. PMID: 27261491.

Trosman JR, Carlos RC, Simon MA, Madden DL, Gradishar WJ, Benson AB, Rapkin BD, Weiss ES, Gareen IF, Wagner LI, **Khan SA**, Bunce MM, Small A, Weldon CB. Care for a patient with cancer as a project: Management of complex task interdependence in cancer care delivery. *J Oncol Pract*. 2016 Aug; Epub ahead of print. PMID: 27577619.

### Swati Kulkarni, MD

Weldon CB, Friedewald SM, **Kulkarni S**, Simon MA, Carlos RC, Strauss JB, Bunce MM, Small A, Trosman JR. Radiology as the point of cancer patient and care team engagement: Applying the 4R Model at a patient's breast cancer care initiation. *J Am Coll Radiol*. 2016 Nov; 13:1579-1589.

Hunt KK, Euhus DM, Boughhey JC, Chagpar AB, Feldman SM, Hansen NM, **Kulkarni S**, McCready DR, Mamounas EP, Wilke LG, Van Zee KJ, Morrow M. Society of Surgical Oncology Breast Disease Working Group statement on prophylactic (risk-reducing) mastectomy. *Ann Surg Oncol*. 2016 Dec; Epub ahead of print.

Sacotte R, Fine N, Kim JY, Alghoul M, Bethke K, Hansen N, Khan SA, **Kulkarni S**, Strauss J, Hayes J, Donnelly ED. Assessing long term complications in patients undergoing immediate postmastectomy breast reconstruction and adjuvant radiation. *Practical Rad Onc*. 2017 Mar; 7(2):e91-91.

### Daniela P. Ladner, MD, MPH

Norovirus Infection in Solid Organ Transplant Recipients: A Single Center Retrospective Study Lee LY, Ladner DP, Ison MG AJT - submitted 6/18/15 – rejected – Transplantation submission 11/15 – Transplant Infectious Disease - accepted w/ minor revision

Utility and outcomes of expanded screening among live solid organ donors Rosen A, Beauvais N, Landron S, Leventhal J, Fryer J, **Ladner DP**, Ison MG AJT – submitted 11/13/15/rejected – Transplantation - resubmitted 4/16/16 – accepted w/ edits

Early Postoperative Pain and its Predictors in the Adult to Adult Living Donor Liver Transplantation Cohort Study (A2ALL) Mandell S, Dew MA, Holtzman S, Howell T, DiMartini A, Butt Z, Simpson MA, **Ladner DP**, Freise C, McCluskey S, Fisher R, Olthoff K, Pomfret E Transplantation – accepted w/ minor revisions

### Joseph R. Leventhal, MD, PhD

Zwang NA, Shetty A, Sustento-Reodica N, Gordon EJ, **Leventhal J**, Gallon L, Friedewald JJ. APOL1-Associated End-Stage Renal Disease in a Living Kidney Transplant Donor. *Am J Transplant*. 2016 Oct 6.

Xie Y, Wu Y, Xin K, Wang JJ, Xu H, Ildstad ST, **Leventhal J**, Yang GY, Zhang Z, Levitsky, J Delayed Donor Bone Marrow Infusion Induces Liver Transplant Tolerance. *Transplantation*. 2017 Feb 10.

### Jing Liu, MD

Lanier ST, **Liu J**, Chavez-Munoz C, Mustoe TA, Galiano RD. The Northwestern Abdominoplasty Scar Model: A Novel Human Model for Scar Research and Therapeutics. *Plast Reconstr Surg Glob Open*. 2016 Sep 23;4(9):e867. eCollection 2016 Sep. PubMed PMID: 27757332; PubMed Central PMCID: PMC5054998

### S. Chris Malaisrie, MD

Art Bracey, Aryeh Shander, Solomon Aronson, Bradley A. Boucher, Domenico Calcaterra, Michael W.A. Chu, Richard Culbertson, Karim Jabr, Henrik Kehlet, Omar Lattouf, **S. Chris Malaisrie**, C. David Mazer, Martin M. Oberhoffer, Sherri Ozawa, Theolyn Price, Todd Rosengart, Bruce D. Spiess, Giuseppe Turchetti. The Use of Topical Hemostatic Agents in Cardiothoracic Surgery. *The Annals of Thoracic Surgery*. Available online 24 April 2017.

Huffman MD, **Malaisrie SC**, Karmali KN. Concomitant Atrial Fibrillation Surgery for People Undergoing Cardiac Surgery. *JAMA Cardiol*. 2017;2(3):334-335.

Kirmani BH, Jones SG, **Malaisrie SC**, Chung DA, Williams RJNN. Limited versus full sternotomy for aortic valve replacement. *Cochrane Database of Systematic Reviews* 2017, Issue 4. Art. No.: CD011793.

