

Department of Surgery 2021



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Mission & Vision

Vision: To be a distinguished surgical department that delivers comprehensive and innovative care within an integrated academic health system, pursues research that defines the future of surgery, trains the next generation of surgical leaders, and emphasizes diversity, equity and inclusion in all missions.

Mission: Within a diverse, inclusive and equitable environment, we will:

- Provide the highest quality, evidence-based, comprehensive, and compassionate patient care across a broad range of surgical specialties;
- Develop leaders in academic surgery through state-of-the-art training programs which are conducive to outstanding education for all learners across the career continuum;
- Expand the frontiers of knowledge by advancing research, innovation, creativity, and collaboration and the translation of surgical sciences to patient care.



Letter from the Chair



Dear Colleagues and Friends,

The year 2021 marked a tremendous period of accomplishments in the Department of Surgery at Northwestern Medicine. We submitted a record total of \$99M in grant proposals, the Department's NIH award ranking moved up six spots, and we ranked #12 on the 2021 U.S. News & World Report of Best Medical Schools for Surgery.

At the end of 2020 we developed a list of strategic priorities to focus on in FY21: 1) Recruit top talent, with an emphasis on diversity; 2) Provide departmental research support; 3) Enhance the residency program; 4) Establish a faculty mentorship program; and 5) Evaluate and plan for divisional presence/leadership in other NM regions. I am pleased to say that the five workgroups focused on each of their priorities have already developed many new initiatives/policies that are now being implemented.

- 1) Dr. Heron Rodriguez and the workgroup focused on recruitment created a faculty recruitment guide including best recruitment practices, administrative guidance, resources on implicit bias, and recommendations on how to recruit the most appropriate surgeons.
- 2) In an effort to enhance the departmental research support, Dr. Sumanas Jordan and her workgroup established two new research funding mechanisms, as well as created SURPASS (Surgeons Promoting Academic Surgeons & Scientists) to provide support and guidance.
- 3) Dr. Ashley Vavra's residency enhancement workgroup named Dr. Daniel Davila as the departmental ombudsperson, and implemented many changes to enhance the culture of our residency program.
- 4) Drs. David Odell and Andrew Hoel led a workgroup that developed recommendations to address faculty mentorship needs in three primary domains (mentorship training, early career/new surgeon needs, & mid-career faculty needs).
- 5) Dr. Kevin Bethke's group developed a Regional Surgeon Recruitment Playbook and Department of Surgery Directory to foster relationships and create shared standards amongst all surgeons in the NM system.

There have been a few departmental leadership transitions in the past year. Dr. Thomas Inge was named the Chief of the Division of Pediatric Surgery at Northwestern University and the Surgeon-in-Chief at Lurie Children's, succeeding Dr. Marleta Reynolds, who stepped down from this leadership role. Dr. Reynolds was the first and only female Surgeon-in-Chief at Lurie Children's since 2009. Thanks to her outstanding leadership and expertise, the Department of Surgery at Lurie has become one of the most prestigious and notable departments in the country. In addition, Dr. Satish Nadig joined Northwestern as the Chief of the Division of Organ Transplantation in the Department of Surgery, Director of the Comprehensive Transplant Center (CTC) at Northwestern University Feinberg School of Medicine, and Transplant Program Director for the

Northwestern Memorial Hospital Solid Organ Abdominal Transplant Program. I would like to offer my sincere gratitude to Dr. Joseph Leventhal for serving as interim Division Chief, and to Dr. Daniela Ladner for serving as interim CTC Director.

Many of the key recommendations from the Strategic Priority Workgroups are now being translated into practice, and we are developing an administrative infrastructure to ensure smooth implementation. For example, in December, Dr. Dinee Simpson was appointed as Vice Chair, Faculty Development and Diversity for the Department of Surgery. In this role, Dinee will partner with the Department of Surgery leadership, faculty and staff to support a diverse, inclusive, equitable and collaborative culture which promotes each person's ability to reach their full potential. Drs. JC Caicedo and Alyssa Vela were named Co-Chairs of the existing Department of Surgery Diversity, Equity and Inclusion Committee. In addition, Dr. Dave Odell was named Director of the Early Career Faculty Launch Program and Dr. Andy Hoel was named Director of the Mid-Career Faculty Advancement Program.

I am incredibly proud of what we have achieved, and I look forward to working with all of you to take the department to even greater heights. I firmly believe that we should continue to foster a culture of excellence, where talented individuals from diverse backgrounds can achieve their full potential. I hope you enjoy reading this newsletter that highlights the numerous accomplishments of our team members.

Sincerely,

A handwritten signature in black ink that reads "Hasan B. Alam". The signature is written in a cursive style with a vertical line extending downwards from the first letter 'H'.

Hasan B. Alam, MD
Loyal and Edith Davis Professor
Chair, Department of Surgery, Feinberg School of Medicine
Surgeon-in-Chief, Northwestern Memorial Hospital

Department Leadership



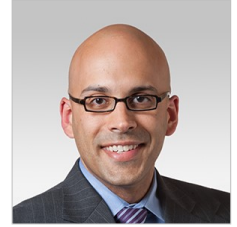
Hasan Alam, MD
Department Chair, Surgery



Seema Khan, MD
Interim Vice Chair,
Research



Scott Strong, MD
Vice Chair, Clinical Affairs



Karl Bilimoria, MD, MS
Vice Chair, Quality



Karen Ho, MD
Director, Resident
Research



Dinee Simpson, MD
Vice Chair, Faculty
Development & Diversity



Andrew Hoel, MD
Director,
Mid-Career Faculty
Advancement Program



David Odell, MD, MMSc
Director, Early Career Faculty
Launch Program &
Assoc. Clerkship Director



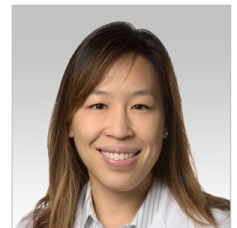
Joseph Posluszny, MD
Clerkship Director



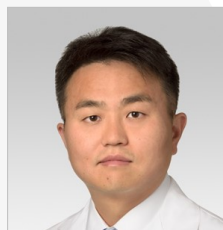
Amy Halverson, MD
Vice Chair, Education &
Program Director, General
Surgery Residency



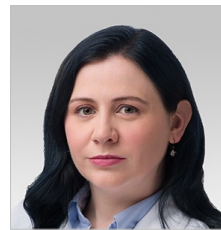
Tadaki Tomita, MD
Sub-I Director



Yue-Yung Hu, MD, MPH
Associate Program
Director



Samuel Kim, MD
Associate Program
Director



Leah Tatebe, MD
Associate Program
Director

Division Leadership



Nora Hansen, MD
Chief, Breast Surgery



Patrick McCarthy, MD
Chief, Cardiac Surgery



Scott Strong, MD
Chief, GI Surgery



Satish N. Nadig, MD, PHD
Chief, Organ Transplantation



Gregory Dumanian, MD
Chief, Plastic Surgery



Jeffrey Wayne, MD
Chief, Surgical Oncology



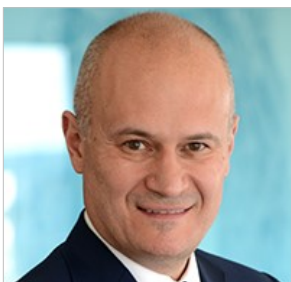
Ankit Bharat, MD
Chief, Thoracic Surgery



Michael Shapiro, MD
Chief, Trauma & Critical Care



Mark Eskandari, MD
Chief, Vascular Surgery



Thomas Inge, MD, PhD
Chief, Pediatric Surgery



David Bentrem
Chief, Surgery
Jesse Brown VA Hospital



John Andrews, MD
Lake Forest Hospital

2021 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.



91

Clinical Faculty



21

Research Faculty



60

Contr. Services/
Adjunct Faculty

Providing Excellent Clinical Care...

	Breast	Cardiac	Thoracic	GI	Transplant	Plastic	Trauma	Vascular	Surg Onc
OR Cases	1,426	1,044	1,607	2,869	939	2,539	880	953	1,167
Clinic Visits	9,050	3,343	5,921	14,886	4,585	17,068	811	4,148	5,853
wRVUs	35,032	54,177	62,953	70,117	56,041	78,560	51,330	44,226	34,854

Advancing Research & Innovation...



\$13.98M

Total Grant Funding



\$5.5M

NIH Funding



56

Active Grants



47

Active Clinical Trials



27,345 SF

Research Space

Teaching the Surgeons of Tomorrow...

70 Residents	
29 General (Categorical)	4 General (Prelim)
8 General (Research)	15 Plastic
7 Cardiothoracic	7 Vascular
19 Fellows	
2 Breast	2 Trauma/Critical Care
4 Transplant	2 Vascular
6 Cardiac/Cardiothoracic	3 Pediatric

Faculty Promotions



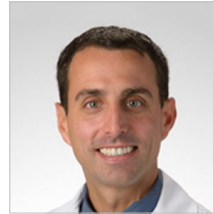
Ankit Bharat, MD, *Division of Thoracic Surgery*, promoted to tenured Professor of Surgery.



Julia Grabowski, MD, *Division of Pediatric Surgery*, promoted to Associate Professor of Surgery.



Juan C. Caicedo-Ramirez, MD, *Division of Organ Transplantation*, promoted to Professor of Surgery.



Timothy Lautz, MD, *Division of Pediatric Surgery*, promoted to Associate Professor of Surgery.



Osama Eltayeb, MD, *Division of Pediatric Surgery*, promoted to Associate Professor of Surgery.



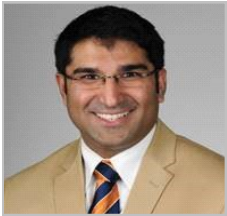
Vitaliy Poylin, MD, *Division of GI Surgery*, promoted to Associate Professor of Surgery.



Faculty Expansion



Thomas Inge, MD, PhD was appointed to Tenured Professor and Chief of Pediatric Surgery at Lurie Children's on the Investigator track. Dr. Inge received his medical degree and doctorate degree from Virginia Commonwealth University, Medical College of Virginia. He completed his internship and residency at Stanford University Medical Center Department of Surgery, followed by a pediatric surgery fellowship at the Children's Hospital of Alabama, University of Alabama. Dr. Inge most recently comes from Children's Hospital of Colorado, where he served as Associate Surgeon-in-Chief and member of the hospital's Executive Leadership Team. He also served as Division Chief of Pediatric Surgery and established the Adolescent Bariatric Surgery Center in 2017. Dr. Inge is a renowned physician-scientist, having produced over 150 peer-reviewed publications and book chapters.



Satish N. Nadig, MD, PhD, FACS was appointed as a Tenured Professor in the **Division of Organ Transplantation** on the Investigator career track. He also now serves as Director of the Comprehensive Transplant Center (CTC) at Northwestern University Feinberg School of Medicine and Transplant Program Director for the Northwestern Memorial Hospital Solid Organ Abdominal Transplant Program. Dr. Nadig received his medical degree from the Medical University of South Carolina (MUSC) in 2003 before completing a general surgery residency at Beth Israel Deaconess Medical Center. During this time he also obtained a PhD in Transplant Immunology from the University of Oxford before completing a transplant surgery fellowship at the University of Michigan.



Diego Avella Patino, MD was appointed as Assistant Professor of Surgery in the Division of Thoracic Surgery on the Clinician-Educator track. Dr. Avella Patino received his medical degree from Universidad El Bosque School of Medicine in Bogotá, Columbia in the year 2000 prior to completing a general surgery residency program in 2014 at the Penn State College of Medicine. From 2014-2017, he completed a cardiac and thoracic fellowship at the University of Chicago. Since 2017, Dr. Avella Patino has served as an Assistant Professor of Surgery at University of Missouri Health. He will serve as the Associate Director of Lung Transplantation and Respiratory ECMO Program, in addition to his inpatient and outpatient clinical responsibilities.



Michael Vercillo, MD was appointed as a Health System Clinician **in the Division of Thoracic Surgery** on the Health System Clinician track. Dr. Vercillo received his medical degree from Rosalind Franklin University of Medicine and Science in 2007 before completing a general surgery residency and cardiothoracic surgery fellowship at Rush University. Since 2015, he has been an attending physician at Advocate Health Care. Dr. Vercillo comes with tremendous experience and leadership experience and will be charged with directly supporting and growing our oncology-focused robotic and minimally invasive surgical disease programs in the west region.



Miraj Shah Khan, MD was appointed as a Health System Clinician in the Division of Breast Surgery on the Health System Clinician track. Dr. Shah Khan earned her medical degree in 2003 from Rush Medical College. She completed her general surgery residency at the University of Illinois in Chicago, IL, in 2010 and then proceeded to complete a Breast Surgical Oncology fellowship at Mayo Clinic Rochester in Minnesota. Dr. Shah Khan has been on the faculty at the Medical College of Wisconsin in Milwaukee for the better part of the last decade. She served as an Assistant Professor of Surgery in Surgical Oncology from 2012-2019, which then led to a promotion to Associate Professor. Dr. Shah Khan serves as the Medical Director of Breast Cancer and Breast Health Services at Palos Health, as well as also serving as the Chair of the Breast Cancer Steering Committee.



