



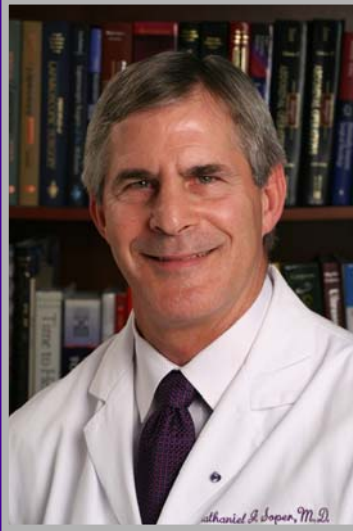
"Safer Surgery Today, Better Surgery Tomorrow"

The Surgical Scope

Issue 10

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Message from the Chair: Nathaniel J. Soper, MD

Thank you for taking time to peruse the 2015 version of the annual newsletter of the Northwestern Medicine Department of Surgery. I am excited to share news of note from the department and from our academic medical center. The institution continues on an upward trajectory that engenders enthusiasm, and our people make it fun to come to work every day! From an institutional standpoint, the Northwestern Memorial Healthcare Corporation (NMHC) continues to grow and consolidate. We merged with Caden-

dence Healthcare a year ago and have signed a definitive agreement to merge with Kish Health, an entity in DeKalb, IL encompassing 2 hospitals and 25 distinct care sites. NMHC will be initiating a major conversion to a single version of the EPIC electronic health record to unify all of our clinical sites. The new outpatient care pavilion across the street from Northwestern Memorial Hospital (NMH) in Streeterville opened in October. It is currently the site of most musculoskeletal offices and outpatient procedures, and additional floors are being operationalized. The new replacement hospital at Lake Forest is rising out of the ground and taking shape. NMH recently was re-designated a Magnet Hospital, and was also ranked #11 in this year's Honor Roll of Hospitals by U.S. News & World Report.

Ground was recently broken for the new Feinberg School of Medicine research building. Named the Louis A. Simpson and Kimberly K. Querrey Biomedical Research Center in honor of a lead gift, the first phase will ultimately stand 12 stories tall and encompass >600,000 square feet. Several floors will be dedicated to researchers from the Lurie Children's Hospital, cementing the closer relationship between our adult and pediatric academic faculty. This research building is a clear demonstration of our institutional commitment to helping solve health problems of the 21st century.

From a research development standpoint, departmental faculty continue to be very productive. In addition to traditional 'basic science' efforts, we have made a major commitment to health services research (outcomes, quality, and policy). Karl Bilimoria has been the focal point, establishing close relationships with the Institute for Public Health and Medicine, the American College of Surgeons and Blue Cross-Blue Shield, the latter entity funding the formation of a statewide col-

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laborative to improve surgical outcomes. Several recent recruits, including Tony Yang (Surgical Oncology), David Odell (Thoracic Surgery), Jonah Stulberg (General Surgery) and Fizan Abdullah (the new Chief of Pediatric General Surgery) are reinforcing and expanding the health services research effort. Additionally, Swati Kulkarni has joined our Division of Breast Surgery, bringing a strong interest and enthusiasm for translational and clinical research. Several of our young faculty have been awarded 'K' grants, thereby developing the pipeline for future research success.

Clinically, our case volume and complexity continue to increase. Scott Strong joined the department in January after a long stint as a colorectal surgeon at the Cleveland Clinic. He is Chief of the Division of GI/Oncologic Surgery and Co-Director of the Digestive Health Center. His GI medical counterpart/Co-Director is Steve Hanauer. Both are internationally known for their expertise in inflammatory bowel disease. Plans are underway to move all GI medicine and surgery outpatient activity, including flexible endoscopy, to the new outpatient care pavilion and thus establish a true combined medical-surgical GI unit. As you can read in the subsequent narrative, the Bluhm Cardiovascular Institute is celebrating its 10th anniversary. Led by Director Pat McCarthy since its inception, the U.S. News & World Report rankings for Cardiology and Cardiac Surgery have moved from 'not ranked' in 2004 to #9 in this year's report. Duc Think Pham has also joined the Division of Cardiac Surgery and the Bluhm Cardiovascular Institute to lead surgical approaches to heart failure.

From an educational standpoint, our UME, GME and CME programs continue to be strong. This year's graduating chief residents all matriculated to outstanding subspecialty fellowships. We were fortunate to have nationally-known luminaries serving as visiting professors and lecturers—Wiley "Chip" Souba, David Flum, Ali AbuRahma, Ron Maier, Heidi Nelson, Shaf Kashavjee and Allan Kirk all shared their time and knowledge with our faculty, staff and trainees. Julia Corcoran recently resigned as Surgery Clerkship director to become one of the class mentors of the incoming freshman medical students, the first surgeon to be thus appointed. Amy Halverson was appointed to be the new clerkship director, so we will continue to educate and recruit Feinberg students to the surgical profession.

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

Respectfully yours,



Nathaniel J. Soper, M.D., FACS

Loyal and Edith Davis Professor and Chair

Department of Surgery

Northwestern Medicine



Northwestern Medicine Cardiology and Heart Surgery program ranked 9th in the country and enters the Top 10 for the first time

For the first time, Northwestern's Cardiology and Heart Surgery programs have been ranked in the Top 10 nationally by U.S. News and World Report's "American's Best Hospitals." For the 8th consecutive year, Northwestern Medicine offers the top-rated heart and heart surgery program in Chicago and Illinois. The Bluhm Cardiovascular Institute was launched in 2004 with the intent of recruiting and developing a multidisciplinary team focused on making a difference in the lives of patients with heart disease.



