MESSAGE FROM THE CHAIR: Nathaniel Soper, MD

Thank you for taking time to peruse the 2016 version of the annual newsletter of the Northwestern Medicine Department of Surgery. I am excited to share important news from the department and our academic medical center. The department continues on an upward trajectory that engenders enthusiasm, and our people make it fun to come to work every day! From an institutional standpoint, the Northwestern Memorial Healthcare Corporation continues to grow and consolidate. Starting as a single hospital, we have now grown to encompass 7 hospitals and literally hundreds of sites of care. We are in discussions to merge with yet another 3-hospital system northwest of Chicago so that we can continue to serve patients close to where they live and work. In order to virtually connect all of the sites, we have begun the journey to install a single version of the EPIC electronic health record, which will undoubtedly be painful, but ultimately of great value. Construction continues on the replacement hospital at Northwestern Lake Forest and the new research tower on the downtown campus, both of which are slated to open in 2018. We recently opened an additional 8 ambulatory operating rooms in the Lavin Outpatient Pavilion (16 in total) and are nearing the end of refurbishing all 55 of the existing operating rooms on the central campus. Northwestern Memorial Hospital itself was recently ranked #8 in this year’s Honor Roll of Hospitals by U.S. News & World Report, supporting the belief that we work in one of the best institutions in the country. Members of the department are instrumental in the highly ranked specialties of cardiology and cardiac surgery, pulmonary care, cancer, and gastroenterology and GI surgery.

The Department of Surgery continues to support the tripartite mission of the academic medical center. Surgical investigators are creating an impact locally and nationally. Our research portfolio continues to grow; research funding grew by more than 20%
year over year and we are ranked #17 in NIH funding among all surgery departments nationally. A pipeline of young investigators is being developed with 3 new mentored NIH K grants awarded this year in basic investigations of lung transplant immunology (Ankit Bharat), the immunologic effects of traumatic brain injury (Steven Schuwlst) and the role of the gut microbiome in atherosclerosis (Karen Ho). Jason Wertheim’s work on creating artificial organs, highlighted in this newsletter, may ultimately be a game changer in liver and kidney availability in the field of solid organ transplantation. Karl Bilimoria’s health services research group has established an Illinois hospital collaborative to improve surgical outcomes and has highlighted discrepancies in reported measures that may influence national policy. Karl was also the principal investigator on the FIRST trial, which demonstrated the benefits of allowing increased flexibility in the work hours of surgical trainees, a trial that is being extended to accrue additional data. Clinical and technical innovation has always played a prominent role in our practices. Eric Hungness recently presented excellent long-term outcomes of the per-oral esophageal myotomy (POEM) procedure for achalasia at the American Surgical Association annual meeting, an experience recently accepted for publication by Annals of Surgery.

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

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

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

Respectfully yours,

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

65 Clinical Faculty  60 Contributed Services/Adjunct Faculty  13 Research Faculty
64 Residents  19 Fellows

Providing excellent clinical care...

<table>
<thead>
<tr>
<th></th>
<th>OR Cases</th>
<th>Clinic Visits</th>
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<td>Organ Transplantation</td>
<td>918</td>
<td>14,284</td>
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<tr>
<td>Plastic Surgery</td>
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<tr>
<td>Vascular Surgery</td>
<td>883</td>
<td>4,972</td>
<td>36,673</td>
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</table>

...advancing research and innovation...

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

63 Active Grants  •  59 Active Clinical Trials

22 Unique Patents Filed

18,764 square feet of research space

...and teaching the surgeons of tomorrow.

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<td>General Surgery</td>
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<td>Preliminary</td>
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<td>Total Residents</td>
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<table>
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<tr>
<td>Breast Surgery</td>
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<td>Pediatric Surgery</td>
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<td>Total Fellows</td>
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Partnering to improve surgical care quality

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

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

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

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

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

Northwestern Medicine Hospitals ranked amongst top hospitals in the nation

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

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

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

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

Northwestern Memorial Hospital’s Cardiology & Heart Surgery program ranked 6th in nation, moving up from 9th. "We have focused on providing great clinical results for our patients, offering the latest treatments and technologies and providing an environment for patients and our employees that is first rate. Every member of the Bluhm Cardiovascular Institute is responsible for our success from the greeter when the patients arrive, our nurses, our OR and lab teams to our world-class physicians.” said Patrick McCarthy, MD, chief of cardiology surgery at Northwestern Memorial Hospital and executive director of the Northwestern Medicine Bluhm Cardiovascular Institute.

Additionally, the Cancer specialty was ranked 14th and Gastroenterology & GI Surgery was ranked 16th.
Using Smartphones to Assess Trainee Skills

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

The individual performance assessments are added to a cumulative data base which can be used to monitor the progress of individual residents and their PGY cohorts. SIMPL can also be used to evaluate residents’ overall progression to autonomy with specific individual procedures (i.e. laparoscopic cholecystectomy, open appendectomy, etc.) or types of procedures (i.e. laparoscopic, vascular, etc) to determine how many procedures it generally takes residents to achieve higher levels of autonomy (i.e. Passive Help, Supervision Only) with these procedures and in what PGY years these higher levels of autonomy are generally achieved. These multicenter data can ultimately be used to help establish national norms and standards. With ongoing collection of data more complex issues may also be addressed such as what factors can positively influences residents’ progression towards procedural autonomy overall and with individual procedures. Furthermore by linking SIMPL to surgical fellowship training it may be helpful in determining with which procedures it is most important to achieve higher levels of autonomy during residency training to best prepare residents for specific surgical sub-specialty fellowship training. This will be helpful in guiding individual curriculum modifications (i.e. Flexibility in Surgical Training) for residents destined for specific surgical sub-specialties.

