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Dear Colleagues and Friends,

It has been a year of tremendous transformation and innovation in the Department of Surgery at Northwestern Medicine. Our annual newsletter highlights many of these outstanding accomplishments. The faculty and staff continue to demonstrate an endless commitment towards providing exceptional patient care and advancing research in a world-class academic medical center.

For the eighth consecutive year, U.S. News & World Report recognized Northwestern Memorial Hospital among the country’s top hospitals, ranking the hospital No. 10 in the nation and No. 1 in Illinois. Additionally, Northwestern Memorial Hospital was ranked No. 7 for Cardiology & Heart Surgery.

On June 17, 2019 the Louis A. Simpson and Kimberly K. Querrey Biomedical Research Center officially opened, making it the largest research building in the United States. The research center has added over 625,000 square feet of research space to the Chicago campus and will enable Northwestern to increase its research funding by $150 million per year.

Within the department, our research enterprise has grown exponentially. Several faculty received significant federal awards from the National Institute of Health: Ankit Bharat, MBBS, received three R01s totaling $1.76M; Jason Wertheim, MD, PhD, received a R01 for $1.58M; and Mark Eskandari, MD, was re-awarded a T32 grant. The White House recognized Dr. Wertheim for his outstanding research endeavors and awarded him with the Presidential Early Career Award for Scientists and Engineers. On June 21, the department hosted its first annual resident research symposium in honor of William Pearce, Emeritus Professor of Vascular Surgery. The symposium consisted of an abstract competition and poster session for any research being done in the Department of Surgery in the current academic year. We look forward to continuing this tradition.

Physician leadership transitions over the past year include: Nathaniel Soper, MD, stepped down as department chair after 11 years of outstanding stewardship. During his time as chair the department experienced substantial clinical and research growth, elevating it to become one of the most respected academic surgical programs in the country. Ankit Bharat, MBBS, was appointed as Chief of Thoracic Surgery. Since joining Northwestern in 2013, Dr. Bharat has shepherded the lung transplant program and been awarded multiple R01 grants, establishing himself as one of the preeminent academic surgeons in the country. After nearly 27 years of service at Northwestern, Michael Abecassis, MD, MBA, recently announced he will be leaving Northwestern to assume the role of medical school dean at University of Arizona. Under Dr. Abecassis’ leadership, the Comprehensive Transplant Center has united leading transplant programs in multiple specialties and become one of the country’s top transplant academic training programs. Joseph Leventhal, MD, PhD, will take over as interim Chief of Transplant Surgery. Finally, Jonathan Fryer, MD, longstanding member of the department and leader in surgical education, retired and was appointed as Emeritus Professor. In honor of his impact in the field, the department established the Jonathan Fryer Award for Excellence in Resident and Fellow Education with Dr. Soper being the first recipient. Amy Halverson, MD, was recently appointed interim Vice Chair of Education.

It is a pleasure to see the Department of Surgery experience so much growth and success. I hope you enjoy reading our annual newsletter.

Sincerely,

Howard B. Chrisman, MD, MBA, FSIR
Interim Chair, Department of Surgery
President, Northwestern Medical Group
Department Leadership

Howard Chrisman, MD, MBA  
Interim Chair, Surgery

Scott Strong, MD  
Vice Chair, Clinical Affairs

Jason Wertheim, MD, PhD  
Vice Chair, Research

Amy Halverson, MD  
Vice Chair, Surgical Education  
Surgery Clerkship Director

Karl Bilimoria, MD, MS  
Vice Chair, Quality

David Odell, MD, MMSc  
Associate Clerkship Director

Nathaniel Soper, MD  
Program Director

Ezra Teitelbaum, MD, MEd  
Associate Program Director

Derrick Christopher, MD, MBA  
Associate Clerkship Director

Yue-Yung Hu, MD, MPH  
Associate Program
Division Leadership

Nora Hansen, MD
Chief, Breast Surgery

Patrick McCarthy, MD
Chief, Cardiac Surgery

Scott Strong, MD
Chief, Gastrointestinal Surgery

Michael Abecassis, MD, MBA
Chief, Organ Transplantation

Gregory Dumanian, MD
Chief, Plastic Surgery

Jeffrey Wayne, MD
Chief, Surgical Oncology

Ankit Bharat, MBBS
Chief, Thoracic Surgery

Michael Shapiro, MD
Chief, Trauma & Critical Care

Mark Eskandari, MD
Chief, Vascular Surgery

David Bentrem, MD
Chief, Surgery
Jess Brown VA Medical Center

Marleta Reynolds, MD
Chief, Pediatric Surgery

John Andrews, MD
Lake Forest Hospital
By the Numbers

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

Providing Excellent Clinical Care...

<table>
<thead>
<tr>
<th></th>
<th>Breast</th>
<th>Cardiac</th>
<th>Thoracic</th>
<th>GI</th>
<th>Transplant</th>
<th>Plastic</th>
<th>Trauma</th>
<th>Vascular</th>
<th>Surg Onc</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR Cases</td>
<td>1,258</td>
<td>1,402</td>
<td>836</td>
<td>2,577</td>
<td>623</td>
<td>2,066</td>
<td>700</td>
<td>921</td>
<td>1,108</td>
</tr>
<tr>
<td>Clinic Visits</td>
<td>8,552</td>
<td>1,531</td>
<td>3,374</td>
<td>13,291</td>
<td>1,672</td>
<td>18,945</td>
<td>692</td>
<td>2,996</td>
<td>5,475</td>
</tr>
<tr>
<td>wRVUs</td>
<td>31,508</td>
<td>73,781</td>
<td>21,966</td>
<td>61,640</td>
<td>51,707</td>
<td>74,614</td>
<td>45,778</td>
<td>38,449</td>
<td>32,893</td>
</tr>
</tbody>
</table>

Advancing Research & Innovation...

- **$20.6M** Total Grant Funding
- **$9.9M** NIH Funding
- **180** Active Grants
- **163** Active Clinical Trials
- **22** Unique Patents Filed
- **19,652 SF** Research Space

Teaching the Surgeons of Tomorrow...

<table>
<thead>
<tr>
<th></th>
<th>72 Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>28 General (Categorical)</td>
</tr>
<tr>
<td></td>
<td>8 General (Research)</td>
</tr>
<tr>
<td></td>
<td>7 Cardiothoracic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>21 Fellows</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 Breast</td>
</tr>
<tr>
<td></td>
<td>4 Transplant</td>
</tr>
<tr>
<td></td>
<td>6 Cardiac/Cardiothoracic</td>
</tr>
</tbody>
</table>
Faculty Promotions

Andrew Hoel, MD, Division of Vascular Surgery, promoted to Associate Professor of Surgery.

Swati Kulkarni, MD, Division of Breast Surgery, promoted to Professor of Surgery.

S. Chris Malaisrie, MD, Division of Cardiac Surgery, promoted to Professor of Surgery.

Michael McGee, MD, Division of GI Surgery, promoted to Associate Professor of Surgery.

David Odell, MD, MMSc, Division of Thoracic Surgery, promoted to Associate Professor of Surgery.

Jason Wertheim, MD, PhD, Division of Transplant Surgery, awarded tenure as Associate Professor of Surgery.
Amir Alhajjat, MD, was appointed as Assistant Professor in the Division of Pediatric Surgery on the Clinician-Educator career track. He is a pediatric surgeon and specialist in the area of surgical fetal intervention. He completed a two-year pediatric surgery fellowship at Phoenix Children's Hospital/Mayo Clinic Arizona, as well as a one-year fetal surgery fellowship at Cincinnati Children's Hospital. He completed his general surgery residency at the University of Iowa. Dr. Alhajjat practices pediatric general and thoracic surgery with a range of conditions spanning newborns through young adults. He has a strong interest in laparoscopic and thoracoscopic newborn surgery.

Amna Daud, MBBS, MPH, was appointed as Research Assistant Professor in the Division of Transplant Surgery on the Research career track. Dr. Daud received her medical degree from Punjab University in Lahore, Pakistan. She went on to receive a Master’s Degree in Public Health from Columbia University in 2010, where she continued as both a research assistant at the Center for Infectious Diseases and a clinical research coordinator for the Center of Obesity. Since then, she has been working in the Comprehensive Transplant Center at Northwestern University as a clinical research associate.

Caryn Etkin, PhD, MPH, was appointed as Research Associate Professor in the Division of Surgical Oncology on the Research career track. She graduated from Emory University in 1994 and received her Master’s in Public Health from University of Michigan in 1997. In 2006, she earned her PhD from the University of Illinois at Chicago. Dr. Etkin’s extensive research focuses on using evidence-based programs to better the care and quality of life of senior citizens. Her previous professional activities include serving as Chair of the American Public Health Association and Professional Advisor at DePaul University.

Samuel Kim, MD, was appointed as Associate Professor in the Division of Thoracic Surgery on the Clinician-Educator career track. Dr. Kim received his MD from Tufts University School of Medicine in 2002. He completed his general surgery residency at the University of Pennsylvania Hospital and cardiothoracic surgery residency at Massachusetts General Hospital. Additionally, Dr. Kim completed a fellowship in minimally invasive esophageal surgery at the University of Pittsburg Medical Center and a cardiothoracic fellowship at Mayo Clinic. Since 2011, Dr. Kim has been at University of Arizona where he served as the Section Chief of Thoracic Surgery. He was recruited to Northwestern in 2019 as the Director of Robotic Thoracic Surgery.
Chitaru Kurihara, MD, was appointed as Instructor in the Division of Thoracic Surgery on the Clinician-Educator career track. Dr. Kurihara received his MD from the University of Gunma in 2009. He subsequently completed his residency at Tokyo Metropolitan Geriatric Hospital. From 2014 to 2017, Dr. Kurihara worked as an assistant scientist at University of Wisconsin and research associate at Baylor College of Medicine. He then completed his fellowship in advanced thoracic surgery at Northwestern University.

Joanna Ledwon, PhD, was appointed as Research Assistant Professor in the Division of Pediatric Surgery on the Research career track. Dr. Ledwon received her PhD in Medical Biology in 2015 and worked as a research assistant in the Department of Biochemistry and Molecular Biology at the Center of Postgraduate Medical Education in Warsaw, Poland. Since then, she has been a postdoctoral fellow in the Division of Plastic Surgery at Lurie Children’s hospital.

Xianpeng Liu, PhD, was appointed as Research Assistant Professor in the Division of Thoracic Surgery on the Research career track. He received his PhD from the Chinese Academy of Sciences in Beijing, China. Dr. Liu’s extensive research has helped identify unique enzyme targets in his attempts to develop new cancer therapies. He has over 15 peer-reviewed publications thus far.

Mary Maish, MD, MPH, was appointed as Health System Clinician in the Division of Thoracic Surgery. She previously practiced at the University of California Los Angeles, where she served as Director at the Center for Esophageal Disorders, as well as John Muir Health Medical Center and Stanford University. Her interests include the treatment of esophageal disorders. One of her newest treatment options, the LINX bracelet, assists in hernia repair and treatment of gastroesophageal disease.
Amit Pawale, MD, was appointed as Associate Professor in the Division of Cardiac Surgery on the Clinician-Educator career track. Dr. Pawale graduated from Krishna Institute of Medical Sciences in 2000. He completed his residency at the Royal College of Surgeons, his fellowship at the Royal College of Surgeons, and his thoracic surgery residency at Mount Sinai. In 2015, he was appointed Assistant Professor of Cardiovascular Surgery at Mount Sinai, where he also served as Vice Surgical Director of Heart Transplantation and Mechanical Circulatory Support. He was later appointed Surgical Director of the ECMO Program and Associate Director of Mitral Valve Reference Center.

Lorenzo Pesce, PhD, was appointed as Research Assistant Professor in the Division of Thoracic Surgery on the Research career track. Dr. Pesce received his PhD in Physical Chemistry from the Freie University of Berlin. Since 2010, he has worked for the University of Chicago in various positions, such as Senior Analyst and Research Professional, developing theories, coding and testing models, and helping others do the same in their research. He has over 50 peer-reviewed publications and is highly skilled in trial design, algorithmic implementation and analysis, and large scale project management.

Vitaliy Poylin, MD, was appointed as Assistant Professor in the Division of GI Surgery on the Clinician-Educator career track. Dr. Poylin received his MD from the University of Wisconsin Medical School. He completed his surgery research fellowship in 2007 and general surgery residency at Beth Israel Deaconess Medical Center in 2009. Dr. Poylin completed a colorectal surgery fellowship at the University of Minnesota in 2010. His research aims to improve the care of patients with inflammatory bowel disease by evaluating the outcomes of minimally invasive colorectal surgery. He has received numerous honors and awards.

Yubaraj Sambandam, PhD, was appointed as Research Assistant Professor in the Division of Transplant Surgery on the Research career track. Dr. Sambandam received his PhD in the Department of Endocrinology from the University of Madras in Chennai, India. He completed his post-doctorate degree and worked as a staff scientist at the University of South Carolina. He later worked as a scientist in the Department of Endocrinology at the University of Madras. His research includes investigation of tumor progression and bone disease. He is skilled in molecular biology techniques, tissue culture techniques, biochemical techniques, and animal handling.
Christine Stake, DHA, was appointed as Research Assistant Professor in the Division of Pediatric Surgery on the Research career track. She has previously worked for Loyola University as a research program coordinator and the American Hip Institute and Hinsdale Orthopaedics as an administrator and research coordinator. Since 2015, she has worked for Lurie’s Children’s Hospital as a research operations manager for highly complex research studies where she is active in numerous committees. She has authored over 50 peer-reviewed manuscripts.

Anne Stey, MD, was appointed as Assistant Professor in the Division of Trauma and Critical Care on the Clinician-Educator career track. She received her MD from Mount Sinai School of Medicine where she later completed her general surgery residency. She then went on to complete her fellowships in Clinical Research and Trauma and Surgical Critical Care at the University of California and a Surgical Oncology Fellowship at Memorial Sloan Kettering Cancer Center in 2019. She is interested in identifying the relationship between the cost and quality of care by identifying sources of variation in cost. She has authored over 25 publications.
IN NOVEMBER 2019, Michael Abecassis, MD, MBA, will become the ninth dean of the University of Arizona College of Medicine-Tucson. Dr. Abecassis, a nationally-recognized leader of medicine, has been with Northwestern for 27 years.

“Leaving Northwestern Medicine was a very difficult professional and personal decision, but I am comforted by the fact that the Northwestern Medicine transplant program is extremely well positioned to continue providing patients with world-class clinical care, as well as advancing the science of transplantation for years to come,” said Dr. Abecassis.

Dr. Abecassis joined Northwestern University Feinberg School of Medicine in 1992. Just a year after he joined, he performed Northwestern’s first successful liver transplant. Initially recruited to serve as Director of Liver Transplantation, he was named founding director of the Comprehensive Transplant Center in 2009, uniting leading transplant programs in multiple specialties with basic, translational and clinical research and building top-tier academic training programs.

Among his many leadership roles within Northwestern Medicine, he served as Chief of the Division of Organ Transplantation in the Department of Surgery, where he helped pioneer several innovative surgical procedures and approaches to the care of transplant patients.
Abecassis Named Dean of University of Arizona College of Medicine

Dr. Abecassis also served as Feinberg’s Dean for Clinical Affairs from 2008 to 2011, and as medical director of the kidney and liver transplant programs at Northwestern Memorial Hospital. In 2018, Northwestern Medicine celebrated 5,000 kidney, 2,000 liver and 750 pancreas transplants performed under Abecassis’ leadership, as well as 3,000 live donor procedures for both kidney and liver transplants.

A prolific scientist, Dr. Abecassis has served as author or co-author on more than 300 peer-reviewed publications in scientific journals. He has received continuous funding from the National Institutes of Health (NIH) for the past 23 years, serving as principal investigator of research grants that span from studies of the molecular mechanisms of cytomegalovirus latency and reactivation, to translational and clinical studies in pursuit of a molecular biomarker strategy for both kidney and liver transplant recipients.

