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)
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,

[Signature]

Nathaniel J. Soper, MD, FACS
Loyal and Edith Davis Professor and Chair
Department of Surgery
Northwestern Medicine
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”.

Providing Excellent Clinical Care...

<table>
<thead>
<tr>
<th>Department</th>
<th>OR Cases</th>
<th>Clinic Visits</th>
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<tr>
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<tr>
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<tr>
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<tr>
<td>Surg Onc</td>
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</table>

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...

<table>
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<tr>
<th>Residency</th>
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<th>Fellows</th>
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<td>Cardiothoracic</td>
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<tr>
<td>Vascular</td>
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<td>Vascular</td>
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<tr>
<td>Preliminary</td>
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<td><strong>Total</strong></td>
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<td><strong>Total</strong></td>
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<table>
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<th>Fellowship</th>
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<tr>
<td>Breast</td>
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<td>Trauma/Critical Care</td>
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<td>Transplant</td>
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<tr>
<td>Vascular</td>
<td>4</td>
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<tr>
<td>Cardiac/Cardiothoracic</td>
<td>4</td>
</tr>
<tr>
<td>Pediatric</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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</table>
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.

<table>
<thead>
<tr>
<th>The first 7 months of the ERP pilot has impacted:</th>
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<tbody>
<tr>
<td><strong>Length of Stay</strong></td>
</tr>
<tr>
<td>• Reduction in LOS from 5.9 to 5.1 days (for all patients, laparoscopic and open)</td>
</tr>
<tr>
<td>• Reduction in LOS from 7.6 days to 6.4 days (for open colorectal resection patients)</td>
</tr>
<tr>
<td><strong>Readmissions</strong></td>
</tr>
<tr>
<td>• Reduction in 30-day readmission rates from 12.5% to 7.1%</td>
</tr>
<tr>
<td><strong>Surgical Site Infection</strong></td>
</tr>
<tr>
<td>• Reduction in all SSIs from 9.2% to 4.4%</td>
</tr>
<tr>
<td>• Reduction in superficial SSIs from 4% to 0%</td>
</tr>
<tr>
<td><strong>ERP Adoption</strong></td>
</tr>
<tr>
<td>• Approximately 90% of elective colorectal resections are now performed as ERP cases</td>
</tr>
</tbody>
</table>
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, sacrococcygeal teratoma, congenital pulmonary airway malformation, gastrochisis, 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.

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
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 competed 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 Schnaufer 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.
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.

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.

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.

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.

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.

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.

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.

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.
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
UNIQUE PATENTS FILED

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<thead>
<tr>
<th>Name</th>
<th>Type</th>
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<tr>
<td>Guillermo Ameer</td>
<td>5 Provisional, 4 Nationalization</td>
<td>9</td>
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<tr>
<td>Jason Ko</td>
<td>1 Continuation</td>
<td>1</td>
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<td>Jason Wertheim</td>
<td>1 Utility</td>
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<td>Joseph Leventhal</td>
<td>1 Nationalization</td>
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<td>Michael Abecassis</td>
<td>9 Nationalization, 1 Provisional</td>
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<td>Ramille Shah</td>
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<td>Seema Khan</td>
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<tr>
<td>Xiaomin Zhang</td>
<td>1 Continuation</td>
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</tbody>
</table>

Total Filed: 35

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**

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<th>Proposal Title</th>
<th>Amount</th>
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<th>End Date</th>
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<tbody>
<tr>
<td>Khan</td>
<td>Seema</td>
<td>Preclinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents</td>
<td>$250,000</td>
<td>10/1/2016</td>
<td>9/30/2017</td>
<td>New</td>
<td>Breast Cancer Research Foundation</td>
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<td>Khan</td>
<td>Seema</td>
<td>Shenzhen &quot;Three-Famous Health Project&quot; program</td>
<td>$143,000</td>
<td>7/26/2016</td>
<td>6/30/2021</td>
<td>New</td>
<td>Shenzhen People's Hospital</td>
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<tr>
<td>Khan</td>
<td>Seema</td>
<td>A randomized, double-blind, placebo-controlled study of 4-hydroxamoxifen topical gel in women with mammographically dense breasts</td>
<td>$65,976</td>
<td>9/19/2016</td>
<td>9/18/2018</td>
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<td>National Institutes of Health</td>
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<tr>
<td>Khan</td>
<td>Seema</td>
<td>Progesterone Signaling and Blockade in Human Breast Tumorigenesis and Prevention</td>
<td>$396,152</td>
<td>8/3/2015</td>
<td>7/31/2020</td>
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<tr>
<td>Kulkarni</td>
<td>Swati</td>
<td>Preventing Tumor Progression in Women with High-Risk DCIS</td>
<td>$37,420</td>
<td>9/1/2016</td>
<td>8/31/2019</td>
<td>New</td>
<td>University of California</td>
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<td>Kulkarni</td>
<td>Swati</td>
<td>Evaluating the Protective Effect of a Tissue Selective Estrogen Complex (TSEC) in Women with Newly Diagnosed Ductal Carcinoma In Situ</td>
<td>$2,649,685</td>
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<td>7/31/22</td>
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<td>Alterations in Gene Expression and ER-Alpha Binding Profile in Mammary Tissue After Bariatric Surgery</td>
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<td>9/1/17</td>
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### Clinical Trials Unit