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

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

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

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

Jason Wertheim, MD, PhD, is an Assistant Professor in the Division of Organ Transplantation. The major area of interest in his laboratory is advancing the state of art in organ regeneration and tissue engineering to develop methods to grow livers, kidneys and hearts as a cutting-edge solution to the organ shortage dilemma. Despite the success of organ transplantation to restore function and free patients from artificial support or potential death, presently ~120,000 patients within the United States still remain waiting for an organ for transplantation. The technical goals of his research are to synthesize replacement tissue to restore organ function, while the scientific goals are to develop the tools—such as cells and biomaterials—and uncover important knowledge that instructs how tissues regenerate to regain function. The primary organ systems of interest in Dr. Wertheim’s laboratory are the liver, kidney and vasculature. His lab, along with collaborators at Northwestern, other institutions within the United States and abroad, are working to develop strategies to grow stem cells within 3D scaffolds, which are acellular organic materials made out of structural building blocks (collagens, laminins and fibronectins) of organs. The clinical implication of this model would be the ability to take a non-transplantable organ (e.g. a non-transplantable liver due to high fat content) and remove the cells through a process called ‘decellularization’ leaving the structural component of that organ intact, just devoid of cells (see Figure 1). The next step is to ‘add back’ stem cells, potentially derived from the intended recipient patient, to the scaffold and develop organ tissue over time as cells mature into functional tissue units. This year they demonstrated that this process leads to the formation of liver units, made from stem cells grown into hepatocytes, that have higher synthetic and catalytic function than if the same cells were grown in ‘gold-standard’ tissue culture within collagen (Wang et al. Stem Cells Translational Medicine, 2016 Sep; 5(9):1257-67). In 2015 they developed and optimized strategies to produce scaffolds from kidneys to produce acellular kidney scaffolds from rodents (Caralt et al. American Journal of Transplantation, 2015 Jan;15(1):64-75). Their principal findings subsequent to that study confirmed the retention of collagens (types I and III) and basement membrane proteins (collagen IV, laminin) by proteomics and confirmed by immunofluorescence staining, which depicts the distinct localization of these proteins within the vascular/glomerulus (collagen I, IV), nephron (laminin), and interstitial (collagen I) compartments. Ongoing studies in the lab are using these protein components and scaffolds to develop bioartificial nephrons through an NIH consortium called (Re)Building a kidney were they collaborate with an international group of stem cell biologists, renal developmental biologists and biomedical engineers. In 2016 Dr. Wertheim’s laboratory was recognized with the Vanguard Prize from the American Society of Transplant Surgeons for their research in kidney tissue engineering to develop these bioartifical scaffolds. The recognition for this achievement belongs to the post-doctoral fellows, graduate students, undergraduate trainees and members of the supportive team in the Department of Surgery that together enables this research to advance the field of bioengineering and regenerative medicine to one day develop bioatificial tissues for patients in need of replacement organs and tissues.

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

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

New full-time faculty

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

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

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

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

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

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

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

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

Faculty promotions

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

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

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

- **Mamta Swaroop, MD**, trauma/critical care surgeon, was promoted to Associate Professor of Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University.
2016 was a very productive and successful year in research for the Department of Surgery at Northwestern. From September 2015 through June 2016 we submitted 103 proposals with an estimated value of over $45M. Our proposal volume is up over 14% from last year, with a 3 year compounded annual growth rate of 13.5%.

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

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

Research highlights:

**significant new federal awards**

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

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

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

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<tr>
<th>Faculty Name</th>
<th>Patents Filed</th>
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<td>Gregory Dumanian</td>
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<td>Patrick McCarthy</td>
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<td>2 Provisional, 1 Continuation, 1 Nationalization</td>
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<tr>
<td>Ramille Shah</td>
<td>5</td>
<td>1 Divisional, 3 PCT, 1 Utility</td>
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<td>Seok Jong Hong</td>
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<td>Joseph Leventhal</td>
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<td>Guillermo Ameer</td>
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<td>Seema Khan</td>
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<tr>
<td>Jason Wertheim</td>
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<td>1 Provisional</td>
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**Total Unique Patents Filed:** 22
### Breast Surgery: Newly Funded Projects

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<th>Last Name</th>
<th>First Name</th>
<th>Proposal Title</th>
<th>Award Amount</th>
<th>Project Award Start Date</th>
<th>Project Award End Date</th>
<th>Award Type</th>
<th>Sponsor</th>
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<tr>
<td>Clare</td>
<td>Susan</td>
<td>The effect of BRCA1 haploinsufficiency on the transcriptome and phenotype of breast epithelial cells</td>
<td>$49,961.00</td>
<td>9/1/2015</td>
<td>8/31/2016</td>
<td>New</td>
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<td>Khan</td>
<td>Seema</td>
<td>Preclinical and clinical studies of breast cancer prevention with transdermal anti-progesterone agents</td>
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<td>Breast Cancer Research Foundation</td>
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<td>Khan</td>
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<td>Cancer Prevention Agent Development Program: Early Phase Clinical Research</td>
<td>$613,150.00</td>
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<td>Noncompeting Continuation</td>
<td>National Cancer Institute</td>
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<td>Khan</td>
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<td>The Role of Progesterone Receptor and Glucocorticoid Receptor in the Promotion of Tumorigenesis in BRCA1 Mutation Carriers</td>
<td>$50,000.00</td>
<td>9/1/2015</td>
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<td>New</td>
<td>Northwestern Memorial Hospital</td>
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<tr>
<td>Kulkarni</td>
<td>Swati</td>
<td>Bariatric surgery alters estradiol availability and estrogen receptor alpha activity in postmenopausal women</td>
<td>$60,997.00</td>
<td>7/1/2015</td>
<td>9/30/2016</td>
<td>New</td>
<td>James Ewing Foundation</td>
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### Clinical Trials Unit