# FACULTY PUBLICATIONS

## S. Chris Malaisrie, MD (cont.)

Huded, C. P., Huded, J. M., Sweis, R. N., Ricciardi, M. J., **Malaisrie, S. C.**, Davidson, C. J. and Flaherty, J. D. The impact of delirium on healthcare utilization and survival after transcatheter aortic valve replacement. *Cathet. Cardiovasc. Intervent.* 2016.

Churyla, A., Idriss, A., Andrei, A.-C., Kruse, J., **Malaisrie, S. C.**, Passman, R., McCarthy, P. M. Biatial or Left Atrial Lesion Set for Ablation During Mitral Surgery: Risks and Benefits. *The Annals of Thoracic Surgery.*

Lee R, Vassallo P, Kruse J, **Malaisrie SC**, Rigolin V, Andrei AC, McCarthy PM. A randomized, prospective pilot comparison of 3 atrial appendage elimination techniques: Internal ligation, stapled excision and surgical excision. *J Thorac Cardiovasc Surg* 2016;152:1075-80.

Huffman MD, Karmali KN, Berendsen MA, Andrei AC, Kruse J, McCarthy PM, **Malaisrie SC**. Concomitant atrial fibrillation surgery for people undergoing cardiac surgery. *Cochrane Database Syst Rev.* 2016 Aug.

## James M. Mathew, PhD

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. (\*Co-first authors)

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.

## Michael F. McGee, MD

Wasserman M, **McGee MF.** (2017). Pre-operative considerations for the ostomate. *Clin Colon Rectal Surg*;30:157–161.

McGee MF. (2017). The Plight of the Ostomate. *Clin Colon Rectal Surg*;30:153–154

## Shari L. Meyerson, MD

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; 102(4):1125-1130.

Michel E, **Meyerson SL.** Resident identification of significant learning experiences: A qualitative analysis. *Annals of Thoracic Surgery.* 2016 Nov; 102(5):1731-1735.

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, Dunnington GL, Fryer JP, 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. *Journal of Surgical Education.* 2016 Nov/Dec; 73 (6):e118-e130.

Sternbach JM, Wang K, El Khoury R, Teitelbaum E, **Meyerson SL.** Measuring error identification and recovery skills in surgical residents. *Annals of Thoracic Surgery.* 2017; 103(2):663-669.

Fryer JP, Teitelbaum EN, George BC, Schuller MC, **Meyerson SL**, Theodorou CM, Kang J, Yang A, Zhao L, DaRosa DA. Effect of ongoing assessment of resident operative autonomy on the operating room environment. *Journal of Surgical Education.* 2017; Mar 28 [Epub ahead of print]

Galgiani JN, Ampel NM, Blair JE, Catanzaro A, Geertsma R, Hoover SE, Johnson RH, Kusne S, Lisse J, MacDonald JD, **Meyerson SL**, Raksin PB, Siever J, Stevens DA, Sunenshine R, Theodore N. 2016 Infectious Diseases Society of America (IDSA) clinical practice guideline for the treatment of coccidioidomycosis. *Clinical Infectious Diseases.* 2016 Sept 15;63(6): e112-46.

Karim AS, **Meyerson SL.** The residency application process: Challenges for our specialty. *Journal of Thoracic and Cardiovascular Surgery* 2017; 153(6): 1618-1620.

**Meyerson, SL**, Lipnick S, Hollinger E. The usage of mock oral exams for program improvement. *J Surg Educ* 2017; May 18. [Epub ahead of print]

**Meyerson, SL**, Sternbach JM, Zwischenberger JB, Bender EM. The effect of gender on resident autonomy in the operating room. *J Surg Educ* 2017 June 29. [Epub ahead of print]

## David L. Nahrwold, MD

Nahrwold, DL. A Mirror Reflecting Surgery, Surgeons, and their College. *American College of Surgeons, Chicago, October, 2016, 521 pages.*

## David D. Odell, MD, MMSc

Rajaram R, Mohanty S, Bentrem DJ, Pavey ES, **Odell DD**, Bharat A, Bilimoria KY, DeCamp MM. Nationwide Assessment of Robotic Lobectomy for Non-Small Cell Lung Cancer. *Ann Thorac Surg.* 2017 Jan 18. pii: S0003-4975(16)31377-7. doi: 10.1016/j.athoracsur.2016.09.108. [Epub ahead of print]

Minami CA, Sheils CR, Pavey E, Chung JW, Stulberg JJ, **Odell DD**, Yang AD, Bentrem DJ, Bilimoria KY. Association between State Medical Malpractice Environment and Postoperative Outcomes in the United States. *J Am Coll Surg.* 2016 Dec 22. pii: S1072-7515(16)31703-3. doi: 10.1016/j.jamcollsurg.2016.12.012. [Epub ahead of print] PMID: 28017813

Fernandez R, Chi M, Ison MG, Waites KB, Crabb DM, Ratliff AE, Cajigas H, DeCamp MM, **Odell D**, Budinger GR, Bharat A. Sequelae of Donor-Derived Mollicute Transmission in Lung Recipients. *Am J Respir Crit Care Med.* 2016 Dec 7. [Epub ahead of print] PMID: 27925760