"We had hoped to join the elite Top 10 programs by 2020. We arrived early due to outstanding results treating complex patients and the increasing recognition that Northwestern is the top program in Chicago and the Midwest. While this is a valued honor, our most authentic purpose is to continue improving the care we provide and indeed to find even better ways to care for our patients. Thus, this is not a finish line; we are on a journey of unceasing advancement. We are committed to continuing our trajectory of growth and evolving excellence, and this will require the extraordinary teamwork and dedication for which the BCVI has come well known." -Patrick McCarthy MD, Executive Director of the Bluhm Cardiovascular Institute and Chief of Cardiac Surgery at Northwestern

The Bluhm Cardiovascular Institute at Northwestern Medicine celebrates 10 years of exceptional medicine

The Bluhm Cardiovascular Institute is celebrating 10 years of expert heart and heart surgery care Northwestern. In February 2005, Neil G. Bluhm announced a \$10 Million gift to Northwestern Medicine's cardiovascular program. A decade after Bluhm's gift was announced, the program is now ranked as one of the best in the United States, has more than tripled the number of Cardiac Surgery cases performed at Northwestern Memorial Hospital, and has become a renowned institute for patients in the Midwest and beyond seeking advanced cardiovascular care.

In April 2004, Patrick McCarthy, MD, Executive Director of the Bluhm Cardiovascular Institute and Chief of Cardiac Surgery at Northwestern, joined Northwestern Medicine to lead the charge of developing a destination for the treatment of vascular and heart disease. "Ten years since Neil Bluhm's transformative gift, Chicago-area residents are choosing not to travel out of state for complex cardiovascular care, and more and more people from around the country are choosing Northwestern Medicine for their heart and vascular surgeries," said McCarthy.

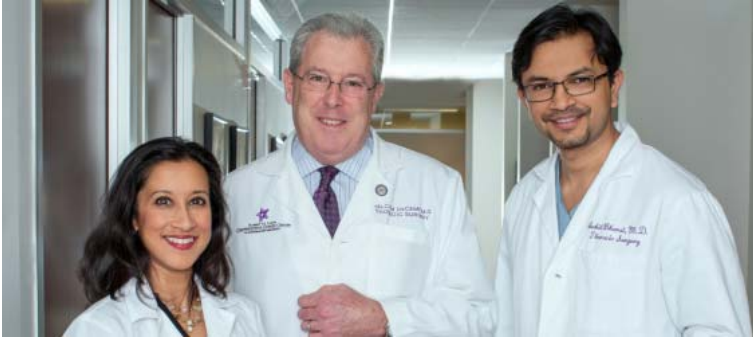
Over the last 10 years, the Bluhm Cardiovascular Institute has seen a number of accomplishments:

- The Cardiology and Cardiac Surgery program at Northwestern has gone from unranked to 9th nationally according to the U.S. News and World Report rankings. For the 8th consecutive year, the heart and heart surgery program has the top-rated program in Chicago and Illinois.
- Cardiac Surgery case volume has more than tripled over the last 10 years, with the majority of growth in the area of complex cardiac surgeries such as valve surgery, heart transplantation, and ventricular device implant.
- Patient Satisfaction scores and likelihood to recommend scores from patients are continuously in the top 10 percent
- The BCVI has extended geographically and sees patients both at the downtown Chicago campus, as well as at our Lake Forest Hospital location and select outpatient centers in Chicago's north suburbs, which provides increased continuity of care for thousands of patients throughout the Chicago area



NM Lung Transplant Program reaches major milestone

In July 2015, the Northwestern Medicine Lung Transplant Team, led by Sangeeta Bhorade, MD (far left), Medical Director of the Lung Transplant Program, and Ankit Bharat, MD (far right), Surgical Director of the Lung Transplant Program, celebrated a major milestone — 1-year patient survival of one of the first Northwestern Medicine lung transplant patients.



The story below, written by NM's Sheila Galloro and featured on the NM.org Blog, shares the story of Lynn Stanczak. Lynn was one of the first Northwestern Medicine lung transplant patients and underwent lung transplantation surgery on July 23, 2014.

“To be in charge of one’s own life is an amazing gift” - Lynn Stanczak, lung transplant patient

One day in July 2009, Lynn Stanczak woke up with a sinus infection, a chronic cough and shortness of breath. She wouldn’t take another normal breath for five years. “I had no idea at the time how sick I would become and that it would impact my life so severely,” said Stanczak, a long time Waukegan resident.

A diagnosis of Bronchiolitis Obliterans followed and over the next few years, Stanczak’s lungs deteriorated eventually causing her to need a lung transplant surgery. One year ago, on July 23, 2014, she was one of the first Northwestern Medicine lung transplant patients. To date, the program has treated 15 patients thanks to a multidisciplinary team of almost 30 experts from surgeons to social workers, pulmonologists, nurses and more.

“Lung transplantation provides patients like Lynn who have chronic and life threatening diseases a new set of lungs and a vastly better quality of life,” said Malcolm DeCamp, MD (pictured right), Chief of the Division of Thoracic Surgery at Northwestern Memorial Hospital and Northwestern University Feinberg School of Medicine. “After the surgery, these patients leave our hospital with bright futures. They are excited to spend time with family and friends, celebrate holidays and even return to work. I’m proud of the work our Northwestern Medicine team has done in one year and look forward to helping more patients in the years to come.”