Source: FSM Office of Communications
ON JUNE 21, 2019, the Department of Surgery introduced the Jonathan Fryer Award for Excellence in Resident and Fellow Education in honor of Dr. Jonathan Fryer, a longstanding surgeon and leader at Northwestern. The award recognizes an attending physician who demonstrates dedication to trainee development extending beyond the operating room. Dr. Nathaniel Soper was the first recipient of the award.

Dr. Fryer has had a tremendous impact on the fields of Surgical Education and Transplant Surgery during his career. He has published over 120 original research articles and has given over 40 named/visiting professor lectures. He has been in the department since 1995 and held various leadership positions, most recently being Vice Chair of Education for the past five years. Some notable accomplishments include serving as an Examiner for the American Board of Surgery (ABS) Certifying exam; working with the American Society of Transplant Surgeons (ASTS) to develop an online curriculum and clinical milestones for transplant surgery fellowship training; and establishing national guidelines to enhance the educational experience for residents rotating on transplant surgery services. Dr. Fryer received multiple Excellence in Teaching Awards at Feinberg School of Medicine and received the Association of Surgical Education Excellence in Innovation Award for the development of the SIMPL (System for Improving and Measuring Procedural Learning) application.
“A teacher affects eternity; he can never tell where his influence stops.”
- Henry Adams

The Dr. Jonathan Fryer Award

For the attending physician with an unparalleled dedication to trainee development extending beyond the operating room, who also acts as a superior mentor in matters of surgery and life. The awardee fosters not only technical skills, but demonstrates the ability and willingness to guide trainees into their future careers. The recipient of the Jonathan Fryer Award is truly a role model in academic surgery.
Dr. Soper Receives Mecklenburg Physician Leadership Award

Dr. Nathaniel Soper received the Gary A. Mecklenburg Distinguished Physician Leadership Award, which honors a physician who embodies professionalism and humanity. Dr. Soper’s peers chose him to receive this award because he demonstrates a strong commitment to enriching the lives of others through research, teaching, patient care and community outreach.

Dr. Soper joined Northwestern in 2003 after practicing at Barnes-Jewish Hospital in St. Louis, Missouri. He served as Vice Chair for Clinical Affairs and Director of Minimally Invasive Surgery in the Department of Surgery before being named Chair in 2007. He led eight clinical divisions and elevated the department to become one of the most respected academic surgical programs in the country.

Among his many accomplishments, Dr. Soper was recently selected as a founding member of the American College of Surgeons Academy of Master Surgeon Educators. He is a fellow of the American College of Surgeons, a member of Alpha Omega Alpha, and the American Surgical Association and Society of University Surgeons. He has authored and edited more than 300 peer-reviewed articles, reviews, books and chapters.

Dr. Odell’s Initiative Creates App for Cancer Surveillance

Dr. David Odell and the Lung Cancer Program team won a $50,000 grant in the most recent Northwestern Medicine Innovation Challenge Grant. The Innovation Challenge is a systemwide initiative to support multidisciplinary teams in a collaborative approach to transforming patient care and accelerating the integration of best medical science into routine practice.

The Lung Cancer Program’s innovative initiative involves using NM MyChart and the mobile MyNM App to offer patients a remote option for surveillance after lung cancer surgery and to collect patient-reported outcomes (PROs). Following lung cancer surgery, patients are asked to return at six- or 12-month intervals for the next five years to obtain CT scans, so physicians can watch for new or recurrent cancers. Nationally, about one-third of patients drop out before long-term surveillance is complete. A major factor is inconvenience. With the new remote surveillance option, patients can obtain a CT scan at any Northwestern Medicine site and report symptoms by phone, or via NM MyChart messaging using the MyNM App or NM MyChart online. The Lung Cancer Program will use the Innovation Challenge Grant to fund development of a NM MyChart/My NMAp interface to display results of patients’ self-reported outcomes once they answer all of the questions. Source: NMI
Resident Spotlight: Steven Schuetz, MD

STEVEN SCHUETZ, MD, chief surgical resident, is the founder of PROMIS, Bolivia, a charitable foundation with the mission to “adapt, disseminate and implement state-of-the-art science and international healthcare interventions throughout Bolivia to maximize health outcomes of patients and families.” According to Dr. Schuetz, cancer care is essentially unavailable to the population of Bolivia, due to location and financial incapability. To address this issue, Northwestern oncology leaders attended NCCN’s Guidelines Panel for Breast Cancer to recommend cancer treatment guidelines for the Bolivian healthcare system. These guidelines will allow for every cancer patient to receive complete treatment and better outcomes.

“This collaboration is an important step forward for cancer care in Bolivia,” said Dr. Schuetz. “Cancer care in Bolivia remains geographically and financially inaccessible to a large proportion of the population, with high rates of medical impoverishment and early termination of treatment.” In 2013, Dr. Schuetz was part of the group in Bolivia that trained more than 230 first responders, physicians, nurses and medical students in basic trauma care and first response. He remained there to collect data and create a layout for a trauma system there.

Dr. Schuetz trusts that the NCCN’s guidelines outlined during the Panel will allow every cancer patient in Bolivia to receive evidence-based cancer care, regardless of socioeconomic status. This treatment ensures completion, minimizes impoverishment and betters outcomes for both the patients and their families.

Source: NM Newsroom
Medical Student Education

The Feinberg School of Medicine Class of 2019 included 10 students who matched into categorical general surgery residency programs and an additional 22 students who matched into surgical sub-specialty residency programs across the country. Medical student Jes Sanders received the 2019 Julius Conn Award, which recognizes the highest achieving surgery clerkship student based upon their academic performance and professionalism.

This year the department implemented new methods of assessing the third year medical students. Leadership piloted new Clinical Performance Assessments, which utilize the Association of American Colleges’ Entrustable Professional Activities (EPA) for Entering Residency framework.

Students were assessed on six EPA’s during their clerkship:

1. History taking and physical exam (EPA 1)
2. Clinical reasoning, differential diagnosis, application of fund of knowledge (EPA 2)
3. Written notes (EPA 5)
4. Oral presentation of patient (EPA 6)
5. Medical decision making and incorporation of the literature (EPA 7)
6. Contributes as a member of the team (EPA 9)

The pilot was successful and the Feinberg School of Medicine adopted it for clinical assessments for all third and fourth year medical students. It has also been incorporated into a mobile observation system. Students are required to obtain EPA Mobile Observations while on their 8-week clerkship to receive in-the-moment feedback on their skills on the various EPA’s.

Class of 2019 General Surgery Residency Matches

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clare Charbonnet</td>
<td>Case Western/Univ Hospitals</td>
</tr>
<tr>
<td>Mohamed Elsheikh</td>
<td>Oregon Health &amp; Science Univ.</td>
</tr>
<tr>
<td>Samuel Ho</td>
<td>UCF Com/GME Consortium</td>
</tr>
<tr>
<td>Joy Liang</td>
<td>Eisenhower Army Medical Center</td>
</tr>
<tr>
<td>Yujin Park</td>
<td>Indiana University SOM</td>
</tr>
<tr>
<td>Jordan Rook</td>
<td>UCLA Medical Center</td>
</tr>
<tr>
<td>Jes Sanders</td>
<td>Northwestern McGaw</td>
</tr>
<tr>
<td>Michael Shockley</td>
<td>UCF Com/GME Consortium</td>
</tr>
<tr>
<td>Noah Weingarten</td>
<td>Cleveland Clinic</td>
</tr>
<tr>
<td>Peter Zhan</td>
<td>Yale - New Haven Hospital</td>
</tr>
</tbody>
</table>
New Residents & Fellows

**PRELIMINARY SURGERY**
Matthew Antalek
Carla Berkowitz
Melanie Daulton
Matthew Genet
Stephen Hawn
Christian Hyacinthe
Maria Joh
Peter Young

**GENERAL SURGERY**
Kimberly Golisch
Lauren Kozlowski
Stephen Papastefan
Jes Sanders
Catherine Valukas
Samantha Warwar

**CARDIAC SURGERY**
Aaron Clark

**TRAUMA & CRITICAL CARE**
Courtney Devin
Giang Quach

**BREAST SURGERY**
Valentina Bonev
Carlos Vieira

**TRANSPLANT SURGERY**
Juan Ortiz Gil
Marcos Pozo Jatem

**VASCULAR SURGERY**
Calvin Cho

**PLASTIC SURGERY**
Brandon Jackson
Kareem Termanini

**PEDIATRIC SURGERY**
Jamie Harris
Megan Beck (research)
Martha Ingram (research)
The 2019 Edelstone-Bendix Residents’ Research Day was held on Friday, June 21. This annual event featured presentations by residents and fellows, showcasing their outstanding accomplishments in both clinical and basic science research. The visiting professor was Dr. Melina Kibbe, Professor and Chair of the Department of Surgery at the University of North Carolina. Dr. Kibbe met with several residents and faculty, served as a judge for the research presentations, and lectured on “The Role of Advocacy in Research: Impacting Change.” Edelstone-Bendix Day concluded with the graduation dinner and awards ceremony at The Ritz Carlton, where faculty, fellows, and residents gathered to honor the graduates.

A number of awards were presented to residents and fellows for their outstanding research. The 2019 Alan B. Kanavel Surgical Scholar Award was awarded to Drs. Ramiro Fernandez and Kristine Corkum for their exceptional accomplishments achieved in the research laboratory. Dr. Corkum presented her research “Freezing Future Fertility Potential: Surgical Experience and Outcomes of Gonadal Tissue Cyropreservation,” and Dr. Fernandez presented his research on “CCR2+ Monocytes Mobilized from Spleen Mediate Neutrophil Extravasation During Lung Reperfusion Injury.” They were both awarded a monetary prize.

The chief resident presentation award, which is based on the graduating general surgery residents’ Edelstone-Bendix Residents’ Day presentations, was awarded to Dr. Stephen Chiu, who presented “Donor Pulmonary Intravascular Nonclassical Monocytes Recruit Recipient Neutrophils and Mediate Primary Lung Allograft Dysfunction.” He was also awarded a monetary prize.

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: Chandler Cortina, MD, and Emil Fernando, MD

Resident Basic Science Research Competition: Courtney Harris, MD, and Edmund Chen, MD

Resident Clinical Research Competition: Cary Schlick, MD

This year the department introduced the William H. Pearce, MD Research Symposium which consists of an abstract competition and poster session for any research done in the Department of Surgery.
Medical students, residents, and fellows were encouraged to submit abstracts and invited to present posters during Edelstone-Bendix Day.

The awards presented to students, residents, and fellows for their outstanding research are as follows:

**Medical student category:** Benjamin Yu, Katherine Shapiro, and Jason Linh Ngo Khanh

**Junior resident category:** Andre Son, MD, and Andres Guerra, MD

**Senior resident category:** Courtney Furlough, MD, Rhami Khorfan, MD, and Tarik Yuce, MD

**Fellow category:** Gabe Wallace, MD, Shivangi Yadav, PhD, and Pieter Norden, MD

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

**RESIDENT AS TEACHER AWARDS**
Sofia Aronson, MD (Plastic Surgery)
Brian Brajcich, MD (General Surgery)
Emily Cerier, MD (General Surgery)
Amy Holmstrom, MD (General Surgery)
Bona Ko, MD (General Surgery)
Eriberto Michel, MD (Thoracic Surgery)
Michael Nooromid, MD (Vascular Surgery)
William Readdy, MD (General Surgery)
Matthew Snyder, MD (General Surgery)
Sean Sullivan, MD (General Surgery)
Elbert Vaca, MD (Plastic Surgery)

**FELLOW AS TEACHER AWARDS**
Brian Craig, MD (Pediatric Surgery)
Alex Johnston, MD (Critical Care)
Anthony Mozer, MD (Thoracic Surgery)
Gabe Wallace, MD (Vascular Surgery)

Drs. Karen Ho, Rhami Khorfan, Courtney Furlough, William Pearce

Medical student Jason Linh Ngo Khanh

Dr. Gabriel Wallace
Surgical Education

Excellence in Teaching Awards

The “Excellence in Teaching” awards recognize faculty members who excel at supporting resident and medical student learning. We are grateful to these surgeons for their efforts in distinguishing themselves as outstanding educators. The 2018-2019 Excellence in Teaching award winners are:

Kevin Bethke, MD*
Breast Surgery

Derrick Christopher, MD, MBA
Transplant Surgery

Amy Halverson, MD*
GI Surgery

Yue-Yung Hu, MD, MPH
Pediatric Surgery

Nabil Issa, MD*
Trauma/Critical Care Surgery

Joseph Schneider, MD, PhD*
Vascular Surgery

Michael Shapiro, MD*
Trauma/Critical Care Surgery

Nathaniel Soper, MD*
GI Surgery

Ezra Teitelbaum, MD, MEd
GI Surgery

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

**Thursdays, 7:00-8:00am**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>November 21, 2019</td>
<td>SOQIC Lectureship</td>
<td>Dr. Nancy Baxter (University of Toronto)</td>
</tr>
<tr>
<td>December 5, 2019</td>
<td>Harold Method, MD Lectureship</td>
<td>Dr. Steven Stain (Albany Medical College)</td>
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<tr>
<td>December 19, 2019</td>
<td>Resident Quality Improvement</td>
<td>Drs. Brajcich, Eskender, Holmstrom, Ott, Chia, Karim, &amp; Moradian (Northwestern University)</td>
</tr>
<tr>
<td>January 16, 2020</td>
<td>State of the Department</td>
<td>Dr. Howard Chrisman (Northwestern University)</td>
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<tr>
<td>January 23, 2020</td>
<td>ISQIC Lectureship</td>
<td>Dr. Tom Varghese, Jr. (University of Utah)</td>
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<td>January 30, 2020</td>
<td>Research Presentations</td>
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<td>February 13, 2020</td>
<td>TBD</td>
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<td>March 5, 2020</td>
<td>Bergan Lectureship</td>
<td>Dr. Michael S. Conte (University of California—San Francisco)</td>
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<td>March 19, 2020</td>
<td>Faculty Meeting</td>
<td>Dr. Howard Chrisman (Northwestern University)</td>
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<td>March 26, 2020</td>
<td>Loyal Davis, MD Lectureship</td>
<td>Dr. Henri R. Ford (University of Miami)</td>
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<td>April 9, 2020</td>
<td>Charles Mayo, MD Lectureship</td>
<td>Dr. Herbert Chen (University of Alabama at Birmingham)</td>
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<td>April 16, 2020</td>
<td>TBD</td>
<td>Dr. Marleta Reynolds (Northwestern University)</td>
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<td>April 23, 2020</td>
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<td>Dr. Jonah Stulberg (Northwestern University)</td>
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<tr>
<td>TBD</td>
<td>Thomas Shields, MD Lectureship</td>
<td>Aaron Clechanover (Technion—Rappaport Faculty of Medicine)</td>
</tr>
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</table>
Research

With over a dozen wet and dry labs, along with multiple divisions taking part in clinical trials, the Department of Surgery researchers cover a vast array of innovative exploration and investigation. In Fiscal Year 2019, the department reached a record amount of grants submitted and awards received. Through the hard work and dedication of our research faculty and staff, the department continues to grow the research enterprise.

Figure 1. Total Research Expenditures

Figure 2. Research Expenditures by Division

- Transplant 47%
- Clinical Trial Unit 26%
- Plastic Surgery 7%
- Surgical Oncology 6%
- Breast Center/Surgery 6%
- Vascular Surgery 4%
- Thoracic Surgery 3%
- Trauma Critical Care 1%
$75.4M
Proposals Requested

$15.2M
Amount of Research Expenditures

$20.6M
Total Grant Funding Awarded

112
Number of Proposals Submitted

Figure 3. NIH Rankings

NIH Medical School Data. Total Dollars Awarded to Surgery Departments. Based on total dollars awarded for research grants, training grants, fellowships, program grants, and cooperative agreements (U01 grants). R&D contract dollars have been removed from totals.