Swaminadhan Gnanashanmugam, MD, MS was appointed as a Health System Clinician in the **Division of Cardiac Surgery** on the Health System Clinician track. Dr. Gnanashanmugam earned his medical degree in 2008 from the Feinberg School of Medicine at Northwestern University. He then completed his residency at McGaw Medical Center from 2008-2016. Following that, he was a Cardiothoracic Surgery Fellow/Resident until 2019 at Baylor College of Medicine and Texas Heart Institute in Houston, Texas. Dr. Gnanashanmugam brings valuable research experience to the Department through time spent in the Stanford BioDesign Surgical Innovation Fellowship and Benchmark Capital Congenital Cardiovascular BioEngineering Fellowship. He founded multiple companies related to the development of medical devices for various surgically-related patient needs. Dr. Gnanashanmugam has most recently served as an Adjunct Assistant Professor at Texas A&M College of Engineering.



Amanda Mueller, MD was appointed as a Health System Clinician in the **Division of Gastrointestinal Surgery** on the Health System Clinician track. Dr. Mueller earned her medical degree in 2015 from the University of Wisconsin School of Medicine and Public Health in Madison, WI. She completed a general surgery internship and residency at Emory University School of Medicine in Atlanta, GA, and recently completed a clinical fellowship in minimally invasive surgery at the University of California-San Francisco. During that fellowship, Dr. Mueller served as a Clinical Instructor of Surgery, which included the responsibilities of coverage of an academic center acute care surgery service, teaching medical trainees, and participation in various QI initiatives of the hospital system.



Michael Howard, MD was appointed as Health System Clinician in the **Division of Plastic Surgery** on the Health System Clinician track. Dr. Howard earned his medical degree from Emory University School of Medicine in Atlanta, Georgia in 1997. He then went on to complete an Integrated Plastic Surgery Residency at Georgetown University in Washington, D.C. and a Microsurgery/Breast Surgery fellowship at Memorial Sloan-Kettering Cancer Center in New York. Dr. Howard was an Assistant Professor of Surgery at Northwestern from 2005-2009. Beginning in 2007 and continuing into today, he is a Clinical Assistant Professor at Rosalind Franklin University of Medicine and Science. From 2009-2018, he held faculty appointments at University of Chicago Pritzker School of Medicine. Dr. Howard brings teaching and administrative experience, demonstrated through his role as Associate Program Director of the Plastic Surgery Residency Program at University of Chicago for 6 years.

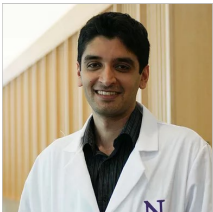
Faculty Expansion



Samer Rajjoub, MD was appointed as a Health System Clinician in the **Division of Surgical Oncology** on the Health System Clinician track. Dr. Rajjoub earned his medical degree at The George Washington University School of Medicine & Health Sciences in 2009. He had residency stints at both Penn State Milton S. Hershey Medical Center and UPMC Pinnacle Harrisburg, both in Pennsylvania, and then completed an Endocrine Surgery fellowship at The University of Chicago Medical Center in 2016. From 2016-2018, Dr. Rajjoub served as an Associate Research Physician for NorthShore University Health System/University of Chicago Pritzker School of Medicine. Currently, Dr. Rajjoub is an Attending, General & Endocrine Surgeon at Palos Community Hospital. Dr. Rajjoub brings expertise through research and clinical practice of the Endocrine system that will improve our Department and the next generation of trainees.



Yuanqing Yan, PhD was appointed as a Research Assistant Professor in the **Division of Thoracic Surgery** on the Research track. Dr. Yan earned his Ph.D. in Genetics & Genomics at the Genetics Institute at the University of Florida in Gainesville, FL. He has experience in academic medicine as a Statistical Analyst and Postdoctoral Fellow in Biostatistics at The University of Texas MD Anderson Cancer Center. Prior to joining Northwestern, Dr. Yan was an Assistant Professor in the Department of Neurosurgery at the University of Texas Health Science Center in Houston, beginning in 2017.



Dinesh Jaishankar, PhD was appointed as a Research Assistant Professor in the **Division of Organ Transplantation** on the Research track. Dr. Jaishankar earned his PhD in Bioengineering at the University of Illinois at Chicago in 2017. He started his professional research experience as a Postdoctoral Researcher in the Department of Dermatology at Northwestern University in the Feinberg School of Medicine. From 2019 through January 2021, Dr. Jaishankar served in two different roles. He was a Research Associate again in the Department of Dermatology with Northwestern University, and he also served as a Manager in the Immunotherapy Assessment Core Facility at Robert H. Lurie Comprehensive Cancer Center. Beginning in February 2021, Dr. Jaishankar began work as a Research Instructor in the Department of Surgery at the Medical University of South Carolina in Charleston, SC. He will be an integral part of the Organ Transplantation team through working with Dr. Satish Nadig in his lab on numerous projects.



Kunjan Bhakta, MD was appointed as a Health System Clinician in the **Division of Trauma & Critical Care** on the Health System Clinician track. Dr. Bhakta earned his medical degree from University of Michigan Medical School in Ann Arbor in 2005. He proceeded to complete his General Surgery Residency at University of California San Francisco and a Surgical Critical Care Fellowship back at University of Michigan. Dr. Bhakta has served as an attending surgeon and instructor/educator in Surgery for the last 12 years. He is currently serving as the Trauma ICU Director and General Surgery Section Chair for Surgical Affiliates Management Group, Regional Medical Center in San Jose, California.



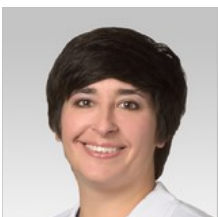
Yuriy Moklyak, MD was appointed as a Health System Clinician in the **Division of Trauma & Critical Care** on the Health System Clinician track. Dr. Moklyak earned his medical degree from Northwestern University, Feinberg School of Medicine in 2014. He then completed a general surgery residency at University of Minnesota in 2020 and an adult surgical critical care fellowship back here at Northwestern in 2021. Dr. Moklyak is now an attending surgeon with RMG at the McHenry/Huntley hospital location.



Leah Carey Tatebe, MD, FACS was appointed as an Associate Professor of Surgery in the **Division of Trauma & Critical Care** on the Clinician-Educator track. Dr. Tatebe earned her medical degree from the University of Texas, Southwestern in Dallas, TX in 2010. She went on to complete a general surgery categorical residency in 2015 at Baylor University Medical Center and an adult surgical critical care fellowship at Northwestern Memorial Hospital in 2016. Dr. Tatebe has been practicing as a Level I Trauma Surgeon for the last six years, and she has served as an Assistant Professor of Surgery at Rush University Medical Center since 2018 the last four years.



Yongqing Li, MD, PhD was appointed as an Adjunct Assistant Professor in the **Division of Trauma & Critical Care**. Dr. Li earned his medical degree from Xinxiang Medical University in Xinxiang, China in 1982. He went on to earn his PhD in Biochemistry and Molecular Biology at University of Miami in 1995. Dr. Li has held several academic appointments in medicine, including currently as an Assistant Professor in Surgery at University of Michigan. He has a long record of Research prowess in trauma surgery over the last several decades.

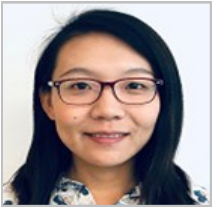


Julia Wilkinson, MD was appointed as a Health System Clinician in the **Division of Vascular Surgery** on the Health System Clinician track. Dr. Wilkinson earned her medical degree in 2007 from Louisiana State University Health Science Center. She stayed at LSU Health Science Center for a general surgery residency and for a vascular fellowship. Beginning in 2014, Dr. Wilkinson has been a staff physician for Vascular Surgery in the Northwestern Medical Group. Dr. Wilkinson is currently practicing at the CDH and Delnor Hospital locations and is taking on education of residents in a stronger capacity.

Faculty Expansion



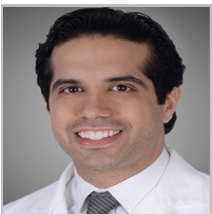
Reiping Huang, PhD was appointed as a Research Assistant Professor in the Division of Surgical Oncology on the Research track. Dr. Huang earned her PhD in Sociology in 2012 from University of Minnesota at Twin Cities. She served as a Survey Statistician for NORC at the University of Chicago for 7 years prior to joining the Northwestern community. Dr. Huang became a Research Associate for the Feinberg School of Medicine in 2016 and was later promoted to Senior Research Associate in 2019. Through demonstrated research effort and success, Dr. Huang joined our research faculty in this past promotion cycle.



Yao Tian, PhD was appointed as a Research Assistant Professor in the Division of Surgical Oncology on the Research track. Dr. Tian earned her Doctorate of Philosophy in 2020 from Texas A&M University in College Station, TX. She worked as a Graduate Research Assistant during her time at both Emory University and Texas A&M. Dr. Tian has served as a Research Associate for the Feinberg School of Medicine since 2019. She has been and will continue to work with principal investigators in the Surgical Oncology division, acting primarily as a lead statistician for several grant-funded projects.



K.T. Weber, MD was appointed as a Health System Clinician in the Division of Gastrointestinal Surgery on the Health System Clinician track. Dr. Weber earned her medical degree at Drexel University College of Medicine. She went on to complete a general surgery residency at North Shore/Long Island Jewish, which was then followed by a colorectal surgery fellowship at Northwell Health in New York. Her clinical interests include colon and rectal cancers, enhanced recover after surgery, anorectal disease, and pelvic floor disorders.



Sammy Sinno, MD was appointed as a Health System Clinician in the Division of Plastic Surgery on the Health System Clinician track. Dr. Sinno earned his medical degree from Loyola University of Chicago in 2011. He went on to complete a General Surgery Internship in 2012 with NYU Medical Center and a Plastic Surgery Residency through a combined program at multiple health centers in New York City. Prior to joining Northwestern University, Dr. Sinno was Executive Chief Resident in the Department of Plastic Surgery at NYU Medical Center from 2016 through 2020. Dr. Sinno is employed by TLKM Plastic Surgery, specializing in facial plastic surgery, and he will participate in the ongoing education of medical students and residents in our Department.

NM Surgery in the News

[Northwestern Medicine Launches the Canning Thoracic Institute to Meet the Growing Patient Demand for Lung Care](#)

Featuring: **Ankit Bharat, MD** (Thoracic Surgery)

[Creativity in the Operating Room Saves the Life of Renowned Chicago Sculptor](#)

Featuring: **Christopher K. Mehta, MD** (Cardiac Surgery) and **Heron Rodriguez, MD** (Vascular Surgery)

[Northwestern Doctor Helps Fast-Track Woman's Stalled Path to Kidney Transplant](#)

Featuring: **Dinee Simpson, MD** (Transplant Surgery)

[Research Results: Rural Patients Less Likely to Survive Lung-Cancer Surgery](#)

Featuring: **Charles Logan, MD** (General Surgery) and **David Odell, MD, MS** (Thoracic Surgery)

[Northwestern Plans New 'Heart Hospital,' with \\$45 Million Donation from Billionaire Neil Bluhm](#)

Featuring: **Patrick McCarthy, MD** (Cardiac Surgery)

[Stem Cells Instead of Drugs? Northwestern Trial Testing a Way to Help Strengthen Transplant Patients' Immune Systems](#)

Featuring: **Joseph Leventhal, MD, PhD** (Transplant Surgery)

[Who Makes a 'Good' Transplant Candidate?](#)

Featuring: **Juan Caicedo, MD** (Transplant Surgery)

[Digestive Health Foundation Raises \\$1.3 Million at 1ST Live Event at Museum of Contemporary Art in Over a Year](#)

Featuring: **Scott Strong, MD** (GI Surgery)

[Where Children Live Linked to Delayed Access to Surgical Care](#)

Featuring: **Fizan Abdullah, MD, PhD** and **Hassan Ghomrawi, PhD, MPH** (Pediatric Surgery)

[Lurie Children's Premier Heart Center Hits Milestone: 400 Pediatric Heart Transplants](#)

Featuring: **Michael Mongé, MD**; **Sunjay Kaushal, MD, PhD**; **Osama Eltayeb, MD** (Pediatric Cardiac Surgery)

[Baby Olivia and Family Prepared for Road Ahead following Fetoscopic Spina Bifida Repair](#)

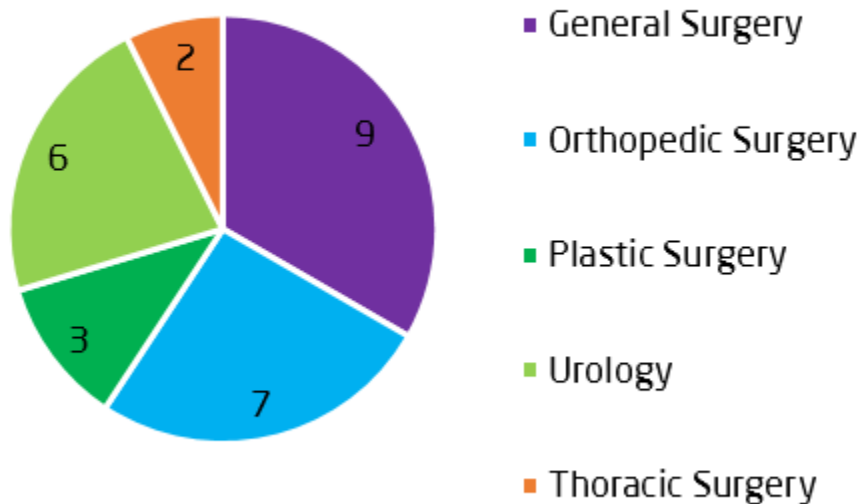
Featuring: **Aimen Shaaban, MD** (Pediatric Surgery)

Surgical Education

Medical Student Education

- Based on student and faculty feedback, we returned most clerkship rotations to be 4 week rotations. A few rotations remained 2 week rotations where appropriate.
- Added three new rotations to the Surgery Clerkship experience, with students being able to join ENT, Ophthalmology, and Cardiac Surgery.
- Went from a few lectures to 15 Problem Based Learning sessions on various Surgical topics to prepare students for exams.
- Implemented a mid-clerkship skills and exploratory day to reduce the amount of times students would be removed from their teams.
- Added bag mask valve ventilation training to our orientation skills training.
- Percentage of students who responded that the clerkship was “excellent” on post-clerkship evaluation increased from 29% to 79%.
- Added new assessment component to the Surgery Clerkship - Computer Based Clinical Exams where students develop a differential, order labs and imaging, interpret labs and imaging, and demonstrate clinical reasoning and development of a treatment plan without the use of a Standardized Patient. This is done in addition to the traditional Surgical OSCE.