The road leading to surgery was a long one for Stanczak. Once her lung collapsed and she was hospitalized six times for severe infections. By 2014, she was dependent on oxygen and needed a wheelchair to get to most places. On June 16, 2014 Stanczak and her doctors decided to put her on the lung transplant wait list.

A few weeks later, Stanczak received the call she’d been waiting for.

“When I received the call I was in shock,” Stanczak said. “I thought I was dreaming. I screamed to my husband that lungs were available. Everything happened so fast, I had so many emotions swirling through my mind, not the least of which was the fact that while I was overjoyed there was a family mourning the death of their loved one. This is the time you have to have faith in God. I really felt like God had orchestrated these events and my life was about to change again drastically.”

Story continued on page 6

NM Lung Transplant Program reaches major milestone...continued

While Stanczak checked into the hospital, the Northwestern Medicine procurement team retrieved her lungs. She kissed her husband and was wheeled into surgery. The next thing she remembers is waking up two days later. The nurses told her the surgery was a success and for the first time in a while, Stanczak took a deep breath. Ten days later she was discharged from the hospital and spent the next few weeks working hard to get used to her new lungs.

Lungs are one of the most difficult organs to transplant and manage. Unlike other organs, lungs are exposed to the external atmospheric elements during normal respiration, leading to possible infection and damage, said Ankit Bharat, MD, Lynn's surgeon and the surgical director of lung transplant at Northwestern Memorial Hospital.

"These surgeries are complex and timing is critical," Bharat said. "Surgeons only have about six hours to transport lungs from a donor and transplant into the recipient."



Lynn Stanczak (pictured above) has been able to return to a favorite hobby, gardening.

Stanczak's life post-transplant is remarkably different than her life before the surgery. Today, she has full conversations without having to stop to catch her breath. She's not afraid of stairs or worried she'll need a wheelchair. Only two months after her surgery, she and her husband danced at a wedding. And every day, she's thankful for the gift of organ donation and for the anonymous person who changed her life.

"To do rather mundane things we all take for granted like laundry, grocery shop, volunteer at church, make dinner, take my dogs for walks, are all so important to me," Stanczak said. "I have my freedom back. To be in charge of one's own life is an amazing gift."

Nathaniel J. Soper, MD named Master Educator of the Year and President-Elect by Society for Surgery of the Alimentary Tract (SSAT)

Nathaniel J Soper, MD, Chair of the Department of Surgery at Northwestern, was honored with two prestigious awards at the 2015 Society for Surgery of the Alimentary Tract (SSAT) annual meeting.

Andrew L. Warshaw Master Educator Award

During the most recent Society for Surgery of the Alimentary Tract (SSAT) during the Digestive Disease Week (DDW) in mid-May, Dr. Nathaniel J. Soper was named as the 2015 Master Educator of the Year. The Andrew J. Warshaw Master Educator Award was established in 2011 to recognize an outstanding surgical educator and mentor. The award is presented annually to a member of the SSAT who exemplifies excellence as a mentor, teacher, and educator.

President-Elect of the Society for Surgery of the Alimentary Tract (SSAT)

At the SSAT Annual Meeting, held on Monday, May 18, 2015, Dr. Nathaniel J. Soper was elected to become the President-Elect of this renowned organization. The Society for Surgery of the Alimentary Tract is committed to advancing the science and practice of surgery in the treatment of digestive disease. Their vision is to provide leadership in setting the standards for gastrointestinal surgery and interdisciplinary management of digestive disease, in North America and around the world.



New Full-Time Clinical Faculty



Scott A. Strong, MD was appointed as Professor of Surgery in the Division of GI and Oncologic Surgery as of December 2014. Dr. Strong comes to Northwestern from the Cleveland Clinic Foundation where he has held an appointment in the Department of Colorectal Surgery since 1992. Dr. Strong received his Doctor of Medicine from the University of Iowa. He completed his General Surgery residency at Michigan State University – Butterworth Hospital and then completed a residency in Colorectal Surgery at the Cleveland Clinic. Dr. Strong is an acknowledged authority on the management of Inflammatory Bowel Disease and colorectal cancer. Dr. Strong serves as the Chief of the Division of GI and Oncologic Surgery, as well as the Surgical Director of the Digestive Health Center



Kevin Bethke, MD was appointed as Assistant Professor of Surgery in the Division of Breast Surgery and joined Northwestern Medical Group as of June 2015. Dr. Bethke has been a faculty member of Northwestern University and on the medical staff of Northwestern Memorial Hospital since 1995. Dr. Bethke received his Doctor of Medicine degree from University of Minnesota Medical School in Minneapolis, MN. He completed his surgical residency, as well as a research fellowship, at the University of Wisconsin in Madison, WI. Finally, he completed his Surgical Oncology fellowship at the Medical College of Virginia in Richmond, VA. Prior to joining Northwestern Medical Group, Dr. Bethke was in practice with Northwestern Breast Surgeons, Ltd.



Duc Thinkh Pham, MD was appointed as Associate Professor of Surgery in the Division of Cardiac Surgery as of July 2015. Dr. Pham graduated and completed his general residency at the University of North Carolina School of Medicine. He completed his Cardiothoracic Surgery residency at Northwestern Feinberg School of Medicine and an Advanced Fellowship in Heart Failure and Valvular Surgery in the Cardiovascular Surgery Program. His clinical specialties include all aspects of adult cardiac surgery, including coronary bypass surgery, valvular repair/replacement, trans-catheter aortic valve replacement, aortic surgery, ventricular reconstruction, heart transplantation and VAD implantations. Dr. Pham serves as the Surgical Director for the Center for Heart Failure at the Bluhm Cardiovascular Institute.