*Loyola University unranked in 2017
## Newly Funded Projects

<table>
<thead>
<tr>
<th>Prin. Investigator</th>
<th>Proposal Title</th>
<th>Amount</th>
<th>Sponsor</th>
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<tbody>
<tr>
<td><strong>BREAST SURGERY</strong></td>
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<tr>
<td>Seema Khan, MD</td>
<td>Determinants of Transdermal Drug Delivery to the Normal and the Radiated Breast</td>
<td>$374,669</td>
<td>National Cancer Institute</td>
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<tr>
<td>Seema Khan, MD</td>
<td>Pre-Clinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents</td>
<td>$250,000</td>
<td>Breast Cancer Research Foundation</td>
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<td>Swati Kulkarni, MD</td>
<td>Real-Time Volumetric Specimen Imager for 3D Intra-Operative Lumpectomy Margin Assessment</td>
<td>$82,069</td>
<td>National Cancer Institute (via Clarix Imaging Corporation)</td>
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<td>Swati Kulkarni, MD</td>
<td>Preventing Tumor Progression in Women with High-Risk DCIS</td>
<td>$39,795</td>
<td>University of California, Office of the President (via UCSF)</td>
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<td><strong>CLINICAL TRIALS UNIT</strong></td>
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<tr>
<td>S. Chris Malaisrie, MD</td>
<td>ExCEED - A Prospective, Single-Arm, Controlled, Multicenter Study to Establish the Safety and Effectiveness of the CENTERA THV System in Intermediate Risk Patients who have Symptomatic, Severe, Calcific, Aortic Stenosis Requiring Aortic Valve Replacement</td>
<td>$818,926</td>
<td>Edwards Lifesciences LLC</td>
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<td>Duc Thinh Pham, MD</td>
<td>Product Surveillance Registry (PSR)</td>
<td>$770,559</td>
<td>Medtronic, Inc.</td>
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<tr>
<td>Kathleen Grady, PhD</td>
<td>Mechanical Circulatory Support: Measures of Adjustment and Quality of Life</td>
<td>$675,936</td>
<td>National Heart, Lung, and Blood Institute</td>
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<tr>
<td>Kathleen Grady, PhD</td>
<td>Sustaining Quality of Life of the Aged: Heart Transplant or Mechanical Support?</td>
<td>$534,178</td>
<td>National Institute on Aging</td>
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<td>Patrick McCarthy, MD</td>
<td>Prot#CP2018-1: ICE AFIB IDE Study: AtriCure CryoICE Lesions for Persistent and Long-Standing Persistent Atrial Fibrillation Treatment during Concomitant On-Pump Endo</td>
<td>$172,315</td>
<td>AtriCure, Inc.</td>
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<tr>
<td>Patrick McCarthy, MD</td>
<td>SHAPE: Seeing the Heart with AI Powered Echo</td>
<td>$66,792</td>
<td>Bay Labs, Inc.</td>
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<td><strong>GI/ENDOCRINE SURGERY</strong></td>
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<td>Jonah Stulberg, MD, PhD</td>
<td>Surgery as a Contributor to the Opioid Epidemic: A Roundtable on the Importance of Minimizing Opioid Exposure Through Standardized Approaches for Acute Pain Management</td>
<td>$40,147</td>
<td>Venn Strategies LLC</td>
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<td><strong>PLASTIC SURGERY</strong></td>
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<tr>
<td>Seok Jong Hong, PhD</td>
<td>Formulations and Anti-Scare-Efficacy Testing of Topical Statins in Preclinical and Clinical Models</td>
<td>$325,000</td>
<td>U.S. Army Medical Research and Materiel Command</td>
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<td>John Kim, MD</td>
<td>Breast Implants and Immune Modulation: Does Implant Placement Promote a Lasting Systemic Immune Response Capable of Recognizing Breast Tumor Associated Antigens?</td>
<td>$158,195</td>
<td>Allergan Sales, LLC</td>
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<td>Robert Galiano, MD</td>
<td>Effect of ADBM (Advanced Decontamination Biological Material) on Wound Healing</td>
<td>$136,823</td>
<td>Liberty BioSecurity, LLC</td>
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<td>Robert Galiano, MD</td>
<td>Prot#SLI-C40-001: Safety and Efficacy of SLI-F06 in Wound Healing and Scar Appearance in Pre-Abdominoplasty Surgical Excisions and Postoperative Scar Appearance in Subjects Undergoing Abdominoplasty</td>
<td>$131,243</td>
<td>Scarless Laboratories, Inc. (via ethica CRO Inc.)</td>
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<td>Robert Galiano, MD</td>
<td>In-vivo Functional Muscle Regeneration Utilizing an Implantable Modular Bioreactor</td>
<td>$97,443</td>
<td>U.S. Army Medical Research and Materiel Command (via Wake Forest University Health Sciences)</td>
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<tr>
<td>Prin. Investigator</td>
<td>Proposal Title</td>
<td>Amount</td>
<td>Sponsor</td>
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<td><strong>PLASTIC SURGERY (cont.)</strong></td>
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<tr>
<td>Robert Galiano, MD</td>
<td>Prot#KCI.CLEANSE.CHOICE.2017.02: Hydromechanical Cleansing with V.A.C. VERAFO CLEANSE CHOICE Dressing and NPWTi-d vs. Collagenase Ointment in the Management of Pressure Ulcers/Injuries (ACCELERATE Trial)</td>
<td>$81,780</td>
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<td>Robert Galiano, MD</td>
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<td>John Kim, MD</td>
<td>Breast Implants and Immune Modulation</td>
<td>$50,000</td>
<td>Northwestern Memorial Hospital</td>
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<tr>
<td>Robert Galiano, MD</td>
<td>Effect of ADBM (Advanced Decontamination Biological Material) on Wound Healing</td>
<td>$40,536</td>
<td>Liberty BioSecurity, LLC</td>
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<td>Robert Galiano, MD</td>
<td>In-Vivo Functional Muscle Regeneration Utilizing an Implantable Modular Bioreactor</td>
<td>$30,857</td>
<td>U.S. Army Medical Research and Materiel Command (via Wake Forest University Health Sciences)</td>
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<td>Sumanas Jordan, MD, PhD</td>
<td>3D-Printed Graphene-Based Scaffolds for Muscle-Derived Satellite Cell Differentiation in Denervation Injury</td>
<td>$30,000</td>
<td>American Association of Plastic Surgeons</td>
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<td>John Kim, MD</td>
<td>A Prospective, Randomized Multi-Center Clinical Study Comparing Outcomes in Patients Undergoing Acellular Dermal Matrix (ADM) Assisted Immediate Post-Mastectomy Breast Reconstruction</td>
<td>$25,000</td>
<td>Musculoskeletal Transplant Foundation, Inc.</td>
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<td>Gregory Dumanian, MD</td>
<td>Application of Targeted Reinnervation for People with Transradial Amputation</td>
<td>$8,732</td>
<td>National Institute of Child Health and Human Development (via Rehabilitation Institute of Chicago)</td>
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<td><strong>SURGICAL ONCOLOGY</strong></td>
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<td>Karl Bilimoria, MD, MS</td>
<td>SECOND Trial</td>
<td>$600,000</td>
<td>American College of Surgeons</td>
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<td>David Bentrem, MD</td>
<td>IPA for Tom Kmiecik</td>
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<td>Jesse Brown VA Medical Center</td>
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<td>David Bentrem, MD</td>
<td>IPA for Meagan Shallcross</td>
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<td>Karl Bilimoria, MD, MS</td>
<td>Using Patient Outcomes to Inform Surgical Education</td>
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<td>Ankit Bharat, MBBS</td>
<td>Pathogenesis of Lung Injury Mediated by Lung-Restricted Antibodies</td>
<td>$612,434</td>
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<td>Ankit Bharat, MBBS</td>
<td>Role of Spleen Educated Monocytes in Mediating Ischemia-Reperfusion Injury Following Lung Transplant</td>
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<td>Ankit Bharat, MBBS</td>
<td>Donor Nonclassical Monocytes Initiate Lung Injury Following Transplantation</td>
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<td>Ankit Bharat, MBBS</td>
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<td>Ankit Bharat, MBBS</td>
<td>High Carbon Dioxide Impairs Lung Repair</td>
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<td>Sponsor</td>
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<td>Michael Abecassis, MD, MBA</td>
<td>Biorepository Core and Conversion of TruGraf Kidney</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>Repairing the Kidney Endothelium via Targeted Extracellular Matrix Modifiers</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>Repairing the Kidney Endothelium via Targeted Extracellular Matrix Modifiers</td>
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<td>National Institute of Diabetes, Digestive and Kidney Diseases</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>Uncovering the Circulating Factor in FSGS</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune Assessment of a Rodent Model of Extremity Transplantation</td>
<td>$243,564</td>
<td>Northwestern Memorial Hospital</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>(Frankel Foundation Transplant Grants) Attenuation of Graft Injury Following Extremity Transplantation in Rodents</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>(Frankel Foundation Transplant Grants) Attenuation of Graft Injury Following Extremity Transplantation in Rodents</td>
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<td>Jason Wertheim, MD, PhD</td>
<td>Operation RESTORE: Advancing a Basic Science Program in the Development of Bioartificial Tissues and Organs, in order to Repair Battlefied-Acquired Severe Soft Tissue Injuries and Chronic Organ Failure Commonly Seen in United States Veterans</td>
<td>$200,000</td>
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<td>Michael Abecassis, MD, MBA</td>
<td>Transplant Surgery Scientist Training Program</td>
<td>$160,933</td>
<td>National Institute of Diabetes, Digestive and Kidney Diseases</td>
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<tr>
<td>Jason Wertheim, MD, PhD</td>
<td>Operation RESTORE: Advancing a Basic Science Program in the Development of Bioartificial Tissues and Organs, in order to Repair Battlefied-Acquired Severe Soft Tissue Injuries and Chronic Organ Failure Commonly Seen in United States Veterans</td>
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<td>Jason Wertheim, MD, PhD</td>
<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>Jason Wertheim, MD, PhD</td>
<td>Uncovering the Circulating Factor in FSGS</td>
<td>$65,831</td>
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<td>Michael Abecassis, MD, MBA</td>
<td>Subproject for Transplant Surgery Scientist Training Program</td>
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<td>Anat Roitberg-Tambur, DMD, PhD</td>
<td>HLA Epitopes in Organ Transplantation - Clinical Applications</td>
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<td>Vanguard Charitable Endowment Program</td>
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<td>James Mathew, PhD</td>
<td>ITN085ST (PHARAOH) - A Phase I Trial of Autologous Regulatory T Cell Therapy for Autoimmune Hepatitis</td>
<td>$16,884</td>
<td>National Institute of Allergy and Infectious Diseases (via Benaroya Research Institute at Virginia Mason)</td>
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## Newly Funded Projects (cont.)

<table>
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<th>Prin. Investigator</th>
<th>Proposal Title</th>
<th>Award Amount</th>
<th>Sponsor</th>
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<tr>
<td><strong>TRANSPLANT SURGERY (cont.)</strong></td>
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<tr>
<td>James Mathew, PhD</td>
<td>ITN085ST (PHARAOH) - A Phase I Trial of Autologous Regulatory T Cell Therapy for Autoimmune Hepatitis</td>
<td>$13,529</td>
<td>National Institute of Allergy and Infectious Diseases (via Benaroya Research Institute at Virginia Mason)</td>
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<td><strong>VASCULAR SURGERY</strong></td>
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<tr>
<td>Mark Eskandari, MD</td>
<td>Vascular Surgery Scientist Training Program</td>
<td>$326,448</td>
<td>National Heart, Lung, and Blood Institute</td>
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<tr>
<td>Karen Ho, MD</td>
<td>The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury</td>
<td>$160,488</td>
<td>National Heart, Lung, and Blood Institute</td>
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<tr>
<td>Karen Ho, MD</td>
<td>The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury</td>
<td>$50,000</td>
<td>Society for Vascular Surgery Foundation and the American College of Surgeons</td>
</tr>
<tr>
<td>Karen Ho, MD</td>
<td>Regulation of Peripheral Arterial Disease by Gut Microbes</td>
<td>$25,000</td>
<td>Northwestern Memorial Hospital</td>
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</table>
The Surgical Outcomes Quality Improvement Center (SOQIC) has 25 affiliated faculty, 16 full-time staff and has expanded its scholarly efforts in pediatric surgery and urology. In 2018 alone, SOQIC faculty published nearly 100 manuscripts. The center continues to expand its research fellowship program. In 2018-2019 there were 9 fellows who took 2 years out of their surgery residencies to focus on surgical outcomes, health services, and health policy research. During their fellowship, most earned a Master’s degree in Health Services and Outcomes Research through the Center for Healthcare Studies within the Institute for Public Health and Medicine at Northwestern.

Fellows in 2018-19 include: Drs. Julia Coughlin, Ryan Ellis, Lina Hu, Rhami Khorfan, Jessica Liu, Meixi Ma, Cary Schlick, Tarik Yuce, and Lindsey Zhang. Drs. Coughlin, Ellis, Hu and Liu completed their fellowship this year. SOQIC welcomed new fellows Drs. Brian Brajcich, Matthew Chia, Martha Ingram, and Chelsea Fischer in June.

Faculty and research fellows continue to submit manuscripts, publish and present data related to the Flexibility In duty hour Requirements for Surgical Trainees (FIRST) Trial. Specific topics include burnout, discrimination, and harassment. Building on the FIRST Trial, in 2019, SOQIC launched The Surgical Education Culture Optimization through targeted interventions based on National comparative Data (SECOND) Trial. In the FIRST Trial, it was found that 39% of U.S. general surgery residents reported weekly burnout symptoms, and that various aspects of the learning environment - not duty hours - drive poor well-being. In collaboration with the Accreditation Council for Graduate Medical Education, American Board of Surgery, American College of Surgeons, Association of American Medical Colleges, Association of Programs Directors in Surgery, Society of Surgical Chairs, the SECOND Trial is a prospective, pragmatic cluster-randomized trial examining how resident programs can improve the learning environment and resident well-being. The study aims to enroll all 320 general surgery residency programs in the U.S.
The Illinois Surgical Quality Improvement Collaborative (ISQIC) is a 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), and SOQIC. ISQIC celebrated its fifth year in September. Throughout the project’s first four years, ISQIC hospitals have demonstrated statewide improvement in a number of surgical outcomes such as surgical site infection and venous thromboembolism, both of which have been the focus of the collaborative’s annual quality improvement projects. The collaborative offers resources and support for a menu of projects, including opioid reduction, post-discharge venous thromboembolism, and enhanced recovery after surgery in connection with the Improving Surgical Care and Recovery program funded by the Agency for Healthcare Research and Quality.

Northwestern Medicine hosted the second annual drug take-back day at five sites on April 27, 2019. SOQIC faculty and staff are also integral leaders of the Northwestern Medicine Patient-Reported Outcomes (NMPRO) initiative, developing survey questions that are currently being implemented via NM’s Electronic Health Record system. Specific topics include lung cancer surveillance and Post-Discharge Monitoring System after Gastrointestinal Surgery. SOQIC is also directing the NM Video-based Feedback for the Improvement of Surgical Technique (VISTA) project, which aims to leverage NM-based surgeons with an additional instrument to refine and advance their practice through peer discussions and video review.

Opposite page: SOQIC faculty & staff; Dr. Jonah Stulberg featured on NBC Nightly News
Clinical

Over the past year, the High-Risk Breast Clinic and Risk Assessment and Prevention Program expanded with the addition of Barb Guido, APRN. The High-Risk Breast Clinic at Northwestern Memorial Hospital offers breast cancer risk assessment and specialized care plans for women at high risk for breast cancer. The team completed 167 new high risk visits this year, up from 117 visits last year.