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<tr>
<td>Eskandari</td>
<td>Mark</td>
<td>Fixed Price Non-Invasive Treatment of Abdominal Aortic Aneurysm Clinical Trial (N-TA3CT)</td>
<td>$51,280.00</td>
<td>3/1/2016</td>
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<td>Grady</td>
<td>Kathleen</td>
<td>Pediatric Heart Transplantation: Transitioning to Adult Care</td>
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<td>Ann &amp; Robert H. Lurie Children's Hospital of Chicago</td>
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<td>Grady</td>
<td>Kathleen</td>
<td>Mechanical circulatory support: Measures of adjustment and quality of life</td>
<td>$873,012.00</td>
<td>3/7/2016</td>
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<td>Grady</td>
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<td>Sustaining quality of life of the aged: Heart transplant or mechanical support?</td>
<td>$601,543.00</td>
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<td>Kibbe</td>
<td>Melina</td>
<td>Prot # JVS-100: STOP-PAD: A Phase 2B Randomized Double-Blind, Placebo Controlled - Study to Evaluate the Safety and Efficacy of JVS-100 Administered by Direct Intramuscular Injection as adjunct to revascularization of infrapopliteal lesions in subjects with advanced Peripheral Artery Disease (PAD) and tissue loss (ulceration and/or gangrene)</td>
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<td>Juventas Therapeutics, Inc.</td>
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<td>Malaisrie</td>
<td>S. Chris</td>
<td>Prot #2015-08:PARTNER 3 Trial: A Prospective, Randomized, Controlled, Multi-Center Study to Establish the Safety and Effectiveness of the SAPIEN 3 Transcatheter Heart Valve in Low Risk Patients Requiring Aortic Valve Replacement who have Severe, Calcific, Symptomatic Aortic Stenosis</td>
<td>$2,264,107.00</td>
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<td>Edwards Lifesciences LLC</td>
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<td>Malaisrie</td>
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<td>Prot #HYBRID-002: Evaluation of the Thoraflex™ Hybrid Device for Use in the Repair or Replacement of the Ascending Aorta, Aortic Arch and Descending Aorta in an Open Surgical Procedure.</td>
<td>$91,555.00</td>
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<td>Terumo Cardiovascular Systems Corporation</td>
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<td><strong>Proposal Title</strong></td>
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<td>Yang</td>
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<td>Implementation of Optimal Venous Thromboembolism Prophylaxis in Diverse Hospitals</td>
<td>$40,000.00</td>
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<td>Pathogenesis of alveolopleural fistulae following lung resection.</td>
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<td>Odell</td>
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<td>Development of a Novel Lung Cancer Quality Improvement Collaborative in Illinois</td>
<td>$50,000.00</td>
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<td>Schwulst</td>
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<td>The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome</td>
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<td>Schwulst</td>
<td>Steven</td>
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### Plastic Surgery

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<td>Gregory</td>
<td>Application of Targeted Reinnervation for People with Transradial Amputation</td>
<td>$4,748.00</td>
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<td>Galiano</td>
<td>Robert</td>
<td>Prot #WMC22 USA BSN/VLU: Clinical Study to Evaluate the Effectiveness of Cutimed Siltec B and Cutimed Sorbact Dressings with Jobst Ulcercare for the management of Venous Leg Ulcers</td>
<td>$53,301.00</td>
<td>9/21/2015</td>
<td>9/21/2018</td>
<td>New</td>
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<td>Galiano</td>
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<td>Prot #100-15-0001: A Prospective, Randomized, Single Center, Controlled Evaluation of the Effectiveness of OxyGenesys Topical Dissolved Oxygen Dressing in Accelerating the Healing of Split Thickness Skin Graft (STSG) Donor Sites Using the Northwestern University Abdominoplasty Scar Model</td>
<td>$234,110.00</td>
<td>10/1/2015</td>
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<td>Halyard Health, Inc.</td>
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<td>Galiano</td>
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<td>A Prospective, Randomized Controlled Trial Evaluating the Effectiveness of the Dolphin Bed versus Air Fluidized Systems in Acute Post-Operative Management of Surgically Closed Pressure Ulcers</td>
<td>$206,000.00</td>
<td>9/30/2015</td>
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<td>Joerns Healthcare, LLC</td>
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<td>Galiano</td>
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<td>The Effect of Various Allograft Tissue Forms in Excisional Wound Healing of a Spontaneously Occurring Diabetes Type II Murine Model</td>
<td>$120,341.00</td>
<td>4/13/2016</td>
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<td>Musculoskeletal Transplant Foundation, Inc.</td>
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<td>Galiano</td>
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<td>Prot#CE/052/PIC: A Prospective, Randomized, Comparative Effectiveness Study of a Single-Use, Negative Pressure Wound Therapy System (PICO) versus a Traditional Negative Pressure Wound Therapy System (INPWT) in the Treatment of Lower Extremity Ulcers</td>
<td>$117,466.00</td>
<td>7/14/2015</td>
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<td>In-vivo functional muscle regeneration utilizing an implantable modular bioreactor</td>
<td>$175,535.00</td>
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<td>Locally applied statins to reduce scarring</td>
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### Pediatric Surgery

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<td>Unrestricted Education Grant for Pediatric Surgery Fellows’ Course in Advanced MIS</td>
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<td>9/4/2015</td>
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<td>Hunter</td>
<td>Catherine</td>
<td>Defining the Role of Tight Junctions, Protein Kinase A, and Apoptosis in NEC</td>
<td>$90,000</td>
<td>7/1/2016</td>
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<td>American Gastroenterological Association Institute</td>
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<td>Hunter</td>
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<td>Defining bacterial virulence, cAMP and PKA in necrotizing enterocolitis</td>
<td>$149,472</td>
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## Research: Newly Funded Projects

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<td>Genomics for Transplantation: Discovery and Biomarkers</td>
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<td>Protocol ITN056ST: Evaluation of Donor Specific Immune Senescence and Exhaustion as Biomarkers of Operational Tolerance Following Liver Transplantation in Adults</td>
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<td>Dissemination of a Mobile Web App on Increased Risk Donor Kidneys</td>
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<td>A Culturally Targeted Transplant Program to Increase Live Donation in Hispanics</td>
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<td>Ethical and Sociocultural Implications of Genetic Testing in Transplantation</td>
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<td>Leventhal</td>
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<td>Prot #HEORUSV200504: Assessing the Quality of Life of Patients Who Received Facilitating Cell Therapy (FCR001) in Living - Donor Kidney (LDK) Transplantation</td>
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<td>Optimization and control of hepatocyte activity via biofunctional modification</td>
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<td>Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune assessment of a rodent model of extremity transplantation</td>
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<td>Zhang</td>
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<td>CSA - Targeting CD47 in Kidney Transplantation in Mice (Study 4)</td>
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## Vascular Surgery