Match Results by Specialty



All Surgery students
matched successfully!



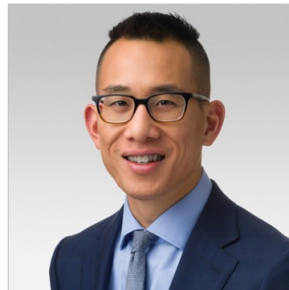
Left to right: Drs. Hasan Alam, Frances Lee, Mickyas Eskender, Ryan Ellis, Edmund Chen, Ryan Campagna, Amy Halverson

2021 General Surgery Residency Graduates

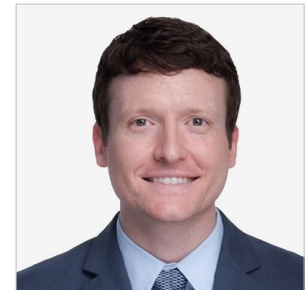
Our graduates pursued careers and fellowships at the following institutions after completing their General Surgery Residency training:



Ryan Campagna, MD, MEd
Cardiothoracic Surgery
University of Michigan



Edmund Chen, MD
Minimally Invasive Surgery
Duke University



Ryan Ellis, MD
Surgical Oncology
Memorial Sloan Kettering



Mickyas Eskender, MD
Cardiothoracic Surgery
Northwestern University



Frances Lee, MD
Endocrine Surgery
University of Chicago

Surgical Education

2021 Edelstone-Bendix Day

Edelstone-Bendix Day honors residents and fellows who have completed their surgical education. During the William H. Pearce, MD Research Symposium, selected surgical residents and fellows present a basic science or clinical research project. In addition to these presentations, the department includes a research competition for residents, fellows and medical students. Trainees are encouraged to submit an abstract detailing their research. From the submissions, the Edelstone-Bendix Awards committee chose award winners. Following the symposium, a formal banquet is held to celebrate the graduates, their families and peers and to thank these individuals for the privilege of being a part of their surgical education journey.

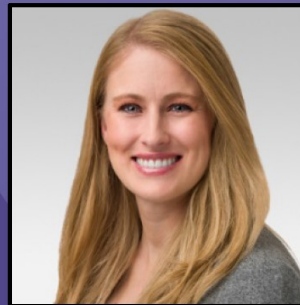
Kanavel Surgical Scholars Award

The Allen B. Kanavel Surgical Scholars Award recognizes exceptional accomplishments achieved in the research laboratory. The award is given to senior-level surgical residents who have completed two or more years of research study during the course of their general surgery training. Dr. Richard Davis established Kanavel Surgical Scholars Award in memory and honor of Allen B. Kanavel, MD, chair of the Department of Surgery from 1919 to 1929.

2021 Award Winners:

Courtney Harris, MD

Tarik Yuce, MD, MS



Courtney J. Harris, MD



Tarik K. Yuce, MD MS

2020-2021 Resident & Fellow Teaching Award Winners

General Surgery:

Caroline Darch, MD (PGY1)

Paige Hackenberger, MD (PGY1)

David Gu, MD (PGY1)

Jonathan Bricker, MD (PGY1)

Jennifer Bai, MD (PGY3)

Charles Logan, MD (PGY3)

General Surgery:

Audra Reiter, MD (PGY3)

Amy Holmstrom, MD (PGY4)

Cary Schlick, MD (PGY4)

Tarik Yuce, MD (PGY4)

Ava Chappell, MD (PGY4)

Ryan Ellis, MD (PGY5)

General Surgery:

Katie Hekman, MD (PGY5)

Fellows:

Marcos Pozo Jatem, MD (Transplant)

Yuriy Moklyak, MD (Trauma)

William H. Pearce, MD Research Symposium



The William H. Pearce, MD Research Symposium, which was started in 2019, is named in honor of a beloved vascular surgeon, scientist, and educator at Feinberg School of Medicine. In addition to serving as Program Director of the Vascular Surgery Fellowship and Chief of the Division of Vascular Surgery, Dr. Pearce was President of the American Association for Vascular Surgery and Chairman of the American Vascular Association. He had wide-ranging research interests and established the Vascular Surgery Scientist T32 Training Program in 2009. His many honors include induction into the Teaching Hall of Fame at Feinberg School of Medicine and Lifetime Achievement Award

from the Society for Vascular Surgery. Many of his former mentees have reached positions of eminence as clinicians, researchers, division chiefs, and department chairs.

Resident Competition

First Place, Basic Science:

Katherine Ott, MD

First Place, Clinical Research:

Arielle Thomas, MD

Research with Distinction:

Megan Bouchard, MD

Matthew Chia, MD

Rachel Joung, MD

Charles Logan, MD

Debbie Li, MD

Sarah Applebaum, MD

Fellow Competition

First Place: Mecca Islam, MS

Research with Distinction:

Booker T. Davis, IV, PhD, MS

Monika Halas, MD

Natalie Luehmann, MD

Student Competition

First Place: Zhangying Chen

Research with Distinction:

Nina Byskosh

Daniel Sasson

Madeline Timken

Surgical Education

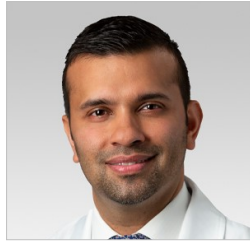
Excellence in Teaching Awards

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 2020-2021 Excellence in Teaching award winners are:

1st Time Recipients



Hasan Alam, MD



Akhil Chawla, MD



Daniel Davila, MD



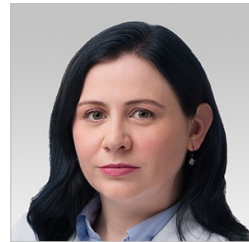
Matthew Kaminsky, MD



Mehul Raval, MD, MS



Frederic Starr, MD



Leah Tatebe, MD

2nd Time Recipients



Joseph Schneider, MD, PhD



Joseph Vitello, MD

3rd Time Recipient



Eric Hungness, MD

5 or More Times Recipient



Michael Shapiro, MD

Dr. Shapiro has won the Excellence in Teaching Award 18 times!

Excellence in Teaching Wall of Honor

Karl Bilimoria, MD, MS
 Kathleen Grady, PhD
 Karen Ho, MD
 David Odell, MD, MMSc
 Aimen Shaaban, MD

Jeanette Chung, MD
 Richard Green, MD
 Sumanas Jordan, MD, PhD
 Joseph Posluszny, Jr., MD
 Anne Stey, MD

Mark Eskandari, MD
 Amy Halverson, MD, MHPE
 Ryan Merkow, MD, MS
 Ashley Vavra, MD

2021 Research Mentor Awards

Karl Bilimoria, MD, MS
 Kathleen Grady, PhD
 Karen Ho, MD
 David Odell, MD, MMSc
 Aimen Shaaban, MD
 Mark Eskandari, MD
 Amy Halverson, MD, MHPE
 Ashley Vavra, MD

Jeanette Chung, MD
 Richard Green, MD
 Sumanas Jordan, MD, PhD
 Joseph Posluszny, Jr., MD
 Anne Stey, MD
 Mehul Raval, MD, MS
 Ryan Merkow, MD, MS
 Anthony Yang, MD, MS



L-R: Drs. Audra Reiter, Casey Silver, Andrew Hu



Drs. Kyle Mueller (left) and John Kim



L-R: Drs. Leah Tatebe, Brooke Golisch, Courtney Harris, MarjorieLiggett

Research

Though fiscal year 2021 was a slow start for research, the Department came together in grant submissions and requested a record \$99 Million in proposal funding. In addition, the Department's NIH award ranking moved up 6 spots to #13. Along with these monumental grant proposals and awards, the Department has created some new research support tools to aid in the growth of new and innovative research. First, the Department initiated internal Pilot Funding to launch innovative ideas off the ground. Second, the Department implemented a Funding mechanism to support additional data for a grant resubmission to grow strengths within a proposal. Finally, the Department started SURgeons Promoting Academic Surgeons & Scientists (SURPASS), a monthly collective of researchers in Surgery to promote a culture of research and develop careers that include surgery and research.

Figure 1. Total Research Expenditures

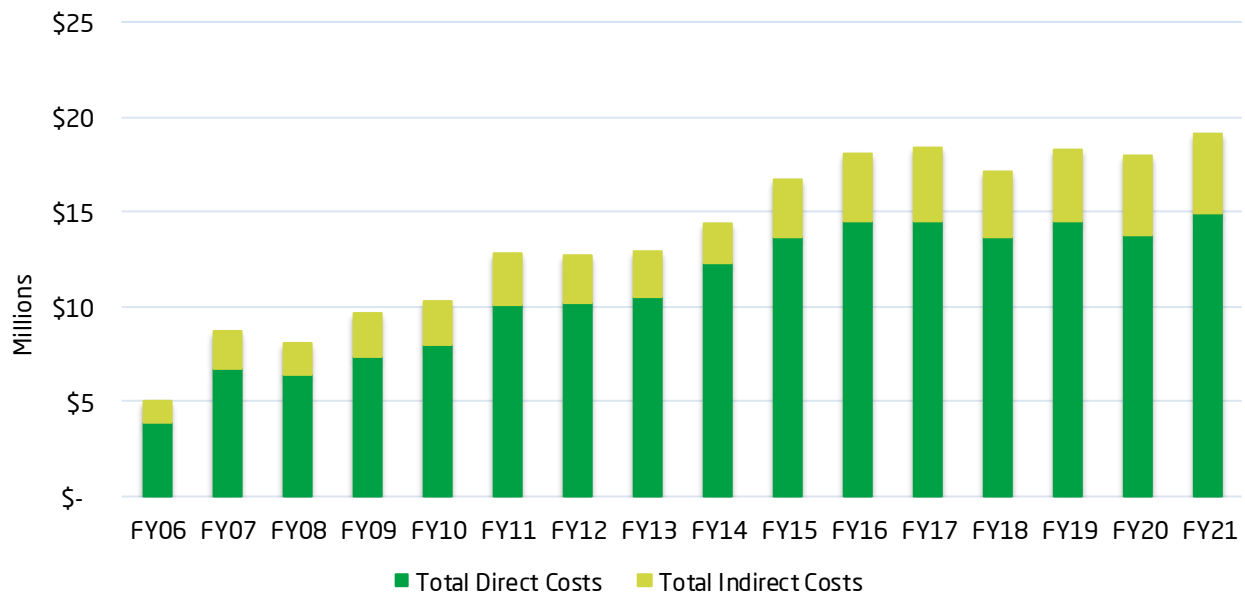
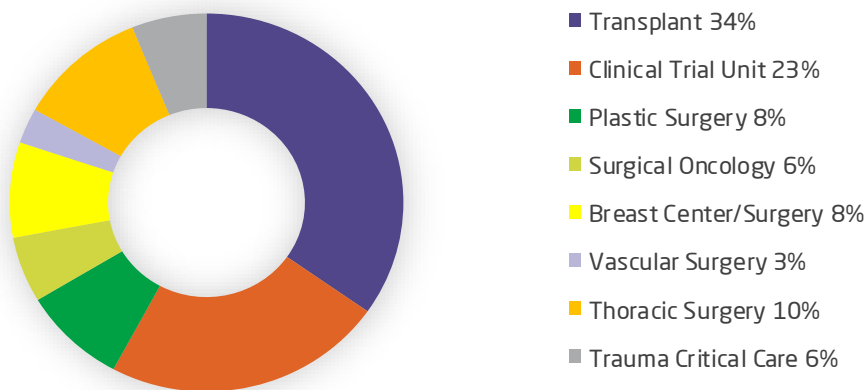


Figure 2. Research Expenditures by Division

Research Expenditures by Division



View a complete list of faculty research awards on our website [here](#).



