

Department of Surgery

2018-2019



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Letter from the Chair



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,

A handwritten signature in black ink, reading "Howard B. Chrisman". The signature is fluid and cursive, with a large, stylized initial "H" and "C".

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



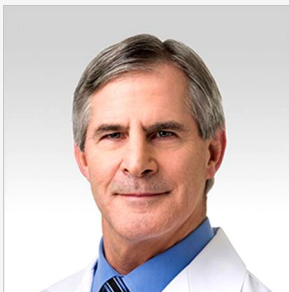
Amy Halverson, MD
Vice Chair, Surgical Education
Surgery Clerkship Director



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

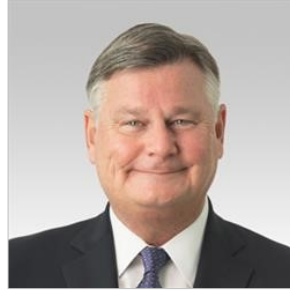


Yue-Yung Hu, MD, MPH
Associate Program

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



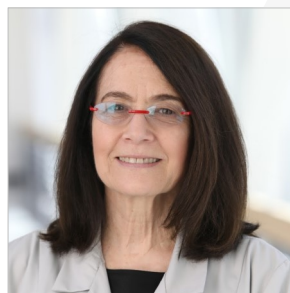
Michael Shapiro, MD
Chief, Trauma & Critical Care



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."



90

Clinical Faculty



22

Research Faculty



61

Contr. Services/
Adjunct Faculty

Providing Excellent Clinical Care...

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

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...

72 Residents	
28 General (Categorical)	8 General (Prelim)
8 General (Research)	14 Plastic
7 Cardiothoracic	7 Vascular
21 Fellows	
2 Breast	2 Trauma/Critical Care
4 Transplant	4 Vascular
6 Cardiac/Cardiothoracic	3 Pediatric

Faculty Promotions



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



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



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



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



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



Jason Wertheim, MD, PhD, *Division of Transplant Surgery*, awarded tenure as Associate Professor of Surgery.



Faculty Expansion



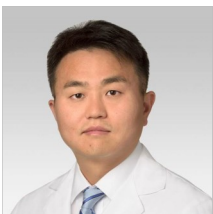
Amir Alhajjat, MD, was appointed as Assistant Professor in the **Division of Pediatric Surgery** on the Clinician-Educator career track. He is a pediatric surgeon and specialist in the area of surgical fetal intervention. He completed a two-year pediatric surgery fellowship at Phoenix Children's Hospital/Mayo 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 Pittsburgh 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.

Faculty Expansion



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.

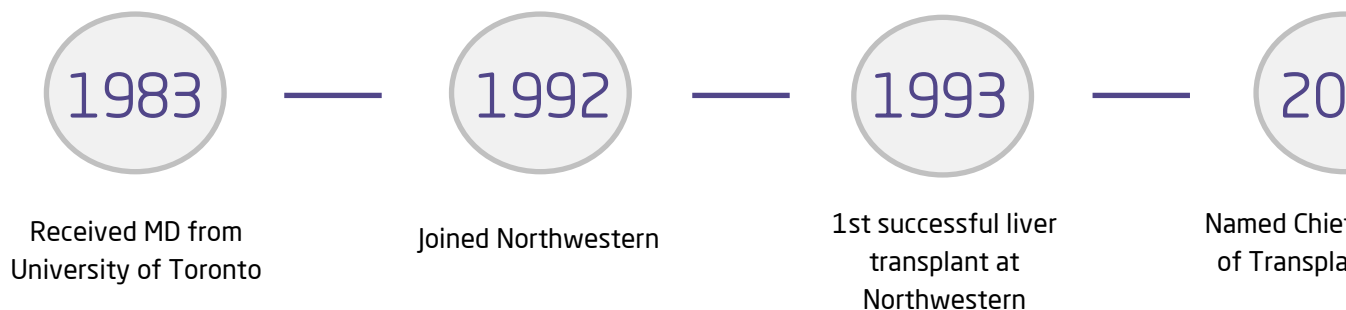
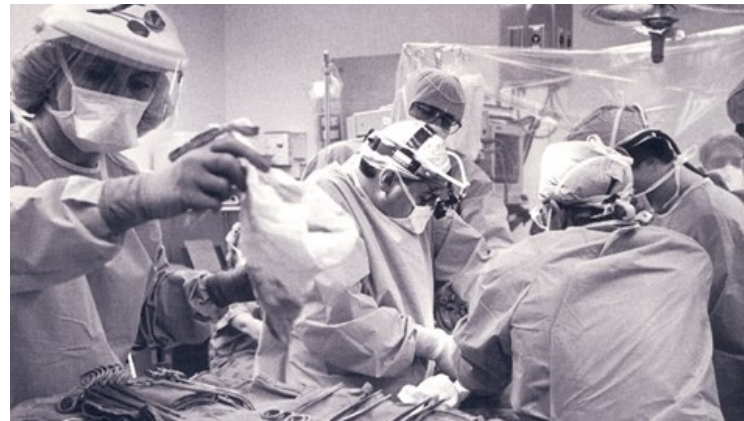
Abecassis Named Dean of University of Arizona College

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.



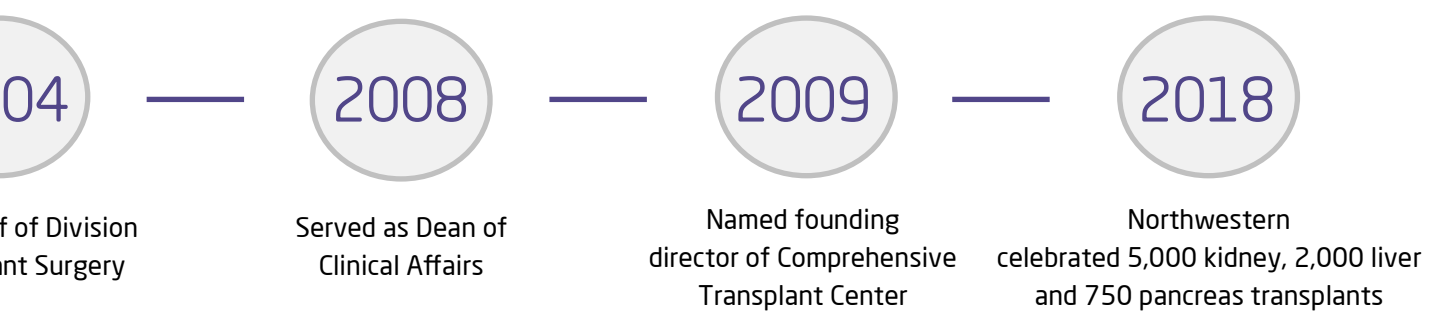
Department of Medicine - Tucson

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



Education Award Named in Dr. Jonathan Fryer



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.



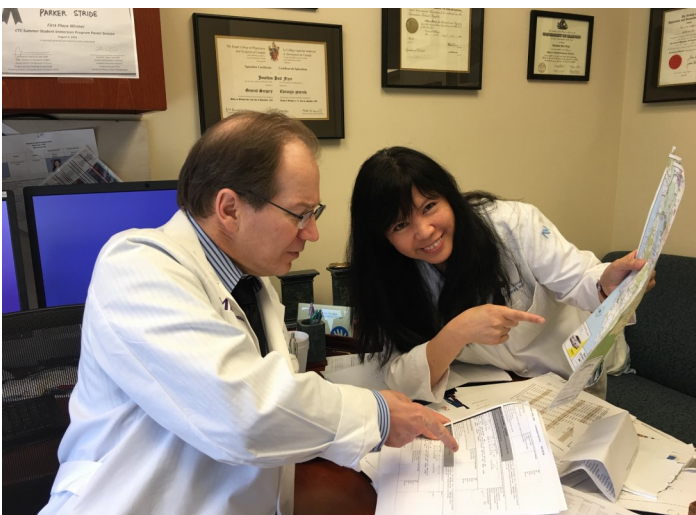
Dr. Fryer with faculty and staff of the Comprehensive Transplant Center

*"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 NMAApp 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



Surgical Education

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.



Mohamed Elsheikh



Clare Charbonnet (second from right)

Class of 2019 General Surgery Residency Matches	
Name	Program
Clare Charbonnet	Case Western/Univ Hospitals
Mohamed Elsheikh	Oregon Health & Science Univ.
Samuel Ho	UCF Com/GME Consortium
Joy Liang	Eisenhower Army Medical Center
Yujin Park	Indiana University SOM
Jordan Rook	UCLA Medical Center
Jes Sanders	Northwestern McGaw
Michael Shockley	UCF Com/GME Consortium
Noah Weingarten	Cleveland Clinic
Peter Zhan	Yale - New Haven Hospital



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

THORACIC SURGERY

Stephen Chiu

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)

Surgical Education

2019 Edelstone-Bendix Day

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. Kanel 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 Cryopreservation," 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.



*Left to right:
Dr. Ezra Teitelbaum
Dr. Brian Brajcich
Dr. Matt Snyder
Dr. Bill Readdy
Dr. Emily Cerier
Dr. Michael Nooromid
Dr. Amy Holmstrom*

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

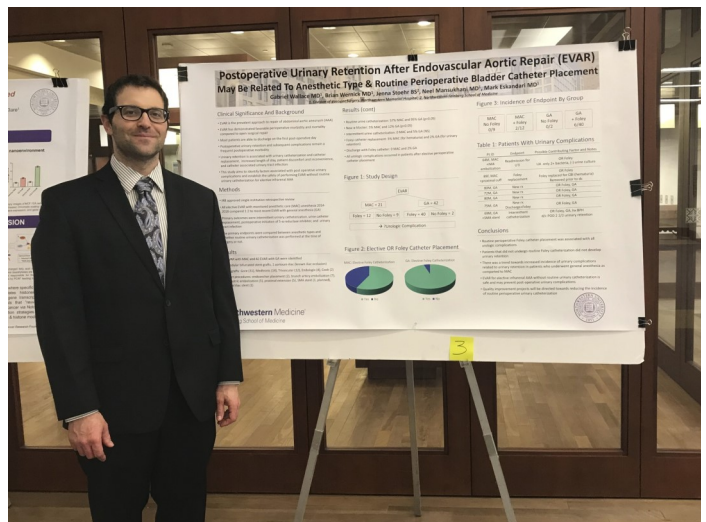
- Brian Craig, MD (Pediatric Surgery)
- Alex Johnston, MD (Critical Car)
- Anthony Mozer, MD (Thoracic Surgery)
- Gabe Wallace, MD (Vascular Surgery)



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



Medical student Jason Linh Ngo Khanh

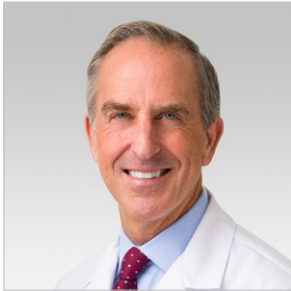


Dr. Gabriel Wallace

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:



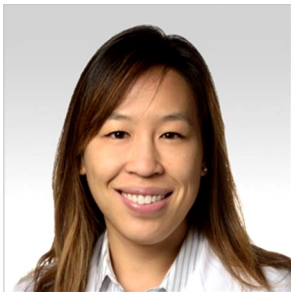
Kevin Bethke, MD*
Breast Surgery



Derrick Christopher, MD, MBA
Transplant Surgery



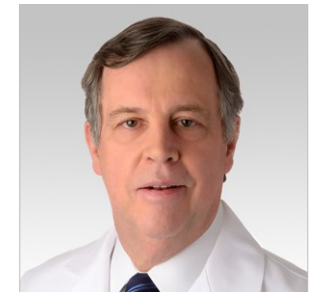
Amy Halverson, MD*
GI Surgery



Yue-Yung Hu, MD, MPH
Pediatric Surgery



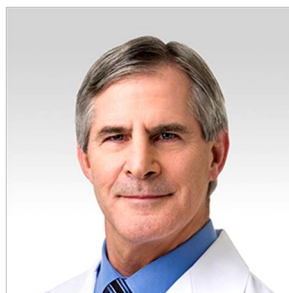
Nabil Issa, MD*
Trauma/Critical Care Surgery



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

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

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

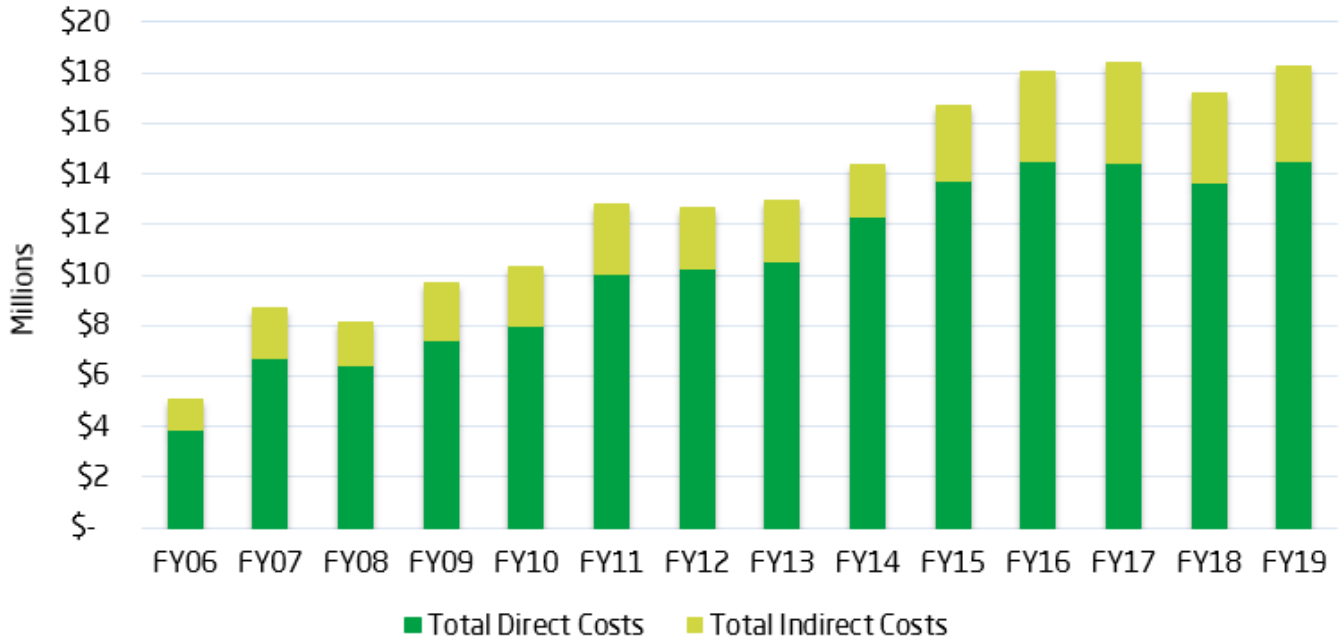
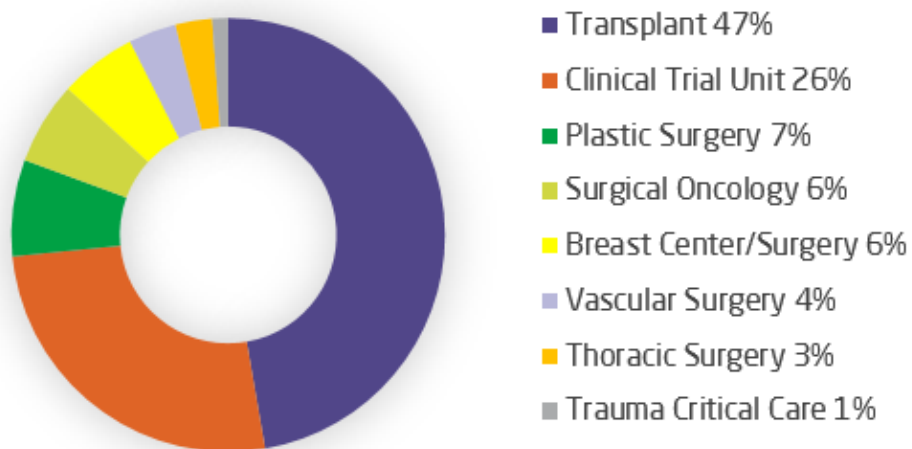