The Lynn Sage Comprehensive Breast Center was reaccredited by the National Accreditation Program for Breast Centers (NAPBC) for another three years after a successful site visit in October 2018. The NAPBC is a consortium of national professional organizations focused on breast health and dedicated to the improvement of quality outcomes of patients with diseases of the breast through evidence-based standards and patient and professional education. Dr. Nora Hansen serves as the Director of the NMH Breast Program Leadership Committee (BPLC). Looking ahead to Fiscal Year 2020, the BPLC plans to focus on improving access for all new breast patients and formalizing survivorship care plan pathways.

Research

Dr. Seema Khan continues to lead the Northwestern Cancer Prevention Consortium (NCPC). This is one of five National Cancer Institute-funded consortia, structured for the conduct of early phase, biomarker-based trials of cancer prevention agents, and was recently renewed for another five years under Dr. Khan’s leadership.

Left to right: Dr. Seema Khan Dr. Nora Hansen Dr. Swati Kulkarni Dr. Kevin Bethke
Dr. Khan has also secured another competitive renewal of “Preclinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents with BCRF”. She continues to investigate the novel concept of transdermal delivery of breast cancer drugs through the breast skin. In addition to her ongoing clinical trial testing 4-hydroxytamoxifen gel in women with ductal carcinoma in situ (DCIS). Dr. Khan was recently awarded a R01 grant to define skin characteristics that aid or hinder transdermal delivery, and to evaluate the impact of breast radiotherapy on dermal permeation. She has recently opened a new trial of endoxifen gel in the pre-operative window setting and was also awarded a patent for this agent by the U.S. Patent Office.

This past year, Dr. Swati Kulkarni continued to recruit patients to her R01 funded multi-center trial titled, “Evaluating the Protective Effect of a Tissue Selective Estrogen Complex (TSEC) in Women with Newly Diagnosed Ductal Carcinoma In Situ.” The study, titled, “Preventing Menopausal Symptoms and Invasion,” is currently open at seven sites around the country. Prospectively, she plans to open the study at three additional sites. She is also working closely with a small biotech company to develop an intraoperative imaging device that has the potential to reduce positive margins after breast surgery.

Education

Chandler Cortina, MD, and Emil Fernando, MD, completed their Society of Surgical Oncology Breast Surgical Oncology Fellowship on July 31, 2019. Dr. Cortina accepted a position in the Department of Surgery at the Medical College of Wisconsin and Froedtert Hospital in Milwaukee, Wisconsin. Dr. Fernando accepted a position with the Allegheny Health Network in Pittsburgh, Pennsylvania. Valentina Bonev, MD, and Carlos Vieira, MD, are the new 2019-2020 Lynn Sage Breast Fellows.

Dr. Seema Khan served as Course Director for the Cancer Prevention Program of the Lurie Cancer Center’s half day seminar for clinicians and researchers titled, “Cancer Prevention with Drugs: Improving Existing Solutions and Finding New Ones.” Topics included, “Cancer Prevention Clinical Trials: Funding Opportunities and Support Infrastructure,” “Epoxy Lipid Signaling and Colonic/Pancreatic Carcinogenesis,” “Preliminary Findings to make a Blood Test using Cell Free DNA from Plasma for 5hmC and 5mC Profiling for Colon Cancer Diagnosis,” “Cervical Cancer Prevention,” and “Targeting Cell Motility to Prevent Lethal Cancer.”

Other Highlights

Dr. Kulkarni participated and individually raised $14,000 in the 14th Annual Dancing with Chicago Celebrities charity event, which supports research driving innovation in breast cancer prevention. These funds will also go towards increasing access to care for women with limited resources. Over the past 13 years, Dancing with Chicago Celebrities has raised and donated more than $2.5 million for the fight against breast cancer.

Dr. Kulkarni was also accepted into the Scholars of Wellness program for the FY20 cohort. Scholars of Wellness (SOW) is a professional development program with the objective to create a critical mass of wellness experts to drive meaningful change at NMH. The program equips physicians with the knowledge and tools to lead a wellness project/initiative that positively impacts wellbeing within their team.

Dr. Khan was selected as the 2019 Komen Chicago Medical Award recipient for the progressions that she has made in and for the breast cancer community. She will be honored at the Susan G. Komen Chicago Annual Gala on Saturday, October 26th.
Divisions of
Cardiac & Thoracic Surgery

Cardiac Surgery

Clinical

U.S. News & World Report recently ranked Northwestern’s cardiology & heart surgery program #7 in the nation for the fifth consecutive year, placing it among the top 10 programs in the country. The program is ranked #1 in Illinois for the 12th consecutive year, and has had the highest heart failure survival rate in the state for the past four years.

Northwestern’s cardiac surgery team also has the highest heart transplant volume in the state, including the most every (56) in a single year. With the addition of Dr. Gyu Gang in the West Region, valve surgery volume at Central DuPage Hospital increased by 200%.

Research

Dr. Patrick McCarthy sits on multiple committees for the Medtronic-sponsored APOLLO Trial and the early feasibility study titled, “Intrepid: Evaluation of the Safety and Performance of the Twelve Transcatheter Mitral Valve Replacement System in High-Risk Patients with Severe Symptomatic Mitral Regurgitation and Participating in the Pivotal Trial.” He is also part of the Edwards Lifesciences Global Tricuspid Leadership Team and Abbott Structural Heart Medical Advisory Board. Dr. McCarthy is on the steering committee for AtriCure’s ICE AFIB study (AtriCure CryoICE Lesions for Persistent and Long-standing Persistent Atrial Fibrillation Treatment during Concomitant On-Pump Endo/ Epicardial Cardiac Surgery) and he is the lead investigator for the SHAPE study (Seeing the Heart with AI Powered Echo).

Dr. Duc Pham is currently participating in the study, “MOMENTUM 3: Multi-Center Study of MagLev Technology in Patients Undergoing MCS Therapy with HeartMate 3™ Continued Access Protocol.”

Dr. S. Chris Malaisrie is national PI on 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.”

Patient Success Story

After being diagnosed with heart failure five years prior, Marc Lestinsky was diagnosed with non-Hodgkin’s lymphoma and went through almost a year of chemotherapy. The treatment had long-term complications resulting in heart failure at the age of 40. While his heart was failing, his other organs were in good condition, which made him an ideal candidate for a heart transplant. On his 45th birthday, he had the operation. The operation was performed by Dr. Duc Thinh Pham and was successful. The story was featured on WGN News, ABC News, and the Chicago Sun Times.
Dr. Kathleen Grady received funding for the SUSTAIN-IT study, “Sustaining Quality of Life of the Aged: Heart Transplant and NIH MCS A-QOL: Mechanical Circulatory Support: Measures of Adjustment and Quality of Life.”

The Cardiothoracic Surgery program has been recognized by the Thoracic Surgery Foundation of the Society of Thoracic Surgeons as a “TSF Top 20 Honor Roll” recipient. The “TSF Top 20” Report reflects cardiothoracic surgery research institutions whose faculties have received the most TSF funding since 1993. Northwestern is currently ranked #19.

Education

The 29th Annual Arthur DeBoer, MD Lectureship took place on Thursday, November 1st, 2018. Dr. Vaughn Starnes was the visiting professor and presented, “Current Indications for the Use of the Ross Procedure.” The 2019 Alumni Day Visiting Professor was Dr. Bruce Lytle, who discussed the past, present, and future of coronary artery bypass grafts.

Dr. Christopher Mehta was the third resident to graduate from the thoracic surgery integrated residency program since its inception in 2011. He is currently completing an advanced aortic valve repair fellowship at University of Pennsylvania under the direction of Dr. Joseph Bavaria. Dr. Panayotis Vardas, advanced cardiac surgery fellow, accepted an offer from University of Alabama - Birmingham as an Assistant Professor. Dr. Yuji Kaku, advanced cardiac surgery fellow, will pursue advanced training at New York-Presbyterian Hospital.

Dr. Aaron Clark started as a PGY-1 intern this year coming from Indiana University School of Medicine. Dr. Stephen Chiu is the new traditional thoracic surgery fellow and recently completed his general surgery residency at Northwestern. Drs. Janet Ngu, David Drullinsky, and Jonathan Hong recently joined as cardiac surgery advanced fellows.
Clinical

The Lung Transplant Program celebrated its 5-year anniversary on July 5, 2019. Since inception, the program has performed 91 adult lung transplants. In December 2018, Dr. Ankit Bharat performed the first successful robotic-assisted lung volume reduction surgery (LVRS) in the United States.

The Division of Thoracic Surgery hosted the 26th annual Thomas W. Shields Lecture and welcomed Bryan Meyers, MD, MPH, from Washington University School of Medicine, to preside over a series of discussions surrounding level-1 lung cancer care and advancements in surgical resection of lung disease.

Research

Dr. David Odell was the recipient of a $50,000 NM Innovation Challenge Grant for a project titled, “PRO-Enabled Remote Lung Cancer Surveillance” which focused on affording the campus an integrated and multi-modality patient-centered remote lung cancer surveillance program.

Dr. Ankit Bharat reached a major milestone in the Department of Surgery by receiving 3 NIH R01 awards in the same year from the National Heart, Lung, & Blood Institute.

The first R01 grant examines the mechanisms by which pulmonary intravascular non-classical monocytes recruit neutrophils and cause injury to the transplanted lung. The findings from this study may lead to novel approaches to prevention and treatment of post-transplant lung injury and respiratory distress syndrome.

The second R01 studies autoantibodies that bind to self-antigens in transplanted lungs and cause severe forms of lung injury. Dr. Bharat’s team will examine the mechanisms of neutrophil recruitment and activation to prevent and treat post-transplant lung damage.

The third R01 examines the development of primary graft dysfunction developing after lung transplantation due to host neutrophils. Dr. Bharat’s team will...
determine mechanisms through which classical monocytes are educated in the host spleen and subsequently recruited to the transplanted lungs where they enable neutrophils mediating lung injury. The findings from this study could lead to novel therapies that ameliorate primary graft dysfunction and improve lung transplant outcomes.

**Education**

Dr. Sam Kim was designated to lead national development of a curriculum in robotic surgery for thoracic surgery trainees.

On behalf of the Division of Thoracic Surgery, there were a total of six peer-reviewed publications on topics related to surgical education including a paper in Academic Medicine.

Dr. Chitaru Kurihara successfully completed the inaugural Advanced Lung Failure Fellowship program and was hired as Instructor in the Division of Thoracic Surgery.

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**Dr. Samuel Kim Discusses Vaping-Related Lung Illnesses**

On September 9, 2019, Dr. Samuel Kim, thoracic surgeon, was featured on WTTW11 channel to discuss the recent outbreak of vaping-related lung illnesses. Hundreds of people have been sickened and as many as five are dead after a recent outbreak. Health officials around the country are warning against using e-cigarette products as they scramble to uncover the cause of the illnesses, a task made more difficult by the wide variety of products involved.

“There’s really no standardized consensus on what goes into the product, or how they are being manufactured and regulated,” said Dr. Kim. “Any manufacturer could put their own substance into these. Nobody really knows exactly what goes into these products and, frankly, the health effects associated with them.”

Kim says vaping itself is often misunderstood. It’s a way of inhaling a heated, aerosolized substance generally containing nicotine or THC in vapor form. The cartridges can often be flavored, which has led to skyrocketing rates of use among young people.

*Source: Nick Blumberg, WTTW News*
The division continued to grow its program and services in 2019. In July, Dr. Vitaliy Poylin joined the division, increasing access for colorectal surgery patients and trainees. Dr. Poylin was recruited from Beth Israel Deaconess Medical Center where he was an Assistant Professor of Colon and Rectal Surgery.

Dr. Amy Halverson was selected as a participant in the inaugural class of Scholars of Wellness and was tasked with identifying opportunities to improve physician engagement and wellbeing. She was also appointed as the interim Vice Chair of Education in the Department of Surgery. Her many accomplishments over the past several years as Associate Clerkship Director and Clerkship Director in Surgery positioned her as an exceptional candidate for this new role.

Dr. Jonah Stulberg launched the Intuitive Surgical Case Observation Program at NMH and led the implementation of a video-based coaching pilot at Northwestern Medicine that will focus on surgeons who performed at least five transurethral resections of bladder tumors in the past year. Dr. Stulberg also continued his work on opioid reduction via data collection and programmatic updates to prescribing patterns. He appeared in various media platforms, including NBC News, NPR, and WGN Radio, to speak about the opioid addiction crisis and his ongoing efforts to address the epidemic.

The GI Surgery Faculty and Advanced Practice Providers also had a strong presence at national conferences and symposiums. Dr. Vitaliy Poylin served as the Director of the 2019 International Symposium on Advanced Lower Gastrointestinal Surgery and Endoscopy. This three day conference was held in Kiev, Ukraine. At the Annual Scientific Meeting of the American Society of Colon and Rectal Surgeons (ASCRS) in June, Dr. Scott Strong (President of the ASCRS Research Foundation) was recognized and served as the co-director of a joint ASCRS/SSAT symposium.
on the “Current Management of Crohn’s Disease” and co-moderated a “Meet the Professor Breakfast” titled, “Taking Your Research Idea from Concept to Reality.”

Brittany Leano, PA-C, and Dr. Michael McGee were invited to lecture on “The MD/APP Relationship in Colorectal Practice: The Basics of Making it Work” during a session focused on “Advanced Practice Provider/Allied Health.” At the Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) 2019 Annual Meeting, Dr. Nathaniel Soper was recognized as a “Pioneer in Laparoscopic Foregut Surgery.” Drs. Ezra Teitelbaum, Jonah Stulberg and Eric Hungness also gave lectures on a diverse range of topics including quality measures in hernia surgery, endoscopic enteral feeding, fundoplication choice in the setting of esophageal dysmotility and updates on functional testing for achalasia.

Digestive Health Foundation

The Digestive Health Foundation (DHF) boasted record fundraising accomplishments in 2019. The annual gala, co-chaired by Becky and Michael Elrad, was held on June 8, 2019 at the Four Seasons Hotel in downtown Chicago. The theme was “Celebrating the Power of Family” and it included special guest Mike McCready, lead guitarist of Pearl Jam. The event raised $2.48 million dollars to fund ongoing research led by Northwestern Medicine Digestive Health Center faculty and trainees. In 2019, the DHF funded 9 research projects totaling $247,416 in addition to fellowships, quality improvement initiatives, and biorepository. One of the DHF-funded research projects was led by Dr. Eric Hungness titled, “A Randomized Control Trial of Mesh Suture Repair Versus Traditional Suture Repair for Paraesophageal Hernia.”
Division of Organ Transplantation

Clinical

In 2018, the Comprehensive Transplant Center (CTC) celebrated its 25th anniversary of the liver and pancreas transplant program, the 5,000th kidney transplant, the 2,000th liver transplant, and 3,000th living donor procedure performed at Northwestern Memorial Hospital. To recognize these accomplishments, Secretary of State Jesse White presented the transplant team with a proclamation by the City of Chicago signed by Mayor Rahm Emanuel and a resolution signed by Secretary White. The CTC also hosted 25 summer students, welcomed 9 new fellows and made substantial philanthropic progress with the Transplant Innovation Endowment.

Prospectively, the CTC will pursue different liver perfusion pumps to discover new ways to preserve livers for transplant and condition marginal organs. The center will further invest in the expansion of satellite clinics and broaden clinicians’ experience with robotic surgery.

Research

The CTC submitted 30 grant proposals totaling $17.8 million in 2019, and CTC researchers were awarded 38 grants totaling over $7.6 million. The CTC research portfolio includes more than 75 studies with funding from federal (54%), industry-sponsored (32%) and other (14%) agencies.