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<td>Kibbe</td>
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<td>Fellowship in support of Neel Mansukhani &quot;An Engineered Targeted Nanotherapy for Treatment of Atherosclerosis&quot;</td>
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<td>Development of a Targeted Nanotherapeutic to Prevent and Regress Atherosclerotic</td>
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Medical Student Education

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

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

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

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

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

Resident Programs

Northwestern continues its leadership in promoting innovation in graduate surgical education. In 2015, Dr. Jonathan Fryer, MD, Richard H. Young Professor of Surgery, received an American Board of Surgery sponsored grant to study the use of SIMPL, System for Improving and Measuring Procedural Learning, a smart-phone based resident evalua-
A system, at general surgery programs across the country. Originally designed to be used in 10 general surgery programs and collect data through June 2016, the study now includes 15 institutions and will collect data through December 2016. The ambitious study will gather data on residents’ progression to operative independence in order to determine residents autonomy levels on “core” procedures at various PGY levels and to determine how many procedures a resident must perform before higher levels of autonomy are achieved. The app is designed to collect data about a resident’s operative performance after each time s/he operates with an attending. As of September 2016, more than 26,000 evaluations have been collected by study participants. Institutions participating in the study, in addition to Northwestern, include Brigham and Women’s Hospital, Indiana University, Massachusetts General Hospital, State University of New York Upstate Medical University, University of Kentucky, University of Minnesota, University of Nebraska, University of New Mexico, University of Texas Southwestern Medical Center, University of Washington, University of Wisconsin, University of Virginia, Vanderbilt University, and Washington University.

2016 Edelstone-Bendix Residents’ Research Day

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

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

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

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

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

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

**Resident Clinical Research Competition:** Christina Minami, MD (General Surgery)**
**Education: Updates and Highlights**

**2016 Edelstone-Bendix Residents’ Research Day continued...**

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

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

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<thead>
<tr>
<th>Name</th>
<th>PGY</th>
<th>Department</th>
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<tbody>
<tr>
<td>Tarik Yuce, MD</td>
<td>PGY-1</td>
<td>General Surgery</td>
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<tr>
<td>Ryan Ellis, MD</td>
<td>PGY-2</td>
<td>General Surgery</td>
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<tr>
<td>Christopher Mehta, MD</td>
<td>PGY-3</td>
<td>Thoracic Surgery</td>
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<tr>
<td>Brett Duncan, MD</td>
<td>PGY-4</td>
<td>General Surgery</td>
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<tr>
<td>Ravi Rajaram, MD</td>
<td>PGY-4</td>
<td>General Surgery</td>
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<tr>
<td>Christopher Davis, MD</td>
<td>PGY-5</td>
<td>General Surgery</td>
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<tr>
<td>Mark Knab, MD</td>
<td>PGY-5</td>
<td>General Surgery</td>
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<tr>
<td>Jill Streams, MD</td>
<td>PGY-5</td>
<td>General Surgery</td>
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<tr>
<td>Ezra Teitelbaum, MD</td>
<td>PGY-5</td>
<td>General Surgery</td>
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</tbody>
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The following individuals were recipients of the **2016 Fellow as Teacher Award:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Department</th>
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<tr>
<td>Dustin Yoon, MD</td>
<td>Vascular Surgery</td>
</tr>
<tr>
<td>Mila Ju, MD</td>
<td>Vascular Surgery</td>
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<tr>
<td>Courtney Morgan, MD</td>
<td>Vascular Surgery</td>
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<tr>
<td>Micah Girotti, MD</td>
<td>Vascular Surgery</td>
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<tr>
<td>Leah Tatebe, MD</td>
<td>Surgical Critical Care</td>
</tr>
<tr>
<td>Sifrance Tran, MD</td>
<td>Pediatric Surgery</td>
</tr>
</tbody>
</table>

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

**Breast Surgery**
- Julie Dunderdale, MD; Patience Odele, MD

**Pediatric Surgery**
- Sifrance Tran, MD

**Transplant Surgery**
- Cesar Escareno, MD; Thomas Gallagher, MCh, FRCSI

**Trauma/Critical Care Surgery**
- Ragavan Narayanan, MD; Leah Tatebe, MD

**Vascular Surgery**
- Mila Ju, MD; Dustin Yoon, MD

**General Surgery** (pictured right)
- Mark Knab, MD; Jill Streams, MD; Christopher Davis, MD; Ezra Teitelbaum, MD; Swami Gnanashanmugam, MD

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

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

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

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

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

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

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

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

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

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

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

**Research/Education**

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

- Michael McGee, MD, led efforts to research, develop, and pilot an Enhanced Recovery After Surgery (ERAS) program at Northwestern Medicine. As part of Dr. McGee’s research, he identified a group of key stakeholders who conducted site visits to the Mayo Clinic and Cleveland Clinic. This initiative will be piloted in the DHC with colon and rectal surgery patients who will receive communications based upon a drafted clinical care pathway. As a result, the clinical team will be able to assess the patient’s preparedness for surgery and postsurgical experience with the goal of accelerating the recovery process and reducing inpatient readmissions. In preparation for the pilot, Dr. McGee also partnered with the Northwestern Medicine IT team to develop a mechanism in which patients would be scheduled for telephone nurse appointments at key points in the patients’ surgical care.