Figure 2. Research Expenditures by Division





By the Numbers

\$75.4M

Proposals Requested

\$20.6M

Total Grant Funding Awarded

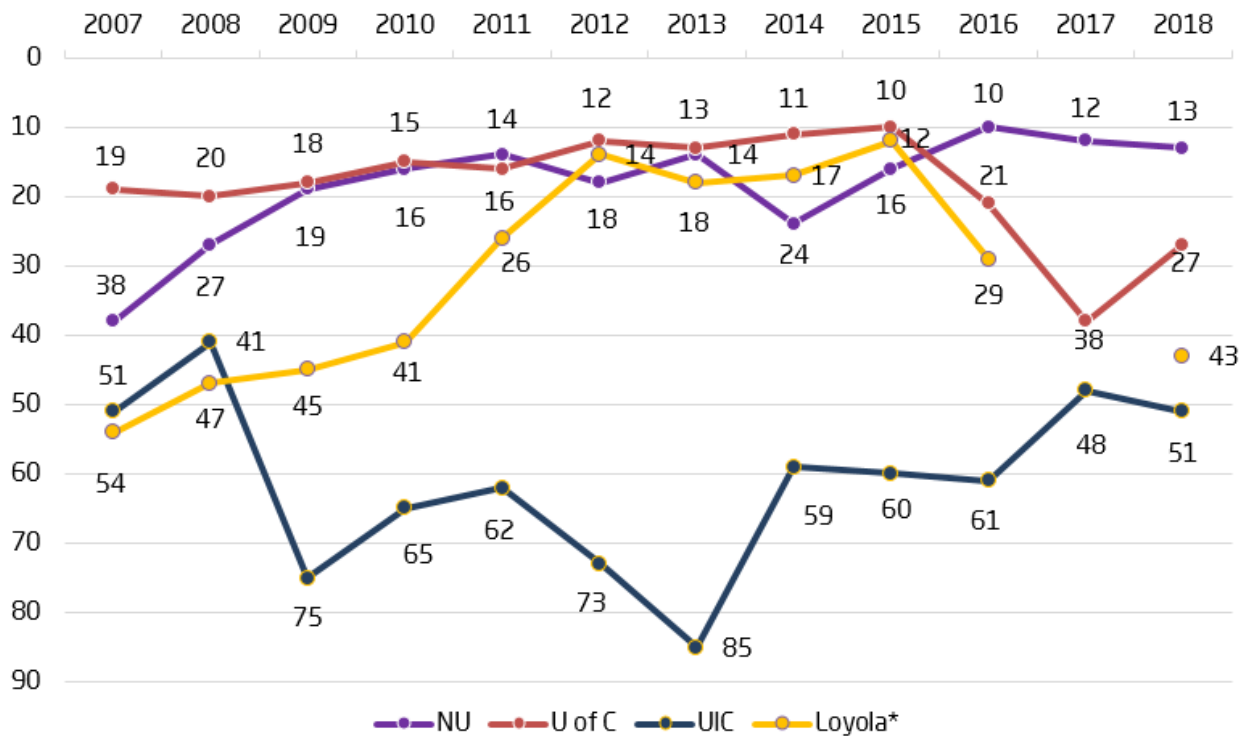
\$15.2M

Amount of Research Expenditures

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

Prin. Investigator	Proposal Title	Amount	Sponsor
BREAST SURGERY			
Seema Khan, MD	Determinants of Transdermal Drug Delivery to the Normal and the Radiated Breast	\$374,669	National Cancer Institute
Seema Khan, MD	Pre-Clinical and Clinical Studies of Breast Cancer Prevention with Transdermal Anti-Progesterone Agents	\$250,000	Breast Cancer Research Foundation
Swati Kulkarni, MD	Real-Time Volumetric Specimen Imager for 3D Intra-Operative Lumpectomy Margin Assessment	\$82,069	National Cancer Institute (via Clarix Imaging Corporation)
Swati Kulkarni, MD	Preventing Tumor Progression in Women with High-Risk DCIS	\$39,795	University of California, Office of the President (via UCSF)
CLINICAL TRIALS UNIT			
S. Chris Malaisrie, MD	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	\$818,926	Edwards Lifesciences LLC
Duc Thinkh Pham, MD	Product Surveillance Registry (PSR)	\$770,559	Medtronic, Inc.
Kathleen Grady, PhD	Mechanical Circulatory Support: Measures of Adjustment and Quality of Life	\$675,936	National Heart, Lung, and Blood Institute
Kathleen Grady, PhD	Sustaining Quality of Life of the Aged: Heart Transplant or Mechanical Support?	\$534,178	National Institute on Aging
Patrick McCarthy, MD	Prot#CP2018-1: ICE AFIB IDE Study: AtriCure CryoICE Lesions for Persistent and Long-Standing Persistent Atrial Fibrillation Treatment during Concomitant On-Pump Endo	\$172,315	AtriCure, Inc.
Patrick McCarthy, MD	SHAPE: Seeing the Heart with AI Powered Echo	\$66,792	Bay Labs, Inc.
GI/ENDOCRINE SURGERY			
Jonah Stulberg, MD, PhD	Surgery as a Contributor to the Opioid Epidemic: A Roundtable on the Importance of Minimizing Opioid Exposure Through Standardized Approaches for Acute Pain Management	\$40,147	Venn Strategies LLC
PLASTIC SURGERY			
Seok Jong Hong, PhD	Formulations and Anti-Scare-Efficacy Testing of Topical Statins in Preclinical and Clinical Models	\$325,000	U.S. Army Medical Research and Materiel Command
John Kim, MD	Breast Implants and Immune Modulation: Does Implant Placement Promote a Lasting Systemic Immune Response Capable of Recognizing Breast Tumor Associated Antigens?	\$158,195	Allergan Sales, LLC
Robert Galiano, MD	Effect of ADBM (Advanced Decontamination Biological Material) on Wound Healing	\$136,823	Liberty BioSecurity, LLC
Robert Galiano, MD	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	\$131,243	Scarless Laboratories, Inc. (via ethica CRO Inc.)
Robert Galiano, MD	In-vivo Functional Muscle Regeneration Utilizing an Implantable Modular Bioreactor	\$97,443	U.S. Army Medical Research and Materiel Command (via Wake Forest University Health Sciences)

Newly Funded Projects (cont.)

Prin. Investigator	Proposal Title	Amount	Sponsor
PLASTIC SURGERY (cont.)			
Robert Galiano, MD	Prot#KCI.CLEANSE.CHOICE.2017.02: Hydromechanical Cleansing with V.A.C. VERAFLOR CLEANSE CHOICE Dressing and NPWTi-d vs. Collagenase Ointment in the Management of Pressure Ulcers/Injuries (ACCELERATE Trial)	\$81,780	KCI USA, Inc.
Robert Galiano, MD	Effect of ADBM (Advanced Decontamination Biological Material) on Wound Healing	\$81,073	Liberty BioSecurity, LLC
John Kim, MD	Breast Implants and Immune Modulation	\$50,000	Northwestern Memorial Hospital
Robert Galiano, MD	Effect of ADBM (Advanced Decontamination Biological Material) on Wound Healing	\$40,536	Liberty BioSecurity, LLC
Robert Galiano, MD	In-Vivo Functional Muscle Regeneration Utilizing an Implantable Modular Bioreactor	\$30,857	U.S. Army Medical Research and Materiel Command (via Wake Forest University Health Sciences)
Sumanas Jordan, MD, PhD	3D-Printed Graphene-Based Scaffolds for Muscle-Derived Satellite Cell Differentiation in Denervation Injury	\$30,000	American Association of Plastic Surgeons
John Kim, MD	A Prospective, Randomized Multi-Center Clinical Study Comparing Outcomes in Patients Undergoing Acellular Dermal Matrix (ADM) Assisted Immediate Post-Mastectomy Breast Reconstruction	\$25,000	Musculoskeletal Transplant Foundation, Inc.
Gregory Dumanian, MD	Application of Targeted Reinnervation for People with Transradial Amputation	\$8,732	National Institute of Child Health and Human Development (via Rehabilitation Institute of Chicago)
SURGICAL ONCOLOGY			
Karl Bilimoria, MD, MS	SECOND Trial	\$600,000	American College of Surgeons
David Bentrem, MD	IPA for Tom Kmiecik	\$24,049	Jesse Brown VA Medical Center
David Bentrem, MD	IPA for Meagan Shallcross	\$22,784	Jesse Brown VA Medical Center
David Bentrem, MD	IPA for Lindsey Kreutzer	\$11,392	Jesse Brown VA Medical Center
Karl Bilimoria, MD, MS	Using Patient Outcomes to Inform Surgical Education	\$7,784	National Institute on Aging (via University of Pennsylvania)
THORACIC SURGERY			
Ankit Bharat, MBBS	Pathogenesis of Lung Injury Mediated by Lung-Restricted Antibodies	\$612,434	National Heart, Lung, and Blood Institute
Ankit Bharat, MBBS	Role of Spleen Educated Monocytes in Mediating Ischemia-Reperfusion Injury Following Lung Transplant	\$592,500	National Heart, Lung, and Blood Institute
Ankit Bharat, MBBS	Donor Nonclassical Monocytes Initiate Lung Injury Following Transplantation	\$551,227	National Heart, Lung, and Blood Institute
Ankit Bharat, MBBS	High Carbon Dioxide Impairs Lung Repair	\$162,086	National Heart, Lung, and Blood Institute
Ankit Bharat, MBBS	High Carbon Dioxide Impairs Lung Repair	\$30,000	Thoracic Surgery Foundation for Research and Education

Newly Funded Projects (cont.)

Prin. Investigator	Proposal Title	Amount	Sponsor
TRANSPLANT SURGERY (cont.)			
Michael Abecassis, MD, MBA	Biorepository Core and Conversion of TruGraf Kidney	\$500,000	Eurofins Viracor, Inc.
Jason Wertheim, MD, PhD	Repairing the Kidney Endothelium via Targeted Extracellular Matrix Modifiers	\$316,000	National Institute of Diabetes, Digestive and Kidney Diseases
Jason Wertheim, MD, PhD	Repairing the Kidney Endothelium via Targeted Extracellular Matrix Modifiers	\$316,000	National Institute of Diabetes, Digestive and Kidney Diseases
Jason Wertheim, MD, PhD	Uncovering the Circulating Facotr in FSGS	\$250,169	U.S. Army Medical Research and Materiel Command
Jason Wertheim, MD, PhD	Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune Assessment of a Rodent Model of Extremity Transplantation	\$243,564	Northwestern Memorial Hospital
Jason Wertheim, MD, PhD	(Frankel Foundation Transplant Grants) Attenuation of Graft Injury Following Extremity Transplantation in Rodents	\$210,000	Northwestern Memorial Hospital
Jason Wertheim, MD, PhD	(Frankel Foundation Transplant Grants) Attenuation of Graft Injury Following Extremity Transplantation in Rodents	\$210,000	Northwestern Memorial Hospital
Jason Wertheim, MD, PhD	Operation RESTORE: Advancing a Basic Science Program in the Development of Bioartificial Tissues and Organs, in order to Repair Battlefield-Acquired Severe Soft Tissue Injuries and Chronic Organ Failure Commonly Seen in United States Veterans	\$200,000	Northwestern Memorial Hospital
Michael Abecassis, MD, MBA	Transplant Surgery Scientist Training Program	\$160,933	National Institute of Diabetes, Digestive and Kidney Diseases
Jason Wertheim, MD, PhD	Operation RESTORE: Advancing a Basic Science Program in the Development of Bioartificial Tissues and Organs, in order to Repair Battlefield-Acquired Severe Soft Tissue Injuries and Chronic Organ Failure Commonly Seen in United States Veterans	\$155,000	Northwestern Memorial Hospital
Jason Wertheim, MD, PhD	Operation RESTORE (Rehabilitative Evaluation, Surgery and Transplant Options for Restoration): Immune Assessment of a Rodent Model of Extremity Transplantation	\$153,573	Northwestern Memorial Hospital
Jason Wertheim, MD, PhD	IPA for David Ivancic	\$70,784	Jesse Brown VA Medical Center
Jason Wertheim, MD, PhD	Uncovering the Circulating Factor in FSGS	\$65,831	U.S. Army Medical Research and Materiel Command
Michael Abecassis, MD, MBA	Subproject for Transplant Surgery Scientist Training Program	\$31,337	National Institute of Diabetes, Digestive and Kidney Diseases
Anat Roitberg-Tambur, DMD, PhD	HLA Epitopes in Organ Transplantation - Clinical Applications	\$20,000	Vanguard Charitable Endowment Program
James Mathew, PhD	ITN085ST (PHARAOH) - A Phase I Trial of Autologous Regulatory T Cell Therapy for Autoimmune Hepatitis	\$16,884	National Institute of Allergy and Infectious Diseases (via Benaroya Research Institute at Virginia Mason)

Newly Funded Projects (cont.)

Prin. Investigator	Proposal Title	Award Amount	Sponsor
TRANSPLANT SURGERY (cont.)			
James Mathew, PhD	ITN085ST (PHARAOH) - A Phase I Trial of Autologous Regulatory T Cell Therapy for Autoimmune Hepatitis	\$13,529	National Institute of Allergy and Infectious Diseases (via Benaroya Research Institute at Virginia Mason)
VASCULAR SURGERY			
Mark Eskandari, MD	Vascular Surgery Scientist Training Program	\$326,448	National Heart, Lung, and Blood Institute
Karen Ho, MD	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$160,488	National Heart, Lung, and Blood Institute
Karen Ho, MD	The Role of Gut Microbiota in Neointimal Hyperplasia After Vascular Injury	\$50,000	Society for Vascular Surgery Foundation and the American College of Surgeons
Karen Ho, MD	Regulation of Peripheral Arterial Disease by Gut Microbes	\$25,000	Northwestern Memorial Hospital

Surgical Outcomes Quality Improvement

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.



ment Center (SOQIC)

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



Dr. Karl Bilimoria



Drs. Ryan Merkow & David Bentrem



Drs. David Odell, Michael McGee & Ryan Merkow

Division of Breast Surgery

Clinical

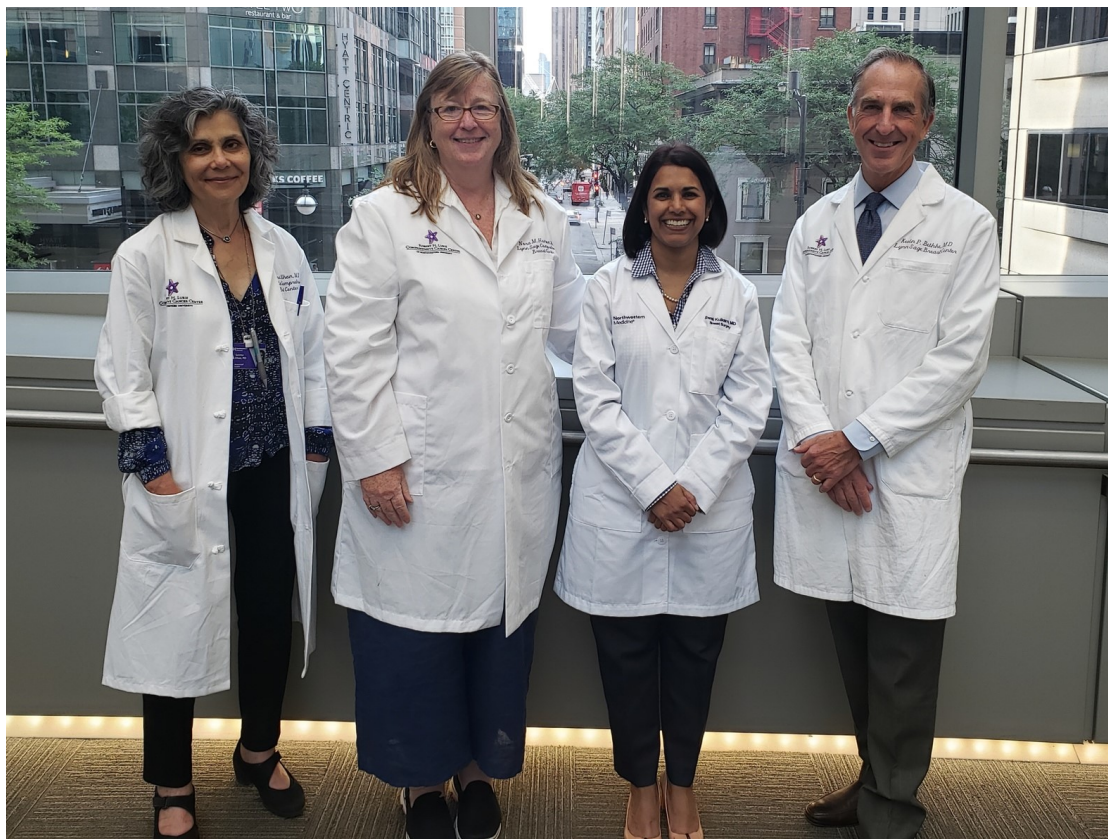
Over the past year, the High-Risk Breast Clinic and Risk Assessment and Prevention Program expanded with the addition of Barb Guido, APRN. The High-Risk Breast Clinic at Northwestern Memorial Hospital offers breast cancer risk assessment and specialized care plans for women at high risk for breast cancer. 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



Drs. Chandler Cortina, Nora Hansen, Emil Fernando

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

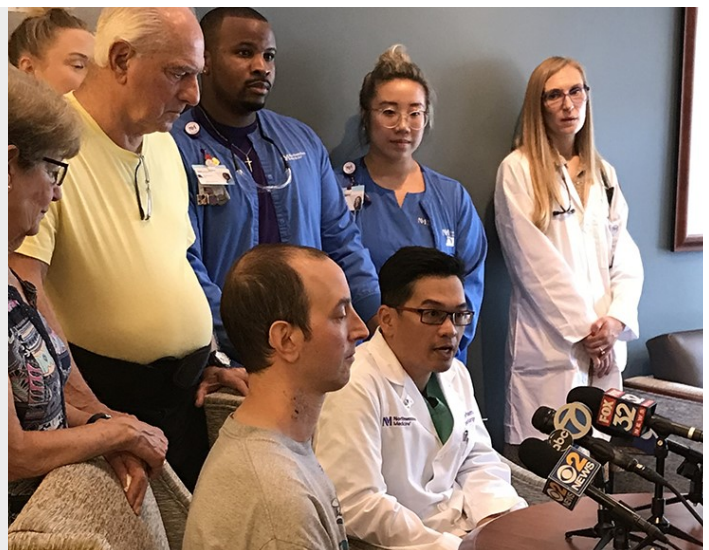
Participating in the Pivotal Trial." He is also part of the Edwards Lifesciences Global Tricuspid Leadership Team and Abbott Structural Heart Medical Advisory Board. Dr. McCarthy is on the steering committee for AtriCure's ICE AFIB study (AtriCure CryoICE Lesions for Persistent and Long-standing Persistent 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.





*Top, left to right: Drs. Yuji Kaku, Mark Erfe, Chitaru Kurihara, Azad Karim, Austin Ward, Payanotis Vardas, Eriberto Michel, Christopher Mehta, Ryo Suzuki, Anthony Mozer, Andre Son, Bartlomiej Imielski
Bottom, left to right: Drs. Ankit Bharat, Andrei Churyla, Duc Thinh Pham, Patrick McCarthy, James Cox, Chris Malaisrie, David Odell, Jota Nakano*

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.