Dr. Jason Wertheim received a R01 award from the National Institute of Diabetes, Digestive and Kidney Diseases for his work titled, “Repairing the Kidney Endothelium via Targeted Extracellular Matrix Modifiers.” This project investigates a new strategy to deliver bioactive agents to specific regions of the kidney vasculature. A dual functional nanomaterial will be prepared to repair and protect the damaged endothelium of the kidney. In addition, Dr. Wertheim also received a Department of Defense award titled, “Uncovering the Circulating factor in FSGS.” Primary focal segmental glomerulosclerosis (FSGS) frequently causes renal disease, requiring dialysis therapy or kidney transplantation. Dr. Wertheim’s lab will screen blood samples from patients affected by FSGS that will identify high value targets for treatment.

Dr. Michael Abecassis received supplemental funding for the Transplant Surgery Scientist Training Program from National Institute of Diabetes, Digestive and Kidney Diseases. In addition, Dr. Abecassis received funding from Eurofins Viracor, Inc. for “Biorepository Core and Conversion of TruGraf Kidney.” This funding will aid multiple aspects of the CLIA lab housed in the Comprehensive Transplant Center.

Dr. Daniela Ladner received a Patient-Centered Outcomes Research Institute for her work titled, “PCORnet SURVEILLANCE of Liver Cirrhosis – A Common Chronic Disease with Tremendous Disease Burden.” This surveillance group is a nationwide team to aid in

Dr. Wertheim Receives PECASE Award

Jason Wertheim, MD, PhD, was awarded the Presidential Early Career Award for Scientists and Engineers. This award is granted to scientists and engineers who made outstanding contributions to science and technology through their independent research and proved to be influential leaders in their field. It is the highest honor the United States Government can bestow. His recent research aims to develop the technology to restore and potentially build human kidneys to reduce wait times for transplants.
in early identification of liver cirrhosis before complications occur in patients.

Education

Kofi Atiemo, MBBS, & Rebecca Craig-Schapiro, MD, PhD, successfully completed the two-year American Society of Transplant Surgeons accredited fellowship. Dr. Craig-Schapiro joined New York-Presbyterian Hospital while Dr. Atiemo moved on to Tulane University Medical Center.

The NIH-NIDDK sponsored Transplant Surgery Scientist Training Program congratulates Fran Lee, MD, and Jessica Voss, PhD, & Nik Mazumder, MD, MPH, on the completion of their fellowship. This two-year fellowship will welcome Andrew Benintende, MD, & Avesh Thuluvath, MD, in 2020.

The Comprehensive Transplant Center Summer Student Immersion Program (CTCSSIP) received nearly 100 applications from students across the country. Student selection was highly competitive and was dependent on an in-depth curriculum vitae review, and phone interview. Students were then paired with a transplant faculty member for the 8-week research internship which culminated in a poster presentation attended by CTC faculty, staff, and colleagues.
Division of Plastic Surgery

Clinical

Growth in the division this year focused mainly on the reconstructive practice and aesthetic services. Additionally, the division increased its clinical footprint by offering an innovative surgery developed by Dr. Gregory Dumanian called Targeted Muscle Reinnervation (TMR). This procedure results in a significantly greater reduction of phantom limb pain for amputees and has the potential to revolutionize treatment for these patients.

Dr. Sumanas Jordan is leading the development of a comprehensive program for patients seeking transgender care at Northwestern’s downtown campus. As part of this program, the division now offers gender affirmation procedures.

Research

Dr. Jordan received a grant from Blue Cross Blue Shield to study the impact of coordinated care for transgender patients. As part of this project, focus groups yielded insightful information about healthcare experiences for this patient population.

The division received research funding for Targeting Muscle Reinnervation (TMR). This award funded the development of 12 training courses for surgeons interested in learning more about the procedure. The courses, led by Drs. Dumanian, Ko, and Jordan, included observing a TMR case, didactic teaching and cadaver training.

Dr. Kim has been instrumental in the Musculoskeletal Transplant Foundation (MTF)’s study, “A Prospective, Randomized, Multi-Center, Clinical Study Comparing Outcomes in Patients Undergoing Prosthetic, Acellular Dermal Matrix Assisted, Immediate Post-Mastectomy Breast Reconstruction.” This study compares two types of acellular dermal matrices (ADMs) currently used in immediate post-mastectomy prosthetic breast reconstruction. Dr. Kim and his team have become one of the highest enrolling sites for this nationwide clinical trial.

Left to right:
Dr. Sofia Aronson (Resident)
Dr. Noopur Gangopadhyay (Lurie)
Dr. Jennifer Bai (Resident)
Dr. Aaron Kearney (Resident)
Dr. Galiano is working closely with Scarless Laboratories, Inc. on their wound healing and scar appearance study. This assesses pre-abdominoplasty surgical excisions and postoperative scar appearance in subjects undergoing abdominoplasty. Furthermore, it analyzes a novel buffer to determine if it aids in the improvement in scar appearance and wound strength.

Additionally, Dr. Galiano and his lab received funding to assist on the DOD awarded project “Restoration of the Functional Aesthetic Craniofacial Envelope and Extremities (ReFACE) Regeneration” with Harvard Medical School. The Galiano lab will complete animal studies specially designed to evaluate the efficacy of amiloride and celecoxib that are already in clinical use systematically.

Dr. Seok Hong, Research Associate Professor, was awarded a Department of Defense subcontract for his work to identify topical formulations of statins that deliver effective drug concentrations to the dermis of the animal mode in the hopes of determining therapeutic options for the reduction of scarring.

**Education**

The integrated residency program continues to attract a strong group of applicants. New residents include Drs. Brandon Jackson and Kareem Termanini who both completed medical school at Georgetown University School of Medicine. Additionally, Simon Moradian joined the program as a PGY-3. The graduating residents accepted the following advanced fellowships: Jennifer McGrath is doing a craniofacial fellowship at Children’s National Health System in Washington, D.C. Steven Lanier is completing an orthopedic hand fellowship at Washington University in St. Louis.
Division of Surgical Oncology

Clinical

Dr. Ryan Merkow, along with medical oncologist Dr. Devalingam Mahalingam, established a regional therapy program at Northwestern Memorial Hospital. Regional therapy is a cancer-fighting approach which includes applying chemotherapy directly to the cancer site in a much higher dose. One of the most exciting regional therapies now available is placement of a hepatic artery infusion pump. This therapy, offered at only a handful of facilities in the country, involves the surgical placement of a pump to deliver chemotherapy directly to the liver. Because the medication is delivered directly to the liver tissue, it can be 100 to 300 times stronger than the dose that could be safely administered systemically.

This year, Dr. Cord Sturgeon served as the Health Informaticist on a number of Health System Collaboratives (HSC), including the General Surgery HSC. The HSCs are specialty-focused, multidisciplinary teams with representation from across the NM system. The group is responsible for reviewing and prioritizing requests for system function resources such as Epic, IT, Analytics, and Process Improvement. Dr. Sturgeon’s role is integral in helping identify a technical solution for a requestor’s clinical need.

Dr. Dina Elaraj will be the team leader for an Academy for Quality and Safety Improvement (AQSI) project this upcoming year. The multidisciplinary project team includes anesthesiologist Dr. Bobbie Jean Sweitzer and endocrinologist Dr. Wenyu Huang. The project involves screening patients with hypertension in the pre-op clinic. It tests for hyperaldosteronism before elective surgery, provided the patient meets the current screening guidelines.

Research

Dr. Anthony Yang received a NIH K08 award from the National Heart, Lung, and Blood Institute for his project titled, “Tailored Adaptation of the AHRQ VTE QI Guide to Local Hospital Context.” Venous thromboembolism (VTE) is a major clinical problem in surgery patients. Dr. Yang’s team will work to identity how hospitals can use a novel VTE prophylaxis process-of-care quality measure to identify targets of improvement and evaluate how hospitals adapt to the quality improvement resource.

Left to right: Amanda Prosser, RN  
Dr. David Bentrem  
Dr. Jeffrey Wayne  
Danielle Basinger, APN  
Lauren Schiemann, PA  
Adrienne Goodman, RN
Dr. Merkow was selected as a scholar for the Chicago Center for Excellence in Learning Health Systems Research Training (ACCELERAT) program. This highly competitive award is funded through the Agency for Healthcare Research and Quality (AHRQ). Dr. Merkow is focusing his work on the development of a novel, post-surgical, post-discharge complication monitoring and adaptive intervention system using tailored patient reported outcomes. The results of his study will improve care for patients during one of the most vulnerable and high-risk periods after major cancer surgery. It will also build the infrastructure to generalize the monitoring system to other areas of surgery.

Dr. Bentrem continues his research with the NU pancreatic cancer tumor bank. The tumor bank has tissue and blood samples from over 250 cancer patients. Given the lack of effective systemic treatment options, the goal of the bank is to develop new treatments for pancreatic cancer. Immune checkpoint therapy (ICT) has transformed cancer treatment in recent years; however, response rates for pancreatic cancer to systemic chemotherapy have lagged behind those for other solid tumors. The tumor immune microenvironment influences response to ICT. Understanding the differential immune infiltration in ICT-resistant tumor types will guide future treatment strategies. They have found elevated levels of mast cells and inflammatory leukotrienes in human pancreatic tumor tissue and correlated this with worse outcomes from pancreatic cancer treatment.

Education

All seven surgeons participated in teaching 16 surgical oncology and endocrine surgery residents throughout the year. Additionally, several faculty members participated as speakers or instructors at general surgery conferences. Dr. Ryan Merkow made a Grand Rounds presentation titled, “The Role of Regional Cancer Therapies in the Modern Era” in April.

Other Highlights

Twenty-three members from the surgical oncology team participated in the 2019 Cancer Survivors’ Celebration Walk & 5K. The team included representation from the nursing team, medical assistants, advanced practice providers and surgeons. Held on National Cancer Survivors Day, Lurie Cancer Center’s signature event is a source of hope and inspiration for people who have faced or are facing cancer.
Clinical

The division’s volume continues to grow, particularly with emergency general surgery and surgical intensive care services. The division added a sixth faculty member, Dr. Anne Stey, in August to help cover the increasing patient census.

Research

Dr. Steven Schwulst received a NIH R01 grant from the National Institute of General Medical Sciences for his project titled, “The Role of Monocyte and Microglia Interaction in the Evolution of Traumatic Brain Injury-Induced Neurodegeneration.” This study examines traumatic brain injuries (TBI) and related immune functions to evaluate potential therapies and supportive care for patients afflicted with this morbid disorder.

Dr. Anne Stey, the newest faculty member, will build her research program in outcomes and translational research and have membership in the Surgical Outcomes and Quality Improvement Center (SOQIC).

Dr. Mamta Swaroop continues her work with the Northwestern Trauma and Surgical Initiative. The program spread from Southeast Asia to Cambodia and partners with Worldmate Hospital in evaluating the feasibility of lay person, first responder trauma training in the rural community of Battambang. With over 1300 educated in Chicago and the western suburbs, the TRUE (Trauma Responders Unify to Empower) Communities Course is also taught in Mississippi and Bolivia. In Bolivia, with the support of the Departmental Ministry of Health and Hospital Leadership, a perioperative registry is being implemented in addition to the trauma registry in 5 hospitals. In India, her team continues the sustainable development of surgical capacity in rural Nanakpur, Haryana.
Education
The division continues to receive competitive applicants for the Surgical Critical Care Fellowship. New fellows in the program are Drs. David Testrake and Giang (Zane) Quach. Dr. Testrake completed his residency at Wright State University Boonshoft School of Medicine while Dr. Quach completed his residency at William Beaumont Hospital Program. The graduating fellows accepted the following full-time roles: Michael Mastellar joined Mercy Health/University of Illinois Rockford and Alexander Johnston joined Winchester Medical Center in Winchester, VA.

Other Highlights
Dr. Swaroop was named the Director of the Center for Global Surgery in the Institute for Global Health. The Center for Global Surgery aims to improve access to essential surgical care by addressing the barriers to care through innovation, research, education, policy, and advocacy. The center’s goal is to train the next generation of global health leaders and build sustainable capacity in regions with health inequities.
Division of Vascular Surgery

Clinical

There were several notable accomplishments in the division in the past year. Dr. Andrew Hoel is the site principal investigator for a new clinical trial using a custom-made Thoracic Branch Endoprosthesis. Drs. Hoel and Mark Eskandari successfully treated the first patient in Illinois with this device at Northwestern. This minimally invasive procedure uses cutting-edge technology for the treatment of aortic arch aneurysms and is available only at a few select medical centers in the country.

Drs. Tadaki Tomita and Heron Rodriguez performed the first TransCarotid Artery Revascularization (TCAR) at Northwestern Medicine. This procedure uses flow reversal to prevent intraoperative stroke during carotid stent placement. Dr. Tomita was the also first surgeon in the Chicago area to treat aortic dissection using a new that has an uncovered stent to maintain perfusion to arterial branches off of the aorta.

Dr. Ashley Vavra remains heavily involved in quality improvement and patient-centered care in surgery. In addition, she is building a respected thoracic outlet syndrome practice.

Drs. Eskandari, Rodriguez, and Vavra continue to increase the clinical activity at the Jesse Brown VA Medical Center. The hybrid operating room at the VA was renovated with installation of a new Philips system. Advantages of this new system include a 60-70% reduction in radiation exposure for patients and healthcare workers as well as improved imaging technology.

The Center for Vascular Disease at Northwestern Lake Forest Hospital (NLFH), under the leadership of Drs. Eskandari and Tomita, had several major achievements in the past year. The outpatient vascular laboratory was accredited by the Intersocietal Accreditation Commission (IAC). Dr. Tomita performed the hospital’s first endovascular aortic aneurysm repair (EVAR) and has now completed more than a dozen procedures at NLFH. He also performed the hospital’s first carotid stent for carotid stenosis and the first hybrid lower extremity revascularization procedure for limb preservation. The vascular service at NLFH has performed more than 150 open and endovascular procedures in the past year. In addition, vascular surgery trainees have started doing apprenticeship rotations with Dr. Tomita at NLFH.

Research

Dr. Eskandari received a competitive renewal for the 11th consecutive year from the National Health, Lung, Blood Institute for a T32 grant titled, “Vascular Surgery Training Program.” The training program educates

Pearce Given Lifetime Achievement Award

Dr. William H. Pearce, Emeritus Professor of Surgery, received the 2019 Lifetime Achievement Award at the annual meeting of the Society for Vascular Surgery (SVS). This prestigious award is presented by SVS to recognize an individual’s outstanding and sustained contributions both to vascular surgery and to SVS, as well as exemplary professional practice and leadership. It is the highest honor that can be bestowed by SVS to a member.
physician scientists and postdoctorate researchers in various areas of vascular surgery research.

Dr. Karen Ho was awarded a R03 grant from National Heart, Lung, and Blood Institute titled, “Microbe-Related Modulation of Neointimal Hyperplasia after Arterial Injury.” This study examines the effect of specific gut microbiota have disease-modifying effect on neointimal hyperplasia by regulating the host inflammatory response. Dr. Ho’s lab will observe this gut microbiota to determine the drivers of host intestinal, arterial, and systematic inflammation in the hope to uncover novel microbe-related therapeutic targets to be used to prevent restenosis in patients undergoing vascular reconstruction.

Education

Drs. Rodriguez and Eskandari hosted a two-day aortic surgical education course for Latin American physicians. These live case presentations allow for international recognition of the vascular surgery division.

This past year, the training program developed a vascular surgical rotation at NLFH. Designed to complement the clinical experience at NMH, the apprenticeship model rotation exposes trainees to vascular care in a community-based setting. Feedback from pilot rotations confirmed the value in this educational opportunity.

In its 7th year, the annual John J. Bergan Lectureship was proud to host Dr. Jack L. Cronenwett as the 2019 honorary visiting professor. Dr. Cronenwett delivered his talk titled, “Improving Care by Sharing Registry Data in the Vascular Quality Initiative.”