FY21 By the Numbers

\$99.3M

Proposals Requested

\$17M

Total Grant Funding Awarded

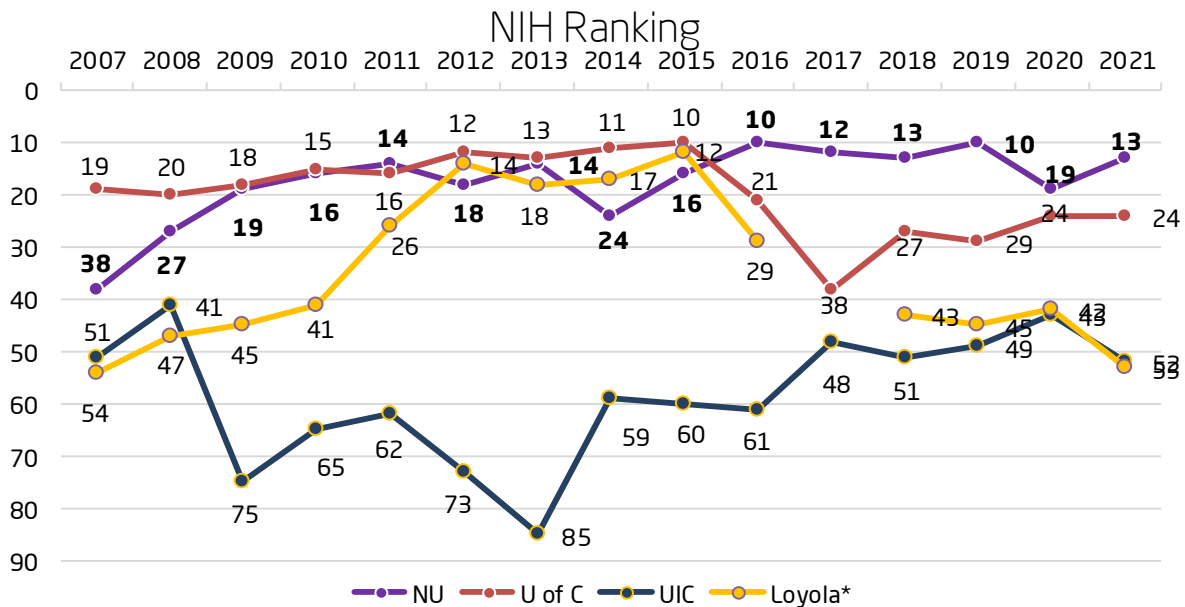
\$19M

Amount of Research Expenditures

116

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.

Surgical Outcomes Quality Improvement

Administrative

- New leadership structure with Dr. Julie Johnson as Scientific Director, Katie Hammond as Administrative Director, Dr. Anthony Yang as our Associate Scientific Director, Dr. Ryan Merkow as Fellowship Director
- Training 14 surgical research residents
- Adding 4 Northwestern surgical residents to the SOQIC research training program in July
- Dr. Yao Tian and Dr. Reiping Huang appointed to faculty as Research Assistant Professors
- Increased collaborations within the Center for Health Services & Outcomes Research, Center for Community Health, and Gastrointestinal

26
Faculty

18
Fellows

19
Staff

NM QI Cancer Collaboratives

- Multi-institutional, multidisciplinary focused QI learning collaboratives. Participation from North, West, & Central NM hospitals
- **NM Breast Cancer Collaborative, Dr. Anthony Yang**—NM standards for indications and timing of referral to genetic counseling/testing in breast cancer patients
- **Illinois Cancer Collaborative (ILCC), Dr. Anthony Yang**—Implementation of CoC Synoptic Operative Reporting Standards for Cancer Surgery
- **NM System Colorectal Cancer Collaborative, Dr. Ryan Merkow**—NM standards for MSI testing in all specimens and genetic counselor referral as indicated in patients with Colorectal Cancer Molecular testing / next generation sequencing standardization across NM, Synoptic operative report implementation

Surgical Quality Oversight Committee—FY22 Updates

- Continued emphasis on QI and safety in the perioperative space
- Schedule of report outs of quality data (clinical registry, administrative) and QI projects relevant to perioperative care
- Intended to connect similar interests/projects to improve impact
- Multidisciplinary membership (physician, nursing, allied care providers, quality, administration)
- Goal: Promote and support safe, high quality, standardized, and evidence-based practice to the surgical patient across the continuum of care



Dr. Egide Abahuje

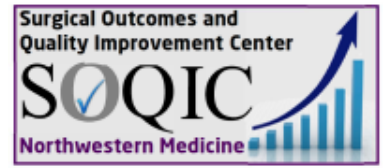


Dr. Julie Johnson



L-R: Drs. David Hoyt & Karl Bilimoria

ment Center (SOQIC)



Faculty Highlights

Dr. Karl Bilimoria, Surgical Oncology

- **Artisight OR Video Capture**—Captures all endoscopic, laparoscopic, and robotic procedures in ORs at NMH and Lake Forest; Resident and faculty access to video platform for education and QI
- **SECOND Trial**- Dr. Bilimoria and **Dr. Yue-Yung Hu (Pediatrics)** continue to lead the 215-hospital SECOND Trial seeking to improve the culture of surgical training nationally
- **ISQIC**—Dr. Bilimoria and Dr. Mike McGee continue to lead the 56-hospital Illinois Surgical Quality Improvement Collaborative (ISQIC)

Dr. Mike McGee, Colorectal

- **Antibiotic-Free Outpatient Management of Acute Sigmoid Diverticulitis**—System-wide project with the Department of Surgery, Emergency Medicine, and NM Performance Improvement Office
- **Establishment of the Catheter-Associated Urinary Tract Infection Initiative (CAUTI) within ISQIC**—Educational modules and procedure-specific recommendations for catheter placement, EMR documents and templates

Dr. Ryan Merkow, Surgical Oncology

- **Improving the Discrete Capture of Cancer Staging at NM**- Multidisciplinary effort across all cancer clinics at NM to develop a flexible solution to improve cancer staging documentation in EPIC
- **GI Cancer Clinical Integration Program**-Multidisciplinary system effort to improve coordination, streamline access, standardize brand and high quality care

Dr. David Odell, Thoracic

- Developing NM standards for screening, surveillance, and documentation for lung cancer patients.
- Establishment of **remote cancer surveillance guidelines** which allows patients to obtain imaging close to their homes
- **Reducing the Inappropriate Use of Blood Transfusion**- Multi-stakeholder intervention targeting education and electronic decision support of evidence-based transfusion

Dr. Mehul Raval, Pediatrics

- Appointed **Vice Chair, Quality & Safety** at Ann & Robert H. Lurie Children's Hospital of Chicago
- Dr. Raval continues to lead ENhanced Recovery in CHildren Undergoing Surgery (ENRICH-US)
- New R21: **Safety Assessment of Perioperative Pain Medications for Children (SAPPhire)**

Dr. Anne Stey, Trauma

- **NM Trauma Collaborative**- Improving documentation of Trauma Activations in EPIC Trauma Narrator for quality and IDPH compensation; Using 2020 IDPH Trauma Advisory Council Criteria to define system-wide benchmarks for prioritization to higher-level of care; Established workgroup of system-wide Trauma Medical Directors & Trauma Coordinators to identify priority areas for future development of NM system-wide trauma care
- **Establishment of the Illinois Statewide Trauma Network within ISQIC**- The ISQIC Statewide Trauma network will first focus on best practices re-triaging severely injured patients from non-trauma centers to trauma centers with key stakeholders

Breast Surgery

Clinical

- Maintained high patient satisfaction with over 92% Likelihood to Recommend Provider.
- Barb Guido, APRN joined the Clinical Cancer Genomics Community of Practice; an international group of cancer genetics professionals. Dr. Khan is also a member of this group.
- The High Risk Breast Clinic and Risk Assessment and Prevention Program clinic volume grew by over 39% since the beginning of FY20.
- Ethan Hixon, MMS, PA-C was named Lead APP.
- Dr. Hansen was named President-elect of Chicago Surgical Society.

Research

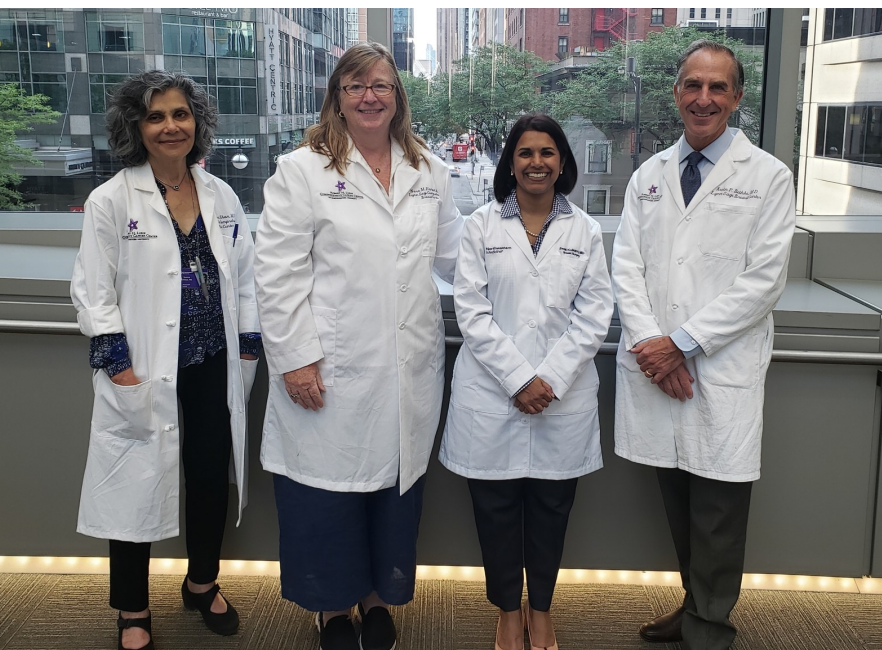
- Dr. Khan is the PI for the Mayo Clinic clinical trial GENRE-2 (Genetic Risk Estimation of Breast Cancer Prior to Decisions on Preventive Therapy Uptake, Risk Reducing Surgery or Intensive Imaging Surveillance).

Education

- Barb Guido, APRN completed the City of Hope Intensive Course in Genomic Cancer Risk Assessment. She will bring this additional expertise to our high risk patients.

Regional Participation/Expansion

- The High-Risk Breast Group worked to standardize our high-risk breast care protocols and guidelines across the entire NM hospital system and are working towards further integration and standardization in 2022.



Left to right: Drs. Seema Khan, Nora Hansen, Swati Kulkarni, Kevin Bethke

- Our breast surgeons are participating on the NM Breast Surgery Clinically Integrated Program, which partners with breast programs across the system to streamline care for breast surgery patients.
- Dr. Kevin Bethke continues to lead efforts in Regional Integration Program; partnering with breast programs across the system to streamline care for breast surgery patients.

Clinical

- The Heart Program is among the highest ranked in the country and #1 in Illinois and all adjacent states for 14 consecutive years.
- The first successful Heart Lung Transplant completed in partnership with Thoracic Colleagues.
- A VAD patient was successfully identified leveraging an innovative new Artificial Intelligence machine learning platform pioneered at Northwestern.
- Northwestern's Code Aorta program allows cardiac and vascular surgeons to bring aortic emergencies directly to the OR. This direct-to-OR pathway has reduced time to intervention by over 2 hours from accepting a patient with aortic dissection to the operating room compared to those who were first taken to the ICU. Greater than 25% of all aortic dissection operations in Illinois are treated at Northwestern Memorial Hospital. In 2021 we increased emergency aortic volume by 37% over the previous year.

Research

- The cardiac surgery team participated in three "first in human" transcatheter tricuspid valve clinical trials (TRISCEND, CLASP TR EFS and Cardioband TR EFS) evaluating repair and replacement devices, positioning our program among the most experienced with transcatheter tricuspid heart valve procedures in the country. The team also participated in three pivotal trials (TRISCEND II, CLASP II TR and TRILUMINATE).
- Dr. James Cox co-hosted 6th Annual International Conference on Minimally Invasive Cardiac Surgery and Surgical Arrhythmology.
- Drs. Patrick McCarthy and James Cox cohosted the 3rd Annual Catheter and Surgical Therapies for Atrial Fibrillation which was an international multidisciplinary conference featuring several Northwestern Bluhm Cardiovascular Institute faculty.

Education

- Dr. Sarah Nisivaco, incoming integrated resident, graduated from Harvard Medical School, and Dr. Mickyas Eskender, incoming traditional fellow, graduated from the University of Cincinnati and completed his general surgery residency at Northwestern University.
- 2021 graduates Dr. Anthony Mozer joined AMITA Health in Chicago and Dr. Bartlomiej Imielski joined Weill-Cornell Hospital as an advanced fellow.
- The division's training programs are proud to boast 80% of alumni enter academic cardiac surgery positions post-graduation.

Regional Participation/Expansion

- Continued growth of these cardiac practices in the west and northwest regions where surgical volumes increased more than 66% in the past three years.