- Eric Hungness, MD, and Nathaniel Soper, MD, authored 17 peer reviewed publications and 6 book chapters about PerOral Esophageal Myotomy (POEM). They also presented findings at the 2016 American Surgical Association meeting demonstrating a 92% long-term success rate for POEM procedures.
Division Updates: Cardiac and Thoracic Surgery

Cardiac Surgery

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

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

Select ongoing research efforts by our faculty include:

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

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

Thoracic Surgery

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

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

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

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

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

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

Dr. Shari Meyerson was elected to membership in the American Association for Thoracic Surgery (AATS) during May of 2016. She also had the honor of being the recipient of the Department’s “Excellence in Teaching Award.” Dr. Bharat was elected as a member to the Program Committees of both the Association for Academic Surgery (AAS) and the American Thoracic Society (ATS). Dr. David Odell assumed the role of Associate Director for our School of Medicine 3rd year Surgery Clerkship.
Clinical
The 40th annual Northwestern Vascular Symposium was held in Chicago, IL, December 10-12, 2015. The symposium provided a comprehensive analysis of the current management of vascular disease as it relates to treatment of extracranial cerebrovascular and supra-aortic trunk disease, new approaches to lower extremity arterial and venous problems, recent cutting-edge developments in open and endovascular approaches to treat aortic and visceral arterial disease, novel techniques for hemodialysis access, complex venous problems, and upper extremity disorders. Fifty-two world-renowned physicians presented on their areas of expertise. One-hundred-seventy-five registered attendees represented the United States and several other countries.

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

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

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

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

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

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

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

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

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

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

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

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

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

**Faculty News**
Dr. Jason Ko joined the Division of Plastic Surgery in April 2016. Jason received his MD from the Duke University School of Medicine, completed an integrated Plastic Surgery residency through the McGaw Medical Center at Northwestern University’s Feinberg School of Medicine and a Hand and Microvascular Surgery fellowship at the University of Washington Medical Center in Seattle.
Clinical
The Division of Organ Transplantation remains the Chicago market leader in abdominal organ transplantation and is among the nation’s leading transplant programs. Over 35% of adult abdominal transplants in the Chicago metro area were performed at Northwestern last year, and our program is larger than the next two centers combined. Changes in national organ allocation policy have dramatically impacted deceased donor transplants for transplant programs across the country and Northwestern is no exception. We have experienced a decline in cadaveric liver transplants as livers are sent to patients with higher MELD scores outside of our local service area while we are seeing a marked increase (more than 30% above budget) in deceased donor kidney volumes. The long-term implications of this new allocation policy have yet to be seen and Northwestern faculty are actively involved in these discussions at a national level. This includes a collaboration between The Northwestern University Transplant Outcomes Research Collaborative (NUTORC) led by Dr. Daniela Ladner and Dr. Sanjay Mehrotra, an NU Professor at the McCormick School of Engineering, which is informing policy discussions.

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

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

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

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

In July, Dr. Michael Abecassis hosted a colloquium highlighting the work from the first year of the Program.
Project Grant. The half-day session, CMV P01 Symposium: Epigenetics of Cytomegalovirus Latency and Reactivation, featured expert speakers from around the country. The following day the annual joint meeting of the Internal and External Advisory Boards was held. During this meeting all three projects and the three cores presented progress and next steps and gained valuable feedback from the Advisory Board members.

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

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

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

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

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

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

Faculty News
Dr. Nitin Kataryia, MD joined the Transplant Surgery faculty in August from the Mayo Clinic in Arizona. He received his medical degree from the Honors Program in Medical Education (HPME) Northwestern University, completed a surgical residency at Wilford Hall Medical Center, University of Texas Health Science Center at San Antonio and his transplant surgery fellowship at Northwestern.
Clinical
The Trauma/Emergency Surgery service has seen noteworthy clinical growth over the last year, while performance measures reflect high-quality care with excellent outcomes. Trauma-related activity has continued to climb, most notably in the summer and fall months, a trend that has continued over the past couple of years. Division faculty continue to be active in community and state policy initiatives to decrease violent crime in the Chicago area. Violence and injury in Chicago continues to increase at record pace and the focus on these initiatives remains vital. The Trauma program at Northwestern Medicine continues to participate robustly as a Level 1 Trauma Center. Additionally, the diversity and scope of the General Surgery practice is extensive, and the service has continued to foster superb multi-disciplinary collaboration across the system. The Surgical Critical Care service continues to be a valued local and tertiary referral source providing intensive care for most surgical patients. This service has functioned with a special focus and great success in the reduction of infectious complications related to medical devices.

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

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

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

Staff News
Christine Schilling, Nurse Clinician for the division, received Northwestern’s highly regarded Patients First award in August 2016. This award is presented to employees who demonstrate an exceptional commitment to our Patients First mission and Christine is a role model in this regard. Christine is dedicated to our patients and partners exceptionally well with her colleagues to ensure our patients receive the best possible care. She clearly exemplifies our Patients First mission and we are lucky to have her on our team!
The past year has been eventful for the Department of Surgery at Northwestern Medicine Lake Forest Hospital (NMLFH). We recruited new surgeons, implemented and participated in system-wide and statewide quality programs, expanded the use of new technology in the operating room, participated in resident education and physician assistant education, and watched continued progress on the construction of the new hospital.

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

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

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

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

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

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

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

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

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

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

Many surgeons and members of the community have toured the new facility. Philanthropic efforts brought both physicians and potential donors together for a night. This allowed physicians to highlight the strengths of the new hospital and how it will positively affect their practice and the care of their patients.
At Jesse Brown VA Medical Center (JBVAMC), our mission is “putting Veterans first”. The VA remains the largest single employer of physicians and nurses in the United States as well as the largest educator of health care professionals in the U.S. JBVAMC is the only VA healthcare facility in the city of Chicago. The 170-bed inpatient facility accommodates more than 8,000 inpatient admissions annually. The Surgical Service encompasses nine sections (General Surgery, Orthopedics, Optometry, Ophthalmology, Otolaryngology, Plastics, Podiatry, Urology, and Vascular) and performs over 3,000 operations annually.