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<td>Eskandari</td>
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<td>Fixed Price Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial (N-TASCT)</td>
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<td>8/1/2012</td>
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<td>Grady</td>
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<td>Pediatric Heart Transplantation: Transitioning to Adult Care</td>
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<td>7/15/2013</td>
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<td>Grady</td>
<td>Kathleen</td>
<td>Mechanical circulatory support: Measures of adjustment and quality of life</td>
<td>$719,919</td>
<td>3/7/2016</td>
<td>2/28/2021</td>
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<td>National Institutes of Health</td>
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<td>Hoel</td>
<td>Andrew</td>
<td>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</td>
<td>$74,553</td>
<td>2/14/2017</td>
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<td>W.L. Gore and Associates</td>
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<tr>
<td>Malaisrie</td>
<td>S. Chris</td>
<td>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</td>
<td>$49,715</td>
<td>6/16/2017</td>
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<td>New</td>
<td>Werfen Group</td>
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<td>Malaisrie</td>
<td>S. Chris</td>
<td>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</td>
<td>$960,634</td>
<td>5/16/2017</td>
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<td>Edwards Lifesciences Corporation</td>
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# RESEARCH
## NEWLY FUNDED PROJECTS

### GI Surgery

<table>
<thead>
<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Proposal Title</th>
<th>Amount</th>
<th>Start Date</th>
<th>End Date</th>
<th>Award Type</th>
<th>Sponsor</th>
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<tr>
<td>Hungness</td>
<td>Eric</td>
<td>Effect of Laparoscopic Sleeve Gastrectomy on Esophagogastric Junction Distensibility</td>
<td>$4,100</td>
<td>11/1/2015</td>
<td>10/31/2017</td>
<td>Noncompeting Continuation</td>
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<td>Stulberg</td>
<td>Jonah</td>
<td>System-Level Implementation to Reduce Excess Opioid Prescribing in Surgery</td>
<td>$711,000</td>
<td>9/1/17</td>
<td>8/31/20</td>
<td>New</td>
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### Surgical Oncology

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

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<tr>
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<th>End Date</th>
<th>Award Type</th>
<th>Sponsor</th>
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<tr>
<td>Dumanian</td>
<td>Gregory</td>
<td>(Frankel Foundation Transplant Grants) Refinement and Testing of a Novel Direct Skeletal Attachment System to Improve the Lives of Wounded Warriors</td>
<td>$100,000</td>
<td>4/1/2016</td>
<td>3/31/2021</td>
<td>New</td>
<td>Northwestern Memorial Healthcare</td>
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<tr>
<td>Dumanian</td>
<td>Gregory</td>
<td>Application of Targeted Reinnervation for People with Transradial Amputation</td>
<td>$8,664</td>
<td>11/1/2014</td>
<td>6/30/2017</td>
<td>Noncompeting Continuation</td>
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<tr>
<td>Galiano</td>
<td>Robert</td>
<td>Prospective trial evaluating the long-term outcomes associated with the use of MTF allograft cartilage in cosmetic and reconstructive rhinoplasty procedures</td>
<td>$130,000</td>
<td>10/20/2016</td>
<td>10/19/2018</td>
<td>New</td>
<td>Musculoskeletal Transplant Foundation, Inc.</td>
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<td>Mustoe</td>
<td>Thomas</td>
<td>Locally applied statins to reduce scarring</td>
<td>$80,306</td>
<td>9/22/2013</td>
<td>9/22/2017</td>
<td>Option Years</td>
<td>Department of the Army</td>
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## RESEARCH
### NEWLY FUNDED PROJECTS