GI Surgery

Clinical

- The Bariatric Surgery program, led by Dr. Alexander Nagle, received full reaccreditation by the Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP). This is a 3-year reaccreditation.
- Continue to expand use of the robotic platform for disorders of the abdomen and digestive tract.
- After a successful launch by Dr. Michael McGee, we worked to refine the Enhanced Recovery After Surgery (ERAS) pathway for GI Surgery patients based on evaluation of thousands of patients. This evaluation enabled us to better understand factors that enhance quality of life for patients after surgery.
- Dr. Mohammed Abbass led the launch of a registry for inherited colorectal cancer syndromes.
- Dr. Eric Hungness was appointed as Section Director, Bariatric/Foregut/General Surgery effective April 1, 2022. Dr. Hungness has been with the division for 15 years and is a demonstrated leader in the division.
- Dr. Vitaliy Poylin was appointed as Section Director, Colorectal Surgery effective April 1, 2022. Dr. Poylin joined the division in 2019 and has contributed greatly to the division thus far.

Research

- Dr. Vitaliy Poylin continues his work completing a systematic assessment of robotic technology in Colon and Rectal Surgery, which is funded by the Research Foundation of the American Society of Colon and Rectal Surgeons.
- Additionally, Dr. Poylin received an exciting award from the Patient-Centered Outcomes Research Institute titled "Comparison of Surgery and Medicine on the Impact of Diverticulitis (COSMID) Trial".
- Dr. Eric Hungness appointed co-chair of the Digestive Health Center's Research Subcommittee to advance and improve research initiatives within the clinic setting.

Education

- Dr. Amy Halverson was appointed Program Director of the General Surgery Residency Program, in addition to her role as Vice-Chair of Education in the Department of Surgery.
- Dr. Kyle Mueller developed a robotic training curriculum for surgery residents and worked with PGY2 and PGY5 residents in the operating room to expand their robotic surgery skills.
- Dr. Eric Hungness continued to provide surgical leadership for Northwestern Simulation, a critical learning environment that provides simulation opportunity for trainees in the Department of Surgery.
- Dr. Eric Hungness was the recipient of the Jonathan Fryer Teaching Award for the Department of Surgery, as well as the Excellence in Teaching Award.

Regional Participation/Expansion

- Dr. Michael McGee serves as the surgeon lead on NM's General Surgery Health System Clinical Collaborative, which oversees system-level collaboration and integration of service lines.

Organ Transplantation

Clinical

- First HIV-positive to HIV-positive living donor kidney transplant in Illinois, which was only the third in the nation
- First combined heart/liver/kidney transplant
- First robotic donor nephrectomy for transplant at Northwestern

Research

- Contracting with new partners to advance allogeneic islet transplantation clinical research
- Continuing pioneering biomarker research
- Nanotechnology and transplantation
- Liver cirrhosis optimizing prediction of patient outcomes (LIVOPT) with focus on race

Education

- New T35 grant to support summer student program
- New T32 training grant in biomedical engineering
- 4th consecutive reapplication to the T32 Transplant Surgery Scientist Training Program (TSSTP)



Top row, L-R: Zachary Dietch, Daniela Ladner, J.C. Caicedo-Ramirez, Daniel Borja-Cacho, Derrick Christopher

Bottom row, L-R: Dinee Simpson, Satish Nadig, Joseph Leventhal

Dr. Dinee Simpson (below) delivered the 2021 address at the Founders' Day ceremony, an annual celebration which honors Feinberg's founders and marks the official start of the academic year.



Pediatric Surgery

General Pediatric Surgery

- [What is Pectus? Q&A with Lurie Children's Chest Wall Experts](#)—Featuring Drs. Fizan Abdullah and Seth Goldstein
- [Get to Know Dr. Inge: Q&A with Lurie Children's New Surgeon-in-Chief](#)—Featuring Dr. Thomas Inge
- [Millie marks 100 fetal surgeries for CIFH with fetoscopic MMC procedure](#)—Featuring Dr. Aimen Shaaban
- Dr. Anthony Chin was promoted to Director of the ECMO program at Ann and Robert H. Lurie Childrens Hospital.
- Dr. Timothy Lautz was appointed medical director of the surgical floor at Lurie Children's Hospital.
- Dr. Hasan Ghomrawi was appointed the Associate Director of the Center for Global Surgery directed by Dr. Fizan Abdullah.

Transplant Surgery

- [After Life-Changing Bowel Transplant, Kimberly, 6, Has a Lot to Look Forward To](#)—Featuring Drs. Riccardo Superina and Lemoine
- ['Remarkable Display Of Generosity:' Gavin Among Record Number Of Living Donor Organ Recipients In February](#)—Featuring Dr. Riccardo Superina



Dr. Michael Mongé with Bennett, 4, who had a heart transplant in June 2021

Plastic & Reconstructive Surgery

- Dr. Noopur Gangopadhyay received the Northwestern Plastic Surgery Victor L. Lewis, Jr. Teaching Award for Junior Residents.
- Dr. Akira Yamada received the Senior Resident Teaching award from the plastic surgery residents.
- Dr. Arun Gosain was selected as the Goldwyn Mentor of the Year by the American Council of Academic Plastic Surgeons.

Cardiovascular-Thoracic Surgery

- [Delilah Turns Three With A New Heart, And Makes Hospital History](#)—Featuring Dr. Michael Mongé
- [Groundbreaking Research at Lurie Children's Helps Daniel's Tiny Heart Get Stronger](#)—Featuring Dr. Sunjay Kaushal
- [Lurie Children's sets hospital record with three heart transplants in 48 hours](#)—Featuring Drs. Michael Mongé, Osama Eltayeb, Sunjay Kaushal

Clinical

- Clinical volume has increased driven by growth in aesthetic, nerve, and gender affirming surgeries.
- Our multidisciplinary Gender Pathways Program, led by Dr. Sumanas Jordan, flourished in 2021. Patients seeking care in the program for both surgical and non-surgical care has continued to increase.
- Space planning efforts underway to relocate outpatient clinic to brand new clinic location in the Lavin Family Pavilion, anticipated move date is early 2023.

Research

- Dr. Jason Ko is participating on a Department of Defense study with Ohio State University studying electrical stimulation to accelerate nerve regeneration.
- Dr. Robert Galiano has secured a clinical trial grant from Surgical Innovation Associates titled "The Safety and Effectiveness of DuraSorb(R) for Lower Pole Reinforcement in Patients Undergoing 2-Stage Breast Reconstruction."
- Dr. John Kim secured a grant from the Plastic Surgery Foundation to study Breast Implants and Breast Cancer Immunosurveillance.
- Dr. Gregory Dumanian was awarded a Department of Defense grant with Brigham and Women's Hospital titled "A Novel Approach to Lower Extremity Amputation to Augment Volitional Motor Control and Restore Proprioception."
- The faculty in our division mentored several students in research this year including PhD students and both current and prospective Feinberg School of Medicine students.

Education

- Matched with our top recruits -- Dr. Megan Perez (Northwestern) and Dr. Alexei Mlodinow (Northwestern)
- Increased our current roster with the addition of Dr. Cristin Coquillard (PGY4).
- Our two chief residents matched into two of the top fellowships in the country--Dr. Megan Fracol at MD Anderson Cancer Center for Microsurgery and Dr. Lindsay Janes at the University of Pennsylvania for Hand Surgery.
- Secured two exciting placements for our research residents -- Dr. Sofia Aronson working on research in the Gosain Plastic Surgery and Craniofacial Biology Laboratory at Lurie Children's Hospital and Dr. Jennifer Bai completing an internship at the FDA reviewing plastic surgery-related devices and implants.

Regional Participation/Expansion

- Launched regional Plastic Surgery Leadership meetings with the North/Northwest Regions to share best practices and alignment of breast microsurgery growth initiatives across the system.
- Participate on the NM Breast Surgery Clinically Integrated Program to provide partnership, perspective and considerations for Breast Reconstruction.
- The Plastic Surgery service continues to provide service coverage at the Jesse Brown VA - both residents and attendings rotate here.

Surgical Oncology

Clinical

- Only center in Illinois placing hepatic artery infusion pumps.
- Continuing to serve cancer patients during the pandemic through ambulatory melanoma, thyroid, and parathyroid surgeries; and increased telemedicine visits.
- Maintained high patient satisfaction with over 95% Likelihood to Recommend Provider scores.
- Dr. Yang awarded Cancer Liaison Physician Outstanding Performance Award.

Research

- Dr. Bentrem collaborated with Dr. Hidayatullah Munshi in examining cell culture and surgically resected pancreatic cancer specimens to test novel transcription inhibitors; designing more effective approaches to diagnosing and treating pancreatic cancer.
- Dr. Bilimoria continues to lead the 215-hospital SECOND Trial seeking to improve the culture of surgical training nationally and the 56-hospital Illinois Surgical Quality Improvement Collaborative.
- Dr. Bilimoria, Dr. Merkow, and Dr. Yang are undertaking major initiatives merging quality improvement and research, including cancer staging and molecular testing, a statewide cancer collaborative, and leveraging OR video for QI and education.
- Dr. Yang launched the Illinois Cancer Collaborative (ILCC) a first-of-its-kind multidisciplinary cancer collaborative.

Education

- Commenced new Surgical Oncology elective at Central DuPage Hospital.
- Teaching and mentoring awards: Drs. Ryan Merkow, Karl Bilimoria, Cord Sturgeon, Jeff Wayne, and David Bentrem.
- Adding 4 Northwestern surgical residents to the SOQIC research training program.

Regional Participation/Expansion

- Created NM system-wide Endocrine Surgery tumor board that is attended by surgeons across all NM regions.
- Lake Forest clinic volume has grown by over 31% since the beginning of FY20.
- Planning initiative underway to recruit surgical oncologists for the south region.
- Continue to provide cancer care at the Jesse Brown VAMC, with Dr. Bentrem as the Surgery Service Chief. Efforts with The National Prostate Foundation and the VA Office of Research Support Initiatives include providing cancer care to minority and underserved populations.
- Ongoing creation of system-wide synoptic operative reports in Epic to address American College of Surgeons mission on cancer standards.

Thoracic Surgery

Clinical

- Launched the Canning Thoracic Institute
- First COVID-19 to COVID-19 Lung Transplant
- Launched the Ambulatory Precision Lung Sparing (A-PLUS) surgery program
- FY21 lung transplant volume increased by 67% compared to FY20
- FY21 surgical case volume increased 30% compared to FY20

COVID-19 Transplant Research

- Science Translational Medicine Cover Story showing mechanism of COVID lung damage
- The Lancet Respiratory Medicine paper reporting multinational efforts lead by Northwestern to develop lung transplant for COVID
- Nature paper showing mechanisms of COVID lung damage
- JAMA paper reporting the largest and best post-lung transplant outcomes for COVID in the world



Drs. Samuel Kim (left) and Ankit Bharat

Education

- Successfully received approval to re-launch advanced fellow program
- New thoracic surgery robotics simulation curriculum
- As the Associate program director, Dr. Kim is heading up the mentorship for the thoracic surgery service

Regional Participation/Expansion

- Successfully integrated and enhanced west region infrastructure with the acquisitions of Dr. Andrew Arndt and Dr. Michael Vercillo. Joining Dr. James Wade, this team provides access to comprehensive thoracic surgery care in the western suburbs
- Launched new thoracic surgery outpatient clinics in McHenry and Huntley



Trauma/Critical Care Surgery

Clinical

- Volume in the division grew significantly this year in both our Trauma/Emergency General Surgery and Surgical Critical Care services. The division remained flexible during COVID surges by adjusting the service based on the needs of the patients and the hospital.
- Division faculty continue to be involved and state policy initiatives to decrease violent crime in the Chicago area, which continues to rise, and focus on these initiatives is critically important.

Research

- Dr. Steven Schwulst continues his scientific work studying traumatic brain injuries (TBI) and related immune functions to evaluate potential therapies and supportive care for patients with this disorder.
- Dr. Anne Stey was awarded an NIH K23 award for her project titled "Timeliness of Management of Trauma Related Hemorrhage and Trauma Related Coagulopathy". She also received an award from Northwestern Memorial HealthCare to study communication of care teams; her project is titled "Improving Care Team Communication to Reduce Failure to Treat among Critically Ill Surgical Patients".
- Dr. Anne Stey also received the Department of Surgery Research Mentor Award.

Education

- Dr. Joseph Posluszny excelled this year in his role as Clerkship Director and led an overhaul of the Department of Surgery Clerkship. This overhaul led to dramatic improvement in clerkship team dynamics and culture as well as improvement in the "excellent" rating from students from low of 26% to now 66%.
- Dr. Joseph Posluszny was one of only 4 faculty in the Feinberg School of Medicine recognized for "Exemplary Role Modelling in the Learning Environment".
- Drs. Michael Shapiro & Anne Stey received a Department of Surgery Teaching Award.
- We matched two new fellows this year.



"We aim to be recognized for clinical excellence, outstanding teaching, exemplary scientific inquiry and administrative service in the field of trauma, surgical critical care and emergency general surgery."