Matulewicz RS, **Odell DD**, Chung JW, Ban KA, Yang AD, Bilimoria KY. Association between Resident Perceptions of Patient Safety and Duty Hour Violations. *J Am Coll Surg.* 2016 Nov 11. pii: S1072-7515(16)31590-3. doi: 10.1016/j.jamcollsurg.2016.10.044. [Epub ahead of print] PMID: 27884803

Odell DD. The rapid transformation of extracorporeal support in lung transplantation. *J Thorac Cardiovasc Surg.* 2016 Dec;152(6):e137-e138. doi: 10.1016/j.jtcvs.2016.08.056. PMID: 27842695

Yang AD, Chung JW, Dahlke AR, Biester T, Quinn CM, Matulewicz RS, **Odell DD**, Kelz RR, Shea JA, Lewis F, Bilimoria KY. Differences in Resident Perceptions by Postgraduate Year of Duty Hour Policies: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. *J Am Coll Surg.* 2016 Nov 4. pii: S1072-7515(16)31591-5. doi: 10.1016/j.jamcollsurg.2016.10.045. [Epub ahead of print] PMID: 27825914

Minami CA, **Odell DD**, Bilimoria KY. Ethical Considerations in the Development of the Flexibility in Duty Hour Requirements for Surgical Trainees Trial. *JAMA Surg.* 2016 Oct 12. doi: 10.1001/jamasurg.2016.3198.



# FACULTY PUBLICATIONS

## William H. Pearce, MD

Ahmed MM, Yoon DY, Desai SS, **Pearce WH**. Right sided aortic arch with isolated left subclavian artery leading to subclavian steal syndrome. *J Vasc Surg* 2016;64:233-4. PMID 27345508

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;151:1032-8. PMID 27487304

Yoon DY, Hekman KE, Mansukhani N, Hoel AW, Rodriguez HE, **Pearce WH**, Eskandari MK, Tomita TM. Poor outcomes in obese patients after mesenteric revascularization for chronic mesenteric ischemia. *J Vasc Surg* 2016;64:872.

Yoon DY, Riaz A, Teter K, Vavra AK, Kibbe MR, **Pearce WH**, Eskandari MK, Lewandowski R, Rodriguez HE. Surveillance, anticoagulation, or filter in calf in thrombosis. *J Vasc Surg Venous Lymphat Disord* 2017;5:25-32. PMID 27987606.

Jorge A, Lertratanakul A, Lee J, **Pearce W**, McPherson D, Thompson T, Barinas-Mitchell E, Ramsey-Goldman R. Depression and progression of subclinical cardiovascular disease in systemic lupus erythematosus. *Arthritis Care Res (Hoboken)* 2017;69:5-11. PMID: 27390248

McDermott MM, Polonsky TS, Kibbe MR, Tian L, Zhao L, **Pearce WH**, Gao Y, Guralnik JM. Racial differences in functional decline in peripheral artery disease and associations with socioeconomic status and education. *J Vasc Surg* 2017 May 11. pii: S0741-5214(17)30912-6. doi: 10.1016/j.jvs.2017.02.037. [Epub ahead of print]

Cardenas A, Morgan C, Pearce WH, Rodriguez H. Visceral artery dissection. In Eskandari MK, Pearce WH, Yao JST, eds. Current Vascular Surgery: 40th Anniversary of the Northwestern Vascular Symposium. Shelton, CT: People's Medical Publishing House—USA, 2016.

Eskandari MK, Pearce WH, Yao JST, eds. Current Vascular Surgery: 40th Anniversary of the Northwestern Vascular Symposium. Shelton, CT: People's Medical Publishing House—USA, 2016.

Eskandari MK, Pearce WH, Yao JST, eds. Current Vascular Surgery: Northwestern Vascular Symposium. Raleigh, NC: People's Medical Publishing House—USA, 2017.

## Duc Thinh Pham, MD

Bharat A, **Pham DT**, Prasad SM. Ambulatory Extracorporeal Membrane Oxygenation: A Surgical Innovation for Adult Respiratory

Distress Syndrome. *JAMA Surg*. 2016

MS Kiernan, KS Sundareswaran, **DT Pham**, NK Kapur, NL Pereira, M Strueber, DJ Farrar, D DeNofrio, JG Rogers. Preoperative Determinants of Quality of Life and Functional Capacity Response to Left Ventricular Assist Device Therapy. *J Card Fail*. 2016 Jan 14.

## Heron E. Rodriguez, MD

Garcia RM, Choy W, DiDomenico JD, Barrington 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 Oct;32:104-8. doi: 10.1016/j.jocn.2016.04.003. PMID: 27401225.