Thoracic Surgery

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

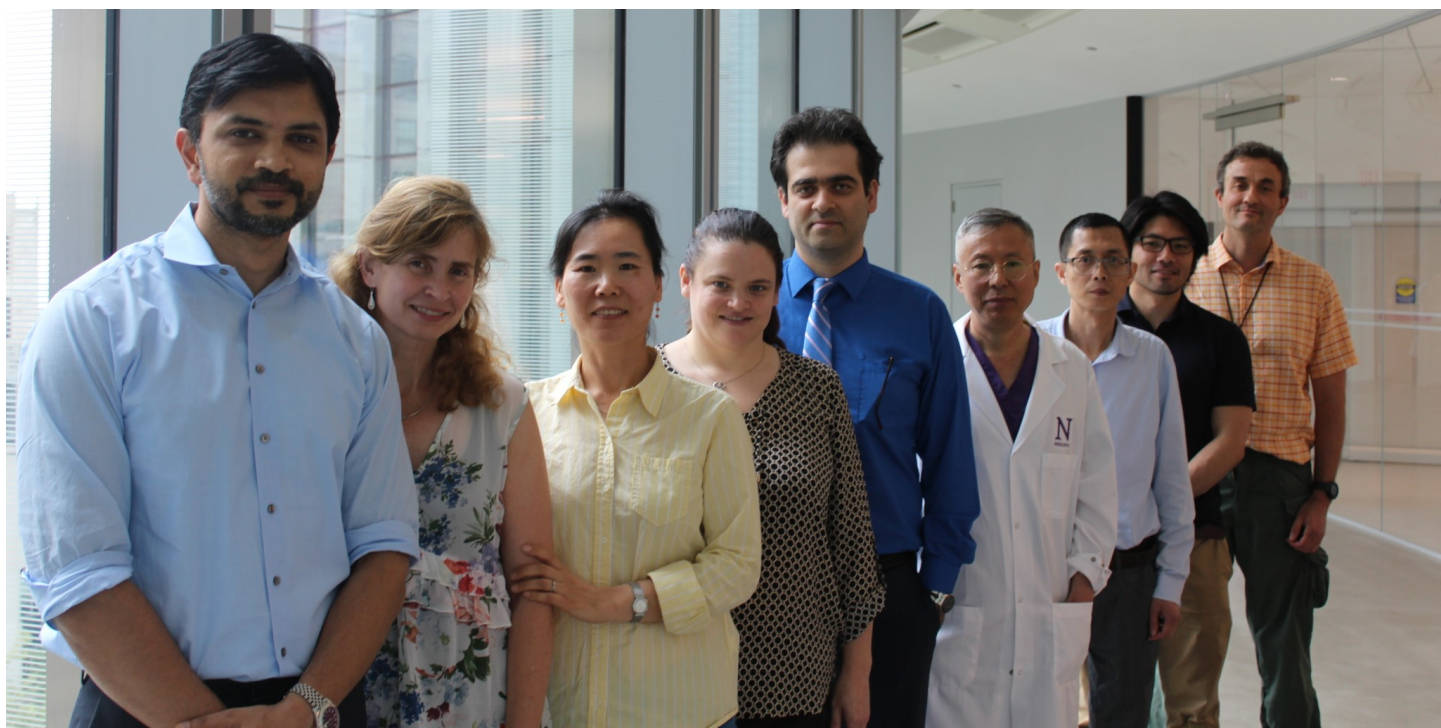
surveillance program.

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



Left to right: Ankit Bharat, Emilia Lecuona, Haiying Sun, Megan Kelly, Mahzad Akbarpour, Dr Wu, Qiang, Liu, Xianpeng, Chitaru Kurihara, Lorenzo Pesce

Dr. Samuel Kim Discusses Vaping-Related Lung Illnesses

On September 9, 2019, Dr. Samuel Kim, thoracic surgeon, was featured on WWTW11 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



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.



Dr. Ankit Bharat



Dr. David Odell interviewed by CTSNetVideo at STS Annual Meeting

Division of Gastrointestinal Surgery



Dr. Jonah Stulberg



Drs. Ryan Campagna and Amy Halverson



Dr. Eric Hungness

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



*Left to right:
Dr. Vitaliy Poylin
Dr. Nathaniel Soper
Dr. Scott Strong
Dr. Ezra Teitelbaum
Dr. Alex Nagle
Dr. Kyle Mueller
Dr. Michael McGee*

*Not pictured:
Dr. Amy Halverson
Dr. Eric Hungness
Dr. Jonah Stulberg*

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 McCreedy, 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.”



Actress Bonnie Hunt, Michael Elrad, Becky Elrad, Mike McCreedy

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.





Left to right:
 Dr. Dinee Simpson
 Dr. Joseph Leventhal
 Dr. Nitin Katariya
 Dr. Michael Abecassis
 Dr. Daniel Borja-Cacho
 Dr. Jason Wertheim
 Dr. Daniela Ladner
 Dr. Juan C. Caicedo-Ramirez
 Dr. Derrick Christopher

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.



Dr. Dinee Simpson featured in the Chicago Tribune



Dr. Daniel Borja-Cacho on NBC5 News discussing a milestone transplant

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)*



*Top, left to right: Dr. Mohammed Alghoul, Dr. Marco Ellis, Dr. Robert Galiano, Dr. Jason Ko
Bottom, left to right: Dr. John Kim, Dr. Gregory Dumanian, Dr. Sumanas Jordan*

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 model 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.

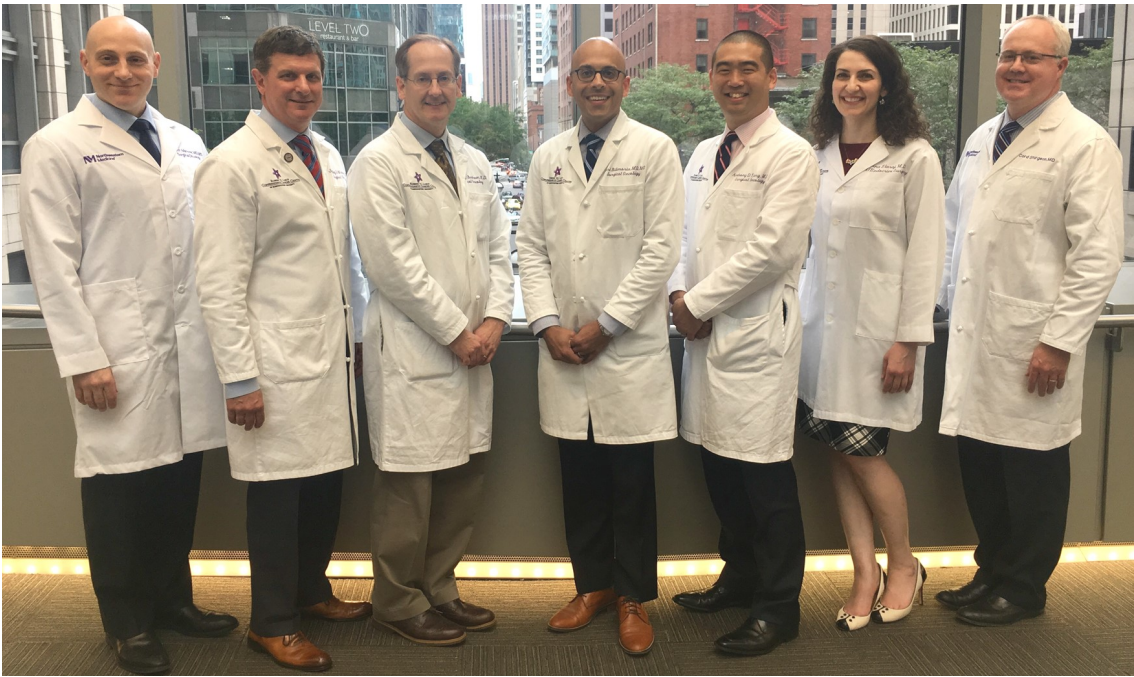
Dr. Dina Elaraj will be the team leader for an Academy for Quality and Safety Improvement (AQSI) project this upcoming year. The multidisciplinary project team includes anesthesiologist Dr. Bobbie Jean Sweitzer and endocrinologist Dr. Wenyu Huang. The project involves screening patients with hypertension 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 identify 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*



*Left to right:
Dr. Ryan Merkow
Dr. Jeffrey Wayne
Dr. David Bentrem
Dr. Karl Bilimoria
Dr. Anthony Yang
Dr. Dina Elaraj
Dr. Cord Sturgeon*

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.

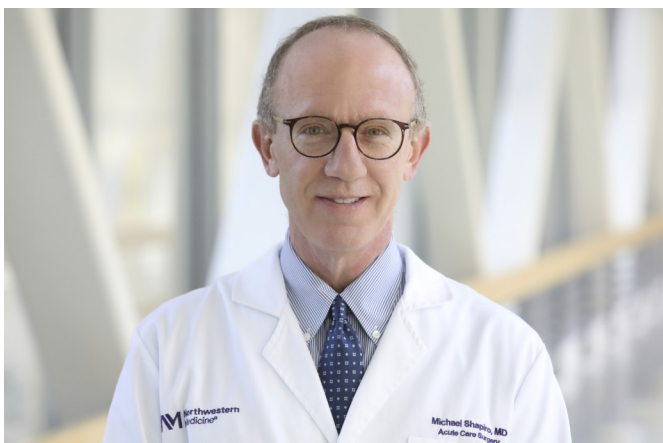
Education

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.

Division of Trauma & Critical Care



Dr. Michael Shapiro



Drs. Nabil Issa & Michael Mastellar



Dr. Steven Schwulst

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.



Left to right: Dr. Joseph Posluszny, Christine Schilling, Brittany Cook, Erinn White, Dr. Nabil Issa, Dr. Anne Stey, Dr. Steven Schwulst, Dr. Mamta Swaroop, Dr. Michael Shapiro

Education

The division continues to receive competitive applicants for the Surgical Critical Care Fellowship. New fellows in the program are Drs. David Tetrake and Giang (Zane) Quach. Dr. Tetrake 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.



Dr. Mamta Swaroop

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.





*Left to right:
Dr. Heron Rodriguez
Dr. Karen Ho
Dr. Tadaki Tomita
Dr. Mark Eskandari
Dr. Ashley Vavra
Dr. Andrew Hoel*

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.

Jesse Brown VA Medical Center

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, Optometry, 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.



Northwestern Lake Forest Hospital



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.

Lurie Children's Hospital

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.



Dr. Aimen Shaaban



Northbrook Surgery Center



Dr. Joseph Forbess (middle) invested into the Willis J. Potts, MD Professorship

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.

Non-Small Cell Lung Cancer Panel Member and Northwestern representative, National Comprehensive Cancer Network, January 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.

Winning Health Sciences Abstract, Chicago Surgical Society, 2018.

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.

Barracuda Tank Winner, International Hernia Congress, March 2018.

Marty Sullivan Teaching Award, Plastic Surgery, June 2019.

Joseph A. Murray Visiting Professor for Harvard Combined Program, March 27, 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 to Society for Vascular Surgery Conflict of Interest and Professional Conduct Committee, 2019.

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

Elected to Society for Vascular Surgery Public and Professional Outreach Committee, 2018.

Elected to Northwestern Medicine Central and North Regions Cardiac, Vascular and Thoracic Surgery Value Analysis Committee, 2018.

Named Top Doctor by Castle Connolly, 2018.

American Surgical Association/French Academic Surgery Exchange Program, 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

Named Top Doctor by Castle Connolly, Chicago Magazine, 2019.

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.

"Jay Grosfeld MD Research Scholar Award," American Pediatric Surgical Association, 2018-2019.

Johnson, Julie, MSPH, PhD

2018 Owen H. Wangenstein Scientific Forum Award, American College of Surgeons Clinical Congress 2018, Boston, MA, October 22, 2018.

Best Poster Nomination, Academy Health 11th Annual Conference on the Science of Dissemination and Implementation in Health, Washington, DC, December 3-4, 2018.

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

Visiting Professor, The Plastic Surgery Foundation/ American Society of Plastic Surgeons, 2019-2020.

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

Best Posters selection: "Experience with Meso-Rex bypass after segmental liver transplant for the treatment of symptomatic portal vein thrombosis," International Liver Transplant Society Annual Congress, Vancouver, Canada, May 2019.

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.

Named Associate Editor of Human Immunology, January 2019.

Merkow, Ryan, MD, MS

Top 25 Abstract of meeting at SSAT Research Conference, May 2019.

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

ACUTE Mechanical Support Council, International Society for Heart and Lung Transplantation, May 2019.

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

Posluszny, 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.

Awarded McGaw General Surgery Residency Jonathan Fryer Award, 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

Moderator, "Scientific Session II, Papers 5-7," American Association of Endocrine Surgeons, Los Angeles, CA, April 7, 2019.

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

Swaroop, Mamta, MD

Academic Co-Lead, Global Surgery Satellite Session, CUGH 2019. Chicago, IL, August 2018.

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.

Planning Committee, ACAIM Conference Planning Committee. Philadelphia, PA, 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/Harvard 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.

Academic Leadership Team, Global Surgery Satellite Session, CUGH 2020. Washington DC, June 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

Appointed to Cardiac, Vascular and Thoracic Surgery Value Analysis Committee, Northwestern Memorial Healthcare, Central and North Regions, 2018.

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.

Named Top Doctor of Surgery by Castle Connolly, 2019.

Named Top Doctor of Surgery by Chicago Magazine, 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.

Invited Speaker, "Research Principles for the Academic Surgeon," Department of Surgery Grand Rounds, Korle Bu Teaching Hospital, Accra, Ghana, February 19, 2019.

Abecassis, Michael, MD, MBA

Invited Speaker, "25 Years of Liver Transplantation at Northwestern -a Retrospective Journey," Northwestern Medicine, Feinberg School of Medicine, Medicine Grand Rounds. Andres Blei, MD Memorial Lecture, May 7, 2019.

Invited Speaker, "Challenges of Transplanting and Managing Alcoholic Hepatitis," American Transplant Congress, Boston, MA, June 4, 2019.

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.

Invited Speaker, "Transplant Finance: Knowledge into Practice," American Society of Transplant Surgeons Leadership Development Program, Evanston, IL, September 24, 2018.

Oral Abstract, "Gender Disparity In Access To Liver Transplant Larger In White Than Black Patients," American Transplant Congress, Boston, MA, June 4, 2019.

Oral Abstract, "Unique Gene Expression Signatures in Urine Distinguish T Cell Mediated Acute Rejection from BK Virus Nephropathy in Kidney Transplant Patients," American Transplant Congress, Boston, MA, June 4, 2019.

Oral Abstract, "Ten Year Follow-Up of a Phase 2 Clinical Trial to Induce Tolerance in Living Donor Renal Transplant Recipients," American Transplant Congress, Boston, MA, June 4, 2019.

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.

"Donor pulmonary monocytes and allograft dysfunction," AAI Immunology 2019 Conference, San Diego, CA, May 10, 2019.

"Immune Approach to Primary Graft Dysfunction," American Society of Transplantation CEOT Conference, Phoenix, AZ, February 22, 2019.

"Pathogenesis of lung transplant ischemia reperfusion injury," UHN Toronto General, Latner Thoracic Research Laboratories, Toronto, Canada, May 1, 2019.

"Pathogenesis of lung transplant ischemia reperfusion injury," University of Alabama, Department of Surgery Grand Rounds, Birmingham, AL, March 26, 2019.

Bilimoria, Karl, MD, MS

"Achieving Local and National Visibility: Societies, Committees, Journals, and the Web," Early Career Development Course, ACS Clinical Congress, Boston, MA, October 2018.

Chair, "Ensuring Academic Output," Developing a Career and Skills in Academic Surgery Course, Royal Australasian College of Surgeons Annual Scientific Congress, Bangkok, Thailand, May 2019.

"Engaging Junior Doctors & Emerging Leaders in Healthcare Improvement," Royal Australasian College of Surgeons Annual Scientific Congress, Bangkok, Thailand, May 2019.

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.

Billimoria, 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.

"Moving from FIRST to SECOND: A Proposal for Another National Trial to Improve Surgical Training," Mount Sinai Benjamin F. Bryer Lectureship, New York, NY, September 2019.

"Patient Involvement in Improving Care: Involving patients in selecting their care," Royal Australasian College of Surgeons Annual Scientific Congress, Bangkok, Thailand, May 2019.

"Team Science," Methods Session, ACS Clinical Congress, Boston, MA, October 2018.

"Tech Options for Data Collection," Developing a Career and Skills in Academic Surgery Course, Royal Australasian College of Surgeons Annual Scientific Congress, Bangkok, Thailand, May 2019.

"Training and Burnout," Royal Australasian College of Surgeons Annual Scientific Congress, Bangkok, Thailand, May 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, "Como mejorar donacion de organos en Hispanos?" Congreso de Coordinación de Donación y Procuración de Órganos, Ciudad de San Miguel de Allende, Guanajuato, Mexico, March 2019.

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, "Liver Transplant Access in Underserved Opportunities for Targeted Interventions," CEoT, American Society of Transplantation, Phoenix, AZ, February 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 Hepático con Trombosis Portal," XXII National Transplant Congress, Queretaro, Mexico, October 2018.

Invited 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 Hepático 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.

Poster Presenter, "New Pacemaker Requirements after Surgical Ablation of Atrial Fibrillation during Valve Surgery," ACC 2019 Annual Meeting, New Orleans, LA, March 2019.

Speaker, "How I plan it: TAVR," Cardiothoracic Surgery Residents and Mid-Level Providers Conference, Northwestern University, Chicago, IL, February 2019.

Speaker, "TT Maze Procedure," 40th Annual Echo Northwestern Conference, Northwestern University, Chicago, IL, September 2018.

Table Instructor, "Essentials of TAVR," STS University TAVR 2019 Annual Meeting, San Diego, CA, January 2019.

Teacher, "Lead Extraction for the CT Surgeon," Chicagoland CT Fellows Conference, Phillips IGTD, Chicago, IL, August 2018.

Faculty Presentations

Cox, James, MD

"Anatomy Pertinent to AF Surgery," "Electrophysiologic Basis for the Maze Lesions," Surgical Fellows Course, Chicago, IL, March 22-23, 2019.

Director, "Anatomy Pertinent to Atrial Fibrillation Surgery," "Brief Overview of Atrial Fibrillation," "Catheter Ablation of Atrial Fibrillation - Surgeon's Viewpoint," "Electrophysiologic basis of Atrial Fibrillation Intervention," "Surgical Treatment of Concomitant Atrial Fibrillation," "The Left Atrial Appendage," Masters Course, Miami, FL, March 9-10, 2019.

Director, "Anatomy Pertinent to Atrial Fibrillation Surgery," "Brief Overview of Atrial Fibrillation," "Catheter Ablation of Atrial Fibrillation - Surgeon's Viewpoint," "Electrophysiologic basis of Atrial Fibrillation Intervention," "Surgical Treatment of Concomitant Atrial Fibrillation," "The Left Atrial Appendage," Maze Masters Course, Toronto, Canada, September 29-30, 2018.

"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, "Can NSR be Attained," "The Significance of LAA Leaks," CSI-UCSF Conference, San Francisco, CA, October 26-27, 2018.

Invited Speaker, "Atrial Fibrillation Surgery - A Historical Review," Philadelphia Cardiovascular Symposium, Philadelphia, PA, November 2-3, 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.