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

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

**Education**
The VA rotations continue to be a valuable asset in the residency curriculum. The general surgery resident rotation continues to get high marks from finishing chief residents. The VA commitment to surgical education has not wavered for the last fifty years.
Affiliate Updates: Ann & Robert H. Lurie Children's Hospital

**Departmental News**

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

**Division Updates**

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

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

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

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

**New Faculty**

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

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

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

Carl L. Backer, MD
Elected Vice-President of the Mayo Alumni Association Board of Directors. Term: (2015-2017)
President-elect of the Congenital Heart Surgeons’ Society

David Bentrem, MD
Named to the Membership Committee of the Society for Clinical Surgery
Recipient of the Department of Surgery’s Excellence in Teaching Award

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

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

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

Malcolm M. DeCamp, Jr., MD
Recipient of the Champions of Breath Award from the American Lung Association
Recipient of the Solovy Award for Advancement in COPD, Respiratory Health Association

Mark Eskandari, MD
Named “Top Doctor” in Castle Connolly’s listing
Recipient of the Department of Surgery’s Excellence in Teaching Award

Jonathan Fryer, MD, M.Sc., M.H.P.E., FACS, FRCSC
Named Richard H. Young Professor of Surgery, 2015
Elected Co-Chair, ASTS Fellowship Training Committee
Recipient of the Department of Surgery’s Excellence in Teaching Award

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

Nora M. Hansen, MD
Named on Castle Connolly listing of Best Doctors in America

Karen Ho, MD
Recipient of the Northwestern Alumnae Grant Award
Recipient of the Department of Surgery’s Excellence in Teaching Award

Felicitas Koller, MD
Recipient of the Department of Surgery’s Excellence in Teaching Award

Joseph Leventhal, MD, PhD
Named Fowler McCormick Professor of Surgery, 2015

S. Chris Malaisrie, MD
Inducted into the 21st Century Cardiothoracic Surgical Society, 2016

James M. Mathew, PhD
Elected Academic Editor, Medicine

Michael McGee, MD
Recipient of the “6th Man Award” for resident dedication, Northwestern University Department of Surgery
Recipient of the All Star Award from the Academy for Quality and Safety Improvement (AQSI)
Recipient of the Department of Surgery’s Excellence in Teaching Award

Shari Meyerson, MD
Recipient of the Department of Surgery’s Excellence in Teaching Award
Elected to membership in American Association for Thoracic Surgery

Michael C. Mongé, MD
Awarded Best Scientific Poster in the Congenital Category at the 52nd Annual Meeting of the Society of Thoracic Surgeons

Ramille Shah, PhD
Recipient of the Clarence Ver Steeg Graduate Faculty Award

Margo Shoup, MD, FACS
Named President-Elect of the Midwest Surgical Association
Elected Panel member for ABS MOC at the American College of Surgeons Clinical Congress
Elected Moderator of the Scientific Session at the Central Surgical Association annual meeting

Nathaniel J. Soper, MD
Named President, 2016-2017 of Society for Surgery of the Alimentary Tract

Mamta Swaroop, MD
Elected to the Advisory Council for the 11th Annual International INDU-EM Summit
Elected to the Organizing Committee for the 3rd annual Congress for the World Coalition for Trauma Care and 8th annual Congress of the Indian Society of Trauma and Acute Care
Elected to the Membership Committee of the International Surgical Society, 2015
Elected to the International Relations Committee of the American Association for the Surgery of Trauma (AAST)
Founding Member of the Board of Directors, American College of Academic International Medicine
Elected Chair Board of Directors of the OPUS 12 Foundations
Elected to the Planning Committee of the Academic International Medicine

Anat R. Tambur, MD
Named President of the American Society for Histocompatibility and Immunogenetics
Elected Executive Board Member of UNOS

Jeffrey Wayne, MD
Elected to AOA
Named "Top Doctor" in Castle Connolly’s listing
Elected President-Elect of the Chicago Surgical Society
Elected Chief of Staff Northwestern Memorial Hospital

Jason Wertheim, MD, PhD
Recipient of the Vanguard Prize from the American Society of Transplant Surgeons
Faculty Development Grant recipient, American Society for Transplantation

Anthony D. Yang, MD
Recipient of the Thomas R. Russell, MD, FACS Faculty Research Fellowship Award from the American College of Surgeons
Named Cancer Liaison to the Commission on Cancer by the Robert H. Lurie Comprehensive Cancer Center
Faculty Presentations & Publications

Michael Abecassis, MD, MBA

Presentations
Panel Member, National Payment Reform Summit, Washington DC. June 17, 2016.

Publications


Carl L. Backer, MD

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

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


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

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


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

Publications


Faculty Presentations & Publications


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


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


David Bentrem, MD

Presentations


Zureikat AH, Bentrem DJ, Pawlik T, Pitt H. The robotic approach is associated with fewer incompelations compared to laparoscopy: an ACS NSQIP assessment of minily invasive approaches to pancreatectomy. 2016 ACS NSQIP Annual Conference.


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

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


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


Ankit Bharat, MD

Presentations


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


Publications


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


Kari Bilimoria, MD

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


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


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

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


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


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

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

Publications


Mohanty S, Rajaram R, Bilimoria KY, Pawlik TM, Bentrem D. Changing Treatment Patterns...
Faculty Presentations & Publications


Juan Carlos Caicedo, MD, FACS
Facuity Presentations & Publications

Presentations

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


Invited Speaker, 2015 STALYC (Latin American and Caribbean Transplant Society), Cancun, Mexico. The state of the art, October 2015.


Andrei Churyla, MD

Presentations

Publications

Anne Marie Boller, MD

Publications


Mark Cohen, MD

Publications


Malcolm M. DeCamp, Jr., MD

Presentations

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

2016 Mar; pii: 21501351156118871. [Epub ahead of print]

**Mark Eskandari, MD**

**Presentations**

- Lecturer, “Carotid Review of CREST Data and CREST II Trial”. ACS Clinical Congress, Chicago, IL, October 3-8, 2015.
- Lecturer, “LSCA Bypass vs. Transposition”. The Houston Aortic Symposium: Frontiers in Cardiovascular Diseases, Houston, TX, March 3-5, 2016.

**Publications**

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

**Donald Fry, MD**

**Publications**

Faculty Presentations & Publications


Jonathan Fryer, MD

Presentations


Publications


Elisa Gordon, PhD

Presentations

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


Ethical Considerations Regarding Incentives for Kidney Donors. American Society of Nephrology, San Diego, CA.

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

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

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

Innovative Approaches for Improving Informed Consent for Living Donation. Paper included as part of the session entitled, Informed Deci- sion Making in Living Organ Donation. Ameri- can Transplant Congress, Boston, MA.