Yoon DY, Resnick SA, Eskandari MK, **Rodriguez HE**. Endograft component separation in giant hepatic artery aneurysm. *J Vasc Surg*. 2016 Oct;64:1140. doi:10.1016/j.jvs.2015.12.063. PMID: 27666451.

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 Nov;151(11):1032-1038. doi:10.1001/jamasurg.2016.2247. PMID: 27487304.

Yoon DY, Guitart J, **Rodriguez HE**. Clusters of Painful Blue Papules. *JAMA Dermatology*. 2016 Dec;152(12):1379-1380. doi: 10.1001/jamadermatol.2016.2746. PMID: 27557402.

Mansukhani NA, Havelka GE, Helenowski IB, **Rodriguez HE**, Hoel AW, Eskandari, MK. The enduring patency of primary inferior vena cava repair. *Surgery*. 2016 Dec20; doi:10.1016/j.surg.201611.006. PMID: 25011005.

Yoon DY, Riaz A, Teter K, Vavra AK, Kibbe MR, Pearce WH, Eskandari MK, Lewandowski R, **Rodriguez HE**. Surveillance, anticoagulation, or filter in calf vein thrombosis. *Journal of Vascular Surgery Venous and Lymphatic Disorders*. 2017 Jan;5(1): 25-32. doi:10.1016/j.jvsv.2016.08.007. PMID: 27987606.

Choy W, Barrington B, Garcia R, Kim RB, **Rodriguez HE**, Lam S, Dahdaleh N, Smith ZA. Risk Factors for Medical and Surgical Complications Following Single-Level ALIF. *Global Spine Journal*. 2017;20(10): 1-7. doi: 10.1177/2192568217694009.

Mansukhani NA, Havelka GE, Helenowski IB, **Rodriguez HE**, Hoel AW, Eskandari MK. Hybrid Endovascular Aortic Aneurysm Repair: Preservation of Pelvic Perfusion with External to Internal Iliac Artery Bypass. *Ann Vasc Surg*. 2017

Jul;42:162-168. PMID: 28286187.

Yoon D, Vavra A, **Rodriguez HE**. Why Temporary Filters are not removed: Clinical Predictors in 1000 consecutive cases. *Ann Vasc Surg*. 2017 March 10. doi:10.1016/j.avsg.2016.10.055. PMID: 28288891.

Morgan C, Eskandari ME, **Rodriguez HE**. 10-Year Review of Isolated Spontaneous Mesenteric Arterial Dissections. In press. *J Vasc Surg*. 2017.

Mansukhani NA, Havelka GE, Helenowski IB, **Rodriguez HE**, Hoel AW, Eskandari MK. The enduring patency of primary inferior vena cava repair. *Surgery*. 2017;161:1414-22. PMID: 28011005.

Yoon DY, Garza A, **Rodriguez HE**. Appropriate Endpoints for Chronic Limb Ischemia. Dieter RS, Dieter RA (Eds) *Critical Limb Ischemia. Acute and Chronic*. Springer; 2017, 629-636.

Vivek S. Prakash, **Rodriguez HE**. Management of Internal Iliac Artery Aneurysms. In: Eskandari MK, Pearce WH, Yao JT, editors. *Current vascular surgery: 40th anniversary of the Northwestern Vascular Symposium*.

**Rodriguez HE**, Upper Extremity Ischemia. Mulholland MW, Lillemoie KD, Doherty GM, Upchurch GR, Alam HB, Pawlik Tm. *Greenfield's Surgery: Scientific Principles and Practice 6th Edition*. Lippincott Williams. 2017;

**Rodriguez HE**, Pearce WH. The Management of Venous Aneurysms. In: Gloviczki P (ed): *Handbook of Venous Disorders*, Hodder Arnold 2017, pp. 604-617.

## Anat Roitberg-Tambur, DMD, PhD

Ramiro Fernandez, Stephen Chiu, Kirtee Raparia, Puneet Garcha, Carol Farver, Marie Budev, **Anat R. Tambur**, Malcolm M. DeCamp, Scott Budinger, Harris Perlman, T. Mohanakumar, and Ankit Bharat. Humoral Human Lung Allograft Rejection by Tissue Restricted non-HLA antibodies. *Ann Thorac Surg* 2016, 102:339-341

**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**. Hiding in plain Sight – or a new look at HLA epitopes. A personal viewpoint. *AJT* 2016

# FACULTY PUBLICATIONS

## Anat Roitberg-Tambur, DMD, PhD (cont.)

**Tambur AR.** Auto and allo epitopes in DQ alloreactivity. Currently Opinions in Organ Transplantation. 2016 21(4):355-61

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

Hod Dvorai R, Pinelli DF, **Tambur, AR.** HLA Epitopes – Are We Ready for Clinical Prime Time? Historic Perspective and Future Needs. Clinical Transplantation 2017

**Tambur AR,** Wiebe C. HLA Diagnostics: Evaluating DSA Strength by Titration. Transplantation, 2017 In Press

**Tambur AR,** Audry B, Antoine C, Suberbielle C, Glotz D, Jacquelinet C. Harnessing Scientific and Technological Advances to Improve Equity in Kidney Allocation Policies. AJT 2017, In Press

## Steven J. Schwulst, MD

Makinde H, Cuda C, Just T, Perlman H, **Schwulst S.** Nonclassical Monocytes Mediate Secondary Injury, Neurocognitive Outcome, and Neutrophil Infiltration after Traumatic Brain Injury. Journal of Immunology. In Press, 2017.