Invited Speaker, "The Management of AF and the LAA in Patients Undergoing CABG, AVR, and MVR/r," Northwestern Fellows Talk, Chicago, IL, March 1, 2019.

"Understanding the Goals of the Maze Procedure," Annual Meeting of the American Association for Thoracic Surgery, Toronto, Canada, May 4-7, 2018.

Visiting Professor, "Basis of the Maze Procedure and Concomitant AF Surgery," University of Pittsburgh, Pittsburgh, PA, April 10-11, 2019.

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

Visiting Professor, "The Management of Atrial Fibrillation and the Left Atrial Appendage," University of Liverpool, Liverpool, England, September 2-3, 2018.

Visiting Professor, "Thoughts on Atrial Fibrillation and Management of the Left Atrial Appendage," Cambridge University, Cambridge, England, August 31-September 1, 2018.

Dumanian, Gregory, MD

"Bench-to-Bedside: Translating Nerve Research through Working Collaborations," American Society of Peripheral Nerve, Palm Desert, CA, February 02, 2019.

Dumanian, G. A. and Cederna, P., "Prosthetics, pain, and phantoms. TMR and RPNI to solve it all," American Association of Plastic Surgeons, Baltimore, MD, April 6-9, 2019.

Dumanian, G. A. et. al., "Treatment of amputation neuroma pain and phantoms--an RCT," Innovations in amputation surgery and prosthetics technologies, Vienna, Austria, May 05, 2018.

"Flank Hernia Repair," Abdominal Wall Reconstruction 2018, Washington, DC, June 8, 2018.

"Flank Hernia Treatment," "Mesh Abdominoplasty for Rectus Diastasis," Abdominal Wall Reconstruction Meeting, Washington, DC, June 6, 2019.

Hehr, J. D., Bowen, B., Alexander, J. H., Mioton, L. M., Jordan, S. W., West, J. M., Scharschmidt, T., Mayerson, J. L., Dumanian, G. A., Valerio, I. L., "Targeted reinnervation in the amputee patient updates for multiple cohorts on pain outcomes and narcotic use trends," Congress of the American College of Surgeons, Boston, MA, October 22, 2018.

"Iatrogenic nerve injuries: Techniques of Avoidance and Management," Congress of the American College of Surgeons, Boston, MA, October 22, 2018.

Jordan, S. W., Valerio, I. L., Dumanian, G. A. et. al., "Targeted muscle reinnervation at the time of major limb amputation prevents phantom limb and residual limb pain," Military Health System Research Symposium, Kissimmee, FL, August 21, 2018.

Dumanian, Gregory, MD

"Mesh Abdominoplasty," Abdominal Wall Reconstruction 2018, Washington, DC, June 8, 2018.

"Mesh Suture," Abdominal Wall Reconstruction 2018, Washington, DC, June 8, 2018.

"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.

"Mesh Suture and Complex Abdominal Wall Reconstruction," "TMR successfully treats neuroma pain and phantoms in major limb amputees: A randomized clinical trial," US NAVY C.A.R.E. Symposium, San Diego, CA, September 19, 2018.

Mioton, L. and Dumanian, G. A., "Survey of amputee pain," Innovations in amputation surgery and prosthetics technologies, Vienna, Austria, May 11, 2018.

Mioton, L., Janes, L., Fracol, M. E., Ko, J. H., Dumanian, G. A., "Targeted muscle reinnervation in the leg: An anatomic study," Innovations in amputation surgery and prosthetics technologies, Vienna, Austria, May 11, 2018.

Mioton, L. M., Dumanian, G. A., Potter, B. K., et al., "Targeted Muscle Reinnervation Successfully Treats Neuroma Pain and Phantoms in Major Limb Amputees: A Randomized Clinical Trial," Military Health System Research Symposium. Kissimmee, FL, August 21, 2018.

Purnell, C. A., Mcgrath, J. L., Alkureishi, L. W. T., Patel, P. K., Dumanian, G. A. "Pre-transfer widening of the free fibula flap for full-height reconstruction of the mandible," Paper of distinction, presented at the American Society of Plastic Surgery, Chicago, IL, September 29, 2018.

Roundtable discussion: "Complex abdominal and surgical wounds. Use of devices off-label," American College of Wound Healing and Tissue Repair, Chicago, IL, October 05, 2018.

"Suturable Mesh," Abdominal Wall Reconstruction Europe, London, England, February 01, 2019.

"The revised history of the microvascular anastomotic coupler," American Society of Reconstructive Microsurgery, Palm Desert, CA, February 03, 2019.

"TMR successfully treats neuroma pain and phantoms in major limb amputees: A randomized clinical trial," American Society for Surgery of the Hand, Boston, MA, September 13, 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.

"TMR successfully treats neuroma pain and phantoms in major limb amputees," Hanger Educational Conference Keynote Address, Las Vegas, NV, February 19, 2019.

"Use of the Checkpoint nerve stimulator with TMR," "TMR successfully treats neuroma pain and phantoms in major limb amputees: A randomized clinical trial," American Society of Reconstructive Microsurgery, Palm Desert, CA, February 02, 2019.

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

Eskandari, Mark, MD

"Contemporary Management of Thoracic Aortic Aneurysms and Dissections with Thoracic Stent Grafting," American Surgical Association/French Academic Surgery Exchange Program, Society of Surgery in Lyon, France, September 17, 2018.

"Evolution in the Treatment of Thoracic Aortic Dissections with TEVAR: Benefits and Potential Complications," American Surgical Association/French Academic Surgery Exchange Program, University of Rennes, France, September 18, 2018.

"Early and Late Failures of TEVAR," American Surgical Association/French Academic Surgery Exchange Program, Society of Surgery in Lille, France, September 21, 2018.

Lecturer, "Evolution of Abdominal Aortic Aneurysm Repair," LFH Cardiology Grand Rounds, Northwestern Medicine/Northwestern Lake Forest Hospital, Lake Forest, IL, August 10, 2018.

Lecturer, "Value and Limitations of Cryopreserved Allografts for the Treatment of Arterial Prosthetic Graft Infections," VEITH Symposium, New York, NY, November 13-17, 2018.

Faculty Presentations

Eskandari, Mark, MD (cont.)

Lecturer, "Technical Tips for the Management of Cervical and Mediastinal Iatrogenic Artery Injuries: How To Avoid Disasters," VEITH Symposium, New York, NY, November 13-17, 2018.

Lecturer, "Long-Term Patency of Primary Inferior Vena Cava Reconstructions," VEITH Symposium, New York, NY, November 13-17, 2018.

Lecturer, "15-Year Experience with Renal Cell Carcinoma Caval Tumor Thrombus," VEITH Symposium, New York, NY, November 13-17, 2018.

Lecturer, "Why Temporary Filters Are Not Removed - Clinical Predictors in 1,000 Consecutive Cases," VEITH Symposium, New York, NY, November 13-17, 2018.

Moderator, "Abdominal Aortic Diseases," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

Moderator, "Current Issues in Vascular Surgery," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

Moderator, "Cerebrovascular and Supra-Aortic Trunk Disease," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

Moderator, "New Developments in the Management of Vascular Trauma and REBOA," VEITH Symposium, New York, NY, November 13-17, 2018.

Etkin, Caryn, PhD

Etkin, C. D., Naidech, A. M., Sturgeon, C., Sweitzer, B. J., Holl, J. L., Stulberg, J. J., "Patient-Reported Health-Related Quality of Life Scores Can Detect Pre-Operative Frailty in Older Surgical Patients," Poster at American College of Surgeons Quality and Safety Conference, Washington, D.C., July 21, 2019.

Etkin, C. D., Stulberg, J. J., Schäfer, W., Shallcross, M. L., Bilimoria, K. Y., Johnson, J. K., "Provider Readiness to Reduce Post-Surgical Opioid Prescribing," Presentation at American College of Surgeons Quality and Safety Conference, Washington, D.C. July 21, 2019.

Etkin, C. D., Shores, P. B., Cahue, S. R., Bozic, K. J., "An Early Look at Patient-Reported Outcome Data from the American Joint Replacement Registry (AJRR)," Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 14, 2019.

Etkin, C. D., Shores, P. B., Gioe, T. J., Springer, B. D., Bozic, K. J., "National Trends in Treatment of Femoral Neck Fracture from the American Joint Replacement Registry (AJRR)," Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV, March 12, 2019.

Heckmann, N., Ihn, H., Stefl, M., Etkin, C. D., Springer, B. D., Berry, D. J., Lieberman, J. R., "Early Results from The American Joint Replacement Registry A Comparison with Other National Registries," Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting, Las Vegas, NV. March 14, 2019.

Honigsberg, H., Cahue, S.R., Etkin, C.D. (2019). Implementing a Patient Reported Outcomes (PRO) Program in a Health Care System: Local Efforts and National Registry Collaboration. Presentation at National Association of Orthopaedic Nurses (NAON) 39th Annual Congress. Atlanta, GA. May 19, 2019.

Springer, B.D., Etkin, C.D., Shores, P.B., Gioe, T.J., Lewallen, D.G., Bozic, K.J. (2019). Perioperative periprosthetic femur fractures are strongly correlated with fixation method: An Analysis from the American Joint Replacement Registry (AJRR). Presentation at the American Academy of Orthopaedic Surgeons Annual Meeting. Las Vegas, NV. March 15, 2019.

Feingold, Kim, PhD

Invited speaker, "Behavioral challenges: Is change possible?" 14th Annual Holiday Heart Failure Symposium, Chicago, IL December 2018.

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.

Poster Presentation: Carroll, A.J., Grote, V., Flaherty, J.D., Huffman, J.C., Feingold, K.L., Moskowitz, J.T., "Positive Emotions after Acute Coronary Events at Northwestern University (PEACE-NU): Rationale and methods for a feasibility trial," Integrative Medicine Research Conference of the Osher Center for Integrative Medicine at Northwestern University, Chicago, IL, January 2019.

Feingold, Kim, PhD (cont.)

Poster Presentation: Feingold, K. L., Moskowitz, J.T., Patel, R., et al., "Impact of post-operative acupuncture on pain, nausea, mood, and medical outcomes in patients undergoing valve surgery: Design and lessons learned from the ACU-HEART pilot trial," Integrative Medicine Research Conference of the Osher Center for Integrative Medicine at Northwestern University, Chicago, IL, January 2019.

Poster Presentation: Goergen, J., Carroll, A., Wafford, E., Feingold, K., Flaherty, J., "A systematic review of case studies of psychopathology in Takotsubo Cardiomyopathy," 15th Annual Lewis Landsberg Research Day, Northwestern University Chicago, IL, January 2019.

Gordon, Elisa, PhD, MPH

Alhalel, N., Francone, N. O., Caicedo, J. C., Ruiz, R., Salazar, A., Primeaux, S., Gordon, E. J., "Hispanics' Perceptions of a Culturally Targeted Transplant Program: A Mixed Methods Study," American Association of Bioethics and Humanities, Anaheim, CA, October 19, 2018.

Invited Speaker, "A Community-Based Research Approach for Reducing Health Disparities in Organizations Through a Latinx Transplant Program," The 2nd Annual Meeting of the Medical Organization for Latino Advancement (MOLA) Latino Health Symposium, Chicago, IL, October 6, 2018.

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, "Succeeding with Informed Consent," American Society for Reconstructive Transplantation 6th Biannual Meeting, Chicago, IL, November 17, 2018.

Invited Speaker, "Live Donors' Information Needs." Società Italiana per la Sicurezza e la Qualità nei Trapianti: Capitolo Italiano, and the International Transplant Nurses Society (ITNS), Firenze, Italy, December 4, 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, "APOL1 and Kidney Disease - the Evidence to Date," National Kidney Foundation (NKF) 2019 Spring Clinical Meetings, Boston, MA, May 8, 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.

Invited Speaker, "African American Living Kidney Donors' Preferences for Informed Consent for APOL1 Genetic Testing," McGill University, Montreal, Canada, May 18, 2019.

Gordon, E. J., Amortegui, D., Wicklund, C., Friedewald, J., Sharp, R. R., "African American Living Kidney Donors' Perceptions of APOL1 Genetic Testing and Its Impact on Ethnic Identity," American Transplant Congress, Boston, MA, June 2, 2019.

Gordon, E. J., Knopf, E., Mussell, A., Phillips, C., Veatch, R., Abt, P., Reese, P., "Patient Perspectives on Informed Consent for Deceased Donor Organ Intervention Research," American Transplant Congress. Boston, MA, June 4, 2019. Thiessen, C., Gordon, E. J., Reese, P., Kulkarni, S., "How Potential Living Kidney Donors (LKDs) View ESRD Risk: A Longitudinal, Multi-Center Study," Scientific Forum program of the American College of Surgeons Clinical Congress, Boston, MA, October 22, 2018.

Grady, Kathleen, PhD

"Anxiety and psychosocial considerations in the LVAD patient," ACC 68th Annual Scientific Sessions, 2019, New Orleans, LA, March 2019.

"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.

"Disparities in Transplantation: Sex, Race, and Social Determinants," Heart Failure Society of America, Nashville, TN, September 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.

"The Ghost Hunt: Funding your Research," International Society for Heart and Lung Transplantation, Orlando, FL, April 2019.

Hansen, Nora, MD

Invited Speaker, "Neoadjuvant Therapy vs. Primary Surgery: How do you choose?" City of Hope Duarte CA, January 31, 2019.

Panelist, "Multidisciplinary Approach to Difficult Breast Cases," Lynn Sage Breast Cancer Symposium, Chicago, IL, October 13, 2018.

Panelist, Multidisciplinary Breast Tumor Board/Lynn Sage Breast Cancer Symposium, Chicago, IL, October 13, 2018.
Panelist/Discussant Boost, "Breast Case Based Multidisciplinary Review," Radiological Society of North America, Chicago, IL November 26, 2018.

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

Invited Speaker, "The effect on a surgeon of being on a mission trip," 2019 Annual Seattle Surgical Society, Seattle, WA, February 8, 2019.

Ho, Karen, MD

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Chang, E. B., Ho, K. J., "Microbial colonization restores neointimal hyperplasia development after arterial injury in germ-free mice," Digestive Disease Week 2019, San Diego, CA, May 19, 2019.

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Chang, E. B., Ho, K. J., "Microbial

colonization restores neointimal hyperplasia development after arterial injury in germ-free mice," Edelstone-Bendix Day, William H Pearce Research Symposium, Department of Surgery, Northwestern University, Chicago, IL, June 21, 2019. (Resident Basic Science Award)

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Chang, E. B., Ho, K. J., "Microbial colonization restores neointimal hyperplasia development after arterial injury in germ-free mice," Vascular Discovery: From Genes to Medicine 2019 Scientific Sessions, Boston, MA, May 15, 2019.

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Chang, E. B., Ho, K. J., "Microbial colonization restores neointimal hyperplasia development after arterial injury in germ-free mice," Vascular Research Initiatives Conference, Society for Vascular Surgery, Boston, MA, May 13, 2019.

Chen, E. B., Shapiro, K. E., Theriault, B. R., Nooromid, M. J., Wun, K., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "Fecal transplantation restores neointimal hyperplasia development after arterial injury in germ-free mice," Illinois Surgical Conference Research Day, Chicago, IL, April 27, 2019.

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "Microbial colonization restores neointimal hyperplasia development in germ-free mice," Cardiovascular Research Day, Feinberg Cardiovascular and Renal Research Institute, Northwestern University, Chicago, IL, May 29, 2019.

Chen, E. B., Shapiro, K. E., Kuntz, T., Theriault, B. R., Nooromid, M. J., Wun, K., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "Microbial colonization restores neointimal hyperplasia development in germ-free mice," 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 4, 2019.

Chen, E. B., Shapiro, K. E., Theriault, B. R., Nooromid, M. J., Wun, K., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "Fecal transplantation restores neointimal hyperplasia development after arterial injury in germ-free mice," Colon Cancer Session, Digestive Disease Week 2019, San Diego, CA, May 20, 2019.

Ho, Karen, MD (cont.)

Chen, E. B., Shapiro, K. E., Theriault, B. R., Nooromid, M. J., Wun, K., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "Fecal transplantation restores neointimal hyperplasia development after arterial injury in germ-free mice," SSAT Basic Science I Poster Session, Digestive Disease Week, San Diego, CA, May 19, 2019.

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

"Getting that K Award: Mentors, methods, and motherhood, Session: Mentoring and Leadership Perspectives on Gender and Early Career Success," 2018 American Heart Association Scientific Session, Chicago, IL, November 10, 2018.

Kip, P., Trocha, K. M., Tao, M., O'leary, J. J., Giulietti, J. M., Trevino-Villareal, J. H., MacArthur, M. R., Bolze, A., Burak, M. F., Patterson, S., Ho, K. J., Carmody, R. N., Guzman, R. J., Mitchell, J., Ozaki, C. K., "Insights from a short-term protein-calorie restriction exploratory trial in elective carotid endarterectomy patients," Atherosclerosis, Thrombosis, and Vascular Biology, Boston, MA, May 14-16, 2019.

Kip, P., Trocha, K. M., Tao, M., O'leary, J. J., Giulietti, J. M., Trevino-Villareal, J. H., MacArthur, M. R., Bolze, A., Burak, M. F., Patterson, S., Ho, K. J., Carmody, R. N., Guzman, R. J., Mitchell, J., Ozaki, C. K., "Insights from a short-term protein-calorie restriction exploratory trial in elective carotid endarterectomy patients," Vascular Research Initiatives Conference, Boston, MA, May 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.

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," 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 4, 2019.

"Research and a career in vascular surgery," General Surgery Resident Breakfast Session, Vascular Annual Meeting, Society for Vascular Surgery, National Harbor, MD, June 13, 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)

"The role of the gut microbiome in cardiovascular disease," Vascular Surgery Research Conference, Loyola University Medical School, Maywood, IL, September 21, 2018.

"The TMAO metabolic pathway and scleroderma pathogenesis," 2019 Scleroderma Foundation National Patient Education Conference, Chicago, IL, July 21, 2019.

Theriault, B. R., Chen, E. B., Shapiro, K. E., Wun, K., Nooromid, M. J., Leone, V. A., Harris, K. G., Jiang, Q., Spedale, M., Xiong, L., Eskandari, O. M., Chang, E. B., Ho, K. J., "The role of gut microbiota in arterial restenosis after vascular surgery," 3rd Annual Microbiome Movement - Drug Development Europe, Paris, France, January 29, 2019.