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

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

Publications


Lederer S, Fischer MJ, Gordon HS, Wadhwa
Faculty Presentations & Publications


Kathleen Grady, PhD

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


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

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

Invited speaker: Barriers to Behavior change in Heart Failure. American Heart Association, Scientific Sessions, Orlando, FL.

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

Invited speaker: Informed Consent: More than just a Piece of Paper. Third Annual Dimensions in Heart and Vascular Care, Penn State Hershey, Hershey, PA.

Invited speaker: Quality of Life ….. More than Just Survival. INTERMACS 10th Annual Meeting, Atlanta, GA.

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

Publications


Nora M. Hansen, MD

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

Mary Hummel, PhD

Publications
Faculty Presentations & Publications

Karen Ho, MD

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

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

Publications


Andrrew Hoel

Presentations


Publications


Seok Jong Hong, PhD

Publications


Seema Khan, MD

Presentations


**Publications**


**Felicitas Koller, MD**

**Publications**


**Swati Kulkarni, MD**

**Presentations**


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

Daniela Ladner, MD

**Publications**


Daniela Ladner

**Presentations**


Trans-disciplinary Transplant Outcomes Research Across Northwestern and Beyond – NUTORC
Faculty Presentations & Publications

IPHAM Seminar Series, Northwestern University, September 2015

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

ASTS Winter Symposium, Miami, Florida.

American Transplant Congress, Boston, Massachusetts.

Publications


Joseph Leventhal, MD, PhD

Presentations

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

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


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


Publications


Faculty Presentations & Publications

Med PMID: 27275747; PubMed Central PMCID: PMC4898829.


S. Chris Malaisrie, MD

Presentations


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


Publications


Faculty Presentations & Publications

James M. Mathew, PhD.

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


Patrick McCarthy, MD

Presentations

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

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

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

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


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


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


Mitrail Valve Repair - Varied Approaches, Annuloplasty Devices, and Techniques, but My Way Is Best. Session #707: Valvular Heart
Faculty Presentations & Publications


Publications


Michael McGee, MD
Presentations

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


Shari Meyerson, MD
Presentations


Meyerson SL. Dr. Seuss guide to happiness in...


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


**Publications**


**Michael C. Mongé, MD**

**Presentations**


**Publications**


**David D. Odell, MD**

**Presentations**

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


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

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


PMID:27085196.


William Pearce, MD

Presentations


Faculty Presentations & Publications


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


Heron Rodriguez, MD

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


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

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

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

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

Lecturer. Complication in arterial access. Interactive Course of Vascular Diseases, Mexico City, Mexico, June 9-11th, 2016.

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


Ramille Shah, PhD

Presentations


Shah, R.N., “3D Printing Functional Biomateri-
**Faculty Presentations & Publications**

**Presentations**


Wandling MW, Nathens AB, Shapiro MB, Haut ER. The Association Between Pre-Hospital Mode of Transport and Mortality Following Penetrating Injuries in Urban Trauma Systems. Chicago Committee on Trauma Resident Paper Competition. Chicago, IL, October 2, 2015.


**Publications**


**Invited Speaker**

**Keynote Lecture:** "Engendering operative autonomy in surgical trainees", Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 3, 2016

**Invited Educator:** Master Class (MC24): "Techniques and Results of the POEM Procedure" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

**Invited Speaker:** "New procedures and techniques for the treatment of GERD" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

**Invited Speaker:** "Management Of Achalasia 2016" Royal Australasian College of Surgeons (RACS) Annual Scientific Meeting, May 5, 2016

**Publications**

**Presentations**


Invited Educator: Writers Workshop, World Congress of Surgery, Bangkok, Thailand, August 24, 25 and 26, 2015

Invited Lecturer: ISS/SIC Main Session: "The Difficult Laparoscopic Cholecystectomy" World Congress of Surgery, Bangkok, Thailand, August 27, 2015

Invited Lecturer: ISDS Main Session: "Current Status of NOTES Cholecystectomy: Is NOTES Nuts?", World Congress of Surgery, Bangkok, Thailand, August 27, 2015

Invited Lecturer: ISDS Main Session "POEM: the Real Deal or Delaying Surgery?", World Congress of Surgery, Bangkok, Thailand, August 27, 2015


Invited Speaker: SAGES University Masters Series: Foregut Disease “Reflux with esophageal Dysmotility” SAGES Meeting, Boston, MA March 17, 2016


**Publications**


Nathaniel J. Soper, MD

**Presentations**

Faculty Presentations & Publications

Invited Lecturer: Surgeons as Leaders Course, American College of Surgeons, Durham, NC, June 5-8, 2016


Publications


Mamtta Swaroop, MD

Presentations

Boeck MA, South SD, Schuetz S, Miller C, Helenowski IB, Simons González JR, Cabrera Vargas M, Ruderman L, Gallardo JL, Saa-vedra Laguna JMP, Issa NM, Shapiro MB, Swaroop M. Emergence of Emergency of Trauma First Responder Course Participants in Potosi, Bolivia. Oral Presentation by SD South at the Chicago Committee on Trauma, Chicago, IL, October 2, 2015.


CME Invited Lecturer on Global Surgery, Northwestern University, April 2016

Discussant, Global Surgery Session American College of Surgeons, October 2015, Chicago, IL


MA Boeck, SJ Schuetz, CG Miller, IB Helenowski, JR Simons Gonzáles, MC Vargas, LW Ruderman, JL Gallardo, JMP Laguna Saavedra, NM Issa, MB Shapiro, M Swaroop. Emergency Experiences of Trauma First Responder Course Participants in Potosí, Bolivia. ORAL PRESENTATION by MA Boeck. 19th World Congress on Disaster & Emergency Medicine, April 21-24, 2015, Cape Town, South Africa.


MA Boeck, SJ Schuetz, CG Miller, IB Helenowski, JR Simons Gonzáles, MC Vargas, LW Ruderman, JL Gallardo, JMP Laguna Saavedra, NM Issa, MB Shapiro, M Swaroop. Evaluation of the Northwestern Trauma and Surgical Initiative’s Trauma First Responder Course Participants in Potosí, Bolivia. ORAL PRESENTATION by MA Boeck. Academic Global Surgery, Career Development Course Lecturer with AAS, International Surgical Society,August 2015, Bangkok, Thailand.