Swati Kulkarni, MD was appointed as Associate Professor of Surgery in the Division of Breast Surgery as of July 2015. Dr. Kulkarni received her Doctor of Medicine degree from the Medical College of Pennsylvania. She then completed her General Surgery residency at New York Presbyterian Hospital (Weill Medical College of Cornell University) and was a Breast Surgery Fellow here at Northwestern. Dr. Kulkarni's clinical interests include the surgical treatment of malignant and benign breast disease. Additionally, Dr. Kulkarni has a strong interest and enthusiasm for translational and clinical research. We anticipate that she will be an important addition the Breast Surgery division's research enterprise and, specifically, will collaborate with the group researching the link between obesity and breast cancer.



David Odell, MD, MMSc was appointed as Assistant Professor of Surgery in the Division of Thoracic Surgery as of July 2015. Dr. Odell received his Doctor of Medicine from the University of Washington School of Medicine. He received general surgical training at Virginia Mason Medical Center and Beth Israel Deaconess Medical Center where he also earned a Masters of Medical Science in Clinical Investigation from Harvard Medical School. He completed thoracic surgery training at the University of Minnesota and the University of Pittsburgh Medical Center. Dr. Odell has a strong interest in health services research and he will collaborate with FSM's Institute of Public Health and Medicine (IPHAM) and the Surgical Outcomes and Quality Improvement Center (SOQIC). His clinical interests include surgical treatment of chest and foregut diseases with emphasis on the use of minimally invasive and robotic surgical techniques.



Jonah Stulberg, MD, PhD was appointed as Assistant Professor of Surgery in the Division of GI and Oncologic Surgery as of August 2015. Dr. Stulberg received his Doctor of Medicine and PhD in Health Services Research from Case Western Reserve University. He then completed his General Surgery residency at University Hospitals, Case Medical Center. In addition to his clinical interest in general surgery, Dr. Stulberg's research interest is focused on health services research. He will be engaging in and leading research activities in the area of Health Services and Outcomes Research, focused on surgery within the Department of Surgery's Surgical Outcomes and Quality Improvement Center (SOQIC) and the Institute for Public Health and Medicine's Center for Healthcare Studies (IPHAM).



Tadaki Tomita, MD was appointed as Assistant Professor of Surgery in the Division of Vascular Surgery as of August 2015. Dr. Tomita received his Doctor of Medicine from the Feinberg School of Medicine in 2008 and completed his residency in General Surgery at the Lahey Clinic in Burlington, MA in 2013. He completed his 2-year Vascular Surgery fellowship here at Northwestern in 2015. He has a keen interest in advanced endovascular techniques for aortic aneurysm repair, carotid surgery for stroke prevention, and minimally invasive endoluminal options for lower extremity limb preservation. Dr. Tomita is actively involved in several clinical vascular surgery projects and will continue his research in these areas upon joining the full-time faculty. Dr. Tomita will be spending the majority of his time at Northwestern Lake Forest Hospital and the Glen outpatient location.



James Frydman, MD was appointed as a Health System Clinician in the Division of GI and Oncologic Surgery as of August 2015. Dr. Frydman received his Doctor of Medicine from the University of Illinois at Chicago College of Medicine in 2001. He then completed his general surgery residency at the University of Wisconsin-Madison in 2006. Prior to joining Northwestern, Dr. Frydman was an Attending Surgeon and Clinical Instructor at the Rambam Health Campus in Haifa, Israel. Dr. Frydman joins the Department of Surgery practice at Northwestern Lake Forest.

Faculty Promotions



Nora Hansen, MD was promoted to Professor of Surgery in the Division of Breast Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Hansen joined the full-time faculty in 2005 as an Associate Professor of Surgery.



Kathleen Grady, PhD was promoted to Professor of Surgery in the Division of Cardiac Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Grady joined the full-time faculty in 2004 as an Associate Professor of Surgery.



Dina Elaraj, MD was promoted to Associate Professor of Surgery in the Division of GI and Oncologic Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Elaraj joined the full-time faculty in 2007 as an Assistant Professor of Surgery.



John Kim, MD was promoted to Professor of Surgery in the Division of Plastic Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Kim joined the full-time faculty in 2004 as an Assistant Professor. He was promoted to Associate Professor of Surgery in 2011.



Karl Bilimoria, MD, MS was promoted to Associate Professor of Surgery in the Division of GI and Oncologic Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. He was also awarded tenure. Dr. Bilimoria joined the full-time faculty in 2011 as an Assistant Professor.



Jeffrey Wayne, MD was promoted to Professor of Surgery in the Division of GI and Oncologic Surgery of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Wayne joined the full-time faculty in 2001 as an Assistant Professor of Surgery. He was promoted to Associate Professor of Surgery in 2009.



Zheng (Jenny) Zhang, MD was promoted to Research Professor in the Division of Organ Transplantation of the full-time faculty of Feinberg School of Medicine at Northwestern University. Dr. Zhang joined the Research Faculty of Northwestern as a Research Assistant Professor in 1999. She was promoted to Research Associate Professor in 2006.