Faculty Presentations

Ho, Karen, MD (cont.)

"Updates in guidelines and therapies for hyperlipidemia in PAD patients," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 7, 2018.

Hoel, Andrew, MD

Invited Speaker, "Post- Operative Complications of Endovascular Aortic Devices," Northwestern Vascular Surgery Nursing Conference, Chicago, IL, November 2, 2018.

Invited Speaker, "Durability of Celiac Artery Stent Grafts After Fenestrated Aortic Stent Graft Repair," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6, 2018.

Hong, Seok Jong, PhD

Xie, P., Friedrich, E. E., Phipps, A., Hong, S. J., Galiano, R. D., "An Exploratory Study on the Mechanism of a Novel Allograft Adipose Matrix During Diabetic Mouse Injury," "The Symposium on Advanced Wound Care Fall meeting, Abstract # LB-047, Las Vegas, NV, November 2-4, 2018.

Xie, P., Jia, S., Galiano, R. D., Hong, S. J., Mustoe, T. A., "Topical Application of Statins Reduced Scarring," Military Health System Research Symposium, Abstract # MHSRS-18-0732, Kissimmee, FL. August 20-23, 2018.

Young, M. W., Hong, S. J., Iyer, H., Mustoe, T. A., Galiano, R. D., "Decellularized Xenogeneic Fetal Tissue Matrix Enhances Skeletal Muscle Regeneration within a Latissimus Dorsi Defect," Military Health System Research Symposium, Abstract # MHSRS-18-0824, Kissimmee, FL. August 20-23, 2018.

Young, M. W., Iyer, H., Hong, S. J., Mustoe, T. A., Galiano, R. D., "Decellularized Xenogeneic Fetal Matrix Augments Skeletal Muscle Regeneration for Treatment of Volumetric Muscle Loss," American College of Surgeons Clinical Congress, Boston, MA, October 21-25, 2018.

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

Forte, E., Schroeder, M., Swaminathan, S., Hummel, M., "Optimization of an HCMV model to study the viral epigenome in latency and reactivation" Chromatin Control of viral infection, NIH, Bethesda, MD, Sept. 6-7, 2018.

Forte, E., Swaminathan, S., Schroeder, M., Butun, F., Schipma, M., Kandpal, M., Marshall, S., Piunti, A., Shilatifard, A., Abecassis, M., and Mary Hummel, M., "Genomic profiling of HCMV early infection in Kasumi-3 myeloid progenitor cells" 44th International Herpesvirus Workshop, Knoxville, TN, July 20-14, 2019.

Hunter, Catherine, MD

Invited speaker. "Mechanisms of Necrotizing enterocolitis: The role of ROCK," NEC Society, Ann Arbor, MI, June 2019.

Katariya, Nitin, MD

Invited Speaker, "The Surgeon: Technical Challenges - Kidney," 2019 ASTS Winter Symposium in Miami, FL, January 10, 2019.

Khan, Seema, MD

"Modifying Risk: Hormones, Chemoprevention and Lifestyle Interventions," City of Hope/University of Chicago Clinical Cancer and Genomics Conference, Duarte, CA, April 2019.

"Surgical risk reduction: indications, approaches and outcomes," Lynn Sage Breast Cancer Symposium, Chicago, IL, October 2018.

"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, "ALCL Update: How Do I Inform My Patients?" Barcelona Breast Meeting, Barcelona, Spain, 2019.

Invited Speaker, "Fat Cooking Forum: New Chefs, New Recipes", Barcelona Breast Meeting, Barcelona, Spain, 2019.

Invited Speaker, "Pre-Pectoral Implant Breast Reconstruction: Has the Dogma Been Broken?" Barcelona Breast Meeting, Barcelona, Spain, 2019.

Invited Speaker, "Safety and Efficacy of Fat Grafting to the Reconstructed Breast", Annual Atlanta Breast Surgery Symposium, Atlanta, GA, 2019.

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.)

Invited Speaker, "The Data Strategy for Dealing with Radiation and Breast Reconstruction", ASAPS The Aesthetic Meeting, New Orleans, LA, 2019.

Invited Speaker, "Fat Grafting in Breast Reconstruction", MAPS Annual Meeting, Lake Geneva, WI, 2019.

Invited Speaker, "Pre-Pectoral Reconstruction Panel", MAPS Annual Meeting, Lake Geneva, WI, 2019.

Invited Speaker, "Evolving Concepts of Risk in Prosthetic Breast Reconstruction: New Technologies and Techniques", ABS Annual Meeting, Glasgow, Scotland, 2019.

Invited Speaker, "Current US Controversies in Prosthetic Breast Reconstruction: (Pre-Pectoral vs Sub-pectoral, Smooth vs. Textured)", ABS Annual Meeting, Glasgow, Scotland, 2019.

Ko, Jason, MD

Chair, "Brachial Plexus Reconstruction and Peripheral Nerve Transfers from the Shoulders to the Fingertips," Master Class, Hand and Upper Extremity Session, 12th Annual Quality Medical Publishing Reconstructive Surgery Symposium, Chicago, IL. September 18, 2018.

Faculty, "4 Things to Remember with Any Amputation and How to Stop a Neuroma," "Avoiding Painful Neuromas," Pearls and Controversies, Management of the Mangled Upper Extremity: Getting the Most Out of What Remains, Pre-course, American Society for Surgery of the Hand, 73rd Annual Meeting, Boston, MA, September 13, 2018.

Faculty, "Compartment Syndrome: Evaluation and Release," "Free Flaps to the Hand," "Important Nerve Transfers to Know and TMR," "Wrist Pain: Diagnosis and Treatment," Upper Extremity Cadaver Lecture and Lab, American Society of Plastic Surgeons Annual Meeting, Chicago, IL, September 29, 2018.

Faculty, "Deciding Between Nerve Transfer and Tendon Transfer," "FCR Nerve to PIN Nerve Transfer (Lecture and Demonstration)," "FDS Nerve to ECRB Motor Nerve Transfer (Lecture and Demonstration)," "Scaphoid Nonunion," Radial Nerve Tendon Transfers and Nerve Transfers, The Complete Armamentarium, Pre-course, 73rd Annual Meeting, Boston, MA, September 12, 2018.

Faculty, "Flap Reconstruction of the Hand and Upper Extremity," "Replantation," Hand and Upper Extremity Session, 12th Annual Quality Medical Publishing

Reconstructive Surgery Symposium, Chicago, IL, September 18, 2018.

Faculty, "Hypothenar Fat Pad Flap, Quaba Flap, Cross Finger Flap (Demonstration)," ASSH The Complete Hand Surgeon—Flaps You Should Know After Fellowship, 3rd Annual Fellows Laboratory Session, American Society for Surgery of the Hand, 73rd Annual Meeting, Boston, MA, September 11, 2018.

Faculty, "Limb Amputations and Prosthetics," 2019 Comprehensive Review in Hand and Upper Extremity, American Society for Surgery of the Hand, Chicago, IL, July 14, 2019.

Faculty, "Management of the Nerve Gap: What Should We Use and Why?" Instructional Course, 73rd Annual Meeting, Boston, MA, September 15, 2018.

Faculty, "Maximizing Function Using Nerve Transfers from Shoulders to Fingertips," Complex Nerve Injuries Reconstruction in the Upper Limb: Timing and Techniques, Panel, World Society of Reconstructive Microsurgery Annual Meeting, Bologna, Italy, June 13, 2019.

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, "Nerve Transfer Surgery: The (New) Frontier for Brachial Plexus Injuries and Beyond," Grand Rounds, Division of Plastic Surgery, Rush University, Chicago, IL, August 22, 2018.

Faculty, "Scaphoid Nonunion," Elbow to Fingertip: Malunion/Nonunion, Pre-course, American Society for Surgery of the Hand, 73rd Annual Meeting, Boston, MA, September 12, 2018.

Faculty, "Targeted Muscle Reinnervation for Prosthetic Control and the Treatment of Nerve Pain," Bionic Limb Replacement, Panel, World Society of Reconstructive Microsurgery Annual Meeting, Bologna, Italy, June 13, 2019.

Faculty, "Vascularized Bone Flaps for the Upper and Lower Extremity: Attacking Big Problems with Even Bigger Solutions..." Grand Rounds, Department of Orthopedic Surgery and Division of Plastic and Reconstructive Surgery, Northwestern University Feinberg School of Medicine, Chicago, IL, November 2, 2018.

Faculty Presentations

Ko, Jason, MD (cont.)

Moderator, Concurrent Session 3, Concurrent Session 5: Clinical, Plastic Surgery Research Council, 64th Annual Meeting, Baltimore, MD, May 3, 2019.

Moderator, "Leave It, Graft It, Rotate It: Non-Microsurgical Options for Hand Coverage," Instructional Course, American Society of Reconstructive Microsurgery Annual Meeting, Palm Desert, CA, February 2, 2019.

Moderator, "Pearls, Pitfalls, and Prosecco," ASRM Young Microsurgeons Group Forum, American Society of Reconstructive Microsurgery Annual Meeting, Palm Desert, CA, February 4, 2019.

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.

Moderator and Faculty, "Wound Reconstruction—Simple to Complex," Interactive Case Review. American Society for Surgery of the Hand, 73rd Annual Meeting, Boston, MA, September 15, 2018.

President, "Complex Nerve Injuries Reconstruction in the Upper Limb: Timing and Techniques," World Society of Reconstructive Microsurgery, Annual Meeting, Bologna, Italy, June 13, 2019.

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.

Speaker, "Great Debates in Breast Cancer: Have Margin Consensus Guidelines Significantly Reduced Re-excision Rates?" American Society of Breast Surgeons Annual Meeting, Dallas, Texas, May 2019.

Ladner, Daniela, MD, MPH

Invited Speaker, "Artificial Intelligence in Transplantation - Uncharted Waters and New Discoveries," IPHAM Seminar Series, Northwestern University, May 2019.

Invited Speaker, "Medication Adherence - Take IT Study," NUTORC Seminar Series, Northwestern University, April

2019.

Oral Abstract, "Frailty and BMI in Liver Transplant Candidates: 9-Center Functional Assessment in Liver Transplantation Study," American Transplant Congress, Boston, MA, June 4, 2019.

Lautz, Timothy, MD

Corkum, K. S., Lautz, T. B., Rowell, E. E., "Comparative Analysis of Perioperative Outcomes Between Surgical Subspecialties for Operative Adnexal Cases in Children Using the ACS NSQIP Pediatric Database," American College of Surgeons, Scientific Forum, Boston, MA, October 2018.

Finkle, J. H., Rigsby, C. K., Lautz, T. B., Murphy, N., Sammet, C. L., "Radiation burden associated with imaging of suspected appendicitis-related abscess: Pathway to a radiation free MR appendicitis imaging protocol," Society for Pediatric Radiology, San Francisco, CA, May 2, 2019.

Overman, R. E., Kartal, T., Many, B. T., Jones, R. E., Lautz, T. B., Xiao, J., ... Newman, E. A., "Optimization of Image-Guided Percutaneous Core Needle Biopsy For Initial Diagnostic Management of Neuroblastoma: A Pediatric Surgical Oncology Research Collaborative Study," American Pediatric Surgical Association, Boston, MA, May 2019.

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.

Poster Presenter, "High Rates of Central Venous Line Replacement or Revision in Children with Cancer at US Children's Hospitals," American Academy of Pediatrics, National Conference & Exhibition, October 2018.

Poster Presenter, "Should We Look for Hirschsprung Disease in All Children with Meconium Plug Syndrome?" American Academy of Pediatrics, National Conference & Exhibition, October 2018.

Presenting Author, "Thoracoscopy or Thoracotomy for the management of metastatic osteosarcoma- A Pediatric Surgical Oncology Research Study," American Pediatric Surgical Association, Boston, MA, May 2019.

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.

Williams, K., Lautz, T. B., Oyetunji, T., "Postoperative antibiotic administration in children with non-perforated appendicitis," American College of Surgeons, Scientific Forum, Boston, MA, October 2018.

Ledwon, Joanna, PhD

Presenter, "Characterization of the Genomic Response to Tissue Expansion: Can It Help Us?" American Association of Plastic Surgeons, 2019.

Presenter, "Characterization of the Genomic Response to Tissue Expansion: Can It Help Us?" Northwestern University Plastic Surgery Research Day, 2019.

Presenter, "Characterization of the Genomic Response to Tissue Expansion: Can It Help Us?" Plastic Surgery Research Council, 2019.

Presenter, "Osteogenic Differentiation of MSC as a Model Study of the Postnatal Progressive Crouzon Syndrome", Plastic Surgery Research Council, 2018.

Presenter, "Role of SFRP2 in Epidermis Growth after Stimulation by Tissue Expansion", Northwestern University Research Day, 2019.

Presenter, "Role of SFRP2 in Epidermis Growth after Stimulation by Tissue Expansion", Surgical Grand Rounds: Research Presentations, 2019.

Lee, Oukseub, PhD

Lee O., Pilewskie M., Xu, Y., Benante, K., Blanco, L., Heleynowski, I., ... Khan, S. A., "Local transdermal therapy (LTT): Drug permeation and distribution of telapristone acetate (TPA) in a pre-surgical window study of women undergoing mastectomy", San Antonio Breast Cancer Symposium, San Antonio, TX, December 4-8, 2018.

Lee, O., Sullivan, M. E., Xu, Y., Shidfar, A., Ivancic, D., Zeng, Z., ... Khan, S. A., "Progesterone receptor (PR) antagonism by telapristone acetate (TPA): A randomized, placebo-controlled phase IIB pre-surgical window trial in women with stage 0-II breast cancer," San Antonio Breast Cancer Symposium, San Antonio, TX, Dec 4-8, 2018.

Lemoine, Caroline, MD

"Hepatoblastoma and Hepatocellular Carcinoma," Pediatric Surgery Fellowship Teaching Curriculum, Ann & Robert H. Lurie Children's Hospital of Chicago, IL, October 2018.

Lemoine, C., Brandt, K., Caicedo, J. C., Superina, R., "Internal splits: a way to help reduce the liver transplant waitlist time in children with a low calculated MELD score," International Pediatric Transplantation Association, Vancouver, Canada, May 2019.

Lemoine, C., Brandt, K., Brennan, K., Kodiak, T., Cohran, V., Superina, R., "Do patients with gastroschisis have worst outcomes after pediatric intestinal transplantation?" Conference of the Intestinal Rehabilitation and Transplantation Association, Paris, France, July 2019.

Lemoine, C., Brandt, K., Brennan, K., Kodiak, T., Cohran, V., Superina, R., "Outcomes after pediatric intestinal transplantation: A comparative analysis between a single program and the national database," Conference of the Intestinal Rehabilitation and Transplantation Association, Paris, France, July 2019.

Lemoine, C., Brandt, K., Brennan, K., Kodiak, T., Cohran, V., Superina, R., "Results from a single institution pediatric intestinal transplant database: Pertinent clinical data absent from national databases," Conference of the Intestinal Rehabilitation and Transplantation Association, Paris, France, July 2019.

Lemoine, C., Brandt, K., Keswani, M., Superina, R., "Factors Associated with Early Peritoneal Dialysis Catheter Dysfunction," Canadian Association of Pediatric Surgeons Meeting, Toronto, Canada, September 2018.

Lemoine, C., Brennan, K., Thompson, C., Lautz, T., Cohran, V., Superina, R., "Repeat Serial Transverse Enteroplasty (reSTEP): Is it worth it?," Pediatric Intestinal Failure and Rehabilitation Symposium, Pittsburgh, PA, September 2018.

Lemoine, C., Lokar, J., McColley, S. A., Alonso, E. M., Superina, R., "Cystic Fibrosis and Portal Hypertension: Shunt or Transplant?" Canadian Association of Pediatric Surgeons Meeting, Toronto, Canada, September 2018.

Lemoine, C., Superina, R., "Experience with Meso-Rex bypass after segmental liver transplant for the treatment of symptomatic portal vein thrombosis," International Liver Transplantation Society Annual Congress, Toronto, Canada, May 2019.

Faculty Presentations

Lemoine, Caroline, MD (cont.)

Lemoine, C., Taylor, S., Porta, N., Superina, R., "A rare case of congenital portosystemic shunt in a neonate with acute liver failure," First Meeting on Congenital Portosystemic Shunts, Paris, France, March 2019.

Lemoine, C., Taylor, S., Porta, N., Superina, R., "A case of Abernethy malformation preventing liver regeneration in a neonate with acute liver failure due to gestational alloimmune liver disease," International Liver Transplantation Society Annual Congress, Toronto, Canada, May 2019.

"Surgical management of short gut syndrome," International Symposium of Portal Hypertension and Short Bowel Syndrome, Hospital da Criança Santo Antônio, Porto Alegre, Brazil, May 2019.

Leventhal, Joseph, MD, PhD

Invited Speaker, "Combined Kidney and Stem Cell Transplantation for Tolerance Induction Satellite Symposium," American Transplant Congress, June, 2019.

Invited Speaker, "New Therapies for Prevention of AMR," Scientific Advisory Board Meeting, Coral Gables, FL, April 5, 2019.

Invited Speaker, "Overview: Kidney Transplantation," Optum Health Annual National Conference, Minneapolis, MN, October 15, 2018.

Invited Speaker, "Review of Clinical Trials in Transplant Tolerance," 9th International Conference on Living Donor Abdominal Transplant, Matera, Italy, August 30-September 5, 2018.

Invited Speaker, "State of the Art: Transplantation Overview & Biomarkers of Transplantation Tolerance," Mexican Society of Transplantation, Queretaro, Mexico, October 17-19, 2018.

Invited Speaker, "Update on Solid Organ Transplantation and Role of ECP," ASFA Annual Meeting, Portland, OR, May 14-15, 2019.

Oral Abstract, "Superiority of Donor-Specifically vs. Polyclonally Expanded Regulatory T Cells in Controlling Graft Rejection in the NSG Mouse Human Skin Graft Model," American Transplant Congress, Boston, MA, June 4, 2019.

Oral Abstract, "Ten Year Follow-Up of a Phase 2 Clinical Trial to Induce Tolerance in Living Donor Renal Transplant

Recipients," American Transplant Congress, Boston, MA, June 4, 2019.

Malaisrie, S. Chris, MD

"Aortic Valve Repair and Undertreatment of Atrial Fibrillation," AATS 99th Annual Meeting, Toronto, Canada, May 6, 2019.