Graduates from the vascular surgery training program include Drs. Gabe Wallace and Neel Mansukhani. Dr. Mansukhani is a faculty member at the Medical College of Wisconsin in Milwaukee, WI. Dr. Wallace joined a private practice affiliated with Advocate Christ Medical Center. Dr. Calvin Chao is the new integrated resident, from the University of Massachusetts, and Dr. Taehwan Yoo is the new fellow from Ohio State University.
The mission at Jesse Brown VA Medical Center (JBVAMC) is “putting Veterans first.” The VA remains the largest single employer of physicians and nurses as well as the largest educator of health care professionals in the United States. The 170-bed inpatient facility at Jesse Brown accommodates more than 8,000 inpatient admissions annually. The Surgical Service includes nine sections (General, Orthopedics, Ophthalmology, Otolaryngology, Plastics, Podiatry, Urology and Vascular) and continues to perform over 4,000 operations each year. Clinic access as JBVAMC was recently rated 3rd best throughout Veterans Health Administration among similar complexity centers.

Both Drs. Jason Wertheim and Joshua Meeks have merit funding from the VA Biomedical Laboratory Research and Development (BLRD). Dr. Meeks leads a Prostate Cancer Foundation Challenge Award effort entitled, “Clinical, Environmental, Genetic and Genomic profile of Men with Early-Onset Lethal Prostate Cancer.”

Dr. David Bentrem received VA funding for his work title, “Directed Evaluation of Provider Learning Modules to Prevent Venous Thromboembolism (VTE) after Major Cancer Surgery”. There continues to remain inadequate provisions of guideline-recommended VTE prophylaxis after major cancer surgery. Through review of 51 member hospitals in Illinois, Dr. Bentrem’s team hopes to identify the barriers of VTE chemoprophylaxis, including evaluating the education and audit-and-feedback provided to patients.

The Department of Surgery at Northwestern Lake Forest Hospital (NLFH) has seen growth in many areas over the past year, with the surgical case volumes increasing by more than 12%. This is due to NLFH’s recruitment of surgeons as well as the popularity of the new hospital within the community.

In November 2018, Dr. Mary Maish joined NLFH. She is an experienced surgeon who has filled the need for on-site thoracic procedures. In addition to thoracic surgery, Dr. Maish performs many foregut operations.

In spring of 2019, Dr. Michael Howard joined NLFH. He is a plastic surgeon who previously practiced at NorthShore University Health System. He has extensive experience with free flap reconstructive operations, bringing that option to NLFH patients.

The new hospital was recently named one of the most beautiful hospitals in America. It draws patients from around the county and extends the reach of services to patient populations who would otherwise have not come to NM. Since opening the new hospital, most days begin with occupancy in excess of 100%.

The Department of Surgery actively participates in a number of system-wide initiatives including the Health System Clinical Collaboratives, the Value Analysis Committees, and ERAS protocols. Several new innovative technologies are also being implemented in the operating rooms at NLFH, including a blue light OR room sterilization technology and a video-based artificial intelligence system to improve efficiency.
In January, Lurie Children’s opened its new Surgery Center in Northbrook, providing additional options to patients in the north and northwestern suburbs. The center, which is adjacent to Lurie Children’s Outpatient Center on Techny Road in Northbrook, is a 26,000 square foot facility with a state-of-the-art high definition 3T MRI, four operating rooms, private rooms for pre- and post-operative care and physician offices. The MRI and medical imaging suite is seamlessly connected to the radiologists at Lurie Children’s, allowing for immediate communication with the technicians.

Renowned pediatric cardiovascular surgeon, Joseph Forbess, MD, MBA, was named Division Head of Cardiovascular-Thoracic Surgery in September 2018. Dr. Forbess, who joined Lurie Children’s in 2017, is also the Surgical Director of the Single Ventricle Reconstruction Program, Professor of Pediatric Surgery at Northwestern University Feinberg School of Medicine, and was recently invested into the Willis J. Potts, MD Professorship in Surgery.

Arun Gosain, MD, Head of the Division of Plastic and Reconstructive Surgery at Lurie Children’s, was named the 2018 Clinician of the Year by the American Association of Pediatric Plastic Surgeons. Selected by the executive councils of two organizations, the American Academy of Pediatric Plastic Surgeons and the American Academy of Pediatrics, the honor recognizes a surgeon’s exceptional contributions to the field of pediatric plastic surgery.

A major finding from the lab of Catherine Hunter, MD, from Stanley Manne Children’s Research Institute at Ann & Robert H. Lurie Children’s Hospital of Chicago offers a new direction toward treatment of necrotizing enterocolitis (NEC), a devastating intestinal emergency that occurs in up to 10 percent of premature infants. NEC is a leading cause of overall infant mortality in the United States, according to the Centers for Disease Control and Prevention (CDC). Results were published in Scientific Reports.
Faculty Honors & Awards

**Bharat, Ankit, MBBS**
Elected Committee Member of the American Association of Thoracic Surgery Education Committee, January 2019.

Elected Member of the Scholarship Committee, American College of Surgeon, January 2019.

Elected Member of the American Society of Clinical Investigation, November 2018.

Elected Member of the Special Emphasis Panel/Scientific Review Group 2019/10 BTSS meeting, Center for Scientific Review, National Institutes of Health, April 2019.


**Bilimoria, Karl, MD, MS**
Appointed Inaugural Founding Chair of Illinois Surgical Conference, 2019.

Awarded “Medical Student Teaching Excellence Award - Clinical,” 2018.

Awarded “Medical Student Teaching Excellence Award - Research/AOSC,” 2018.

Elected President of the Association for Academic Surgery.


Visiting Professor for Quality & Safety in Surgical Practice, 2019.

**Cox, James L, MD**
Elected as Honorary Fellow to the Indian Association of Cardiothoracic Surgery, Chennai, India, 2019.

**Dumanian, Gregory, MD**
American Association of Plastic Surgeons Research Achievement Award Clinical, May 2019.


Keening Visiting Professor at Duke University, April 10, 2019.

Visiting Professor at University Hospital/Metro Health Center, Inaugural Drs. Earle and Jordan Lectureship, Cleveland, OH, September 07, 2018.

Yang Hsueh Chi Visiting Professor at University of Hong Kong, April 14, 2019.

Hause Lecturer at University of California Davis, June 11, 2019.

**Eskandari, Mark, MD**
Appointed Chair of the Department of Surgery by Promotion and Tenure Committee, 2018.

Awarded the Outstanding Teacher Award from Northwestern University Feinberg School of Medicine, August 2018.


Elected into Northwestern University Chapter of Alpha Omega Alpha Medical Honor Society, 2018.


Named Top Doctor by Castle Connolly, 2018.


**Fryer, Jonathan P, MD**
The Jonathan Fryer Resident Scientist Scholarship Award, American Society of Transplant Surgeons, 2018.

Awarded the Distinguished Service Award, McGaw Medical Center, Feinberg School of Medicine, Northwestern University, 2019.
**Gordon, Elisa, PhD, MPH**  
Elected as a Fellow to the American Society of Transplantation, June 2019.

**Hansen, Nora, MD**  

**Ho, Karen, MD**  
Appointed member of the Robert H. Lurie Comprehensive Cancer Center, Northwestern University, September 2018.  
Received Science in Medicine Teaching Award, Northwestern Office of Medical Education, September 2018.  
Received Outstanding Teacher, Surgical Clerkship, Northwestern University Feinberg School of Medicine, September 2018.  
Invited Peer Reviewer for National Institutes of Health, NHLBI, Mentored Transition to Independence Study Section, October, 2018.  
Elected into Alpha Omega Alpha Medical Honor Society, March 2019.  
New Member, American College of Rheumatology, April 2019.  
Elected as a Vice Chair of the Peripheral Vascular Disease Council Committee on Membership and Communications for the American Heart Association, May 2019.  
Invited to serve as Member of the Grants and Fellowship Committee for the Association of Women Surgeons, June 2019.  
Elected as a Member of the Resident and Student Outreach Committee for the Society for Vascular Surgery, June 2019.  
Elected as a Member of the Publications Committee for the Society for Vascular Surgery, June 2019.

**Hoel, Andrew, MD**  
Accepted to Aspiring Leaders Development Program, Association for Academic Surgery, October 2018.  
Appointed as Adjunct Assistant Professor of Healthcare Policy and Research, Cornell University, March 2019.  
Nominated to Education Committee, Midwestern Vascular Surgical Society, November 2018.

**Hunter, Catherine, MD**  
American Pediatric Surgical Association, Jay Grosfeld, MD Research Scholar Award, 2018-2019.  
FAME (Feinberg Academy of Medical Educators) membership, Northwestern University, 2018.  
Feinberg Academy of Medical Educators, Northwestern University, 2018.  

**Johnson, Julie, MSPH, PhD**  
Distinguished Visiting Scholar, University of Technology Sydney, Ultimo, Australia, August 2018 - January 2019.

**Khan, Seema A, MD**  
Northwestern Cancer Prevention Consortium Grant - Score 19.

**Kim, John Y, MD**  

**Kulkarni, Swati , MD**  
Invited Editorial Board Member for Annals of Surgical Oncology.

**Ladner, Daniela P, MD, MPH**  
Teaching Award, Area of Scholarly Concentration, Feinberg School of Medicine, 2018.

**Lautz, Timothy B, MD**  
Appointed to the Soft Tissue Sarcoma Committee of the Children’s Oncology Group.  
Continued on next page.
Faculty Honors & Awards

**Lemoine, Caroline, MD**

**Leventhal, Joseph, MD, PhD**
Elected as a Fellow to the American Surgical Association, April 2019.

**Mathew, James, PhD**
Named Academic Editor of Scientific Reports, May 2019.

**Merkow, Ryan, MD, MS**

**Odell, David, MD, MMSc**
Alpha Omega Alpha Election, 2019.

Training Institute for Dissemination and Implementation Research in Cancer at NIH, 2018.

Awarded Education Research Award, 14th Annual Lewis Landsberg Research Day, 2018.

President’s Award recognizing the best abstract, Annual Meeting for Society of Thoracic Surgeons, 2018.

**Pham, Duc Thinh, MD**

Elected as Fellow to the American College of Surgeons, October 2018.

**Poslusny, Joseph, MD**
Northwestern Feinberg School of Medicine Recognition of Exemplary Professionalism, August 2018.

Northwestern University Emergency Medicine Residency Teaching Award, May 2019.

**Raval, Mehul, MD**
Assistant Editor of Joint Commission Journal on Quality and Patient Safety, 2019-present.

Vice Chair Committee on the Delivery of Surgical Care, American Academy of Pediatrics - Surgical Section, 2018-present.

Vice Chair Quality and Safety Committee, American Pediatric Surgical Association, 2018-present.

**Rodriguez, Heron, MD**
Awarded the “Excellence in Teaching Award,” Department of Surgery, October 2018.

**Roitberg-Tambur, Anat, DMD, PhD**
Elected as a Fellow Scholar to the Paul It Terasaki Research Foundation, July 2019.

**Schwulst, Steven, MD**
Awarded the Outstanding Teacher Award from Northwestern University Feinberg School of Medicine, August 2018.

Elected as a Fellow of the American College of Critical Care Medicine (FCCM), February 2019.

**Shaaban, Aimen, MD**
Ann & Robert H. Lurie Children’s Hospital Innovator Award 2019 - present

**Shapiro, Michael, MD**
Awarded the Outstanding Teacher Award from Northwestern University Feinberg School of Medicine, August 2018.

**Soper, Nathaniel J, MD**
Awarded Gary A. Mecklenburg Distinguished Physician Award from NMH, June 27, 2019.


Castle and Connolly America’s Top Doctors, 2002-present. Department of Surgery Excellence in Teaching Award, 2004-present.

Elected as Fellow to the American College of Surgeons Academy of Master Surgeon Educators, 2018.

Honorary Member of the Thomas J. Whelan Society, University of Hawaii, October 12, 2018.

Marquis Who’s Who in America, 2005-present.

Named in Chicago Magazine - Top Doctor, 2010-present.
**Strong, Scott, MD**  
America’s Top Doctors

America’s Top Doctors for Cancer

Chicago Magazine Top Doctors/Cancer Doctors

**Stulberg, Jonah, MD, PhD, MPH**  
Awarded the Outstanding Teacher Award from Northwestern University Feinberg School of Medicine, August 2018.

Elected as Chair to the Academy Health Surgical and Perioperative Care Interest Group, October 2018.

**Sturgeon, Cord, MD**  

Visiting Professor, University of Pittsburgh Medical Center, Feb 2019.

**Swaroop, Mamta, MD**  

Co-Chair Gender Equality in the Academic Global Community Session, CUGH 2019. Chicago, IL, August 2018.

Fellow, Institute of Medicine of Chicago, Chicago, IL, Sept 2018.


Co-Founder, Co-Chair, Women in Medicine Summit, Chicago, IL, January 2019.

Assistant Secretary, International College of Surgery-US Section, January 2019.

Best Association of Academic Surgeons (AAS) Manuscript Submitted to the AAS Publications Committee by an AAS Member: Empowering Bystanders to Intervene: The Trauma Responders Unify to Empower (TRUE) Communities, Houston, TX, February 2019.

Flexner Deans’ Lecture Series, Global Surgery Lecturer, Vanderbilt School of Medicine, Nashville, TN, May 2019.

Expert Participant, Summit: Nation Agenda for Prehospital Bleeding Control Research, The Stepping Strong Center for Trauma Innovation, The Center of Surgery and Public Health at Brigham and Women’s Hospital, Harvard Medical School/TH Chan School of Public Health and the National Center of Disaster Medicine and Public Health at the Uniformed Services University of Health Sciences, Boston, MA, May 2019.


Outstanding Instructor in Surgical Clerkship for MS III, Feinberg School of Medicine, Northwestern University, Chicago, IL, June 2019.

Outstanding Mentor in Area of Scholarly Concentration, Feinberg School of Medicine, Northwestern University, Chicago, IL, June 2019.

Director, Center for Global Surgery, Institute for Global Health, Northwestern Medicine, June 2019.

**Teitelbaum, Ezra, MD, MEd**  
Excellence in Teaching Award, Northwestern University Department of Surgery, 2018.

**Tomita, Tadaki, MD**  

Elected as Fellow to the American College of Surgeons, 2018.

**Vavra, Ashley, MD**  
Appointed to Member, Physician Leaders Development Program, Northwestern Medicine Group in January 2019

**Wayne, Jeffrey, MD**  
Elected to the American Surgical Association, April 22, 2019.


**Wertheim, Jason Albert, MD, PhD**  
Awarded Presidential Early Career Award for Scientists and Engineers, 2019.

Elected as Fellow to the American College of Surgeons, 2018.

Awarded TERMIS-AM Young Investigator Award, 2019.
Faculty Presentations

Abdullah, Fizan, MD, PhD
Invited Professor, “Pediatric Surgery Cases & Research Overview,” Medical Students Lecture, Korle Bu Teaching Hospital, Accra, Ghana, February 19, 2019.

Abecassis, Michael, MD, MBA
Invited Speaker, “Liver Transplantation for Alcoholic Hepatitis – Clinical and Ethical Considerations,” Transplant Grand Rounds, Washington University, Department of Surgery, St. Louis, MO, May 15-16.
Invited Speaker, “Monitoring Transplant Center Performance Through Real-Time Analytics (T-TPF-1358318),” Novartis Pharmaceuticals Corporations, Speaker’s Program, Greenwood Village, CO, November 5-6, 2018.

Bharat, Ankit, MBBS
“Complementary roles of monocytes in mediating lung ischemia-reperfusion injury,” Max Planck Institute, University of Giessen and Marburg Lung Centre, 2019

International Graduate Program in “Molecular Biology and Medicine of the Lung, Bad Nauheim, Germany, July 4-5, 2019.