Makinde H, Just T, Cuda C, Perlman H, **Schwulst S.** The Role of Microglia in the Etiology and Evolution of Chronic Traumatic Encephalopathy. Shock. In Press, 2017.

## Michael B. Shapiro, MD

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, 151:1125-1130.

Wandling MW, Nathens AB, **Shapiro MB,** Haut ER. Police Transport versus 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, 81:931-935.

Blair K, Paladino L, Shaw PL, **Shapiro MB,** Nwomeh BC, Swaroop M. Surgical & Trauma Care in Low- and Middle-Income Countries: A Review of Capacity Assessments. Journal of

Surgical Research, 2017, 210: 139-151.

Wandling MW, Nathens AB, **Shapiro MB,** Haut ER. The Association Between Pre-Hospital Mode of Transport and Mortality in Penetrating Trauma: A Trauma System Level Assessment of Private Vehicle Transportation vs. Ground EMS. JAMA Surgery, 2017, accepted for publication.

Blair K, Boeck MA, Barrientos JL, Lopez JL, Helenowski IB, Nwomeh BC, **Shapiro MB,** Swaroop M. Assessment of Surgical and Trauma Capacity in Potosi, Bolivia. Annals of Global Health, 2017, in press (published online in advance of press: <https://doi.org/10.1016/j.aogh.2017.04.002>).

## Nathaniel J. Soper, MD

Hungness ES, Sternbach JM, Teitelbaum EN, Kahrilas PJ, Pandolfino JE, **Soper NJ.** (2016) Per-oral Endoscopic Myotomy (POEM) After the Learning Curve: Durable Long-term Results With a Low Complication Rate. Ann Surg. 2016 Sep;264(3):508-517. PMID: 27513156

Hutter MM, Behrns KE, **Soper NJ,** Michelassi F. (2016)"Advanced GI Surgery Training - A Roadmap for the Future: The White Paper from the SSAT Task Force on Advanced GI Surgery Training" J Gastrointest Surg. 2017 Apr; 21 (4):755-760

Cohn TD, **Soper NJ.** (2017) GERD Symposium: "Paraesophageal Hernia Repair: Techniques for Success" in JLAST. Vol 27, Jan 2017, 27(1): 19-23

Williams RG, George BC, Meyerson SL, Bohnen JT, Dunnington GL, Schuller MC, Torbeck L, Mullen JT, Auyang E, Chipman J, Choi J, Choti M, Endean E, Foley EF, Mandell S, Meier A, Smink D, Terhune KP, Wise P, DaRosa D, **Soper NJ,** Zwischenberger JB, Lillemoe KD, Fryer JP on behalf of the Procedural Learning and Safety Collaborative (2017) "What Factors Influence Attending Surgeon Decisions about Resident Autonomy in the Operating Room?" in Surgery. In Press

Deschner BW, **Soper NJ** (2017) "Secrets for successful laparoscopic antireflux surgery: surgical technique". In press Ann Laprosc Endosc Surg. 2017;2:82 (online only)

George BC, Bohnen JD, Williams Reed, Meyerson SL, Schuller MC, Clark MJ, Meier AH, Torbeck L, Mandell SP, Mullen JT, Smink DS, Scully RE, MD, Chipman JG, Auyang ED, Terhune KP, Wise PE, Choi JN, Foley EF, Dimick JB, Choti MA, **Soper NJ,** Lillemoe KD, Zwischenberger JB, Dunnington GL, DaRosa DA, Fryer JP, MD, MHPE on behalf of the Procedural Learning and Safety Collaborative (PLSC). (2017) "Readiness of US

General Surgery Residents for Independent Practice" In Ann Surg (in press)

Patti, MG, Andolfi C, Bowers S, **Soper, NJ** (2017) POEM vs Laparoscopic Heller Myotomy and Fundoplication: Which Is Now the Gold Standard for Treatment of Achalasia? " J Gastrointest Surg, 2017 Feb; 21(2): 207-214

Clayman, RV, Kavoussi L, **Soper NJ,** Dierks SM, Meretyk S, Darcy MD, Roemer FD, Pingleton ED, Thomson PG, Long SR. (2017) Laparoscopic Nephrectomy: Initial Case Report. Journal of Urology, 2017 Feb; 197(2): S182-S186

Soper NJ (2017) "Passion and the GI Surgeon" in J Gastrointest Surg (in press)

Teitelbaum EN, Soper NJ. (2016) "Per Oral Esophageal Procedures" General Thoracic Surgery. In Press.