"Association of Volume and Outcomes in 234,556 Patients undergoing Surgical Aortic Valve Replacement in North America: A Society of Thoracic Surgeons Adult Cardiac Surgery Database Analysis," STS 55th Annual Meeting, San Diego, CA, January 2019.

"Concomitant Maze Operation and Left Atrial Appendage Closure During Valve or Coronary Surgery," AATS 99th Annual Meeting, Toronto, Canada, May 7, 2019.

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

"SAVR or TAVR? Options and Trials," Northwestern Snowbirds - Hot Topics in Cardiovascular Medicine, Bonita Springs, FL, March, 2019.

"Transcatheter Options for TR," Saint Thomas Health CME Conference, Nashville, TN, May 17, 2019.

"Stochastic Flow Co-expression Signatures: A novel concept for volumetric 4D flow assessment with application to aortic valve disease," ISMRM 27th Annual Meeting, Montreal, Canada, May, 2019.

"Thoraflex Hybrid FDA clinical trial: Early results," CX Global Stars and Rising Stars - Thoracic abstracts sessions at Charing Cross International Symposium, Olympia, London, April, 2019.

"Who Should get SAVR in 2019?" Saint Thomas Health CME Conference, Nashville, TN, May 17, 2019.

"4D Flow v Cath: A novel virtual catheter technique for assessing hemodynamics in aortic valve disease," SCMR 22nd Annual Scientific Sessions Conference, Bellevue, WA, February, 2019.

Mathew, James, PhD

Invited Speaker, "Regulatory T cell Therapy for Organ Transplantation and Autoimmune Diseases: The Northwestern Experience," 2nd Treg Summit, Boston, MA, May 21, 2019.

Mathew, James, PhD (cont.)

Tollerud, D., Leventhal, J., Galvin J., Mathew, J., Gallon, L., Stare, D., ... Ildstad, S., "Quality of Life in Tolerant Living Donor Kidney Transplants vs. Standard of Care. American Transplant Congress," Boston, MA, June 2, 2019.

Voss, J. H., Zheng, F., Jendrisak, M. D., Leventhal, J. R., Zhang, Z. J., Mathew, J. M., "Superiority of Donor-Specifically vs. Polyclonally Expanded Regulatory T Cells in Controlling Graft Rejection in the NSG Mouse Human Skin Graft Model," American Transplant Congress, Boston, MA, June 4, 2019.

McCarthy, Patrick, MD

Discussant. Surgical Intervention for Ischemic Mitral Regurgitation: Critical Role of Anatomic Staging. Michigan Society of Thoracic and Cardiovascular Surgeons Annual Meeting. Thompsonville, MI, August 2018.

The Infected Tricuspid Valve. Surgical Intervention for Ischemic Mitral Regurgitation: Critical Role of Anatomic Staging. Michigan Society of Thoracic and Cardiovascular Surgeons Annual Meeting. Thompsonville, MI, August 2018.

Bringing Advanced Care Closer to Central Illinois. Bluhm Cardiovascular Institute CME Close to Home: Clinical Advances for Advanced Practice Providers and the Primary Care Physician. Northwestern Medicine. Champaign, IL, September 2018.

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

Panelist: Coapt Trial Results: What it means for Clinical Practice Today and Future Clinical Trials. ACC/AATS 2018 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2018.

Moderator: Session III: Hot Topics in Aortic Stenosis I. ACC/AATS 2018 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2018.

Panelist: Session IX: Aortic Valve Disease Potpourri. ACC/AATS 2018 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, October 2018.

Panelist: Session II: Structural Heart Therapies I. 5th Annual Chicago CSI: Case Based Coronary and Structural Heart International Update. Northwestern Medicine. Chicago, IL, October 2018.

Moderator: Session III: Surgery for Mitral Valve: a Case-Based Approach. Mastering the Mitral Valve: A Case Base Approach. Cleveland Clinic. New York, NY, December, 2018.

Managing AF and the Tricuspid Valve During Mitral Valve Surgery. Session III: Surgery for Mitral Valve: a Case-Based Approach. Mastering the Mitral Valve: A Case Base Approach. Cleveland Clinic. New York, NY, December, 2018.

Case of Severe TR after Previous Mitral Surgery. Session IV: Challenging Cases I. Mastering the Mitral Valve: A Case Base Approach. Cleveland Clinic. New York, NY, December, 2018.

Moderator: Adult Cardiac: Arrhythmia/Atrial Fibrillation. The 55th Annual Society of Thoracic Surgeons Meeting. San Diego, CA, January 2019.

Cryo Ablation with Mitral Valve surgery: An Effective, Efficient Approach. Adult Cardiac: Arrhythmia/Atrial Fibrillation. The 55th Annual Society of Thoracic Surgeons Meeting. San Diego, CA, January 2019.

Debate: Respect Not Resect in Mitral Valve Repair: CON. Session: Adult Cardiac: Mitral/Tricuspid. The 55th Annual Society of Thoracic Surgeons Meeting. San Diego, CA, January 2019.

Surgical Lessons for Transcatheter Mitral Repair Techniques. Inaugural Broward Health Cardiovascular Symposium. Fort Lauderdale, FL, February 2019.

Moderator: The End of the Stethoscope: The Evolution and Future of Heart Care. Northwestern Medicine Bluhm Cardiovascular Institute. Naples, FL, February 2019.

Moderator and Panel Discussant: Northwestern Medicine Bluhm Cardiovascular Institute & DuPage Medical Group: The Latest Clinical Updates in Heart Disease. South Barrington, IL, February 2019.

"Democratizing" Medicine in a Data and Tech-Driven World. Jaharis Symposium on Health Law and IP at DePaul University College of Law. Chicago, IL, March 2019.

Standardizing Quality throughout the Northwestern System. Edwards Lifesciences Program during ACC.19 American College of Cardiology's 68th Annual Scientific Session & Expo. New Orleans, LA, March 2019.

Course Co-Director. Northwestern Snowbirds: Hot Topics in Cardiovascular Medicine. Bonita Springs, FL, March 2019.

Faculty Presentations

McCarthy, Patrick, MD (cont.)

Moderator. Session II: Arrhythmias. Northwestern Snowbirds: Hot Topics in Cardiovascular Medicine. Bonita Springs, FL, March 2019.

Moderator. Session IV: Heart Failure, Pulmonary Hypertension. Northwestern Snowbirds: Hot Topics in Cardiovascular Medicine. Bonita Springs, FL, March 2019.

Mitral Valve Surgery Rules! Session V: Valve Disease: Halfway Through the Revolution. Northwestern Snowbirds: Hot Topics in Cardiovascular Medicine. Bonita Springs, FL, March 2019.

Moderator. Session VI: Coffee with the Legends. Northwestern Snowbirds: Hot Topics in Cardiovascular Medicine. Bonita Springs, FL, March 2019.

Moderator. Session 1: Expert Technique/Video Session: Leaflet Prolapse. AATS Mitral Conclave. New York City, NY, May 2019.

Annuloplasty Strategy. Breakout Session 5: The Essential Tool Box. AATS Mitral Conclave. New York City, NY, May 2019.

Title: Case 3. Expert Technique/Video Session 2: A Challenging Case I did this year. AATS Mitral Conclave. New York City, NY, May 2019.

Moderator. Breakout Session 11: Atrial Fibrillation. AATS Mitral Conclave. New York City, NY, May 2019.

Moderator. Breakfast Breakout Session 14: Degenerative Disease and Abstract Mini-Orals. AATS Mitral Conclave. New York City, NY, May 2019.

Commentary: Why I continue to use Bioprostheses in Young Patients. Session: Plenary Session 8 - Closing Plenary & The Top Four Controversial Abstracts. AATS Mitral Conclave. New York City, NY, May 2019.

Invited Video: Anterior Leaflet Repair Strategy. Session: Mitral Valve Repair Essentials. American Association for Thoracic Surgery (AATS) 99th Annual Meeting. Toronto, Canada, May 2019.

Moderator. AATS/TCT Transcatheter Treatment of Functional MR Deep Dive. American Association for Thoracic Surgery (AATS) 99th Annual Meeting. Toronto, Canada, May 2019.

Discussant. Second Bypass Run to Perfect Degenerative Mitral Valve Repair. Decision Making Algorithm, Safety and

Outcomes. Session: Adult Cardiac Plenary: Innovative Strategies and Perfecting Outcomes. American Association for Thoracic Surgery (AATS) 99th Annual Meeting. Toronto, Canada, May 2019.

Master Video: Batrial Maze. Session: Arrhythmia Master Class. American Association for Thoracic Surgery (AATS) 99th Annual Meeting. Toronto, Canada, May 2019.

Moderator: The End of the Stethoscope: The Evolution and Future of Heart Care. Northwestern Medicine Bluhm Cardiovascular Institute. Naples, FL, February 2019.

Visiting Professor. Mitral Valve Repair and AF Ablation Surgery: Getting to the Heart of the Matter. Surgical Grand Rounds. McGill University, Division of Cardiac Surgery. Montreal, Canada, May 2019.

Bluhm Cardiovascular Institute. Northwestern Medicine North Region (NMNR) Board of Directors Meeting. Lake Forest, IL, May 2019.

Bluhm Cardiovascular Institute. Performance, Analytics, Risk, Quality Conference. Northwestern Medicine. Chicago, IL, May 2019.

Mitral Valve Repair. Cardiothoracic Anesthesiology Lecture. Northwestern Memorial Hospital. Chicago, IL, May 2019.

Moderator. Bicuspid Aortic Valve Symposium. Northwestern Memorial Hospital. Chicago, IL, June 2019.

Discussant. Transcatheter Mitral Therapies: Thing One. Transcatheter Valve Therapeutics (TVT) 2019: The Structural Heart Summit. Chicago, IL, June 2019.

Live Case Discussant. Live Case #1: Mayo Clinic - Mitral. Transcatheter Valve Therapeutics (TVT) 2019: The Structural Heart Summit. Chicago, IL, June 2019.

Reactions from the Surgical Community. Session: TAVR - Thing One. Transcatheter Valve Therapeutics (TVT) 2019: The Structural Heart Summit. Chicago, IL, June 2019.

Percutaneous Repair/Replacement of the Mitral Valve Other Than MitraClip. Session: Current State of Percutaneous Mitral Valve Therapy. 2019 American Society of Echocardiography (ASE) Scientific Sessions, Portland, OR, June 2019.

McCarthy, Patrick, MD (cont.)

Timing of Intervention for Mitral Regurgitation and Contemporary Surgical Management for Mitral Regurgitation. Session: Mitral Regurgitation: Evolving Understanding. 2019 American Society of Echocardiography (ASE) Scientific Sessions. Portland, OR, June 2019.

Functional Tricuspid Regurgitation: Repair, Replace, or Ignore. Session: Functional Tricuspid Regurgitation: The Old and The New. 2019 American Society of Echocardiography (ASE) Scientific Sessions. Portland, OR, June 2019.

Degenerative MR: When to Intervene? Session III: Coronary Artery Disease & Structural Heart Disease. The 8th Annual Chicago Cardiovascular Update. Chicago, IL, July 2019.

Merkow, Ryan, MD, MS

Invited Speaker, "Impact of Research on Patient Care," American College of Surgeons Cancer Programs. Cancer Programs Annual Conference, Chicago, IL, September 2018.

Invited Speaker, "PRO's - Clinical & Health Services Research Breakout Session," AAS Fundamentals of Surgical Research Course, Boston, MA, October 2018.

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.

Invited Speaker, "Introduction to PRO's," "Application of Patient Reported Outcomes in Surgical Quality Assessment: The New Frontier?" Annual Academic Surgical Congress, Clinical and HSR Committee Session, Houston, TX, February 2019.

Invited Speaker, "The Bare Minimum - Great Question, Approach, and Team," ACS Quality and Safety Conference, Conducting "Quality" Research in Quality Session, Washington, DC, July 2019.

Odell, David, MD, MMSc

Moderator, Cardiothoracic Education- Scientific Session, Society of Thoracic Surgeons Annual Meeting, January 27, 2018, Ft. Lauderdale, FL.

Moderator, Education in Cardiothoracic Surgery - Scientific Session, American Association for Thoracic Surgery, Annual Meeting, April 27, 2018, San Diego, CA.

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

Speaker, "Preparing for residency: Pitfalls and Pathways," In the Looking to the Future scholarship forum, Society of Thoracic Surgeons Annual Meeting, January 27, 2018, Ft. Lauderdale, FL.

Speaker, "Preparing to Succeed: Pathways and Pitfalls in Cardiothoracic Training," In the Looking to the Future scholarship forum, Society of Thoracic Surgeons Annual Meeting, January 27-30, 2019, San Diego, CA.

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

Speaker, "The Value of Great Mentorship: How to Find a Mentor and How to Be a Mentee," Society of Thoracic Surgeons Annual Meeting, January 27-30, 2019, San Diego, CA.

Pham, Duc Thinh, MD

"Acute and Chronic Options for Advanced Heart Failure," Bluhm Cardiovascular Institute Snowbirds Conference, Bonita Springs, FL, March 2019.

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

"Changing Landscape of Advanced Heart Failure: A CT Surgeon's Perspective," Scripps Memorial Hospital Medicine Grand Rounds, San Diego, CA, November 2018.

"Cost-Efficacy and Policy in Transplant and MCS," International Society for Heart and Lung Transplantation, Orlando, FL, 2019.

"Durable mechanical circulatory support," Devices for Heart Failure Conference, CSI Foundation, Frankfurt, Germany, December 2018.

Faculty Presentations

Pham, Duc Thinh, MD (cont.)

"Healthcare Transformation and Mechanical Circulatory Support," Leadership Alliance for Cardiovascular Care, Pittsburgh, PA, September 2018.

"Heart Failure: Current VAD Options," Annual Illinois Perfusion Association Meeting, Chicago, IL, February 2019.

"Implant Technique - Surgical experiences with HVAD," Medtronic Asia-Pacific MCS User's Meeting, March 2019.
"Lateral experiences- How has it impacted practice and outcomes?" Medtronic Asia-Pacific MCS User's Meeting, March 2019.

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

"The Latest Advances in Heart Failure Management using Mechanical Circulatory Support - Northwestern's Program Experience," San Diego Heart Failure Network, San Diego, CA, November 2018.

VAD Innovator Panel, Medtronic Event at STS, San Diego, CA, January, 2019.

Posluszny, Jr, Joseph, MD

Stocker, B. W., Weingarten, N., Weiss, H. K., Engelhardt, K. E., Posluszny, J. A., "Predicting Length of Stay for Acute Care Surgery Patients," EAST Trauma Meeting, Austin, TX, January 2019.

Stocker, B. W., Weingarten, N., Weiss, H. K., Masteller, M., Johnston, A., Posluszny, J., "Reducing Reintubation Rates in the SICU," Chicago, IL, May 2019.

Weingarten, N., Lee, H., Weiss, H. K., Stocker, B. W., Masteller, M., Johnston, A., ... Posluszny, J., "Critical Care Training Course for Surgical Interns Improves Comfort, Knowledge and Ability to Manage Patients with Common Surgical Critical Care Conditions," Chicago Committee on Trauma, Chicago, IL, May 2019.

Weiss, H. K., Cook, B., Stocker, B. W., Weingarten, N., Engelhardt, K. E., Posluszny, J., "What Are We Looking For: Frailty Scores Lacking Uniformity in Identifying Patients," Academic Surgical Congress, Houston, TX, February 2019.

Weiss, H. K., Cook, B., Stocker, B. W., Weingarten, N., Engelhardt, K. E., Posluszny, J., "What Are We Looking For: Frailty Scores Lacking Uniformity in Identifying Patients," Chicago Committee on Trauma, Chicago, IL, May 2019.

Weiss, H. K., Errea, M., Stocker, B. W., Weingarten, N., Engelhardt, K. E., Cook, B., Posluszny, J., "Sarcopenia and Frailty: Similar Yet Distinct Measurements in Geriatric Trauma and Emergency Surgery," Academic Surgical Congress, Houston, TX, February 2019.

Raval, Mehul, MD

Anderson, K. T., Bartz-Kurycki, M. A., Ferguson, D. M., Raval, M. V., Wakeman, D., Rothstein, D., ... Tsao, K., "Opioid Prescribing Practices in Pediatric Surgeons: Changing in Response to the Opioid Epidemic?" 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics Oral Session, Houston, TX, February 2019.

Baxter, K. J., Raval, M. V., Short, H. L., Steinberg, R. S., Travers, C. D., Heiss, K. F., "Decreased Opioid Prescribing in Children Using an Enhanced Recovery Protocol. Section on Surgery," 2018 American Academy of Pediatrics National Conference & Exhibition, Orlando, FL, November 2018.

Baxter, K. J., Short, H. L., Steinberg, R. S., Heiss, K. F., Raval, M. V., "Decreased Opioid Prescribing in Children Using an Enhanced Recovery Protocol," Scientific Forum 218, Pediatric Surgery II, American College of Surgeons 104th Annual Clinical Congress, Boston, MA, October 2018.

Cairo, S. B., Rothstein, D. H., Aranda, A., Bartz-Kurycki, M. A., Baxter, K. J., Bonaaso, P., ... Raval, M. V., ... Waterhouse, J., "Cholecystectomy for Biliary Dyskinesia in Pediatric Patients: Patient Characteristics and Post-operative Outcomes of a Multi-Institutional Cohort. Section on Surgery," 2018 American Academy of Pediatrics National Conference & Exhibition, Orlando, FL, November 2018.

Cunningham, M., Flores, C., Zhu, H., Lopez, M., Vogel, A., Raval, M. V., Shah, S., "A Single Educational Intervention May Not Be Sufficient to Change Opioid Prescribing Practices for Some Surgeons", Annual American Pediatric Surgical Association Meeting, Boston, MA, May, 2019.

Hedges, E. A., Browne, M., Moriarty, K. P., Raval, M. V., Rothstein, D. H., Wakeman, D., "Survey on Post-procedural Opioid Prescribing in Children," 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics - Quality of Care QuickShot Session, Houston, TX, February 2019.

Ingram, M.E., Calabro, K., Polites, S., McCracken, C. E., Aspelund, G., Rich, B. S., ... Raval, M. V., "Do Disparities Exist in Pediatric Surgery? A Systematic Review of Outcomes in Pediatric Appendectomy," 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics QuickShot Session 2, Houston, TX, February 2019.