“Developments in the Diagnosis and Treatment of Ureaplasma-Related Hyperammonemia after Solid Organ Transplantation,” Transplant Grand Rounds, Department of Surgery, University of Virginia Health System, Charlottesville, VA, November 16, 2018.


“Pathogeneses of lung transplant ischemia reperfusion injury,” University of Alabama, Department of Surgery Grand Rounds, Birmingham, AL, March 26, 2019.

Bilimoria, Karl, MD, MS


Faculty participant, Health Services Research Methods Course, Chicago, IL, December 2018.

Introduction for AAS Presidential address, Academic Surgical Congress, Houston, TX, February 2019.

Invited Speaker, Patient Engagement Transparency Initiative, Northwestern Hospital Medicine Grand Rounds, Chicago, IL, August 2018.
Bilimoria, Karl, MD, MS (cont.)
Invited Speaker, “Moving from FIRST to SECOND: A Proposal for Another National Trial to Improve Surgical Training,” iCompare & Common Program Requirements Task Force collaborative meeting, Chicago, IL, February 2019.

“Moving from FIRST to SECOND: A Proposal for Another National Trial to Improve Surgical Training,” University of Pittsburgh Grand Rounds, Pittsburgh, PA, December 2018.

“Moving from FIRST to SECOND: A Proposal for Another National Trial to Improve Surgical Training,” UC Davis Goodnight Lectureship, Davis, CA, February 2019.


Caicedo-Ramirez, Juan C., MD
Keynote Speaker, “How to make an Impact in Hispanic Health: The Hispanic/Latino Physician as an Agent of Change,” 2ND Annual MOLA Latino Health Symposium 2018, In partnership with Northwestern Feinberg School of Medicine, Chicago, IL, October 2018.


Invited Speaker, “Cultural Barriers to Kidney Transplantation,” Transplant Teams from Duke University, University of North Carolina, Wake Forest Baptist Health and Carolinas Medical Center, Greensboro, NC, July 2019.

Invited Speaker, “Improving Access and donation transplant rates in Hispanics through a culturally and linguistically targeted initiative,” Latino(a) Health Disparities Workshop, Northwestern University, Feinberg School of Medicine, Chicago, IL, January 2019.


Invited Speaker, “Living Donor Liver Transplantation Update,” NUATC, Northwestern University, Feinberg School of Medicine, Chicago, IL, March 2019.

Invited Speaker, “Nuevas Estrategias Para Trasplante Hepatico con Trombosis Portal,” XXII National Transplant Congress, Queretaro, Mexico, October 2018.

Invites Speaker, “Organ Transplantation, Hispanic Transplant Program and Hepatobiliary Surgery at Northwestern Memorial Hospital,” Olympus Global Excel Conference, Mexico City, Mexico, April 2019.

Invited Speaker, XXII National Transplant Congress, Queretaro, Mexico, Transplante Hepatico en HCC, Trasplantar Lo No Trasplantable, Oct 2018.

Churyla, Andrei, MD
Panelist, “Complex Coronary Intervention I,” 5th Annual Chicago Case-Based Coronary and Structural Heart Intervention (CSI) Update, Northwestern University, Chicago, IL, October 2018.


Teacher, “Lead Extraction for the CT Surgeon,” Chicagoland CT Fellows Conference, Phillips IGTD, Chicago, IL, August 2018.
Cox, James, MD


“Implications of Maze for Arrhythmology and Surgery,” “Pathophysiology of Atrial Fibrillation,” AMICS Symposium, Moscow, Russia, November 15-17, 2018.

Invited Speaker, “Past, Present, and Future of Surgery for Atrial Fibrillation,” Cardiology Grand Rounds at Northwestern University, Chicago, IL October 8, 2018.


Invited Speaker, “The Management of AF and the LAA in Patients Undergoing CABG, AVR, and MVR/r,” Medical University of South Carolina, Charleston, SC, November 6, 2018.


Visiting Professor, “The Electrophysiologic Basis of Concomitant Surgery for Atrial Fibrillation,” University of Vienna, Vienna, Austria, August 28-30, 2018.


Dumanian, Gregory, MD


Dumanian, Gregory, MD


“Mesh Suture and Abdominal Wall Reconstruction,” Breast surgery and body contouring symposium, Austin, TX, July 21, 2018.

“Mesh Suture and Complex Abdominal Wall Reconstruction,” “TMR successfully treats neuroma pain and phantoms in major limb amputees: A randomized clinical trial,” QMP Reconstruction Symposium, Chicago, IL, September 17, 2018.


“TMR successfully treats neuroma pain and phantoms in major limb amputees: A randomized clinical trial,” Congress of Neurologic Surgeons, Houston, TX, October 11, 2019.


“What’s new in peripheral nerve surgery,” American Association of Plastic Surgeons, Baltimore, MD, April 6-9, 2019.

Eskandari, Mark, MD


Faculty Presentations

**Eskandari, Mark, MD (cont.)**


**Etkin, Caryn, PhD**


**Feingold, Kim, PhD**


Invited Speaker, “Emotions and the heart,” Adult Congenital Heart Disease Education Day, Chicago, IL, August 2018.

Invited Speaker, “Heart-Mind Connection,” 12th Annual Women’s Cardiovascular Health Symposium, Chicago, IL, April 2019.

Feingold, Kim, PhD (cont.)


Gordon, Elisa, PhD, MPH


Invited Speaker, “Patients’ Perspectives on Informed Consent for Deceased Donor Organ Intervention Research,” MacLean Center for Clinical Medical Ethics Annual Fellows Conference, University of Chicago, Chicago, IL, November 10, 2018.


Invited Speaker, “Use of Mobile Technologies to Improve At-Risk Candidate and Recipient Engagement,” Cutting Edge of Transplantation (CEOT), Phoenix, AZ, February 20, 2019.

Invited Speaker, “Informed Consent in VCA. Plenary session on Challenges and Opportunities in VCA,” Ethical, Legal and Psychosocial Aspects of Organ Transplantation (ELPAT) 5th Annual Conference, Krakow, Poland, April 28, 2019.


Invited Speaker, “Improving Healthcare Equity: Lessons Learned from Implementing Culturally Competent Transplant Care,” Université de Montréal. CRCHUM. Programme de transplantation d’organes, Montreal, Canada, May 17, 2019.


Grady, Kathleen, PhD

“Cardiovascular Quality of Care and Outcomes Research,” 44th Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC), Lake Tahoe, CA, August 2018.


“Quality of Life Considerations in Heart Failure,” 5th Annual Full Spectrum of Heart Failure Therapy: Optimizing Outcomes, University of Washington, Seattle, WA, October 2018.

“Quality of Life Research in Cardiovascular Disease,” 44th Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease (sponsored by the AHA & CDC), Lake Tahoe, CA, August 2018.
Faculty Presentations

Grady, Kathleen, PhD
“Palliative Care and Hospice for MCS Patients,” Canadian Cardiac Transplant Network, Orlando, FL, April, 2019.
“Psychosocial evaluation of adult cardiothoracic transplant candidates and candidates for long-term mechanical circulatory support,” Dimensions of Transplantation, Chicago, IL, March 2019.

Psychosocial evaluation of adult cardiothoracic transplant candidates and candidates for long-term mechanical circulatory support, OptumHealth, Scottsdale, AZ, April 2019.


Hansen, Nora, MD


Speaker, Diagnostic Management of Lobular Carcinoma In Situ (LCIS): Core Biopsy Alone vs. Core Biopsy Plus Excision for LCIS and Pleomorphic LCIS,” American College of Surgeons Clinical Congress, Boston, MA, October 21, 2018.

Hartz III, Wilson, MD

Ho, Karen, MD


Ho, Karen, MD (cont.)


“Introduction of John Varga, MD for Mentor of the Year Mentoring Workshop, Northwestern University, Chicago, IL, March 13, 2019.


Ngo, K. L., Helenowski, I. B., Zamor, K., Scott, M., Hoel, A. W., Ho, K. J., “Predictors and consequences of loss to follow-up after vascular surgery,” Edelstone-Bendix Day, William H Pearce, MD Research Symposium, Department of Surgery, Northwestern University, Chicago, IL, June 21, 2019. (Medical Student Clinical Research Award)

Nooromid, M. J., Xiong, L., Chen, E. B., Shapiro, K. E., Wun, K., Jian, W., Eskandari, O. M., Ho, K. J., “Regulation of neointimal hyperplasia by Free Fatty Acid Receptor 3,” Edelstone-Bendix Day, William H Pearce, MD Research Symposium, Department of Surgery, Northwestern University, Chicago, IL, June 21, 2019.


Shapiro, K. E., Jiang, Q., Carpenter, C. D., Chen, E. B., Xiong, L., Muller, W. A., Ho, K. J., “Free fatty acid receptor 3 modulates endothelial response to injury,” Cardiovascular Research Day, Feinberg Cardiovascular and Renal Research Institute, Northwestern University, Chicago, IL, May 29, 2019.

Shapiro, K. E., Jiang, Q., Carpenter, C. D., Chen, E. B., Xiong, L., Muller, W. A., Ho, K. J., “Free fatty acid receptor 3 modulates endothelial response to injury,” Edelstone-Bendix Day, William H Pearce, MD Research Symposium, Department of Surgery, Northwestern University, Chicago, IL, June 21, 2019. (Medical Student Basic Science Award)

Shapiro, K. E., Jiang, Q., Carpenter, C. D., Chen, E. B., Xiong, L., Muller, W. A., Ho, K. J., “Free fatty acid receptor 3 modulates endothelial response to injury,” Illinois Surgical Conference Research Day, Chicago, IL, April 27, 2019.

Shapiro, K. E., Jiang, Q., Carpenter, C. D., Chen, E. B., Xiong, L., Muller, W. A., Ho, K. J., “Free fatty acid receptor 3 modulates endothelial response to injury,” 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 4, 2019.

Son, A. Y., Ngo, Khanh, L., Joung, H. S., Guerra, A., Karim, A. S., McGregor, R., Pham, D. T., Ho, K. J., “Limb ischemia and bleeding in patients placed on extracorporeal membrane oxygenation,” Edelstone-Bendix Day, William H Pearce, MD Research Symposium, Department of Surgery, Northwestern University, Chicago, IL, June 21, 2019. (Junior Resident Clinical Research Award)


Faculty Presentations

**Ho, Karen, MD (cont.)**

**Hoel, Andrew, MD**


**Hong, Seok Jong, PhD**


**Hu, Yue-Yung, MD, MPH**
“National Evaluation of Gender Discrimination and Sexual Harassment in U.S. General Surgery Residency Programs/Plenary Presentation (abstract),” Academic Surgical Congress, Houston, TX.

**Hummel, Mary, PhD**


**Hunter, Catherine, MD**

**Katariya, Nitin, MD**

**Khan, Seema, MD**


“More than skin-deep: transdermal delivery of breast cancer prevention drugs,” Breast Oncology Seminar Series, Dana Farber Cancer Institute, Harvard University, Cambridge, MA, September 2018.

**Kim, John, MD**


Invited Speaker, “Taking the Bull By the Horns: Embracing Radiation in Breast Reconstruction Annual Atlanta Breast Surgery Symposium, Atlanta, GA, 2019.”
Kim, John, MD (cont.)


Ko, Jason, MD


Faculty, “Nerve Transfer Surgery: The (New) Frontier for Brachial Plexus Injuries and Beyond,” Grand Rounds, Department of Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL, February 7, 2019.

**Faculty Presentations**

**Ko, Jason, MD (cont.)**


Moderator and Faculty, “Metacarpal Fractures: When to Pin, When to Do ORIF,” Instructional Course, American Society of Plastic Surgeons Annual Meeting, Chicago, IL, October 1, 2018.


**Kulkarni, Swati, MD**
“Breast Tumor Board,” Association of VA Hematology/Oncology Annual Meeting, Chicago, IL, September 2018.

Invited Speaker, “Managing Margins of Invasive and Noninvasive Breast Cancer,” The Shenzhen People’s Hospital, Shenzhen, China, November 2018.

Invited Speaker, “Clinical Trials,” The Shenzhen People’s Hospital, Shenzhen, China, November 2018.


**Ladner, Daniela, MD, MPH**

Invited Speaker, “Medication Adherence - Take IT Study,” NUTORC Seminar Series, Northwestern University, April 2019.


**Lautz, Timothy, MD**


Polites, S., Dasgupta, R., Heaton, T., LaQuaglia, M., Kim, E., Barry, W., ... Lautz, T. B., ... Jenkins, T., “Pneumonectomy for pediatric tumors—a Pediatric Surgical Oncology Research Collaborative study,” American Academy of Pediatrics, National Conference & Exhibition, Orlando, FL, October 2018.


Lautz, Timothy, MD (cont.)
Vasudevan, S., Ha, T., Heaton, T., LaQuaglia, M., Barry, W., Kim, E., ... Lautz, T. B., ...Dasgupta, R., “Pancreaticoduodenectomy for the treatment of pancreatic neoplasms in children: a Pediatric Surgical Oncology Research Collaborative study,” American Academy of Pediatrics, National Conference & Exhibition, Orlando, FL, October 2018.


Ledwon, Joanna, PhD


Lee, Oukseub, PhD


Lemoine, Caroline, MD
“Hepatoblastoma and Hepatocellular Carcinoma,” Pediatric Surgery Fellowship Teaching Curriculum, Ann & Robert H. Lurie Children’s Hospital of Chicago, IL, October 2018.


Faculty Presentations

**Lemoine, Caroline, MD (cont.)**


**Leventhal, Joseph, MD, PhD**


**Malaisrie, S. Chris, MD**


“Pulmonary Embolectomy for Acute PE,” Lurie Children’s Hospital Chicagoland Perfusion Foundation Meeting, Chicago, IL, February 2, 2019.


**Mathew, James, PhD**
Mathew, James, PhD (cont.)


McCarthy, Patrick, MD


Case Presenter: Case Challenges: The Mitral Clinic. ACC/AATS 2018 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2018.


McCarthy, Patrick, MD (cont.)


**McCarthy, Patrick, MD (cont.)**


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**Odell, David, MD, MMSc**


Moderator, Outcomes Research Quickshots - Scientific Session, Academic Surgical Congress, January 30, 2018, Jacksonville, FL.


Speaker, “Surviving your first night on call – Acute Respiratory Failure,” American Association for Thoracic Surgery, Annual Meeting Course, April 27, 2018, San Diego, CA.


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**Merkow, Ryan, MD, MS**


Invited Speaker, American College of Surgeons Health Services Research Methods Course, Chicago, IL, December 2018.

Invited Speaker, Hepato-pancreato-biliary SSO Complex General Surgical Oncology Board Exam Review Course, Chicago, IL, January 2019.

Session Chair, “Application of Patient Reported Outcomes in Surgical Quality Assessment,” Annual Academic Surgical Congress, Houston, TX, February 2019.


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**Pham, Duc Thinh, MD**


“Cardiogenic Shock from Right Ventricular Failure: Mechanical Support Options,” Advances in Pulmonary Hypertension, Chicago, IL, August 2018.


Faculty Presentations

Pham, Duc Thinh, MD (cont.)


“Surgical experience with HVAD,” Osaka University Department of Cardiology Grand Rounds, March 2019.