### Thoracic Surgery

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

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<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Proposal Title</th>
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<th>End Date</th>
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<tr>
<td>Ho</td>
<td>Karen</td>
<td>Gut Microbe-Dependent Metabolites as Modulators and Biomarkers of Atherosclerosis</td>
<td>$50,000</td>
<td>1/1/2017</td>
<td>12/31/2018</td>
<td>New</td>
<td>Vascular Cures</td>
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<tr>
<td>Ho</td>
<td>Karen</td>
<td>Student Award in support of Kelly Wun, for &quot;Modulation of NeoIntimal Hyperplasia after Arterial Injury by Microbe-Derived Propionate&quot;</td>
<td>$3,000</td>
<td>5/1/2017</td>
<td>4/30/2018</td>
<td>New</td>
<td>Society for Vascular Surgery</td>
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### Pediatric Surgery

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<tr>
<th>Last Name</th>
<th>First Name</th>
<th>Proposal Title</th>
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<tr>
<td>Hunter</td>
<td>Catherine</td>
<td>Defining bacterial virulence, cAMP and PKA in necrotizing enterocolitis</td>
<td>$149,472</td>
<td>8/1/2015</td>
<td>6/30/2020</td>
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<td>Ghomrawi</td>
<td>Hassan</td>
<td>Quantifying Underuse and Overuse of Knee Replacement</td>
<td>$323,144</td>
<td>12/1/2016</td>
<td>4/30/2018</td>
<td>Noncompeting Continuation</td>
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### NEWLY FUNDED PROJECTS

#### Transplant Surgery

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

<table>
<thead>
<tr>
<th>Resident as Teacher Awards</th>
<th>Fellow as Teacher Awards</th>
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<tbody>
<tr>
<td>Brian Brajcich, MD (PGY-1)</td>
<td>Ashish Jain, MD (Vascular Surgery)</td>
</tr>
<tr>
<td>Azad Karim, MD (PGY-1-Thoracic)</td>
<td>Micah Girotti, MD (Vascular Surgery)</td>
</tr>
<tr>
<td>William Phillips, MD (PGY-2)</td>
<td>Jonathan Bean, MD (Surgical Critical Care)</td>
</tr>
<tr>
<td>Tarik Yuce, MD (PGY-2)</td>
<td></td>
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<tr>
<td>Eriberto Michel, MD (PGY-3-Thoracic)</td>
<td></td>
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<tr>
<td>Ben Deschner, MD (PGY-4)</td>
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<td></td>
<td>Brett Duncan, MD (PGY-5)</td>
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<td></td>
<td>Ravi Rajaram, MD (PGY-5)</td>
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<tr>
<td></td>
<td>Chad Purnell, MD (PGY-5-Plastics)</td>
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<tr>
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<td>Sumanas Jordan, MD (PGY-6-Plastics)</td>
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<tr>
<td></td>
<td>Michael Gart, MD (PGY-6-Plastics)</td>
</tr>
</tbody>
</table>

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

**General Surgery**
- Tyler Cohn
- Juaquito Jorge
- Brett Duncan
- Ravi Rajaram

**Breast Surgery**
- Elizabeth DesJardin
- Sasa-Grae Espino

**Trauma/Critical Care Surgery**
- Joliette Barnum
- Jonathan Bean

**Transplant Surgery**
- Caroline Lemoine
- Matthew Sanders

**Vascular Surgery**
- Micah Girotti
- Courtney Morgan

**Pediatric Critical Care Surgery**
- Jocelyn Burke

**Pediatric Surgery**
- 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

**Trauma & Critical Care Surgery**
- Kulsoom Laeeq
- Rahul Rasheed

**Breast Surgery**
- Batul Al-Zubeidy
- Michelle Han

**Transplant Surgery**
- Rebecca Craig-Shapiro
- Kofi Atiemo

**Vascular Surgery**
- Andres Guerra
- Gabriel Wallace

**Plastic Surgery**
- Jonathan Massie
- Julian Klosowia

**Pediatric Critical Care Surgery**
- Stewart Carter

**Pediatric Surgery**
- Chethan Sathya
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.
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 94th 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 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!

**Clinical**

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**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)
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-Alfa 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.
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 multidisciplinary 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.
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.
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 99th 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.

Clinical

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:

- 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
Research (cont.)

- 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

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

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.
DIVISIONAL UPDATES

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.

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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 & Thoracic 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.
DIVISIONAL UPDATES

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.
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.

Clinical

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

**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. 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 5th 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.
**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.