Raval, Mehul, MD (cont.)

Invited Lecturer, "Management of Pediatric Thyroid Nodules," Pediatric Pearls, 2018-2019.

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 Panelist, "Sustaining quality improvement changes", Lurie Improvement Scholars Course, Chicago, IL, 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.

Invited Speaker, "Synergy Between Research and Quality Improvement", Ann & Robert H. Lurie Improvement Scholars Course, Chicago, IL, January 2019.

Invited Speaker, "Thyroid nodules in children", Near North Health Care Pediatric Surgery Series, Chicago, IL, May 2019.

Invited Speaker, "What's in Your Quality and Safety Toolkit? APSA Gives You the Tools! Quality and Safety Session", Annual American Pediatric Surgical Association Meeting, Boston, MA, May 2019.

Liu, J. Y., Hu, Q. L., Merkow, R. P., Bilimoria, K. Y., Hu, Y., Ko, C. Y., ... Raval, M. V., "Are Kids More Than Just Little Adults? A Comparison of Surgical Outcomes," 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics - Quality of Care QuickShot Session, Houston, TX, February 2019.

"Longitudinal Cost Utilization for Common Neonatal Surgical Conditions," Pediatric Academic Societies Meeting, Baltimore, MD, April 2019.

Many, B. T., Hasan, M., Vacek, J., Rizeq, Y., Raval, M. V., Holl, J. L., ... Ghomrawi, H., "Conceptual Frameworks for Postoperative Recovery: A Scoping Review", 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 2019.

Miller, J. B., Adams-Chapman, I., Piazza, A., Bugg, G., Moore, R., Wang, H., Raval, M. V., "Longitudinal Cost Utilization for Common Neonatal Surgical Conditions," 2018 Children's Hospitals Neonatal Consortium Annual Symposium, Columbus, OH, October 2018.

Piper, K., Baxter, K. J., McCarthy, I., Raval, M. V., "Method for Distinguishing Children's Hospitals from Non-Children's Hospitals in Claims Data Sources," 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics QuickShot Session 2, Houston, TX, February 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.

Rich, B., Silverberge, J., Raval, M. V., Gadepalli, S., Besner, G., Rothstein, D., "Specialization in Pediatric Surgery: Results of a Survey to the American Pediatric Surgical Association," Annual American Pediatric Surgical Association Meeting, Boston, MA, May 2019.

Rizeq, Y. K., Many, B. T., Vacek, J. C., Silver, I., Goldstein, S. D., Abdullah, F., Raval, M. V., "Trends in Perioperative Opioid and Non-Opioid Utilization during Ambulatory Surgery in Children", 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 2019.

Rizeq, Y. K., Many, B. T., Silver, I., Hebal, F., Stake, C., Vacek, J. C., ... Raval, M. V., "Trends of Opioid and Non-Opioid Utilization during Ambulatory Surgery in Children," 14th Annual Academic Surgical Congress, Clinical/Outcomes: Pediatrics - Patient Outcomes QuickShot Session 1, Houston, TX, February 2019.

Session Moderator, "A Single Educational Intervention May Not Be Sufficient to Change Opioid Prescribing Practices for Some Surgeons", Annual American Pediatric Surgical Association Meeting, Boston, MA, May 2019.

Session moderator, 14th Annual Academic Surgical Congress, Education QuickShot Session 1, Houston, TX, February 2019.

Vacek, J., Rizeq, Y., Many, B., Raval, M. V., Abdulla, F., Goldstein, S., "Increasing Trends of Next-Day Appendectomies for Presentation of Acute Appendicitis After Routine Hour, 15th Annual Lewis Landsberg Research Day, Northwestern University, Chicago, IL, April 2019.

Faculty Presentations

Reynolds, Marleta, MD

Port, E., Hebal, F., Hunter, C. J., Malas, B., Reynolds, M., "Measuring the impact of brace intervention on pediatric pectus carinatum," Pacific Association of Pediatric Surgeons, Sapporo, Japan, March 2018.

Port, E., Hebal, F., Hunter, C. J., Malas, B., Reynolds, M., "Improved method for defining severity of pectus excavatum deformity and evaluating success of repair," Academic Surgical Congress, Houston, TX, February 2019.

Port, E., Hunter, C. J., Malas, B., King, K., Reynolds, M., "Evaluating Patient Compliance of Pectus Carinatum Orthoses with Temperature Sensor," American Pediatric Association, Boston, MA, May 2019.

Port, E., Hunter, C. J., Kujawa, S., Sands, L., Reynolds, M., "Examining the Effect of Pectus Excavatum Deformity on Heart Function Using Echocardiogram," British Association of Pediatric Surgeons, Nottingham, UK, July 2019.

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, "Iliac Branched Stent Grafting Techniques, Outcomes, and Limitations," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6, 2018.

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," American Society of Nephrology, San Diego, CA, October 2018.

Invited Speaker, "Primary alloimmunity - STAR 2019," Cutting Edge in Organ Transplantation, Phoenix, AZ, February 2019.

Invited Speaker, "Sensitization in Transplantation; Assessment of Risk," One Lambda, March 2019.

Invited Speaker, "Optimizing listing of unacceptable antigens," American Transplant Congress, Boston, MA, June 2019.

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

Invited Speaker, "The impact of epitopes on matching and outcome," National Kidney Registry, New York, NY, June 2019.

Invited Speaker, "Sensitization in Transplantation; Assessment of Risk," International Renal and Transplant Symposium, Manila, PH, August 2018.

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

Invited Speaker, "De-Novo HLA-DQ. New approaches," International Histocompatibility Workshop - leaders group, Leiden, November 2018.

Invited Speaker, "Sensitization in Transplantation; Assessment of Risk," Israel Transplant Society, Israel, November 2018.

Invited Speaker, "Measurement and Monitoring of Circulating DSA," Consensus Guidelines for Diagnosis and Treatment of AMR, TTS - International Transplantation Society, Los Angeles, CA, March 2019.

Invited Speaker, "Improving transplant compatibility to improve graft survival," International Pediatric Transplant Association, Vancouver, CAN, May 2019.

Rowell, Erin, MD

"Current Concepts in Pediatric Fertility Preservation," Pediatric Grand Rounds, Advocate Children's Hospital, Park Ridge, IL, September 25, 2018.

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

"Fertility Preservation in Pediatric Cancer Patients: Why, When and How," Top Educational Content talk, American Pediatric Surgery Association 50th annual meeting, Boston, MA, May 20, 2019.

Schwulst, Steven, MD

Invited Speaker, "Open Abdomen in the Management of Complicated Intraabdominal Sepsis, 1st Bao'an Sepsis Summit Forum, Shenzhen, China, December 8, 2018.

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.

Invited Speaker, "Common Molecular Pathways Between Traumatic Brain Injury and Neuropsychiatric Disorders," Yale Department of Surgery Grand Rounds, Yale Medical School, July 14, 2019.

Invited Speaker, "Early Monocyte Depletion Improves Long-Term Learning, Memory, and Skill Acquisition in Mice After Traumatic Brain Injury," Shock Society, 40th Annual Conference on Shock, San Diego, CA, June 8-11, 2019.

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.

"Fetal Surgical Innovation", 30th Spang Lectureship, Essentia Health, Duluth, Minnesota September 7, 2018.

"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

Invited Speaker, "Kidney Transplantation in the African American Community," NUATC Transplant Case Manager Conference, Northwestern Memorial Hospital, Chicago, IL, Oct 30, 2018.

Invited Speaker, "Disparities in Access to Transplantation," National Kidney Foundation Salute to Pioneers in Transplantation, Olympia Fields, IL, May 2, 2019.

Soper, Nathaniel, MD

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

Invited Lecture and Instructor, "Laparoscopic Repair of PEH," Foregut Surgery PG Course at ACS Clinical Congress, Boston, MA, October 22, 2018.

Invited Speaker: Meet the Expert, "Management of Complicated Gallbladder Disease", ACS Clinical Congress, Boston, MA, October 24, 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, "Pearls from the Forefathers of Foregut Surgery," SAGES Meeting, Baltimore, MD, April 4, 2019.

Invited Panelist, "State of the Art Consensus Meeting on Prevention of Bile Duct Injury during Cholecystectomy: Update on Where We Are and Next Steps," SAGES Meeting, Baltimore, MD, April 4, 2019.

Invited Speaker, "Leadership Challenges," ACS Surgeons as Leaders: From Operating Room to Boardroom Meeting, Durham, NC, April 29, 2019.

Invited Speaker, "Art and Principles of Leadership," ACS Surgeons as Leaders: From Operating Room to Boardroom Meeting, Durham, NC, April 30, 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.

Invited Speaker, "Decision Making for Failed Reflux Procedures, Re-do Funduplications, and Large Hiatal Hernias," Co-presenter Dr. Anne Lidor, DDW Meeting, San Diego, CA, May 20, 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.

Strong SA. Current Management of Crohn's Disease. Joint ASCRS/SSAT Symposium (symposium moderator). American Society of Colon and Rectal Surgeons. Cleveland, Ohio; June 2019.

Strong SA. Efficiency of biologic drugs - delay of surgery, more morbidity? Society for Surgery of the Alimentary Tract. San Diego, California; May 2019.

Faculty Presentations

Strong, Scott, MD (cont.)

Strong SA. Managing IBD in the era of biologics (symposium moderator). American Gastroenterological Association and Society for Surgery of the Alimentary Tract. San Diego, California; May 2019.

Strong SA. Consultants corner (panelist). 7th Annual Chicago Colorectal Symposium. Chicago, Illinois; March 2019.

Strong SA. Building your IBD program: Providing full IBD care in the university setting (panelist). Crohn's and Colitis Congress. Las Vegas, Nevada; January 2019.

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.

Guest Lecturer, "Best Practices in Post-Operative Opioid Prescribing," Intro to Phase 3—Applied Anatomy: Pain Management, Northwestern University Feinberg School of Medicine, Chicago, IL, May 2019.

Invited Speaker, "AUA Quality Improvement Summit: Drug Disposal Following Surgery," AUA's Quality Improvement Summit on Opioid Stewardship in Urology, Linthicum, MD, December 8, 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, "Best Practices in Post-Operative Opioid Prescribing," Intro to Phase 3—Applied Anatomy: Pain Management, Northwestern University Feinberg School of

Medicine, Chicago, IL, May 2, 2019.

Invited Speaker, "Beyond Opioids: Evidence-Based Delivery of Alternative Treatments for Chronic Pain," Patient-Centered Outcomes Research Institute (PCORI) and Aetna, Inc., Washington, DC, October 2, 2018.

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, "Engaging patients and retraining professionals on multimodal pain control and opioid alternatives: a New Hybrid Training Program for your AEI," Annual ACS Surgical Simulation Summit: An International Multi-Professional Meeting, Chicago, IL, March 15, 2019.

Invited Speaker, "Health Care Policy Session: Combating the Opioid Crisis," 1st Annual Illinois Surgical Conference (ISC), Chicago, IL, April 27, 2019.

Invited Speaker, "Hernia Repair - Past, Present and Future," Long Beach Medical Center Grand Rounds, Newport Beach, CA, September 6, 2018.

Invited Speaker, "How Much Does Technical Skill Matter When Predicting Patient Outcomes?" 104th Annual Clinical Congress of the American College of Surgeons, Boston, MA, October 23, 2018.

Invited Speaker, "Improving Opioid Stewardship Amidst an Opioid Crisis," Pennsylvania NSQIP Consortium (PANC)/ Pennsylvania Opioid Surgical Stewardship Enterprise (POSSE) Webinar, October 18, 2018.

Invited Speaker, "Improving Opioid Stewardship and Managing the Opioid Crisis," The New IAHQ Webinar: Opioid Stewardship and Managing the Opioid Crisis, Illinois Association for Healthcare Quality, October 11, 2018.

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, "Opioid Reclamation Efforts," AUA Quality Improvement Summit: Opioid Stewardship in Urology, Linthicum, MD, December 8, 2018.

Invited Speaker, "Surgeon Video Review Session," The Art of Surgery Meeting, Michigan Surgical Quality Collaborative (MSQC), Grand Rapids, MI, September 14, 2018.

Invited Speaker, "The Current State of Hernia Repair: Big and Small and Everything in Between," Advocate Lutheran General Hospital (ALGH) Clinical Pathology/Radiology Conference (CPC), Park Ridge, IL, August 28, 2018.

Invited Speaker, "Video-Based Peer Feedback: Opening the "Black Box" of Surgery," Today's Innovations in Medical Education (TIME) Lecture Series, Northwestern University Feinberg School of Medicine, Chicago, IL, April 16, 2019.

Invited Speaker, "VISTA Video Peer Feedback," 1st Annual Illinois Surgical Conference (ISC), Chicago, IL, April 28, 2019.

Invited Speaker, "Sprint or Marathon? Do Short Term or Long Term Quality Measures Matter More in Hernia Surgery?" SAGES 2019 Annual Meeting, Baltimore, MD, April 5, 2019.

Invite Speaker, "Standards for the Management of Postoperative Pain in Older Adults," Expert Panel Meeting - Develop An Opioid Sparing Multimodal Pain Management Protocol for Older Adults Undergoing Surgery, Los Angeles, CA, May 23, 2019.

Keynote Speaker, "In Pursuit of Excellence," The Art of Surgery Meeting, Michigan Surgical Quality Collaborative (MSQC), Grand Rapids, MI, September 14, 2018.

Keynote Speaker, "Minimizing Opioid Prescribing in Surgery," Ontario Surgical Quality Summit, Toronto, ON, June 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.

"Sonographic Assessment of Cervical Lymph Nodes," ENDO2019 Advanced Hands-on Thyroid Ultrasound Workshop, New Orleans, LA, March 22, 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.

South S., Kang D., Ensor K., Saeed M., Swaroop, M. Teaching Applied Combat Tourniquets vs Improvised Civilian (TACTIC) Trial. Oral Presentation by Sam South. CCOT Regional Meeting, November 29, 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.

Jordan M. Rook, Ethan Wood, Marissa A. Boeck, Kevin J. Blair, Alexa Monroy, Eric J. Keller, Esteban Foianini, Mamta Swaroop. The Bolivian Trauma Patient's Experience: A Qualitative Needs Assessment. Presentation by Danielle Wishart. Presented at CCOT Resident/Medical Student trauma Paper Competition, Northwestern University, Chicago, IL.

NC Waitowich, S Jain, SL Graff, M Swaroop. Support Structures for Female Physicians: Motivations and Barriers to Gender-Specific Conferences and Symposia. POSTER by NC Waitowich. Northwestern Memorial Hospital Research Day, April 4, 2019.

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.

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/Harvard 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, February 2019.

S. Speedy, L. Tatebe, B. Wondimu, D. Kang, F. Cosey-Gay, M. Swaroop. Validation of a Tool: Bystander's Self-efficacy to Provide Aid to Victims of Traumatic Injury. ORAL presentation to Academic Surgical Council 2019, Houston, TX.

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.

Erica Ludi, Andrea Lazcano, Gabriel René Moren, Pablo Peñaranda, Leah Tatebe, Esteban Foianini, Mamta Swaroop, PRISA (Primera Respuesta Iniciada para la Seguridad de Accidentados) in Santa Cruz, Bolivia: A Pilot Study. Oral Presentation by Erica Ludi: ASE Candlelight Session, Chicago, IL, May 2019.

S. South, A. Pissaris, JE. Foianini, M. Swaroop. Multiple Data Collection Instruments Can Describe Pediatric Trauma Patterns in a Lower Middle-Income Country. Presented at PanAmerican Trauma Society Meeting, Cartagena, Colombia, August 2018.

S. South, K. Ensor, JE. Foianini, M. Swaroop. An Emergency System Dispatch Registry Describes Transportation Patterns in a Lower- and Middle-Income Country. Presented at PanAmerican Trauma Society Meeting, Cartagena, Colombia, August 2018.

S. South, M. Robles, JE. Foianini, M. Swaroop. A Workshop Tool for Establishing Small Prehospital Systems in Remote Areas in Lower- and Middle-Income Countries. Presented at PanAmerican Trauma Society Meeting, Cartagena, Colombia, August 2018.

Erica Ludi, Marissa Boeck, Samuel South, Marcelo Rios, Pablo Peñaranda, Keith Delman, Mamta Swaroop, Esteban Foianini MD. Saving Lives through an International Collaboration to Improve the Trauma System in Bolivia. Oral Presentation, Region 14 COT Meeting, Panama, May 2019.

Teitelbaum, Ezra, MD, MEd

Invited Speaker, "What Wrap? Dealing with Esophageal Dysmotility," Society of American Gastrointestinal and Endoscopic Surgeons, Annual Meeting, Baltimore, MD, April 4, 2019.

Teitelbaum, Ezra, MD, Med (cont.)

Invited Speaker, "Evidenced Based PEG and Peri-Procedural Management," Society of American Gastrointestinal and Endoscopic Surgeons, Annual Meeting, Baltimore, MD, April 5, 2019.

Invited Speaker, "Paraesophageal Hernia Repair: Evidence Based Updates in Hernia Repair. Society for Surgery of the Alimentary Tract, Digestive Disease Week, San Diego, CA, May 21, 2019.

Tomita, Tadaki, MD

Moderator, Upper Extremity Diseases," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

Moderator, "Visceral and Renal Artery Disease," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

"Venous Mapping in Anticipation of Ablation: Markers Precluding a Successful Outcome," 43rd Annual Northwestern Vascular Symposium, Chicago, IL, December 6-8, 2018.

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

Vavra AK, "Top 10 ways to improve your practice: Quality improvement and working with administration," Practice Management Tips for Young Surgeons Session, Society for Vascular Surgery Vascular Annual Meeting, National Harbor, MD, June 14, 2019.

Wertheim, Jason, MD, PhD

Invited Lecturer, "Future Innovations in Transplant: Bioartificial Kidney," US Department of Veterans Affairs, National Surgery Office, FY2019 Enhancing Transplant Care for Veterans Conference, Salt Lake City, UT, February 2019.

Invited Lecturer," Transplantation, Regeneration and Tissue Engineering," Thayer School of Engineering, Dartmouth College, Hanover, NH April 2019.

Invited Lecturer," Developing Replacement Tissue," National Kidney Foundation Renal Roundtable, St. Louis, MO, June 2019.