2015 Edelstone-Bendix Resident's Day

The 2015 Edelstone-Bendix Residents' Research Day was held on Friday, June 12th, 2015. This annual event featured presentations by residents and fellows, showcasing their outstanding work in both clinical and basic science research. The visiting professor this year was Allan Kirk, M.D., Ph.D., FACS, Professor and Chair of the Department of Surgery at Duke University. Dr. Kirk also served as a guest judge for the chief resident research presentations. Edelstone-Bendix Day concluded with the graduation dinner and awards ceremony which was held at the Ritz Carlton hotel, where members of the Department's faculty, fellows and residents gathered to honor our graduates.

A number of awards were presented to fellows and residents for outstanding performance. The 2015 Alan B. Kanavel Surgical Scholar Award is awarded for exceptional accomplishments achieved in the research laboratory. This year's awardees were Mark Knab, M.D., and Ezra Teitelbaum, M.D., who were given the opportunity to present their research and who were also awarded a monetary prize.

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

Fellow Open Competition:	Jilma Patrick, MD
Resident Basic Science Research Competition:	Courtney Morgan, MD
Resident Clinical Research Competition:	Ravi Rajaram, MD

The chief resident presentation award, which is based on the graduating general surgery residents' Edelstone-Bendix Residents' Day presentations, was awarded to Kyle Zanocco, M.D. Kyle was also awarded a monetary prize for his winning presentation.

We congratulate the following **2015 Department of Surgery graduates** who were recognized at Edelstone-Bendix Day:

Breast Surgery:	Deborah Farr, MD & Jilma Patrick, MD
Pediatric Surgery:	Timothy Lautz, MD
Pediatric Surgical Critical Care:	Lynn Model, MD
Transplant Surgery:	Attasit Chochechanachaisakul, MD & Sujit Sakpal, MD
Trauma/Critical Care Surgery:	Raelene Kennedy, MD; Nicole Siparsky, MD
Vascular Surgery:	George Havelka, MD; Tadaki Tomita, MD

The graduating General Surgery Residents are pictured below with Dr. Nathaniel J. Soper, Department Chair, and Dr. Shari Meyerson, Program Director



From left to right:

Nathaniel Soper, MD
 Brian Keyashian, MD
 Bill Luo, MD
 Daniel McCarthy, MD
 Karen Sherman, MD
 Kyle Zanocco, MD
 Shari Meyerson, MD

2015 Edelstone-Bendix Resident's Day continued

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

The following individuals were recipients of the **2015**

Resident as Teacher Award

Frances Tangherlini, MD	PGY-1	General Surgery
Kristine Corkum, MD	PGY-2	General Surgery
Michael Nooromid, MD	PGY-2	Vascular Surgery
Elbert Vaca, MD	PGY-2	Plastic Surgery
Stephen Chiu, MD	PGY-3	General Surgery
Mark Knab, MD	PGY-4	General Surgery
Jill Streams, MD	PGY-4	General Surgery
Michael Gart, MD	PGY-4	Plastic Surgery
Brian Keyashian, MD	PGY-5	General Surgery
Dan McCarthy, MD	PGY-5	General Surgery

The following individuals were recipients of the **2015**

Fellow as Teacher Award

Cesar Escareno, MD	Transplant Surgery
Thomas Gallagher, MD	Transplant Surgery
Attasit Chokechanachaisakul, MD	Transplant Surgery
Dustin Yoon, MD	Vascular Surgery
Emily Cassidy, MD	Thoracic Surgery
Raelene Kennedy, MD	Surgical Critical Care
Nicole Siparsky, MD	Surgical Critical Care

The two **2014-2015 General Surgery Administrative Chief Residents** were



presented with an award for their leadership and commitment to the general surgery residents.

Karen Sherman and Daniel McCarthy received engraved crystal awards in recognition of their hard work and dedication.

The **Harold L. Method Award** is presented to the general surgery chief resident who exhibits “outstanding performance for surgical skill, empathy, and understanding towards patients, and for dedication to their care.” The recipient of this honor is also awarded a monetary prize and will have their

name engraved on a plaque with all previous winners, which is displayed in the Department of Surgery administrative suite. This year the recipient of the Method Award was Daniel McCarthy, MD



Please help us welcome to the new residents and fellows of the Department of Surgery:

Julie Dunderdale & Patience Odele
Breast Surgery

Jota Nakano
Cardiac Surgery

Leah Tatebe & Ragavan Narayanan
Critical Care

Courtney Harris, William Phillips, Cary Schlick,
Kelly Williamson & Tarik Yuce
General Surgery

Nathaniel Koo
Pediatric Surgery

Lauren Mioton & Sergey Turin
Plastic Surgery

Dayana Bermudez, Gregory Bernstein, Courtney Dey, Ferial Esseghir, Simon Moradian, Caitlin Olson, & Katherine Tribble
Preliminary Surgery

Paul Devlin & Jonathan Tomasko
Thoracic Surgery

Matthew Sanders & Joseph Kim
Transplant Surgery

Courtney Furlough
Vascular Surgery

2014 ACS Annual Conference

Department of Surgery faculty enjoyed yet another successful 2014 ACS Joint Chicago Reception in San Francisco. This year marked the 99th Annual American College of Surgeons Clinical Congress. Faculty, alumni, residents, and guests representing Northwestern Medicine, the University of Chicago, Rush University Medical Center, Loyola University Health System and UIC/Metropolitan Group Hospitals were all in attendance. We look forward to seeing everyone at the upcoming reception at the ACS Clinical Congress. Our joint reception will be Monday, October 5th, 2015, from 6pm to 8pm, in the International Ballroom South at the Hilton Chicago hotel.