**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 Shenzen 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.”
Transplant Surgery

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 received 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 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.
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.

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 Tangerlini, 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.
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 Poslusznuy 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.
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.

**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 (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
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.


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.
At Jesse Brown VA Medical Center (J BVAMC), 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.
Dr. Carl Backer appointed as 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.

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, leadership 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.
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

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**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>9/7/17</td>
<td>Enhanced Recovery</td>
<td>Dr. Michael McGee</td>
<td>Arkes 6th Floor, VC Room</td>
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<tr>
<td>9/21/17</td>
<td>Gerald Ujiki Education Lectureship &amp; Teaching Awards</td>
<td>Dr. Caprice Greenberg</td>
<td>Pritzker Auditorium</td>
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<td>9/28/17</td>
<td>Faculty Meeting</td>
<td>Dr. Nathaniel Soper</td>
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<td>10/19/17</td>
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<td>Dr. Donald Fry</td>
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<td>10/26/17</td>
<td>Teaching Grand Rounds</td>
<td>Drs. Fryer &amp; Halverson</td>
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<td>11/9/17</td>
<td>Research Presentations</td>
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<td>11/16/17</td>
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<td>Dr. Lee Swanstrom</td>
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<td>11/20/17</td>
<td>Gerald Ujiki Education Lectureship &amp; Teaching Awards</td>
<td>Dr. Amir Ghaferi</td>
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<td>11/30/17</td>
<td>SOQIC Lectureship</td>
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<td>Dr. Gregory Dumanian</td>
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<td>Dr. Nathaniel Soper</td>
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<td>2/22/18</td>
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<td>4/5/18</td>
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<td>Dr. Ankit Bharat</td>
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<td>4/12/18</td>
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<td>Dr. Daniela Ladner</td>
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<td>Dr. Fizan Abdullah</td>
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<td>5/10/18</td>
<td>Mayo Lectureship</td>
<td>Dr. Armando E. Giuliano</td>
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<td>5/17/18</td>
<td>Shields Lectureship</td>
<td>Dr. Yolanda Colson</td>
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<td>5/31/18</td>
<td>TBD</td>
<td>Dr. Jason Wertheim</td>
<td>Arkes 6th Floor, VC Room</td>
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**SAVE THE DATE**

- Department of Surgery Holiday Reception - December 8, 2017
- Edelstone-Bendix Resident Research Day & Faculty Retreat - June 15, 2018

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*The Surgical Scope • September 2017*
FACULTY HONORS & AWARDS

Ankit Bharat, MBBS


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

Moderator, Academic Surgical Congress (Cardiothoracic Session), 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.


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.

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.


Eric S. Hungness, MD
Winner, ASMSB Research Grant. Nov. 2015.


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.”

Excellent 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.


James M. Mathew, PhD


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.


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

Anat Roitberg-Tambur, DMD, PhD
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 to America’s Best Physicians, 2016.
Visiting Joaquin S. Aldrete Endowed Lecturer, University of Alabama School of Medicine, Birmingham, AL, 2016.

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

Frank A. Vicari, MD

Jeffrey D. Wayne, MD
Excellence in Teaching Award, Department of Surgery, Northwestern University Feinberg School of Medicine, 2016 (Hall of Fame).
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**


Panel Member, National Payment Reform Summit, Washington DC. June 17, 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.


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


**David J. Bentrem, MD**


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.


**Ankit Bharat, MBBS**


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.


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

**Karl Y. Bilimoria, MD, MS**


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.

FACULTY PRESENTATIONS

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


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


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


Juan C. Caicedo-Ramirez, MD


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

Invited Speaker, Mt. Sinai Medical Center 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.


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

Andrei Churyla, MD


James L. Cox, MD


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


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

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


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.


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

Mark K. Eskandari, MD

FACULTY PRESENTATIONS

Mark K. Eskandari, MD (cont.)

Jonathan P. Fryer, MD
ASTS European Transplant Fellow Workshop, Rome, Italy, September 2016.
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.
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.

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

Seok Jong Hong, PhD

Eric S. Hungness, MD
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
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.
Treatment of Achalasia in 2016. SSAT GI Surgery Winter Course on Evidence-Based Surgical Treatment of GI Disease, Dec 2, 2016, Miami, FL
SSAT Hands-On Session, Esophagus and Gastric Educator. DDW, May 6, 2017, Chicago, IL
Are hands-on courses enough for training in POEM. NOSCAR, July 14, 2017, Chicago, IL.
Eric S. Hungness, MD (cont.)
POEM. Session Moderator. NOSCAR, July 14, 2017, Chicago, IL.