- Michael Shapiro, MD, Chief

Clinical

- Continued expansion of acute tertiary/quaternary services as the complex urgent/emergent aortic program experienced a 60% growth year over year

Research

- Drs. Eskandari, Ho, and Vavra—2021 Research Mentor Awards
- Dr. Ho—Investiture as the John Marquardt Clinical Research Professor of Vascular Surgery
- The Victor M. Bernhard, MD and Suzan B. Bernhard Endowed Clinical Research Fund for Vascular Surgery for Vascular Surgery Simulation training led by Dr. Tomita

Education & Faculty Development

- Vascular Division held its 45th Annual Northwestern Vascular Symposium this December
- Dr. Vince Rowe, Professor of Surgery and Vascular Program Director at University of Southern California served as the 2021 Fall Visiting Professor. Dr. Rowe gave a talk on, "Multidisciplinary Approach to Limb Salvage: It Works and How to Embrace It and Not Fight It," during his virtual visit in October 2021
- Dr. Paula K. Shireman, the Dielmann Endowed Chair in Surgery from the University of Texas Health Science Center San Antonio served as the 9th Annual Bergan Visiting Professor in March 2021
- Lara Lopes from The Federal University of Minas Gerais School of Medicine joined as the newest vascular integrate resident July 2021
- Nick Lysak from the University of Florida, joined in August 2021, as the new vascular fellow
- Dr. Hoel was named Director, Mid-Career Faculty Advancement Program

Regional Participation/ Expansion

- Dr. Vavra was appointed Chief of Vascular Surgery at Jesse Brown VA Hospital.
- Significant growth in north and northwest regions (four year CAGR of 43% for vascular surgery volumes)



Vascular Surgery Symposium, L-R: Drs. Nick Cortolillo, Nick Lysak, Mimi Gaines, Calvin Chao, Lara Lopes, Eric Pillado, Maggie Reilly, Andres Guerra, Mark Eskandari

Select Faculty Honors & Awards

Alam, Hasan, MD

Awarded the Loyal and Edith Davis Professor of Surgery, Investiture Ceremony, Northwestern University Feinberg School of Medicine, September 2021.

Ameer, Guillermo, ScD

Society for Biomaterials Clemson Award for Contributions to the Literature

Elected Fellow of the Materials Research Society

Elected Fellow of the National Academy of Inventors

Bharat, Ankit, MBBS

Fellow of the ASA, American Surgical Association

Bilimoria, Karl, MD, MS

American College of Surgeons Academy of Master Surgeon Educators, 2020

Appointment to Society of Asian Academic Surgeons (SAAS) Foundation, Board of Directors, 2021

Caicedo-Ramirez, Juan C., MD

Outstanding Teacher Award / AOSC Mentor, Feinberg School of Medicine, Northwestern University 2020-2021

Chawla, Akhil, MD

Feinberg School of Medicine Department of Surgery Excellence in Teaching Award, 2021

Cox, James, MD

The Jacobson Innovation Award from the American College of Surgeons (ACS) - Highest honor awarded by the ACS

Designated as "Expert in Heart Atria" - Expertscape, Inc. PubMed-Algorithms - Top 1% in world from 2011-2021

Eskandari, Mark, MD

Appointment to SVS Conflict of Interest and Professional Conduct Committee, 2021.

Faculty Research Mentor Award, Department of Surgery, Feinberg School of Medicine

Galiano, Robert, MD

Northwestern AOSC Teaching Award
Second Place, Abstract Presentation, SAWC Spring 2021

Noopur Gangopadhyay, MD

Northwestern Plastic Surgery Victor L. Lewis, Jr. Teaching Award for Junior Residents - June 2021

Northwestern Feinberg School of Medicine Outstanding Teacher Award 2020-2021 for Problem-Based Learning and Area of Scholarly Concentration;

Feinberg Academy of Medical Educators (FAME) Induction and Membership

Grady, Kathleen, PhD

Northwestern Research Mentor Award (AOSC Mentor)

Heart Failure Hall of Fame: Getting to Know the Pioneers Who Inspire Us, American College of Cardiology, Published in JACC

Hansen, Nora, MD

2021 Castle Connolly America's Top Doctors

2021 Chicago Magazine 2020 Top Doctors

2021 Castle Connolly Top Doctors for Cancer

2021 Castle Connolly Exceptional Women in Medicine

Ho, Karen, MD

Director of Resident Research, Department of Surgery, Northwestern University Feinberg School of Medicine

John Marquardt Clinical Research Professor of Vascular Surgery, Northwestern University Feinberg School of Medicine

Member, Editorial Board, Journal of Vascular Surgery - Science

Hong, Seok Jong, PhD

Elected as a scientific member on the Northwestern University's Institutional Animal Care and Use Committee (IACUC)

Howard, Michael, MD

Invited to serve on the Advisory Committee on Breast Cancer in Young Women of the Centers for Disease Control and Prevention (CDC)

Hungness, Eric, MD

2020-2021 Excellence in Teaching Award, Northwestern University Department of Surgery

Issa, Nabil, MD

2021 Presidential Citation Award, Surgical Critical Care Program Directors Society, 2021.

Excellence in Teaching Award, Northwestern Surgical Residency Program, 2021.

Excellence in Teaching Award, Feinberg School of Medicine

Johnson, Julie, MSPH, PhD

Received Best Research Poster Award for the Section on Emergency Medicine at the American Academy of Pediatrics (AAP) National Conference and Exhibition (NCE), 2021.

Kaushal, Sunjay, MD, PhD

Elected as Fellow to International Academy of Cardiovascular Sciences, effective January 1, 2022

Kim, John YS, MD

Plastic Surgery Foundation Visiting Professor, Mt. Sinai, NY, 2020

CME Editor for Plastic and Reconstructive Surgery, 2021

1st Place E-Poster, Annual Meeting of the American Association of Plastic Surgeons, "Breast Implants and Immunomodulation: Does Peri-Implant Inflammation Promote Systemic Recognition of Breast Tumor Antigen?," 2021

Kim, Samuel, MD

2020-2021 Excellence in Teaching Award - Northwestern Department of Surgery, FSM, Northwestern University

2021 Teaching Pin - AOSC Mentor

Top Doctor 2021 - Chicago Magazine

Kulkarni, Swati, MD

2020 Excellence in Medical Student Teaching for AOSC Mentor

Ladner, Daniela, MD, MPH

American Association for the Study of Liver Disease (AASLD) - Fellow Research Award (Nikhilesh Ray Mazumder); Black patients with cirrhosis have worse outcomes: results from a metropolitan cohort study (Mentor) (2020)

ASTS Presidential Student Travel Award (Sydney Olson), Mentor (2021)

Teaching Award, FSM: Area of Scholarly Concentration (AOSC) Mentor (2021)

Ledwon, Joanna, PhD

Second Place Basic Science Award at the 59th Annual Scientific Meeting of the Midwestern Association of Plastic Surgeons.

Lemoine, Caroline, MD

Cover Image of Pediatric Transplantation: Internal split liver transplants reduce the waiting list time for teenagers with a low calculated Model for End-stage Liver Disease score. March 2021

Lung, Calvin, MD, MSc

Awarded the AATS Foundation Thoracic Surgical Robotics Fellowship, March 2021.

Mathew, James, PhD

Teaching Award - Surgery AOSC Mentor 2021. 2. Elected Member - Simpson Querrey Institute of BioNanotechnology, Northwestern University.

McCarthy, Patrick, MD

Castle Connolly Top Doctor, 20 consecutive years

McGee, Michael, MD

Named Top Doctor, Chicago Magazine 2021

Merkow, Ryan, MD, MS

Department of Surgery Research Mentoring Award, Northwestern University, 2021.

Feinberg School of Medicine Outstanding Medical Student Teacher and Mentor Award, 2021.

Pinelli, David, PhD

AST Transplant Diagnostics Community of Practice Case Presentation Award.

Posluszny Jr., Joseph, MD

Northwestern Feinberg School of Medicine Nomination for Exemplary Professionalism, 2020.

Northwestern Feinberg School of Medicine Department of Surgery Research Mentor Award, 2020.

Northwestern Feinberg School of Medicine Best Interest Group Loyal Davis Society, 2021.

Select Faculty Honors & Awards

Poylin, Vitaliy, MD

Chicago Top Doctor, Chicago Magazine 2021

Raval, Mehul, MD, MS

Appointed Vice Chair of Quality and Safety, Lurie Children's Hospital, Department of Surgery, 2021

Selected to the Editorial Board of the *Journal of Pediatric Surgery*, 2021

Chair, American Academy of Pediatrics, Delivery of Surgical Care Committee, 2020-2022

Schwulst, Steven, MD

Feinberg School of Medicine Outstanding Teacher Award 2020

Northwestern University Research Mentor of the Year Award 2020

Shapiro, Michael, MD

Feinberg School of Medicine Department of Surgery Excellence in Teaching Award, 2021

Simpson, Dinee, MD

Elected to Northwestern University Chapter of AOA, Jan 2021

Recognized for excellence as an Area of Scholarly Concentration (AOSC) Mentor, Jan 2021

Recognized for health equity efforts in transplantation by Barnard Elementary, Chicago Public Schools.

Named a Black Pioneer in Medicine, chosen to be one of 10 portrayed in a public mural on Chicago's South Side, revealed at the 2021 Juneteenth Celebration, June 2021

Stey, Anne, MD

Emergency Medicine Best Trauma/SICU Teacher, Northwestern University Feinberg School of Medicine, Jun 2021.

Department of Surgery Research Mentor of 2021, Northwestern University, Oct 2021.

Teaching Award, Feinberg School of Medicine, Nov 2021.

Scott, Strong, MD

Appointed Past-President of American Society of Colon and Rectal Surgeons Research Foundation, 2020;

Named Castle Connolly America's Top Doctors, 2021;

Named Castle Connolly America's Top Doctors for Cancer, 2021

Sturgeon, Cord, MD

President-elect of the American Association of Endocrine Surgeons (May 2021-May 2022)

Castle Connolly / Chicago Magazine Top Doctor (surgery)

Northwestern Medicine Insurance Corporation Grant \$50,000. Fall Prevention

Tomita, Tadaki, MD

Appointed as Surgery Clerkship Director, Department of Surgery, September 2021.

Vavra, Ashley, MD

Resident Research Mentor Award, June 2021.

Vela, Alyssa, PhD

Teacher of the Year: Outstanding Contribution to Academic Instruction 2021 Northwestern Department of Psychiatry and Behavioral Sciences

Wayne, Jeffrey, MD

Named Top Doctor by Castle Connolly, 2022 (Chicago Magazine, 12/28/2021)

Elected President, IL Surgical Society (2021-2022)
Named Chair, Audit Committee, Central Surgical Association (2021-2022)

Named to Corporate Relations Committee, Society of Surgical Oncology (2021-2023)

Yang, Anthony, MD, MS

Vice Chair of the American Association of Endocrine Surgeons (AAES) Program Committee, 2021-2023

Received Outstanding Performance Award from Commission on Cancer (CoC), Cancer Liaison Program, 2021

Select Faculty Presentations

Abbass, Mohammad Ali, MD

Gastroenterology citywide lecture: Phenotype management of colorectal cancer syndromes

Alam, Hasan, MD

Presenter, "Cutting Edge Cytoprotective Strategies - Alternative Approaches to Resuscitation," Trauma, Critical Care and Acute Care Surgery Conference, Las Vegas, NV, April 12, 2021.

Presenter, "COVID-19: General Surgery Complications," Trauma, Critical Care and Acute Care Surgery Conference, Las Vegas, NV, April 12, 2021.

Panelist, "Taming the Tiger: How to support others in a competitive setting," 2021 Society of Asian Academic Surgeons Conference, Chicago, IL, September 26, 2021.

Bentrem, David, MD

Logan, C, French, D, Hudnall, M, Durst, D, Weiner, A, Murphy, A, Halverson, A, Halpern, J, **Bentrem, DJ**. Evaluation of Rural Access and Outcomes Disparities for Robotic Radical Prostatectomy. SSO 2022.

Joung R, Abbass, M, Kircher S, **Bentrem DJ**, Bilimoria KA, and Merkow R. Status of KRAS Testing in Metastatic Colorectal Cancer in the United States: Room for Improvement? SSO 2022.

Joung R, Ruoqia D, Chung J. **Bentrem DJ**, Yang A, Bilimoria KA, and Merkow R. Evaluation of Post-Discharge deterioration following major gastrointestinal cancer surgery. GI ASCO, Jan 20-22, 2022.

Bharat, Ankit, MBBS

Department of Surgery | University of Wisconsin School of Medicine and Public Health, January 2021

6th Annual O.H. "Bud" Fraizer Transplant Series, Baylor St. Luke's Medical Center, March 2021

Cardiothoracic Surgery Department at Mayo Clinic Arizona, August 2021

Bilimoria, Karl, MD, MS

Invited Speaker: "Work Hour Restrictions and Ensuring Quality Surgeons". 6th AKU Annual Surgical Conference. Karachi, Pakistan (Virtual), March 7 2021.

Invited Speaker: "From FIRST to THIRD: Building a Novel Platform for National Surgical Education Trials", McCabe

Visiting Professor in Surgical Education. Massachusetts General Hospital (MGH) Harvard. Boston, MA, September 30 2021.

Invited Speaker: "Use of Surgical Process and Outcome Metrics to Improve Surgical Quality", Technical Standards for Cancer Surgery: Bringing Evidence into Practice. ACS Clinical Congress. Virtual, October 26 2021.

Caicedo-Ramirez, Juan C., MD

Invited Speaker, "Perceptions of a culturally Targeted Hispanic Kidney Transplant Program: A Mixed Methods Study The Hispanic Paradox in Patients with Liver Cirrhosis: Current Evidence from a Large Regional Retrospective Cohort Study," University of Michigan Virtual TREE Meeting, September 2020.