From left to right: Darius Hollings, Tony Yang, David Bentrem



From left to right: Nat Soper, Michael Ujiki, Timothy Kennedy

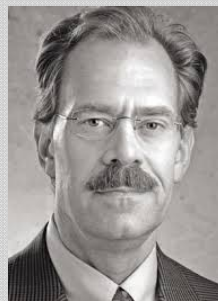
2014 -2015 Named Lectureship Visiting Professors



David Flum, MD

University of Washington

Surgical Outcomes and Quality Improvement Center (SOQIC) Lectureship: "Role of Surgeons in Building a Learning Healthcare System"



Wiley "Chip" Souba, Jr., MD

Dartmouth College

Harold Method Lectureship: "Flipping the Leadership Paradigm"



Heid Nelson, MD

Mayo Clinic College of Medicine

Mayo Lectureship: "Rectal Cancer"



Ronald V. Maier, MD, FACS

University of Washington

Loyal Davis Lectureship: "A Century of Resuscitation for Trauma"



Ali F. AbuRahma, MD

West Virginia University

Bergan Lectureship: "Improvement of carotid endarterectomy outcomes: My experience over three decades and Level I evidence"



Shaf Keshavjee, MD

University of Toronto

Shields Lectureship: "Ex Vivo Lung Perfusion: Impact on Lung Transplant, Cancer and Lung Regeneration"

Spotlight on NM Department of Surgery

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

82 Full-Time Clinical Faculty • 35 Contributed Service Faculty • 15 Research Faculty
60 Residents • 20 Fellows

CLINICAL ACTIVITY

	OR Cases	Clinic Visits	Work RVU’s
Breast Surgery	892	6,094	23,047
Cardiac Surgery	1,064	1,222	58,559
Thoracic Surgery	663	1,559	16,645
Gastrointestinal and Oncologic Surgery	3,011	9,306	33,773
Organ Transplantation	921	4,766	53,538
Plastic Surgery	1,506	3,526	45,912
Trauma and Critical Care Surgery	811	397	47,919
Vascular Surgery	961	3,202	34,839

\$18,306,314 Total Grant Funding • **\$6,359,394** Federal Funding
70 Active Grants • **32** Active Clinical Trials
16,267 square feet of research space

RESEARCH

EDUCATION

RESIDENTS	
General Surgery	33
Plastic Surgery	14
Cardiothoracic	3
Vascular Surgery	3
Preliminary	7
Total Residents	60

FELLOWS	
Breast Surgery	2
Trauma & Critical Care Surgery	2
Thoracic Surgery	4
Transplant Surgery	5
Vascular Surgery	4
Cardiac Surgery	1
Pediatric Surgery	2
Total Fellows	20

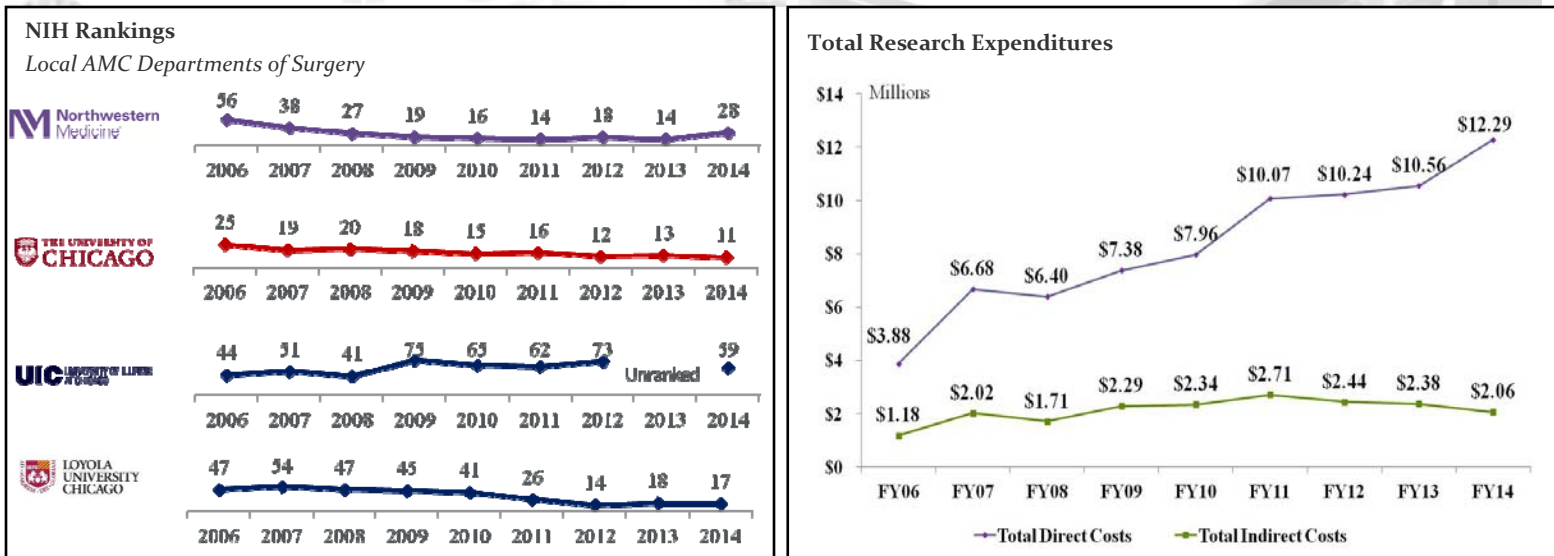
Department Research Updates

The Department of Surgery had another very productive research year in 2015. From September 2014 through June 2015 we submitted 90 proposals with an estimated value of over \$80M, up almost 18% from last year. Amongst the proposals submitted, 42 were federal, with an estimated value of almost \$71M.