## Jonah J. Stulberg, MD, PhD, MPH

**Stulberg JJ,** Bilimoria KY. Complications, Costs, and Financial Incentives for Quality [invited commentary]. JAMA surgery 2016;151(9):830.

Ban KA, Cohen ME, Ko CY, Friedberg MW, **Stulberg JJ,** Zhou L, Hall BL, Hoyt DB, Bilimoria KY. Evaluation of the ProPublica Surgeon Scorecard "Adjusted Complication Rate" Measure Specifications. Ann Surg 2016;264 (4):566-74.

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 to 2013. JAMA surgery 2016;151(12):1125-30.

**Stulberg JJ,** Bilimoria KY. Comparative Effectiveness Research in Surgery. In: Cameron JL, Cameron AM, editors. Current Surgical Therapy. 12 ed. Philadelphia, PA: Elsevier, Inc.; 2017. p. 1357-1360.

**Stulberg JJ,** Pavey ES, Cohen ME, Ko CY, Hoyt DB, Bilimoria KY. Effect of Flexible Duty Hour Policies on Length of Stay for Complex Intra-Abdominal Operations: A Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial Analysis. J Am Coll Surg 2017;224(2):143-8 e1.

Minami CA, Sheils CR, Pavey E, Chung JW, **Stulberg JJ,** Odell DD, Yang AD, Bentrem DJ, Bilimoria KY. Association Between State Medical Malpractice Environment and Postoperative Outcomes in the United States. J Am Coll Surg 2017;224(3):310-8 e2.

## FACULTY PUBLICATIONS

### Jonah J. Stulberg, MD, PhD, MPH (cont.)

Blay E Jr, **Stulberg JJ**. Umbilical Hernia. *JAMA*. 2017;317(21):2248.

### Mamta Swaroop, MD

Marissa A. Boeck MD, MPH<sup>1,2,3</sup>; J. Esteban Foianini MD<sup>4</sup>; Henry Perry MD, PhD, MPH<sup>5</sup>; Lina V. Mata MD<sup>6</sup>; Sudha Jayaraman MD, MSc<sup>6</sup>; Michel Aboutanos MD, MPH<sup>6</sup>; **Mamta Swaroop MD**. The Implementation of a Hospital-Based Trauma Registry in Santa Cruz de la Sierra, Bolivia: A Pilot Study. *Pan AM Journal of Trauma, Critical Care and Emergency Surgery*. May-August 2016;5(2):101-112.

Siddiqui SM, Sagar S, Gupta A, Mishra MC, Crandall M, **Swaroop M**. Patterns of Injury: Motorized Two Wheeler Pillion Riders in New Delhi, India. *JSR*. 2016 Sep; 205(1):142-6.

Anderson HL, Arquilla B, Firstenberg MS, Garg M, Galwankar SC, Gracias VH, Hansoti B, Jeanmonod D, Jeanmonod R, Moffatt-Bruce SD, Nanda S, Orlando JP, Paladino L, Papadimos TJ, Sakran JV, Sharpe RP, Stawicki SP, **Swaroop M**. Mission statement of the American College of Academic International Medicine. *Int J Crit Illn Inj Sci*. 2017 Jan-Mar;7(1):3-7.

K.J. Blair, L. Paladino, P. Shaw, M.B. Shapiro, B.C. Nwomeh, **M. Swaroop**. Surgical & Trauma Care in Low- and Middle-Income Countries: A Systematic Review of Tools to Evaluate Capacity. *JSR* April 2017; 210 (139-151).

M Saeed, SM Siddiqui, U Khan, **M Swaroop**: Perceptions Regarding Media Influence on Helmet Usage: A Cross-Sectional Survey on Female Pillioners in Karachi, Pakistan. *JSR* May 2017; 211(261-265).

Contributing Author, G4 Alliance, Development of a Unifying Target and Consensus Indicators for Global Surgical Systems Strengthening: Proposed by the Global Alliance for Surgery, Obstetric, Trauma, and Anaesthesia Care (The G4 Alliance). *WJS*, May 2017.

Kevin J. Blair, Marissa A. Boeck, José Luis Gallardo Barrientos, Liz Nina Almendras, José Luis Hidalgo López, Irene Helenowski, Benedict C. Nwomeh, Michael B. Shapiro, **Mamta Swaroop, MD**. Assessment of Surgical and Trauma Capacity in in Potosí, Bolivia. In Press *Annals of Global Health*. Epub at [http://www.annalsglobalhealth.org/article/S2214-9996\(17\)30600-8/pdf](http://www.annalsglobalhealth.org/article/S2214-9996(17)30600-8/pdf)

### Tadaki M. Tomita, MD

**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 Nov;151:1032-8. PMID 27487304

Yoon DY, Hekman KE, Mansukhani N, Hoel AW, Rodriguez HE, Pearce WH, Eskandari MK, **Tomita TM**. Poor outcomes in obese patients after mesenteric revascularization for chronic mesenteric ischemia. *J Vasc Surg* 2016;64:872.