Invited Speaker, "Trasplantes durante la pandemia COVID. Experiencia de un centro de excelencia en Estados Unidos" (Virtual) Congreso Nacional Mexicano De Trasplantes, October 2020.

Invited Speaker, "Racism in Transplantation: Current State and Future Directions" American Transplant Congress (ATC) 2021 Virtual Connect June 2021

Chawla, Akhil, MD

The role of oncologic resection and enucleation for small pancreatic neuroendocrine tumors - American College of Surgeons Clinical Congress 2020

Neoadjuvant Therapy and Nodal Downstaging in Pancreatic Adenocarcinoma - Pancreas Club 2021

Churyla, Andrei, MD

Invited Speaker, "Minimally Invasive Thoracoscopic Epicardial Ablation Plus Endocardial Ablation For Refractory Atrial Fibrillation" Heart Rhythm 21, Boston, MA, July 30, 2021.

Invited Speaker, "Staged Hybrid TT Maze/Catheter Ablation" 3rd Annual Catheter and Surgical Therapies for Atrial Fibrillation (CAST-AF) Conference, Hybrid, August 27, 2021.

Invited Speaker, "Long-Term Benefits of Concomitant AF Surgery" 3rd Annual Catheter and Surgical Therapies for Atrial Fibrillation (CAST-AF) Conference, Hybrid, August 27, 2021.

Select Faculty Presentations

Cox, James, MD

Invited Speaker, "History of the Maze Procedure," AATS Surgical Treatment for Arrhythmias and Rhythm Disorders, Virtual, October 2, 2020.

Featured Lecturer, "The Clinical Impact of Atrial Fibrillation and How We Can Treat it Better," 5th Annual AMICS Conference, Moscow, Russia, October 15, 2020.

Featured Lecturer, "Contemporary Interventional Therapy for Atrial Fibrillation," King Faisal Specialist Hospital & Research Center, Riyadh, Saudi Arabia, August 12, 2021.

Eskandari, Mark, MD

Speaker, "Current Guidelines for Treating Thoracic and Abdominal Aortic Aneurysms." Philadelphia Cardiovascular Congress, Philadelphia, PA, November 5-6, 2021.

Speaker, "Adjunctive Peripheral And Visceral Interventions During TEVAR For Complicated TBADs: Indications, Technical Tips And Results." 48th Annual VEITH Symposium, Orlando, FL November 16-20, 2021.

Moderator, "Current Issues in Vascular Surgery." 45th Annual Northwestern Vascular Symposium, Chicago, IL, December 9-11, 2021.

Feingold, Kim, PhD

Cardiac Behavioral Medicine: Building a comprehensive approach to cardiac care. Virginia Commonwealth University. Department of Psychology visiting lecture series. Richmond, VA., April, 2021.

Women and heart disease: The mind-body connection. Heart Month Series. Jewish Federation of Cleveland. Cleveland, OH. Feb 2021.

Strategies to boost wellness: Mended Hearts chapter meeting, Chicago Chapter, Chicago, IL. Jan 2021.

Galiano, Robert, MD

Wan R, Weissman J, Ullrich P, Joshi C, **Galiano R**. Nasal Alar and Tip Reconstruction Following Mohs Surgery Using Fresh Frozen Cadaveric Cartilage: A Novel Approach. Plastic Surgery: The Meeting. Atlanta, GA. 31 October 2021.

Patel A, Wan R, Garg S, Ullrich P, Ellis M, Vaca E, **Galiano R**. The Asian Eye: Anthropometric Eye Measurements of Attractiveness in Young Asian Women. Plastic Surgery The Meeting. October 2021.

Joshi C, Weissman J, Yu SS, Ullrich P, Dhillan R, **Galiano R**. The Utility of Transforming Powder Dressing in the Management of Stage 4 Chronic Venous Leg Ulcer. The Symposium on Advanced Wound Care Fall. Las Vegas, NV. October 2021.

Gangopadhyay, Noopur, MD

Snyder-Warwick A, **Gangopadhyay N**, Rogers-Vincenza C, and Lee J. Challenges in Pediatric Reconstruction: Management of Bone Defects in the Pediatric Craniofacial Skeleton. Panel Presentation: Plastic Surgery the Meeting 2020 (Virtual). October 16, 2020;

Gangopadhyay N. Dental and Orthodontic Considerations in Craniofacial Syndromes. Presentation: Illinois Society of Pediatric Dentists Fall Webinar. Zoom - Chicago, IL. November 17, 2020;

An Introduction to Pediatric Microsurgery. Presentation: Virtual Visiting Professor for Stanford University. Zoom - Palo Alto, CA. March 30, 2021.

Garza-Castillon, Jr., Rafael, MD

VV-ECMO, Lung Transplant and Covid-19 - NMH Experience - XLIV Congreso Internacional de Cirugía General, Ciudad de México, México. Oct 20-23/2020.

Virtual Schwartz rounds. "In Thanksgiving for a Diverse Workplace", Northwestern Memorial Hospital - Panelist. Nov/21/2020.

Grady, Kathleen, PhD

Psychosocial and economic determinants of advanced heart failure and treatment outcomes: How to appropriately address and factor into outcomes. Heart Failure Society of America conference.

Definition and Stratification of Risk of Patients in Heart Failure - Stage D. New Advances in refractory Heart Failure Management - AHA Joint Session with the Brazilian Society of Cardiology.

Debate: Ready to Launch! Our Young Adults must Transition (CON). Hot topics for transplant and mechanical circulatory support clinicians. International Society for Heart and Lung

Hansen, Nora, MD

Lynn Sage Breast Cancer Symposium, Speaker Moderator, Session Chair. Chicago, IL September 2020

Hansen, Nora, MD (cont.)

Lynn Sage Breast Cancer Symposium, Session Chair (Disparities in Breast Cancer), Session Chair, (Complicated Local Therapy Cases), Chicago, IL September 2021

Ho, Karen, MD

Invited Speaker, "Gut Microbe-Dependent Metabolites as Modulators and Biomarkers of Atherosclerosis," 2020 Vascular Cures Innovation Summit, Virtual Meeting, September 18, 2020.

Invited Speaker, "New Medical Therapy for Peripheral Arterial Disease," Midwestern Vascular Surgical Society, New Horizons Webinar Series: Medical Advances in Peripheral Arterial Disease, May 20, 2021.

Huang, Reiping, PhD

Author, "Evaluation of Multifaceted Quality Improvement Strategies on Postoperative VTE Chemoprophylaxis Adherence in a Statewide Quality Improvement Collaborative," ACS Quality and Safety conference, Virtual, July 2021.

Author, "Use of Patient-Reported Outcomes to Predict Preoperative Frailty," ACS Clinical Congress, Virtual, February 2021.

Author, "Leveraging Digital Care Platform to Drive Quality Improvement in Postoperative Opioid Medication Use," American College of Surgeons Clinical Congress, Virtual, October 2020.

Hungness, Eric, MD

Transcystic Laparoscopic Common Bile Duct Exploration: From Simulation to OR. Surgical Grand Rounds, University of New Mexico Department of Surgery, January 10, 2020, Albuquerque, NM

Issa, Nabil, MD

Moderator session 2, Discussant session 3, Judge poster session- Annual meeting for the ASE- Zoom platform, March 2021

Johnson, Julie, MSPH, PhD

Presenter, Cassandra B. Iroz, MS; Amanda Vlcek, MHA, LCSW, Anne Bobb, MBA, Reiping Huang, PhD, John Slocum, MPH, Salva Balbale, PhD, Julie K. Johnson, MSPH, PhD, Jonah J. Stulberg, MD, PhD, MPH. Achieving Sustained Improvement: Two-year Data on Opioid Prescribing for General Surgery Procedures Following a Comprehensive Health System-wide Opioid Reduction Initiative. 2021 ACS Quality and Safety Conference, Virtual, July 12-16, 2021.

Presenter, John Slocum, MPH; Reiping Huang, PhD; Brianna M. D'Orazio, MPH; Naomi Kroncke, BSN, RN; Karen Leaf, MS, BSN, RN; Remi Love, MPPA; Julie K. Johnson, MSPH, PhD; Jonah J. Stulberg, MD, PhD, MPH. The Effect of Sharing Opioid Prescribing Rates and Benchmarking on Postoperative Pain Management in a Statewide Collaborative. Poster Presentation. 2021 ACS Quality and Safety Conference, Virtual, July 12-16, 2021.

Presenter, Hoffmann JA, Johnson JK, Pergjika A, Alpern EA, Corboy JB. Development of Quality Measures for Pediatric Acute Agitation Management in the Emergency Department. American Academy of Pediatrics National Conference and Exhibition, Virtual, October 8-12, 2021.

Kaushal, Sunjay, MD, PhD

"New Era of Pediatric Heart Failure Therapy: Cardiac Stem Cell Therapy," Pediatric Cardiac Intensive Care Society (PCICS) 25th Annual International Meeting, Cardiac Critical Care Loonshots, September 20-22, 2021 [virtual meeting]

"Congenital Cardiac Surgery and Research at Ann & Robert H. Lurie Children's Hospital of Chicago," Virtual Meeting, Community Connect Physicians, Chicago, IL September 2, 2021.

"Stem Cell Therapy and Other Novel Treatments in HLHS: Updates on Current Clinical Trials," Virtual Meeting, Fetology Chicago: Practice & Discovery, Chicago, IL, September 9, 2021.

Khan, Seema, MD

Invited speaker, American Society of Clinical Oncology. "Team Players: A Multidisciplinary Approach to the Treatment of Oligometastatic Breast Cancer." Virtual Meeting, June 2021.

Invited speaker, Princess Margaret Cancer Centre Seminar Series. "Present barriers and new directions in breast cancer prevention." Virtual Meeting, April 2021.

Invited speaker, Best of SABCS Shenzhen. "Local regional Surgery in Stage III and IV Breast Cancer." Virtual Conference, January 2021.

Kim, John, MD

Keynote Lecture, "Challenges and Controversies in Prosthetic Breast Reconstruction," Plastic and Reconstructive Surgery, Korea, November 14, 2020.

Select Faculty Presentations

Kim, Samuel, MD

(National) AATS 101st Annual Meeting. My Best Thoracic Case - Bi-Segmentectomy of Inoperative Imaging (May 2021)

(Regional) Northwestern Medicine "Dinner with an Expert" Topic: Endoscopic and Surgical Management of Early Esophageal Cancer (March 2021)

Kulkarni, Swati, MD

Spotlight Session 5: Current Concepts and Controversies in Ductal Carcinoma in Situ (DCIS). Invited Speaker, San Antonio Breast Cancer Symposium. Virtual Meeting, December 2020.

Blair S, Douglas S, **Kulkarni S**, Wallace A, Armani A. Controversial Areas in Axillary Staging: Are we following the guidelines? Quick Shot Presentation. American Society of Breast Surgery Virtual Meeting, May 2021.

Kulkarni S, Kulkarni K, Schacht D, Bhole S, Reiser I, Abe H, Bao J, Bethke K, Hansen N, Jaskowiak N, Khan SA, Tseng J, Chen B, Pincus J, Mueller J, Schulte L, Labomascus B, Zhang Z, Xia D, Pan X, Wietholt C, Modgil D, Lester D, Lan L, Bohara B, Han X. High Resolution Full 3D Specimen Imaging for Lumpectomy Margin Assessment in Breast Cancer. Oral Presentation, American Society of Breast Surgery, Virtual Meeting, May 2021.

Ledwon, Joanna, PhD

Ledwon JK, Stoehr JR, Vaca EE, Gosain AK. MicroRNAs: potential for molecular modulation of mechanically-induced skin growth during tissue expansion. 59th Scientific Meeting of Midwestern Association of Plastic Surgeons, June 2-5, 2021, and 66th Annual Meeting of the Plastic Surgery Research Council, June 7-11, 2021, and 90th Annual Meeting of the American Society of Plastic Surgeons, Atlanta, GA, October 29 - November 1, 2021.

Applebaum SA, **Ledwon JK**, Han T, Chang AB, Tepole AB, Gosain AK. Morphological changes of skin related to acellular dermal matrix (ADM) incorporation in subacute tissue expansion. 59th Scientific Meeting of Midwestern Association of Plastic Surgeons, June 2-5, 2021, and 66th Annual Meeting of the Plastic Surgery Research Council, June 7-11, 2021, and 90th Annual Meeting of the American Society of Plastic Surgeons, Atlanta, GA, October 29 - November 1, 2021.

Chang AB, **Ledwon JK**, Kelsey L, Kearney A, Applebaum S, Gosain AK. Myofibroblast activation during skin adaptation to mechanical forces in tissue expansion. 66th Annual Meeting of the Plastic Surgery Research Council, June 7-

11, 2021, and 90th Annual Meeting of the American Society of Plastic Surgeons, Atlanta, GA, October 29 - November 1, 2021.