In terms of awards, 67 projects have been awarded from September 2014 through June 2015 with a total value of over \$10.6M. Of the projects awarded, 27 of them are federal with a total award amount of \$4.8M. This is a 20% increase in federal (including the Army) award dollars from where we were this time in FY14. Of the \$10.6M awarded, we received over \$5.9M in new awards.

We continue to perform well from an NIH rankings perspective. However, we were unfortunately under represented due to the fact that the rankings do not include DOD or AHRQ funding. With the addition of our new faculty members and the current proposals submitted, we fully expect this ranking to increase next year.

Additionally, our overall productivity has definitely surpassed prior years as measured by our research expenditures.



New Faculty

The newest research faculty members in the Department of Surgery have had a busy and productive year as well. Dr. Ankit Bharat received a perfect score on his NIH Ko8 proposal, which started August 1, 2015. Dr. Bharat also received an award from the American Lung Association this year. Dr. Catherine Hunter just received funding for her NIH Ko8 proposal from the NIDDK. Dr. Steven Schwulst received funding for his NIH Ko8 award from the National Institute of General Medical Sciences; his project started September 20, 2015. Dr. Karen Ho has focused her research on how the gut microbiome impacts the vasculature. She received a nearly perfect impact score on her NIH Ko8 proposal and is awaiting funding.

Significant Awards

- Michael Abecassis – received an NIH P01 - \$8.2M direct costs
- Karl Bilimoria – received \$4.4 M realized revenue from BCBS/OSQIC
- Seema Khan – invited to serve as PI on N01 chemoprevention contract, housed in the Robert H. Lurie Comprehensive Cancer Center (\$1.6M)
- Melina Kibbe – received a VA Merit award - \$650,000 direct costs

Newly Funded Projects

Breast Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Clare	Susan	Cytidine Deaminases, Somatic Mutations and Breast Cancer Etiology.	\$ 50,000	9/1/2014	8/31/2015	New	Northwestern Memorial Hospital
Khan	Seema	Cancer Prevention Agent Development Program: Early Phase Clinical Research	\$ 618,295	9/24/2014	9/23/2017	Noncompeting Continuation	National Cancer Institute
Khan	Seema	Task Order 4 Cost Reimbursable: NWU2013-02-01 A Phase I Trial of Inhaled Iloprost for the Prevention of Lung Cancer in Former Smokers	\$ 545,008	8/26/2014	8/25/2017	New	National Cancer Institute
Khan	Seema	Pre-clinical & clinical studies of breast cancer prevention with transdermal anti-progesterone agent	\$ 240,000	10/1/2014	9/30/2015	Competing Renewal	Breast Cancer Research Foundation
Khan	Seema	Pharmacokinetics and intra-mammary distribution of transdermal CDB-4124 vs. oral CDB-4124: a randomized window trial in women undergoing mastectomy	\$ 832,269	8/26/2014	2/25/2017	Noncompeting Continuation	National Cancer Institute
Khan	Seema	Preclinical and clinical studies of breast cancer prevention with transdermal anti-progesterone agents	\$ 240,000	10/1/2014	9/30/2015	Competing Renewal	Breast Cancer Research Foundation
Wang	Jun	Role of HMGC52-Medicated Ketogenesis in Breast Epithelial-Stromal Interaction	\$ 50,000	9/1/2014	8/31/2015	New	Northwestern Memorial Hospital

CTU

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Abicht	Travis	HW-006: A Prospective, Single Arm, Multi-Center Clinical Study in Collaboration with the InterAgency Registry for Mechanically Assisted Circulatory Support (INTERMACS®) to Evaluate the Thoracotomy Implant Technique of the HeartWare HVAD® System in Patients with Advanced Heart Failure.	\$ 37,650	1/6/2015	1/6/2018	New	HeartWare, Inc.
Eskandari	Mark	(CREST-2) Trial: Carotid Revascularization and Medical Management for Asymptomatic Carotid Stenosis Trial	\$ 125,000	3/15/2014	2/29/2016	New	Mayo Clinic Jacksonville
Ho	Karen	Prot #AG CLI-0206: A Phase 3 Double-Blind, Randomized, Placebo-Controlled Study to Evaluate the Safety and Efficacy of AMG0001 in Subjects with Critical Limb Ischemia	\$ 470,595	4/10/2015	4/10/2018	New	Quintiles, Inc.
Hoel	Andrew	Vascular Physician Offer and Report (VAPOR) Trial	\$ 6,875	12/23/2014	12/23/2017	New	Mary Hitchcock Memorial Hospital
Grady	Kathleen	REVIVE-IT Randomized Evaluation of VAD InterVention Before Inotropic Therapy	\$ 127,485	1/15/2011	1/14/2016	Noncompeting Continuation	University of Michigan
Kibbe	Melina	Prot #PLX-PAD 1204-01: A Phase II, Randomized, Double-Blind, Multicenter, Multinational, Placebo-Controlled, Parallel-Groups Study to Evaluate the Safety and Efficacy of Intramuscular Injections of Allogeneic PLX-PAD Cells for the Treatment of Subjects with Intermittent Claudication (IC)	\$ 205,925	5/11/2015	5/11/2018	New	Pluristem Ltd.