Poslusny, Jr, Joseph, MD


Raval, Mehul, MD


Raval, Mehul, MD (cont.)
Invited Lecturer, “Continuing Medical Education Series,” Ann & Robert H. Lurie Children’s Hospital of Chicago, Oak Brook, IL, April 2019.
Invited Panelist, “ERAS in Pediatric Surgical Specialties”, Roundtable Discussion, 7th ERAS Society World Congress, Liverpool, United Kingdom, May 2019.
Invited Speaker, “Implementation and Outcome Metrics in Pediatric ERAS”, 7th ERAS Society World Congress, Liverpool, United Kingdom, May 2019.
Invited Speaker, “Opioids and Children’s Surgery”, ACS NSQIP Pediatric Surgeon Champion Call, American College of Surgeons, Chicago, IL, June 2019.
Piper, K., Baxter, K. J., Wetzel, M., McCracken, C., Travers, C., Slater, B., ... Raval, M. V., “Provider Education Decreases Opioid Prescribing After Pediatric Umbilical Hernia Repair,” 14th Annual Academic Surgical Congress, Education QuickShot Session 3, Houston, TX, February 2019.
Session moderator, 14th Annual Academic Surgical Congress, Education QuickShot Session 1, Houston, TX, February 2019.
Reynolds, Marleta, MD


Rodriguez, Heron, MD
Invited Speaker, “Aortic Aneurysms,” III Symposium of Angiology and Vascular Surgery for Medical Students, Universidad Nacional Autonoma de Mexico, Mexico City, Mexico, April 10, 2019.


Invited Speaker, “Isolated Spontaneous Mesenteric Artery Dissections (Of SMA And Celiac Axis): Etiology, Natural History, Diagnosis and Treatment: Most are Benign,” VEITH Symposium, New York, NY, November 13, 2018.

Roitberg-Tambur, Anat, DMD, PhD


Invited Speaker, “Sensitization in Transplantation; Assessment of Risk,” Immunocor, Austin, TX, June 2019.


Invited Speaker, “New Methods of HLA antibody analysis,” International Renal and Transplant Symposium, Manila, PH, August 2018.


Rowell, Erin, MD

“Current Options in Pediatric Fertility Preservation,” Near North Health System Pediatric Surgery Speaker Series, Chicago, IL, April 18, 2019.


Schwulst, Steven, MD
Schwulst, Steven, MD (cont.)
Invited Speaker, “Recent Developments in the Surgical Management of Complicated Intra-Abdominal Infection,” Bao’an People’s Hospital, Shenzhen, China, December 9, 2018.

Invited Speaker, “Damage Control Resuscitation,” Bao’an People’s Hospital Department of Critical Care Medicine Grand Rounds, Shenzhen, China, December 9, 2018.


Shaaban, Aimen, MD
“Allo-specific NK cells differentially regulate T cell allo-immunity depending on prenatal education.” American Association of Immunologists, San Diego, California, May 9, 2019.

“Innovation in Fetal Surgery”, Department of Surgery Grand Rounds, Loyola University Medical Center, October 17, 2018.

Shapiro, Michael, MD
Holmstrom AL, Weiss H, Ott KC, Ellis RJ, Shapiro MB, Yang AY. Association Between Encounter Severity and Failure to Perform the Trauma Tertiary Survey. Academic Surgical Congress. Houston, TX, February 5, 2019.

Simpson, Dinee, MD


Soper, Nathaniel, MD
Invited Lecturer, Thomas J. Whelan Visiting Professor, University of Hawaii, Honolulu, HI, October 12, 2018.


Invited Panelist, “Negotiating Job Offers,” Winter HSOR/HSIP Professional Development Seminar, Northwestern University, Feinberg School of Medicine, Chicago, IL, January 9, 2019.


Invited Speaker, “Leadership from a Chair’s Perspective: Lessons Learned,” ACS Surgeons as Leaders: From Operating Room to Boardroom Meeting, Durham, NC, April 30, 2019.


Strong, Scott, MD
Strong SA. Taking your research idea from concept to reality. American Society of Colon and Rectal Surgeons. Cleveland, Ohio; June 2019.


Faculty Presentations

**Strong, Scott, MD (cont.)**


Strong SA. Crohn’s colitis: Total colectomy. Advances in Inflammatory Bowel Disease. Orlando, Florida; December 2018.

Strong SA. Managing Crohn’s disease patients with intraabdominal complications (panelist). Advances in Inflammatory Bowel Disease. Orlando, Florida; December 2018.

Strong SA. Pain management in IBD (panelist). Advances in Inflammatory Bowel Disease. Orlando, Florida; December 2018.

Strong SA. Total neoadjuvant therapy for rectal cancer. Shanghai Lujiazui International Summit Forum for Colorectal Cancer. Shanghai, China; December 2018.

**Stulberg, Jonah, MD, PhD, MPH**
Guest Lecturer, “Hernia,” Northwestern University Feinberg School of Medicine, Chicago, IL, September 2018.


Invited Speaker, “Best practices in Post-Surgical Opioid Use,” Opioid Reduction Efforts in Cardiac Surgery, Northwestern Memorial Hospital, Chicago, IL, February 27, 2019.


Invited Speaker, “Combating the Opioid Crisis: The Surgery Perspective,” Institute for Public Health and Medicine (IPHAM) Seminar Series, Northwestern University Feinberg School of Medicine, Chicago, IL, February 28, 2019.


Invited Speaker, “NM System Opioid Project – Reducing Opioid Prescribing at Hospital Discharge in General Surgery,” Department of Surgery Meeting, Northwestern Medicine Kishwaukee Hospital, DeKalb, IL, September 12, 2018.

Invited Speaker, “NM System Opioid Project—Reducing Opioid Prescribing at Hospital Discharge in General Surgery,” Interprofessional Grand Rounds: The Opioid Crisis and How We Need to Change Our Practice (webinar), Northwestern Medicine Lake Forest Hospital, Lake Forest, IL, November 20, 2018.
Stulberg, Jonah, MD, PhD, MPH (cont.)
Invited Speaker, “NM System Opioid Project - Reducing Opioid Prescribing at Hospital Discharge in General Surgery,” Surgical-Medical Meeting, Northwestern Medicine Valley West Hospital, Sandwich, IL, August 29, 2018.


Invited Speaker, “Managing the Costs and Consequences of Primary Hyperparathyroidism,” American Association of Endocrine Surgeons 40th Annual Meeting, Los Angeles, CA, April 7, 2019.


Panelist, “Life as an Academic Clinician,” Northwestern University Feinberg School of Medicine, Chicago, IL, July 2019.

Sturgeon, Cord, MD
“Disease and Treatment-Related Factors that Impact Financial Burden and Health-Related Quality of Life in Endocrine Surgery Patients,” University of Pittsburgh Medical Center Grand Rounds, Pittsburgh, PA, February 20, 2019.

“Managing the Costs and Consequences of Primary Hyperparathyroidism,” American Association of Endocrine Surgeons 40th Annual Meeting, Los Angeles, CA, April 7, 2019.


“Thyroid, Parathyroid and Neck Ultrasound Course,” American College of Surgeons Clinical Congress, Boston, MA, October 21, 2018.

Swaroop, Mamta, MD
Panelist, SAFE (Scrubs Addressing the Firearms Epidemic) Multidisciplinary Panel, Northwestern University, Chicago, IL, September 2018.


Invited Lecturer, Bolivian Trauma Initiative: The Analysis, Institute for Public Health and Medicine, Northwestern University, December 2018.

Invited Speaker, #thisisourlane, Institute of Medicine Chicago Annual Recognition and Holiday Event, Chicago, IL, December 2018.

Invited Panelist, The Center for Global Health: Reflections on the 10 Year Anniversary, Institute for Public Health and Medicine, Northwestern University, February 2019.

Carly L Williams, John Sincavage, Chheyran Im, Simon Stock, Mamta Swaroop. Prehospital Care in Cambodia: Can we Break down Barriers with Bystander Interventions? Presentation by Carly Williams. Presented at CCOT Resident/Medical Student trauma Paper Competition, Northwestern University, Chicago, IL.

Continued on next page
Faculty Presentations

**Swaroop, Mamta, MD (cont.)**

Hannah Weiss, Danby Kang, Samuel South, Jonathan Vacek, Roxanna M Garcia, Mamta Swaroop. Teaching Applied Combat Tourniquets Versus Improvised Civilian (TACTIC) Trial. Presentation by Hannah Weis. Presented at CCOT Resident/Medical Student trauma Paper Competition, Northwestern University, Chicago, IL.


Grand Rounds, TRUE (Trauma responders Unify to Empower) Communities: An Evolution of Empowerment, Department of Surgery, University of Utah, December 2018.

Invited Lecturer, Pillion Riders in New Delhi: Helmet Use and Patterns of Injury, Center for Global Surgery, University of Utah, December 2018.

Global Surgery Lecturer, Flexner Deans’ Lecture Series, Vanderbilt School of Medicine, Nashville, TN, February 2019.


L Tatebe, D Ferrer, M Saeed, D Kang, M Swaroop. Impact of Trauma Responders Unify to Empower (TRUE) Communities Course in Chicago High Schools. ORAL presentation Academic Surgical Council 2019, Houston, TX.

Chintan Pathak, Selma Siddiqui, Sushma Sagar, Mamta Swaroop. Helmet Usage in New Delhi: Revision of the Exemption. ORAL presentation Academic Surgical Council 2019, Houston, TX.

Erica Ludi, Esteban Foianini, Joaquin Monasterio, Samuel South, Marissa Boeck, Mamta Swaroop. Geriatric Trauma in Santa Cruz, Bolivia. QUICKSHOT ORAL presentation Academic Surgical Council 2019, Houston, TX.


**Teitelbaum, Ezra, MD, ME d**

**Teitelbaum, Ezra, MD, Med (cont.)**


**Tomita, Tadaki, MD**


**Vavra, Ashley, MD**
Vavra, AK, “Peripheral arterial access and complications of extracorporeal membrane oxygenation (ECMO) and temporary ventricular assist devices,” 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6, 2018


**Wertheim, Jason, MD, PhD**


**Yamada, Akira, MD, PhD**
“Auricular Construction - Spiral Curve is the Key,” Grand Rounds at University of Chicago Plastic Surgery, Department of Plastic Surgery, Chicago, IL, March 20, 2019.

“Auricular Construction - Spiral Curve is the Key,” Grand Rounds at Northwell Health Plastic Surgery, Department of Plastic Surgery, Long Island, NY, April 4th, 2019.

“Auricular Construction - Spiral Curve is the Key,” Pediatric Pearls Spring-Otolaryngology Continuing Medical Education Series 2018-2019, Chicago, IL, April 9, 2019.


“Ear amputation by do bite- spiral curve is the key,” Pediatric Surgery Grand Rounds at Lurie Children’s Hospital, Chicago, IL, July 8, 2019.


Instructor, Microtia Workshop, American Society of Facial Plastic Surgery Annual Meeting, October 17th 2018, Dallas, TX, October 17, 2018.


Microtia hands-on Workshop, ICPF (International 2019), Nagoya, Japan July 26, 2018.
Faculty Presentations

**Yamada, Akira, MD, PhD (cont.)**


Microtia Hands-on Workshop, Northwestern University, Plastic Surgery, April 27, 2019.


**Yang, Anthony, MD, MS**


Invited Speaker. “Breast Cancer QI Collaborative.” Clinical Cancer Center Executive Council (CCCEC), Northwestern Memorial Hospital, Chicago, IL, January 16, 2019.


Faculty Publications

Abdullah, Fizan, MD, PhD


Abecassis, Michael, MD, MBA


Abecassis, Michael, MD, MBA (cont.)

Barsness, Katherine, MD, MS

Bharat, Ankit, MBBS


Bharat, Ankit, MBBS (cont.)


Bilimoria, Karl, MD, MS


Faculty Publications

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


**Borja-Cacho, Daniel, MD**

**Caicedo-Ramirez, Juan C., MD**


**Chin, Anthony, MD**

**Churyla, Andrei, MD**


**Cox, James, MD**


Cox, James, MD (cont.)


Dumanian, Gregory, MD


Eskandari, Mark, MD


Eskandari, Mark, MD (cont.)


Etkin, Caryn, PhD


Etkin, Caryn, PhD (cont.)


Fryer, Jonathan, MD


Goldstein, Seth, MD

Gordon, Elisa, PhD, MPH


Facility Publications

Gordon, Elisa, PhD, MPH (cont.)


Grabowski, Julia, MD


Grady, Kathleen, PhD

Grady, Kathleen, PhD (cont.)


Hansen, Nora, MD


Ho, Karen, MD


Faculty Publications

Ho, Karen, MD (cont.)

Hoel, Andrew, MD


Hong, Seok Jong, PhD


Zhao, J., Xie, P., Galiano, R. D., Qi, S., Mao, R., Mustoe, T. A., Hong, S. J. (2019). Imiquimod-induced skin inflammation is relieved by knockdown of sodium channel Na\textsuperscript{x} Experimental Dermatology, 28(5), 576-584.

Hu, Yue-Yung, MD, MPH


Hummel, Mary, PhD

**Hunter, Catherine, MD**


**Johnson, Julie, MSPH, PhD**


Knight, A. W., Dhillon, M., Smith, C., **Johnson, J. K.** (2019). A quality improvement collaborative to build improvement capacity in regional primary care support organizations. *BMJ Open Quality, 8:e000684.*


O’Leary, K. J., **Johnson, J. K.** Manojlovich, M., Goldstein, J. D., Lee, J., & Williams, M. V. (2019). Redesigning systems to improve teamwork and quality for hospitalized patients (RESET): Study protocol evaluating the effect of mentored implementation to redesign clinical Microsystems. *BMC health services research, 19*(1), [293].


Faculty Publications

Johnson, Julie, MSPH, PhD (cont.)

Kabre, Rashmi , MD


Katariya, Nitin, MD


Khan, Seema, MD


**Khan, Seema, MD (cont.)**


**Kim, John, MD**


**Ko, Jason, MD**


Facility Publications

Kulkarni, Swati, MD

Ladner, Daniela, MD, MPH


Lautz, Timothy, MD


Lee, Oukseub, PhD


Lemoine, Caroline, MD


Leventhal, Joseph, MD, PhD


Mathew, James M, PhD


McCarthy, Patrick MD


McCarthy, Patrick, MD (cont.)


Merkow, Ryan, MD, MS


Faculty Publications

Merkow, Ryan, MD, MS (cont.)


Nakano, Jota, MD

Odell, David, MD, MMSc


Pham, Duc Thinh, MD
Kaplan, R. M., Yadlapati, A., Cantey, E. P., Passman, R. S., Gajjar, M., Knight, B. P., ... Pham, D. T., ... Flaherty, J. D. (2019). Conduction recovery following pacemaker implantation after transcatheter aortic valve replacement. PACE - Pacing and Clinical Electrophysiology, 42(2), 146-152.


Pinelli, David, PhD

Posluszny, Jr, Joseph, MD

Raval, Mehul, MD
Raval, Mehul, MD


Reynolds, Marleta, MD


Rodriguez, Heron, MD


Roitberg-Tambur, Anat, DMD, PhD


Rowell, Erin, MD


Schneider, Joseph, MD, PhD


Schwulst, Steven, MD


Shaaban, Aimen F, MD

Soper, Nathaniel, MD
Soper, Nathaniel, MD (cont.)


Strong, Scott, MD


Fleshner P, Hyman N, Strong S, eds. Mastery of IBD Surgery

Stulberg, Jonah, MD, PhD, MPH


Sturgeon, Cord, MD


Swaroop, Mamta, MD

Swaroop, Mamta, MD (cont.)


Erica Ludi, Marissa Boeck, Samuel South, Joaquin Monasterio, Mamta Swaroop, Esteban Foianini. Geriatric Trauma in Santa Cruz, Bolivia. In press JSR.

Teitelbaum, Ezra, MD, MEd


Faculty Publications

Tomita, Tadaki, MD


Vavra, Ashley, MD

Wayne, Jeffrey, MD


Wertheim, Jason, MD, PhD


Wu, Qiang, PhD


Yamada, Akira, MD, PhD
Yamada, Akira, MD, PhD (cont.)


Yang, Anthony, MD, MS


Odell DD, Quin CM, Matulewicz RS, Johnson J, Engelhardt KE, Yang AD. Bilimoria KY “Association Between Hospital Safety Culture and Surgical Outcomes in a Statewide Surgical Quality Improvement Collaborative.” Journal of the American College of Surgeons. 2019;1134. PMID: 30862538