INDUS-EM Course Director, Fundamental of Trauma Resuscitation and Trauma Critical Course, October 2015, New Delhi, India

INDUS-EM Co-Course Director, Trauma Critical Course, October 2015, New Delhi, India

Boeck MA, Foiaini E, Perry H, Mata L, Jayarman S, Aboutanos M, Swaroop M. The Implementation of a Hospital-Based Trauma
Faculty Presentations & Publications

Registry in Santa Cruz de la Sierra, Bolivia: A Pilot Study. PanAmTrauma Society Meeting SantaCruz, Bolivia, November 2015.


Publications


Contributing Author, GBD Collaborators, Global, regional, and national incidence, prevalence, and YLDs for 301 acute and chronic diseases and injuries for 188 countries, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. Lancet. 2015 Aug 22;386(9995):743-800. PMID: 26364544


Swaroop M, deVries C. Are we there yet? The Conundrum of Training in Global Surgery... JAMA Surg. 2015 Nov 1;150(11):1079. PMID: 26266825


Contributing Author, GBD Collaborators, Global, regional, and national disability-adjusted life years (DALYs) for 369 diseases and injuries and healthy life expectancy (HALE) for 188 countries, 1990-2013: quantifying the epidemiological transition. Lancet. 2015 Nov 28;386(10009):2145-91. PMID: 26321261


Invited Speaker, Donor Specific HLA Antibodies and the Highly Sensitized Patients: Various Aspects / Different Perspectives. FDA workshop on Surrogate Endpoint and Clinical Trial Design. September 28, 2015

Invited Speaker, Anti-Graft Antibodies in Transplantation – What’s Hot – What’s New. BANFF. Vancouver October 2015

Invited Speaker, Making the most of antibody testing – Israeli Transplant Society – Israel – October 2015

Invited Speaker, Virtual Crossmatching – Israeli Transplant Society – Israel – October 2015

Invited Speaker, Assessing HLA antibody strength and more – Leiden – Guest lecture – November 2016

Invited Speaker, Hiding in Pain Sight – Epitope meeting – Leiden November 2016

Invited Speaker, Making the most of single antigen antibody testing - Edmonton grand rounds January 2016

Invited Speaker, How are we measuring Sensitization? CEOT Phoenix AZ February 2016

Invited Speaker, Merits of the assays – CTOT NIH, Bethesda, April 2016

Invited Speaker, Discovering new antibodies. Antibody Mediated Rejection in Liver Transplantation meeting, Baylor, April 2016

Publications


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Anat R. Tambur, MD

Presentations

Invited Speaker, Making the most of single antigen antibody testing - Edmonton grand rounds January 2016
Faculty Presentations & Publications


Tomita TM. PERIPHERAL VASCULAR DISEASE: MANAGING TRAFFIC ON THE ARTERIAL HIGHWAY. Lake Forest Hospital Grand Rounds. February 2016. Lake Forest, IL

Tomita TM. CAROTID ULTRASOUND. Northwestern Memorial Hospital Ultrasound Conference. April 2016. Winfield, IL

Publications


Jason Wertheim, MD, PhD

Presentations

Wertheim, J.A. “A multidimensional approach to develop bioartificial tissues in vitro.” Brigham and Women’s Hospital/ Massachusetts General Hospital Renal Grand Rounds (September 2015).

Wertheim, J.A. “Integrating Tissue Engineering and Surgical Innovation.” American College of Surgeons Clinical Congress, Chicago, IL (October 2015).


Wertheim, J.A. “Innovation Showcase - Tissue to Organs 2” Speaker and Moderator, World Stem Cell Summit, Atlanta GA (December 2015).


Publications


Anthony D. Yang, MD

Publications


Upcoming Events

Surgical Grand Rounds 2016—2017
Thursdays 7:00AM—8:00AM

09/15/2016
Mesh suture for high-tension internal closures
Gregory Dumanian, MD
6th floor, VC Room—Arkes Building

09/22/2016
Faculty Meeting
Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

09/29/2016
Harold Method Professorship
Mary Hawn, MD
6th floor, VC Room—Arkes Building

10/13/2016
Gerald Ujiki Education Grand Rounds & Teaching Awards
Glenn Regehr, MD
251 E. Huron 3rd floor—Pritzker Auditorium

10/27/2016
Quality Improvement Presentations
6th floor, VC Room—Arkes Building

11/10/2016
Hospital Outcomes in Surgical Care: A Risk-Adjusted Comparative Analysis
Donald Fry, MD
6th floor, VC Room—Arkes Building

11/17/2016
Surgical Outcomes and Quality Improvement Lectureship
Margaret (Gretchen) Schwarze, MD
6th floor, VC Room—Arkes Building

12/01/2016
DoS Research Presentations
TBD
6th floor, VC Room—Arkes Building

12/08/2016
Faculty Meeting
Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

01/12/2017
State of the Department
Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

02/16/2017
DoS Research Presentations
TBD
6th floor, VC Room—Arkes Building

03/02/2017
Bergan Lectureship
Lazar Greenfield, MD
251 E. Huron 3rd floor—Pritzker Auditorium

03/09/2017
Faculty Meeting
Nathaniel J. Soper, MD
6th floor, VC Room—Arkes Building

03/30/2017
Loyal Davis Lectureship
Taylor Riall, MD
6th floor, VC Room—Arkes Building

04/13/2017
TBD
Kyle Miller, MD
6th floor, VC Room—Arkes Building

04/27/2017
Skeptical Scalpel
Mayo Lectureship
6th floor, VC Room—Arkes Building

05/04/2017
Quality Improvement Presentations
6th floor, VC Room—Arkes Building

05/18/2017
Shields Lectureship
Frank Detterbeck, MD
6th floor, VC Room—Arkes Building

06/09/2017
Edelstone-Bendix Lectureship
Location TBD

SAVE THE DATE:

Department of Surgery Holiday Reception - December 9, 2016
Edelstone-Bendix Resident Research Day & Faculty Retreat - June 9, 2017