Lemoine, Caroline, MD

Invited speaker, Comprehensive Transplant Center Research Seminars, Northwestern Memorial Hospital (Chicago, USA). Split liver transplant experience at Lurie Children's Hospital and combined Lurie Children's Hospital and Northwestern Memorial Hospital experience. May 2021

Invited speaker, Biliary Atresia and Related Diseases (BARD) Webinar (virtual meeting). Pediatric liver surgery: Techniques and centralization. July 2021

Moderator, Meet-the-Expert session, American Association for the Study of Liver Diseases (AASLD) Conference (virtual meeting). Minimizing Deaths on the Pediatric Waiting List. November 2021

Leventhal, Joseph, MD, PhD

Invited Grand Rounds Speaker, "Transplantation Tolerance Through Therapeutic Cell Transfer: Where Do We Stand?", Saint Joseph's Hospital, Chicago, IL February 10, 2021
Invited Speaker, Predicting, Inducing and Monitoring Graft Tolerance in Kidney Transplantation", Optum Health, May 5, 2021

Invited Grand Rounds Speaker, "Transplant Tolerance", University of Pittsburgh, September 10, 2021

Malaisrie, S. Chris, MD

Invited Speaker, "Deep Dive into Valve-Sparing Aortic Root Procedure - Reimplantation," The Society of Thoracic Surgeons 2021, Virtual, January 29, 2021.

Invited Speaker, "Heart Team Approach to Complex Valvular Heart Disease - Aortic Bioprosthesis with Structural Valve Degeneration," The Society of Thoracic Surgeons 2021, Virtual, January 29, 2021.

Invited Speaker, "How to teach for young surgeons - MICS AVR," Japan Minimally Invasive Cardiac Surgery 2020, Virtual, July 2, 2021.

Mathew, James, PhD

Invited Speaker, "Purification and expansion of Regulatory T cells (Tregs)" Workshop at 3rd Treg Summit, Virtual; May 18, 2021.

Mathew, James, PhD (cont.)

Moderator - "Regulatory T cell therapy for Clinical Autoimmune and Transplantation Tolerance". American Transplant Congress 2021, Virtual; June 6, 2019.

Invited Speaker "How to write and Review a Manuscript". Webinar to American Society of Histocompatibility and Immunogenetics Directors-in-Training, August 11, 2021.

McCarthy, Patrick, MD

04/22- CTSNet Roundtable Topic of "MV and TV Repair: What Can Adult and Congenital Surgeons Learn from Each Other - Part 2: Tricuspid Valve,"

05/01 8-9:45am CDT / 9-10:45am EDT Session: Amazing Atrial Fibrillation Surgery **SPEAKER:** "Is a Full Cox Maze IV Necessary?"

July 21st @ 8:30-9:30am EDT TVT 2021 - LIVE SESSION - Abbott Symposium (REPAIR-MR) **SPEAKER:** "The REPAIR-MR Trial - Developing New Evidence for Moderate Risk and Elderly DMR Patients

McGee, Michael, MD

Surgery for Inflammatory Bowel Disease. St. Joseph's Hospital Department of Surgery, Chicago (via Zoom) November 3, 2021.

Learning from Your Mistakes. 12th Annual Colorectal Surgery Residents Career Course, Cleveland, OH (via Zoom), November 5, 2021.

Pre-operative Stoma Site Marking: What's new? An update from the joint WOCN/AUA/ASCRS Stoma Site Marking Task Force. December 9, 2021.

Mehta, Christopher, MD

Invited Moderator, "Results of Contemporary Interventional Procedures for Long-Standing Persistent AF," 3rd Annual Catheter and Surgical Therapies for Atrial Fibrillation (CAST-AF) Conference, Chicago, IL, August 28, 2021.

Invited Moderator, "Surgical Options, Results, and Guidelines," 3rd Annual Catheter and Surgical Therapies for Atrial Fibrillation (CAST-AF) Conference, Chicago, IL, August 28, 2021.

Merkow, Ryan, MD, MS

NCI T32 Cancer Prevention and Control Fellowship Lecture, Using Patient Reported Outcomes to Improve Patient Care in Surgical Oncology, Virtual, October 2020.

How to Use Datasets - "How I Do It" Research Talks Part 1. ACS Quality and Safety Conference, Virtual, July 2021.
Operative Standards: Evaluating the Quality Issues with Implementing the Operative Standards, ACS Quality and Safety Conference, Virtual, July 2021.

Monge, Michael, MD

Mongé MC. Moderator, Scientific Session V. Western Thoracic Surgical Association 47th Annual Meeting, Phoenix, AZ, September 30-October 2, 2021.

Mongé MC*, Joong A, Reichhold A, Thrush P. Novel cannulation strategies in pediatric VAD patients. 2021 ASAIO (American Society for Artificial Internal Organs), Washington, DC, June 9-12, 2021.

Magnetta DA, Hoch V, Pinelli D, **Mongé M[C]**, Pahl E, Thrush P. Newly detected donor specific antibodies after heart transplantation in Fontan patients with protein losing enteropathy. Poster presentation, American Transplant Congress. ATC2021Virtual Connect meeting, June 4-9, 2021.

Magnetta DA, Reichhold A, Thrush P, **Mongé M[C]**, Webster [R]G, Joong A. Biventricular assist device support of a child with intractable arrhythmias secondary to histiocytoid cardiomyopathy. Poster presentation, 16th International Conference on Pediatric Mechanical Circulatory Support Systems & Pediatric Cardiopulmonary Perfusion, Virtual Meeting hosted by Cincinnati Children's Hospital Medical Center, August 26-27, 2021.

Pham, Duc Thinh, MD

Invited speaker at Annual Congress for Cardiac Surgery: Overview Heart Transplantation in relation to VAD today, Nov 23-24, 2021.

Invited speaker Annual Congress for Cardiac Surgery: The Future of end-stage Heart Failure Treatment, Nov 23-24, 2021.

Invited speaker AATS MasterClass, Impella 5.5 with SmartAssist: Techniques, Strategy, and Best Practice, April 30, 2021.

Poylin, Vitaliy, MD

American College of Surgeons clinical congress 2021 - Podium presentation Systematic review and meta-analysis of randomized controlled trials evaluating the effect of the level of ligation of inferior mesenteric artery on functional outcomes in rectal cancer surgery. Full author list: Yegor Trylisky; Chee Siong Wong; Ivanna Demykhova; Volodymyr V. Tyselskyi; Andrii Kebkalo; **Vitaliy Poylin;**

Select Faculty Presentations

Raval, Mehul, MD

Raval, MV. Enhanced Recovery for Pediatric Inflammatory Bowel Disease Surgery: The ENRICH-US trial. ERAS USA, 4th Annual Congress, New Orleans, LA; November 2021 (Invited Oral presentation & Panelist)

Raval, MV. Enhanced Recovery in Pediatric GI Surgery. Annual American Pediatric Surgical Association Meeting, Systematic Review/Quality Toolkit Session - IBD/ERAS, May, 2021 (Invited Speaker/Session Moderator)

Raval MV. The Value of Children's Hospitals: Are Increased Costs of Justified or Driven by Economics? Surgical Outcomes Club - Health Economics Webinar. National Virtual Webinar. January 2021 (Invited Speaker & Panelist)

Roitberg-Tambur, Anat, DMD, PhD

Invited speaker: "The Promise of Epitope Mismatch Analysis" Where do we stand? European Society of Organ Transplantation annual congress, Milan, Italy. August 2021.

Importance of HLA-DQ matching. 17th Brazilian Transplant Congress, Brazil. October 2021.

Molecular Mismatch Load Analysis - Indian Society of Histocompatibility and Immunogenetics and the Asian Pacific Histocompatibility and Immunogenetics Association (ISHI and APHIA), November 2021.

Sambandam, Yuvaraj, PhD

Y. Sambandam, M. Kandpal, J. He, X. Huang, T. S. Taylor, A. A. Shetty, J. M. Mathew, J. R. Leventhal. Kidney Transplant Rejection Can Be Diagnosed or Even Predicted by Tracking Donor Reactive T-Cell Clones in Post-transplant Samples. Rapid Fire Oral Abstract, American Transplant Congress (ATC), Virtual connect, June 4-9, 2021.

Y. Sambandam, M. Kandpal, J. He, X. Huang, J.R. Leventhal and J.M. Mathew, Pre-Transplant Identification Of Donor-Reactive T Cell Clones And Their Tracking Post-Transplant For Monitoring Rejection In Kidney Transplant Patients, at American Society for Histocompatibility & Immunogenetics (ASHI), Virtual Global Annual Meeting held during Oct 19-21, 2020 (Virtual).

J.R. Leventhal, **Y. Sambandam,** J. He, X. Huang, L. Gallon, and J.M. Mathew, Diagnosis of kidney transplant rejection by tracking donor-reactive T-cell clones in the post-transplant biopsy, blood and urine samples. 28th

International Congress of the Transplantation Society (TTS, Sep 13-16, 2020 (Virtual).

Schwulst, Steven, MD

Invited Lecturer, "Aged Mice Demonstrate Preserved Learning and Memory After Traumatic Brain Injury Compared to Young Mice," Shock Society, 43rd Annual Conference on Shock. Toronto, Canada. June 6-9, 2020.

Invited Lecturer, Sex matters in Traumatic Brain Injury. 44th Annual Conference on Shock. Portland, OR. October 12-15, 2021.

Invited Lecturer, Microglia-Dependent Age Effects on Acute TBI Outcomes. 44th Annual Conference on Shock. Portland, OR. October 12-15, 2021.

Simpson, Dinee, MD

Invited Panelist, Harvard University Equity and Social Justice Webinar Series: Kidney Health, Sept 2020

Invited Panelist, "Building an African American Transplant Access Program: My Experience". American Society of Transplant Surgeons Winter Symposium, January, 2021

Invited Speaker, Disparities in Liver Transplantation: "Impact of Race on Candidacy and Outcomes, American Transplant Congress, Seattle, WA, June 7, 2021.

Stey, Anne, MD

Invited Presenter, "How care decisions are made among interdisciplinary providers caring for critically injured patients: A qualitative study," Roche Diagnostics, Jan 2021.

Panelist, "Together We Heal," City of Chicago, Jan 2021. Invited Presenter, "Optimizing Re-Triage of the Injured Patient," Illinois Surgery Quality Improvement Collaborative, Sep 2021.

Strong, Scott, MD

Co-moderator, "Anoperineal disease in inflammatory bowel disease," Advances in Inflammatory Bowel Disease, Virtual, December 2020;

Panelist, "Short segment terminal ileal stricture," Advances in Inflammatory Bowel Disease, Virtual, December 2020

Sturgeon, Cord, MD

SOQIC conference, Fall 2020. Pandemic response and reactivation panel. Virtual. Sept 2020.

American Organization for Nursing Leadership Conference - Leveraging Predictive Analytics to Improve Outcomes and Reduce Documentation. Virtual. July 14, 2021

Thyrototoxic Conditions Meet The Professor. ATA Annual Meeting. October 2, 2021. Virtual.

Teitelbaum, Ezra, MD, Med

Teitelbaum EN. Tip of the Iceberg: Preoperative Evaluation of Hiatal Hernia and Reflux in Patients with Obesity. Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) - Annual Meeting. Las Vegas, NV. September 3rd, 2021

Tian, Yao, PhD

Poster, "Disparities in the Use of Ambulatory Surgical Care Among Pediatric Populations," AcademyHealth Annual Research Meeting, A Virtual Event, June 14-17, 2021.

Tomita, Tadaki, MD

Invited Speaker, "Popliteal Aneurysm Repair: Should Endovascular Exclusion Be First Line Therapy?" 45th Annual Northwestern Vascular Symposium, Chicago, IL, December 9-11, 2021.

Moderator, "Upper Extremity And Supra-Aortic Trunk Disease." 45th Annual Northwestern Vascular Symposium, December 9-11, 2021.

Invited Speaker, "Percutaneous Aspiration Thrombectomy for Acute Limb Ischemia: When and How." 45th Annual Northwestern Vascular Symposium, Chicago, IL, December 9-11, 2021.

Moderator, "Vascular Medicine." 45th Annual Northwestern Vascular Symposium, Chicago, IL, December 9-11, 2021.

Vela, Alyssa, PhD

Vela, A.M. Caring for Ourselves: Considerations for Clinician Well-being and Self-Care. Webinar presented to the American College of Lifestyle Medicine. December 2020.

Vela, A.M. Psychosocial Risk and Behavioral Health Considerations for Heart Failure. Presented at the American Heart Association Heart Failure Expo. September 2020.

Goldstein, C. M., Busch, A. M., Freedland, K. E., Turner-McGrievy, G. M., & **Vela, A.M.** (2021). Conducting behavioral research with cardiovascular patients during COVID-19: Lessons for the new normal. Panel to be presented at the 42nd annual meeting and scientific session of the Society of Behavioral Medicine, April 12-16, 2021, Virtual Conference.

Wayne, Jeffrey, MD

Hall JA, Lutz TB, Aodhnait SF, Helenowski I, **Wayne JD,** Baertschiger RM. Higher rates of regional disease but improved outcomes in pediatric versus adult melanoma. Accepted for poster presentation at the American Academy of Pediatrics 2021 National Conference and Exhibition. October 8-11, 2021.

Surgical Management of the Regional Nodal Basin for Melanoma in the Post-MSLT-II Era. Annual Fall Foliage Cancer Conference. Asheville, NC. October 16, 2021.

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