Invited Lecturer, "Engineering Tissues for Transplantation," 1st annual Illinois Surgical Conference, Chicago, IL, April 2019.

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.

"Being a student of genius' or Nagata template anymore," American Alpine Workshop of Plastic Surgery, Telluride, CO, February 20, 2018.

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

"Fat Grafting for Infant Treacher-Collins Syndrome: 4-year follow up," Telluride, CO, February 23, 2018.

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

Invited Lecturer, "Congenital Ear anomalies - Creating spiral curves is the key for success," ICPF 2019, Nagoya, Japan, July 25-29, 2019.

"I do not use 'manual tracing' or Nagata template anymore," American Alpine Workshop of Plastic Surgery, Telluride, CO, February 19, 2018.

"Microtia ear construction-autogenous approach," American Academy of Facial Plastic Surgery Annual Meeting, Dallas, TX, October 17 2018.

"Necrosis nightmare in auricular construction' or Nagata template anymore'," American Alpine Workshop of Plastic Surgery, Telluride, CO, February 22, 2018.

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

Faculty Presentations

Yamada, Akira, MD, PhD (cont.)

Microtia Hands-on Workshop, Northwell Health System, Plastic Surgery, NY, March 20, 2019.

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

Microtia Hands-on Workshop, University of Chicago Plastic Surgery, March 29, 2019.

Yang, Anthony, MD, MS

Invited Speaker. "Department of Surgery Grand Rounds." City of Hope: Grand Rounds, Pasadena, CA, June, 20-22, 2018.

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

Invited Speaker. "Current Treatment of Pancreatic Adenocarcinoma." 2018 Fall Chicago Area Cancer Registrars Association (CACRA) Educational Meeting, Chicago, IL, November 27, 2018.

Invited Speaker. Quality Improvement Session. 1st Annual Illinois Surgical Conference (ISC), Chicago, IL, April 27, 2019.

Faculty Publications

Abdullah, Fizan, MD, PhD

Port, E., Hebal, F., Hunter, C. J., **Abdullah, F.**, Malas, B. S., Reynolds, M. (2019). Measuring the impact of surgical intervention on pediatric pectus excavatum using white light scanning. *Journal of Pediatric Surgery*, pii: S0022-3468(19)30019-3.

Rizeq, Y. K., Many, B. T., Vacek, J. C., Silver, I., Goldstein, S. D., **Abdullah, F.**, Raval, M. V. (2019). Trends in perioperative opioid and non-opioid utilization during ambulatory surgery in children. *Surgery (United States)*, 166(2):172-176.

Williams, K., Baumann, L., **Abdullah, F.**, Hendrickson, R. J., & Oyetunji, T. A. (2019). Elective laparoscopic gastrotomy in children: potential for an enhanced recovery protocol. *Pediatric Surgery International*, 35(6):643-647.

Abecassis, Michael, MD, MBA

Ali, R., Yang, Y., Antkowiak, M., Gabr, A., Mora, R., Abouchaleh, N., ... **Abecassis, M. M.**, ... Riaz, A. (2019). Prognosticating Survival in Hepatocellular Carcinoma with Elevated Baseline Alpha-fetoprotein Treated with Radioembolization Using a Novel Laboratory Scoring System: Initial Development and Validation. *Cardiovascular and Interventional Radiology*, 42(5):700-711.

Antkowiak, M., Gabr, A., Das, A., Ali, R., Kulik, L., Ganger, D., ... **Abecassis, M. M.**, ... Riaz, A. (2019). Prognostic Role of Albumin, Bilirubin, and ALBI Scores: Analysis of 1000 Patients with Hepatocellular Carcinoma Undergoing Radioembolization. *Cancers*, Vol.11 (6), p.879.

Atiemo, K., Mazumder, N. R., Caicedo, J. C., Ganger, D., Gordon, E., Montag, S., ... **Abecassis M. M.**, ... Ladner, D. (2019). The Hispanic Paradox in Patients with Liver Cirrhosis: Current Evidence from a Large Regional Retrospective Cohort Study. *Transplantation*, Doi: 10.1097/TP.0000000000002733. [Epub ahead of print]. PMID: 30951016.

First, M. R., Peddi, V. R., Mannon, R., Knight, R., Marsh, C. L., Kurian, S. M., ... **Abecassis, M. M.**, ... Rose, S. (2019). Investigator Assessment of the Utility of the TruGraf Molecular Diagnostic Test in Clinical Practice. *Transplantation proceedings*, 51(3), 729-733.

Friedewald, J. J. & **Abecassis, M. M.** (2019). Clinical implications for the use of a biomarker for subclinical rejection - Conflating arguments cause a disconnection between the premise and the conclusion. *American Journal of Transplantation*, 19(7), 2141-2142.

Friedewald, J. J., **Abecassis, M. M.**, Kurian, S. (2019). Gene expression biomarkers for kidney transplant rejection - The entire landscape. *EBioMedicine*, 42. PMID: 30910482

Friedewald, J. J., Kurian, S. M., Heilman, R. L., Whisenant, T. C., Poggio, E. D., Marsh, C., ... **Abecassis, M. M.** (2019). the Clinical Trials in Organ Transplantation 08 (CTOT-08) (2019). Development and clinical validity of a novel blood-based molecular biomarker for subclinical acute rejection following kidney transplant. *American Journal of Transplantation*, 19(1), 98-109.

Gabr, A., Abouchaleh, N., Ali, R., Baker, T., Caicedo, J. C., Katariya, N. N., ... **Abecassis, M. M.**, ... Salem, R. (Accepted/In press). Outcomes of Surgical Resection after Radioembolization for Hepatocellular Carcinoma. *Journal of Vascular and Interventional Radiology*, 29(11):1502-1510.e1.

Knapper, J. T., Raval, Z., Harinstein, M. E., Friedewald, J. J., Skaro, A. I., **Abecassis, M. M.**, ... Flaherty, J. D. (2019). Assessment and management of coronary artery disease in kidney and pancreas transplant candidates. *Journal of Cardiovascular Medicine*, 20(2), 51-58.

Levitsky, J., Asrani, S. K., **Abecassis, M. M.**, Ruiz, R., Jennings, L. W., Klintmalm, G. (2019). External Validation of a Pretransplant Biomarker Model (REVERSE) Predictive of Renal Recovery After Liver Transplantation. *Hepatology*, doi: 10.1002/hep.30667.

Marrero, J. A., Kulik, L. M., Sirlin, C. B., Zhu, A. X., Finn, R. S., **Abecassis, M. M.**, ... Heimbach, J. K. (2019). Diagnosis, Staging, and Management of Hepatocellular Carcinoma: 2018 Practice Guidance by the American Association for the Study of Liver Diseases. *Clinical Liver Disease*, 13(1).

Marsh, C. L., Kurian, S. M., Rice, J. C., Whisenant, T. C., David, J., Rose, S., ... **Abecassis, M. M.**, ... First, M. R. (2019). Application of TruGraf v1: A Novel Molecular Biomarker for Managing Kidney Transplant Recipients With Stable Renal Function. *Transplantation proceedings*, 51(3), 722-728.

Peipert, J. D., **Abecassis, M. M.**, Butt, Z., Cella, D., Ladner, D. P. (2018). Response to "Shifting the conversation on outcomes reporting". *American Journal of Transplantation*, 18(9):2368-2369.

Zhang, S., Bories, G., Lantz, C., Emmons, R., Becker, A., Liu, E., **Abecassis, M. M.**, ... Thorp, E. B. (2019). Immunometabolism of Phagocytes and Relationships to Cardiac Repair. *Frontiers in Cardiovascular Medicine*, 6(42).

Faculty Publications

Abecassis, Michael, MD, MBA (cont.)

Zhang, Z. J., Qiu, L., Yan, S., Wang, J. J., Thomas, P. M., Kandpal, M., ... Abecassis, M. M. (2019). A clinically relevant murine model unmasks a "two-hit" mechanism for reactivation and dissemination of cytomegalovirus after kidney transplant. *American Journal of Transplantation*, doi.org/10.1111/ajt.15376.

Barsness, Katherine, MD, MS

Billings, C., Manworren, R., Stake, C., Hebal, F., Lavin, J., **Barsness, K. A.** (2018). Pediatric Emergency Department Visits for Uncontrolled Pain in Postoperative Adenotonsillectomy Patients. *Accepted. Laryngoscope Investigative Otolaryngology*, 4(1):165-169.

Bharat, Ankit, MBBS

Akbarpour, M., Wu, Q., Liu, X., Sun, H., Lecuona, E., Tomic, R., ... **Bharat, A.** (2019). Clinical relevance of lung-restricted antibodies in lung transplantation. *Human Immunology*. pii: S0198-8859(19)30203-4. doi: 10.1016/j.humimm.2019.04.016.

Bharat A. (2019). A Need for Targeted Immunosuppression Following Lung Transplantation. *American Journal of Respiratory Cell Molecular Biology*, doi: 10.1165/rcmb.2019-0100ED.

Budd, A. N., Kozarek, K., Kurihara, C., **Bharat, A.**, Reynolds, A. S., Kretzer, A. B. (Accepted/In press). Use of ProtekDuo as Venous-arterial and Venous-venous Extracorporeal Membrane Oxygenation During Bilateral Lung Transplantation. *Journal of Cardiothoracic and Vascular Anesthesia*, 33(8):2250-2254.

Hsiao, H. M., Fernandez, R., Tanaka, S., Li, W., Spahn, J. H., Chiu, S., ... **Bharat, A.**, ... Kreisel, D. (2018). Spleen-derived classical monocytes mediate lung ischemia-reperfusion injury through IL-1 β . *Journal of Clinical Investigation*, 128(7), 2833-2847.

Kane, L., Savas, H., DeCamp, M. M., **Bharat, A.** (2018). Utility of minimally invasive thoracoscopy for assessment of residual mediastinal lymphoma. *Surgery (United States)*, 164(4), 825-830.

Koch, C. M., Chiu, S. F., Akbarpour, M., **Bharat, A.**, Ridge, K. M., Bartom, E. T., Winter, D. R. (2018). A beginner's guide to analysis of RNA sequencing data. *American journal of respiratory cell and molecular biology*, 59(2), 145-157.

Kurihara, C., Fernandez, R., Safaeinili, N., Akbarpour, M., Wu, Q., Budinger, G. R. S., **Bharat, A.** (2019). Long-Term Impact of Cytomegalovirus Serologic Status on Lung

Transplantation in the United States. *Annals of Thoracic Surgery*, 107(4), 1046-1052.

Kurihara, C., Walter, J. M., Singer, B. D., Cajigas, H., Shayan, S., Al-Qamari, A., ... **Bharat, A.** (2018). Extracorporeal Membrane Oxygenation Can Successfully Support Patients With Severe Acute Respiratory Distress Syndrome in Lieu of Mechanical Ventilation. *Critical Care Medicine*, 46(11), e1070-e1073.

Li, W., Gauthier, J. M., Higashikubo, R., Hsiao, H. M., Tanaka, S., Vuong, L., ... **Bharat, A.**, ... Kreisel, D. (2019). Bronchus-associated lymphoid tissue-resident Foxp3⁺ T lymphocytes prevent antibody-mediated lung rejection. *Journal of Clinical Investigation*, 129(2), 556-568.

Lipps, K. M., **Bharat, A.**, Walter, J. M. (2018). Lung Biopsy in Patients with Acute Respiratory Distress Syndrome Supported on Extracorporeal Membrane Oxygenation: A 2 Year Experience. *American Society for Artificial Internal Organs Journal*, doi: 10.1097/MAT.0000000000000909.

Mozer, A. B., Michel, E., Gillespie, C., **Bharat, A.** (2019). Broncho-endoscopic Repair of Tracheoesophageal Fistula. *American Journal of Respiratory Critical Care Medicine*, doi: 10.1164/rccm.201812-2255IM.

Odell, D. D., Feinglass, J. M., Engelhardt, K., Papastefan, S., Meyerson, S. L., **Bharat, A.**, ... Bilimoria, K. Y. (2019). Evaluation of adherence to the Commission on Cancer lung cancer quality measures. *Journal of Thoracic and Cardiovascular Surgery*, 157(3), 1219-1235.

Ravichandran, R., Bansal, S., Rahman, M., Sharma, M., Liu, W., **Bharat, A.**, ... Mohanakumar, T. (2019). The role of donor-derived exosomes in lung allograft rejection. *Human Immunology*. pii: S0198-8859(19)30140-5. doi: 10.1016/j.humimm.2019.03.012.

Reyfman, P. A., Walter, J. M., Joshi, N., Anekalla, K. R., McQuattie-Pimentel, A. C., Chiu, S., ... **Bharat, A.**, ... Misharin, A. (2019). Single-cell transcriptomic analysis of human lung provides insights into the pathobiology of pulmonary fibrosis. *American journal of respiratory and critical care medicine*, 199(12), 1517-1536.

Sala, M. A., Balderas-Martínez, Y. I., Buendía-Roldan, I., Abdala-Valencia, H., Nam, K., Jain, M., ... **Bharat, A.**, ... Selman, M. (2018). Inflammatory pathways are upregulated in the nasal epithelium in patients with idiopathic pulmonary fibrosis. *Respiratory Research*, 19(1), [233].

Bharat, Ankit, MBBS (cont.)

Soberanes, S., Misharin, A. V., Jairaman, A., Morales-Nebreda, L., McQuattie-Pimentel, A. C., Cho, T., ... **Bharat, A.**, ... Budinger, G. R. S. (2018). Metformin Targets Mitochondrial Electron Transport to Reduce Air-Pollution-Induced Thrombosis. *Cell Metabolism*, 29(2):503.

Stanifer, B. P., Andrei, A-C., Liu, M., Meyerson, S. L., **Bharat, A.**, Odell, D. D., DeCamp, M. M. (2018). Short-Term Outcomes of Tracheal Resection in The Society of Thoracic Surgeons Database. *Annals of Thoracic Surgery*, 106(6), 1612-1618.

Walter, J. M., Kurihara, C., Corbridge, T. C., & **Bharat, A.** (2018). Chugging in patients on veno-venous extracorporeal membrane oxygenation: An under-recognized driver of intravenous fluid administration in patients with acute respiratory distress syndrome? *Heart and Lung*, 47(4), 398-400.

Walter, J. M., Ren, Z., Yacoub, T., Reyfman, P. A., Shah, R. D., Abdala-Valencia, H., ... **Bharat, A.**, ... Wunderink, R. G. (2019). Multidimensional assessment of the host response in mechanically ventilated patients with suspected pneumonia. *American journal of respiratory and critical care medicine*, 199(10), 1225-1237.

Wu, Q., Turturice, B., Wagner, S., Huang, Y., Gupta, P. K., Schott, C., ... **Bharat, A.** (2019). Gut microbiota can impact chronic murine lung allograft rejection. *American journal of respiratory cell and molecular biology*, 60(1), 131-134.

Bilimoria, Karl, MD, MS

Barber, E., Rossi, E. C., Alexander, A., **Bilimoria, K. Y.**, Simon, M. A. (2018). Benign hysterectomy performed by gynecologic oncologists: Is selection bias altering our ability to measure surgical quality? *Gynecologic oncology*, 151(1), 141-144.

Chung, J. W., **Bilimoria, K. Y.**, Stulberg, J. J., Quinn, C. M., Hedges, L. V. (2018). Estimation of Population Average Treatment Effects in the FIRST Trial: Application of a Propensity Score-Based Stratification Approach. *Health Services Research*, 53(4), 2567-2590.

Engelhardt, K. E., Feinglass, J. M., DeCamp, M. M., **Bilimoria, K. Y.**, Odell, D. D. (2018). Treatment trends in early-stage lung cancer in the United States, 2004 to 2013: A time-trend analysis of the National Cancer Data Base. *Journal of Thoracic and Cardiovascular Surgery*, 156(3), 1233-1246.e1.

Liu, J. Y. & **Bilimoria, K. Y.** (2018). Surgical Decision Making

in Elderly, Impaired Nursing Home Patients. *JAMA Surgery*. 153(12), 1096.

Berger, E. R., **Bilimoria, K. Y.**, Kinnier, C. V., Minami, C. A., Bethke, K. P., Hansen, N. M., ... Yang, A. D. (2019). Assessment of hospital-level adjusted breast cancer sentinel lymph node positivity rates. *Journal of Surgical Oncology*, 119(1), 101-108.

Bilimoria, K. Y., Chung, J. W., Hedges, L. V. (2019). External validity is also an ethical consideration in cluster-randomised trials of policy changes. *BMJ quality & safety*, 28(2).

Blay, E., Huang, R., Chung, J. W., Yang, A. D., DeLancey, J. O., Merkow, R. P., ... **Bilimoria, K. Y.** (2019). Evaluating the Impact of the Venous Thromboembolism Outcome Measure on the PSI 90 Composite Quality Metric. *Joint Commission Journal on Quality and Patient Safety*, 45(3), 148-155.

Coughlin, J. M., Shallcross, M. L., Schäfer, W. L. A., Buckley, B. A., Stulberg, J. J., Holl, J. L., **Bilimoria, K. Y.** Johnson, J. (2019). Minimizing Opioid Prescribing in Surgery (MOPiS) Initiative: An Analysis of Implementation Barriers. *Journal of Surgical Research*, 239, 309-319.

Ellis, R. J., Brock Hewitt, D., Liu, J. B., Cohen, M. E., Merkow, R. P., Bentrem, D. J., **Bilimoria, K. Y.**, Yang, A. D. (2019). Preoperative risk evaluation for pancreatic fistula after pancreaticoduodenectomy. *Journal of Surgical Oncology*, 119(8), 1128-1134.

Ellis, R. J., Gupta, A. R., Hewitt, D. B., Merkow, R. P., Cohen, M. E., Ko, C. Y., **Bilimoria, K. Y.**, ... Yang, A. D. (2019). Risk factors for post-pancreaticoduodenectomy delayed gastric emptying in the absence of pancreatic fistula or intra-abdominal infection. *Journal of Surgical Oncology*, 119(7), 925-931.

Ellis, R. J., Schlick, C. J. R., Yang, A. D., Barber, E. L., **Bilimoria, K. Y.**, Merkow, R. P. (2019). Utilization and Treatment Patterns of Cytoreduction Surgery and Intraperitoneal Chemotherapy in the United States. *Annals Surgical Oncology*. doi:10.1245/s10434-019-07492-8

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Faculty Publications

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