Seema A. Khan, MD


Swati Kulkarni, MD

Daniela P. Ladner, MD, MPH

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, 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, Intragraft 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, 3rd Int’l Workshop on Clinical Tolerance, Stanford, CA 2017.

S. Chris Malaisrie, MD


James M. Mathew, PhD


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

S. Chris Malaisrie, MD


Michael F. McGee, MD


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.


Shari L. Meyerson, MD
FACULTY PRESENTATIONS

Shari L. Meyerson, MD (cont.)


David L. Nahrwold, MD


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)

William H. Pearce, MD


Joseph A. Poslusnzy, Jr., MD

Sean P. Nassooy DO, Robert H. Blackwell MD, McKenzie Brown BS, Anai N. Kothari MD, Timothy Plackett DO, FACS, Paul C. Kuo MD, MBA, FACS, Joseph A. Poslusnzy 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. Cantalaguna, Estado de México, México.


FACULTY PRESENTATIONS

Heron E. Rodriguez, MD (cont.)
Invited Faculty. "Venous aneurysms, are they? Why are they important? How are they treated?" CADECI/TCT 2017. Guadalajara, México. February 24, 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.
Consideration of Quantitative Use of HLA Antibody Assays - FDA, Bethesda, April 2017.

Steven J. Schwulst, MD

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


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


Jason A. Wertheim, MD, PhD


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).
FACULTY PUBLICATIONS

Michael M. Abecassis, MD


David J. Bentrem, MD


invasive vs open hepatectomy: a comparative analysis of the National Surgical Quality Improvement Program Database. JOGS 2016;20 (9):1608-17.


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.


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.


Ankit Bharat, MBBS (cont.)


Karl Y. Bilimoria, MD, MS


Andrei Churyla, MD


Mark E. Cohen, PhD


James L. Cox, MD


Malcolm M. DeCamp, Jr., MD


PMID: 27345097 [PubMed-as supplied by publisher]


FACULTY PUBLICATIONS

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


Mark K. Eskandari, MD


Donald E. Fry, MD


The Surgical Scope • September 2017
FACULTY PUBLICATIONS

Donald E. Fry, MD (cont.)


Jonathan P. Fryer, MD


Kathleen L. Grady, PhD


The Surgical Scope • September 2017

58
Seok Jong Hong, PhD


Eric S. Hungness, MD


Eric S. Hungness, MD (cont.)


Sternbach JM and Hungness ES. POEM. CSurgeries video. (In press).


Seema A. Khan, MD


Swati Kulkarni, MD


Daniela P. Ladner, MD, MPH


Joseph R. Leventhal, MD, PhD


Jing Liu, MD


S. Chris Malaisrie, MD


FACULTY PUBLICATIONS

S. Chris Malaisrie, MD (cont.)


James M. Mathew, PhD


Michael F. McGee, MD


Shari L. Meyerson, MD


David L. Nahrwold, MD


David D. Odell, MD, MMSc


William H. Pearce, MD


Duc Thinh Pham, MD


Heron E. Rodriguez, MD


Anat Roitberg-Tambur, DMD, PhD


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

63

The Surgical Scope • September 2017
FACULTY PUBLICATIONS

Anat Roitberg-Tambur, DMD, PhD (cont.)


Hod Dvorai R, Pinelli DF, Tambur, AR. HLA Epitopes – Are We Ready for Clinical Prize Time? Historic Perspective and Future Needs. Clinical Transplantation 2017


Steven J. Schwulst, MD


Michael B. Shapiro, MD


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.


Nathaniel J. Soper, MD


Jonah J. Stulberg, MD, PhD, MPH


FACULTY PUBLICATIONS

Jonah J. Stulberg, MD, PhD, MPH (cont.)

Mamta Swaroop, MD
Marissa A. Boeck MD, MPH1,2,3; J. Esteban Foiani MD4; Henry Perry MD, PhD, MPH5; Lina V. Mata MD6; Sudha Jayaraman MD, MSc6; Michel Aboutanos MD, MPH6; 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.


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).


Tadaki M. Tomita, MD


Jeffrey D. Wayne, MD


Jason A. Wertheim, MD, PhD

FACULTY PUBLICATIONS

Jason A. Wertheim, MD, PhD (cont.)


Anthony D. Yang, MD, MS


Yang AD, Chung JW, Dahlke AR, Biester T,