Tomita TM, Kibbe MR. Diagnostic approach to critical limb ischemia. In Dieter R, Dieter Jr RA, Dieter III RA, Nanjundappa A, eds. *Critical Limb Ischemia: Acute and Chronic*. Cham, Switzerland: Springer Internal Publishing Switzerland, 2017. DOI 10.1007/978-3-319-31991-9\_15

Tomita TM, Hoel AW. Does EVAR improve outcomes or quality of life in patients deemed unfit for open surgery? In Skelly CL, Milner R, eds. *Difficult Decisions in Vascular Surgery: An Evidence-Based Approach*. Cham, Switzerland: Springer International Publishing AG Switzerland, 2017. <http://link.springer.com/book/10.1007/978-3-319-33293-2>

Mansukhani NA, Tomita TM. Chronic mesenteric ischemia in obese patients. In Eskandari MK, Pearce WH, Yao JST, eds. *Current Vascular Surgery: Northwestern Vascular Symposium*. Raleigh, NC: People's Medical Publishing House-USA, 2017.

Hoel AW, Tomita TM. EVAR in high-risk patients. In Eskandari MK, Pearce WH, Yao JST, eds. *Current Vascular Surgery: Northwestern Vascular Symposium*. Raleigh, NC: People's Medical Publishing House-USA, 2017.

### Jeffrey D. Wayne, MD

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*. 2017; 265(1): 192-196.

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) 23: 3548-3557.

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 Sept 1; 152(9): 979-985.

Engelhardt KE, Wayne JD, and Bilimoria KY. Should we abandon TNM staging in favor of gene profiles in node-positive melanoma? *Ann Surg Oncol* Jan; 24(1): 3-5.

Faries MB, Thompson JF, Cochran AJ, Andtbacka R, Mozzillo N, Zager J, Jahkola T, Bowles T, Testori A, Beitsch P, Hoekstra HJ, Moncrieff M, Ingvar C, Wouters M, Sabel M, Levine E, Agnese D, Henderson M, Dummer R, Rossi C, Neves R, Steven D, Trocha SD, Wright F, Byrd D, Matter M, Dillon L, Eddy Hsueh, MacKenzie-Ross A, Johnson D, Terheyden P, Berger A, Huston TL, Wayne J, Smithers M, Neuman H, Schneebaum S, Gershenwald J, Ariyan C, Desai D, Jacobs L, Lewis J, McMasters K, Gesierick A, Hersey P, Bines S, Sardi A, Kane J, Barth RJ, McKinnon G, Barone R, Slingluff, Jr. CL, Farma J, Schultz E, Molina M, Vidal-Sicart S, Hoefler, Jr. R, Scheri R, Sussman J, Kelley MC, Noyes RD, Hoon DSB, Wang H, Elashoff D, Elashoff R. Multicenter Selective Lymphadenectomy Trial (MSLT)-II: Completion Lymph Node Dissection versus Observation in Patients with Melanoma Sentinel Lymph Node Metastases. *New England J Medicine* Jun 8; 376(23): 2211-2222.

### Jason A. Wertheim, MD, PhD

Hunsberger J, Neubert J, **Wertheim JA**, Allickson J, Atala A "Bioengineering Priorities on a Path to Ending Organ Shortage." *Current Stem Cell Reports*. 2(2)118-127 (2016).

**Wertheim JA**. "Novel Technology for Liver Regeneration and Replacement." *Liver Transplantation*. 2016 Nov;22(S1):41-46. PMID: PMC5244428.



## FACULTY PUBLICATIONS

### Jason A. Wertheim, MD, PhD (cont.)

Oxburgh L, Carroll TJ, Cleaver O, Gossett DR, Hoshizaki DK, Hubbell JA, Humphreys BD, Jain S, Jensen J, Kaplan DL, Kesselman C, Ketchum CJ, Little MH, McMahon AP, Shankland SJ, Spence JR, Valerius MT, **Wertheim JA**, Wessely O, Zheng Y, Drummond IA. "(Re)Building a Kidney" Journal of the American Society of Nephrology. Jan 17 (2017). PMID: PMC5407737.

Giwa S, Lewis JK, Alvarez L, Langer R, Roth AE, Church GM, Markmann JF, Sachs DH, Chandraker A, **Wertheim JA**, Rothblatt M, Boyden ES, Eidbo E, Lee WPA, Pomahac B, Brandacher G, Weinstock DM, Elliott G, Nelson D, Acker JP, Uygun K, Schmalz B, Weegman BP, Tocchio A, Fahy GM, Storey KB, Rubinsky B, Bischof J, Elliott JAW, Woodruff TK, Morris GJ, Demirci U, Brockbank KGM, Woods EJ, Ben RN, Baust JG, Gao D, Fuller B, Rabin Y, Kravitz DC, Taylor MJ, Toner M. "The promise of organ and tissue preservation to transform medicine" Nature Biotechnology. 35(6):530-542 (2017).

Shetty A, **Wertheim JA**, Butt Z. "Health-related quality of life outcomes after kidney transplantation" In: Kidney Transplantation, Bioengineering and Regeneration. Eds: Orlando, Remuzzi, Williams. Waltham, MA: Elsevier/Academic Press, 2017.

### Anthony D. Yang, MD, MS

Teitelbaum EN, **Yang AD**, Mahvi DM. "Primary Closure or T-tube Drainage after Open or Laparoscopic Common Bile Duct Exploration?" In: Millis JM, Matthews JB, editors. Difficult Decisions in Hepatobiliary and Pancreatic Surgery: An Evidence Based Approach. New York, NY: Springer; 2016. p. 209-18.

Knab LM, **Yang A**. "Gastric and Small Bowel Tumors." In: Bentrem D, Benson AB, editors. Gastrointestinal Malignancies. Cham: Springer International Publishing; 2016. p. 1-16.

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;23(8):2446-55.

Minami CA, Wayne JD, **Yang AD**, Martini MC, Gerami P, Chandra S, Kuzel TM, Winchester DP, Palis BE, Bilimoria KY. National Evaluation of Hospital Performance on the New Commission on Cancer Melanoma Quality Measures. Ann Surg Oncol 2016;23(11):3548-57.

Minami CA, **Yang AD**, Ju M, Culver E, Seifert K, Kreutzer L, Halverson T, O'Leary KJ, Bilimoria KY. Evaluation of an institutional project to improve venous thromboembolism prevention. J Hosp Med 2016;11 Suppl 2:S29-s37.

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 quality & safety 2016;25(12):962-70.

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 2016;160(5):1182-8.

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 Cholelithiasis Management in the United States From 1998 to 2013. JAMA surgery 2016;151(12):1125-30.

Wandling MW, Minami CA, Johnson JK, O'Leary KJ, **Yang AD**, Holl JL, Bilimoria KY. Development of a Conceptual Model for Surgical Quality Improvement Collaboratives: Facilitating the Implementation and Evaluation of Collaborative Quality Improvement. JAMA surgery 2016;151(12):1181-3.

Ban KA, Chung JW, Matulewicz RS, Kelz RR, Shea JA, Dahlke AR, Quinn CM, **Yang AD**, Bilimoria KY. Gender-Based Differences in Surgical Residents' Perceptions of Patient Safety, Continuity of Care, and Well-Being: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. J Am Coll Surg 2017;224(2):126-36.e2.

Bilimoria KY, Quinn CM, Dahlke AR, Kelz RR, Shea JA, Rajaram R, Love R, Kreutzer L, Biester T, **Yang AD**, Hoyt DB, Lewis FR. Use and Underlying Reasons for Duty Hour Flexibility in the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. J Am Coll Surg 2017;224(2):118-25.

Kreutzer L, Dahlke AR, Love R, Ban KA, **Yang AD**, Bilimoria KY, Johnson JK. Exploring Qualitative Perspectives on Surgical Resident Training, Well-Being, and Patient Care. J Am Coll Surg 2017;224(2):149-59.

Matulewicz RS, Odell DD, Chung JW, Ban KA, **Yang AD**, Bilimoria KY. Association Between Resident Perceptions of Patient Safety and Duty Hour Violations. J Am Coll Surg 2017;224(2):113-7.e4.

**Yang AD**, Chung JW, Dahlke AR, Biester T,

Quinn CM, Matulewicz RS, Odell DD, Kelz RR, Shea JA, Lewis F, Bilimoria KY. Differences in Resident Perceptions by Postgraduate Year of Duty Hour Policies: An Analysis from the Flexibility in Duty Hour Requirements for Surgical Trainees (FIRST) Trial. J Am Coll Surg 2017;224(2):103-112.

Minami CA, Sheils CR, Pavey E, Chung JW, Stulberg JJ, Odell DD, **Yang AD**, Bentrem DJ, Bilimoria KY. Association Between State Medical Malpractice Environment and Postoperative Outcomes in the United States. J Am Coll Surg 2017;224(3):310-318.e2.

Grova MM, **Yang AD**, Humphries MD, Galante JM, Salcedo ES. Dedicated Research Time During Surgery Residency Leads to a Significant Decline In Self-Assessed Clinical Aptitude and Surgical Skills [published online ahead of print May 19, 2017]. J Surg Educ 2017.

Shah R, Pavey E, Ju M, Merkow R, Rajaram R, Wandling MW, Cohen ME, Dahlke A, **Yang A**, Bilimoria K. Evaluation of readmissions due to surgical site infections: A potential target for quality improvement [published online ahead of print June 8, 2017]. J Am Coll Surg 2017.