Surgical Education

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Fryer	Jonathan	Multicenter study of operative autonomy in general surgery residents using SIMPL, the modified Procedural Autonomy and Supervision System (PASS)	\$ 80,000	2/1/2015	12/31/2016	New	American Board of Surgery, Inc.

GI/Endo

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Halverson	Amy	The National Implementation of Team STEPPS	\$ 12,000	11/1/2014	9/14/2016	New	Health Research and Educational Trust
Hungness	Eric	Multidisciplinary Curriculum for Laparoscopic Common Bile Duct Exploration: Evaluation of a Simulation-Based Mastery Learning Curriculum for Laparoscopic Common Bile Duct Exploration	\$ 49,782	8/1/2014	8/31/2015	Noncompeting Continuation	Northwestern Memorial Foundation

Newly Funded Projects

Surgical Oncology

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Bilimoria	Karl	Flexibility in Duty Requirement for Surgical Trainees - The "FIRST" Trial	\$ 318,648	12/1/2013	11/30/2015	New	American College of Surgeons
Bilimoria	Karl	Flexibility in Duty Requirement for Surgical Trainees - The "FIRST" Trial	\$ 69,514	12/1/2013	11/30/2015	New	American Board of Surgery, Inc.
Bilimoria	Karl	F32 for Michael Wandling in Support of: The Impact of Public Reporting on Clinical Outcomes and Quality Improvement	\$ 59,540	1/1/2015	12/31/2017	New	National Institute of General Medical Sciences
Bilimoria	Karl	F32 for Michael Wandling in Support of: The Impact of Public Reporting on Clinical Outcomes and Quality Improvement	\$ 840	1/1/2015	12/31/2017	Noncompeting Continuation	National Institute of General Medical Sciences

Plastic Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Dumanian	Gregory	Application of Targeted Reinnervation for People with Transradial Amputation	\$ 8,609	11/1/2014	6/30/2015	New	Rehabilitation Institute of Chicago
Galiano	Robert	017-101-09-034: Clinical Outcomes Associated with Enzymatic Debridement of Diabetic Foot Ulcers for up to 12 Weeks with Clostridial Collagenase (Santyl) Ointment	\$ 160,574	5/9/2014	5/8/2017	New	Smith & Nephew, Inc.
Galiano	Robert	Prot #RXI-109-1402: An Open-Label, Multi-Center, Prospective, Within-Subject Controlled, Phase 2a Study to Evaluate the Effectiveness and Safety of RXI 109 on the Outcome of Scar Revision Surgery for Hypertrophic Scars in Healthy Adults	\$ 136,754	12/11/2014	12/11/2017	New	RXi Pharmaceuticals Corporation
Galiano	Robert	Development of Novel Anti-Biofilm Compounds for Treating Chronic Wounds	\$ 245,114	1/5/2015	11/30/2016	New	Agile Sciences, Inc.
Galiano	Robert	Prot #SEM200-008: A Feasibility Study to Evaluate the SEM Scanner 200 as an Adjunct to Skin Assessment for the Determination of Stage 1 Pressure Ulcers and Suspected Deep Tissue Injury	\$ 112,500	5/4/2015	5/4/2018	New	Bruin Biometrics, LLC
Galiano	Robert	In-vivo functional muscle regeneration utilizing an implantable modular bioreactor	\$ 216,482	1/1/2014	12/31/2015	Noncompeting Continuation	Wake Forest University Health Sciences
Hong	Seok Jong	MiRagen Fellowship Funding 2014	\$ 20,000	11/15/2014	11/14/2016	New	miRagen Therapeutics, Inc.
Hong	Seok Jong	Evaluation of promiR-29 treatment regimen to prevent hypertrophic scarring	\$ 45,191	10/15/2014	10/15/2017	New	miRagen Therapeutics, Inc.

Trauma Critical Care

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Schwulst	Steven	The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome	\$ 10,000	5/1/2015	4/30/2016	New	Central Surgical Association Foundation
Schwulst	Steven	The role of innate immunity in traumatic brain injury-induced immune suppression.	\$ 40,000	7/1/2015	6/30/2017	New	American College of Surgeons
Schwulst	Steven	The role of innate immunity in traumatic brain injury-induced immune suppression	\$ 30,000	7/1/2014	6/30/2016	Noncompeting Continuation	Shock Society

Pediatric Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Barsness	Katherine	Pediatric Surgery Fellows' Course in Advanced MIS	\$ 5,000	9/12/2014	12/31/2014	New	Stryker Corporation
Barsness	Katherine	Pediatric Surgery Fellows' Course in Advanced MIS	\$ 5,000	9/12/2014	12/31/2014	New	JustRight Surgical, LLC
Hunter	Catherine	Year 2014 Claude Organ, MD, FACS Traveling Fellowship	\$ 5,000	8/1/2014	7/31/2015	New	American College of Surgeons
Hunter	Catherine	Defining the Role of Tight Junctions, Protein Kinase A, and Apoptosis in NEC	\$ 90,000	7/1/2014	6/30/2017	Noncompeting Continuation	American Gastroenterological Association Institute

Newly Funded Projects

Thoracic

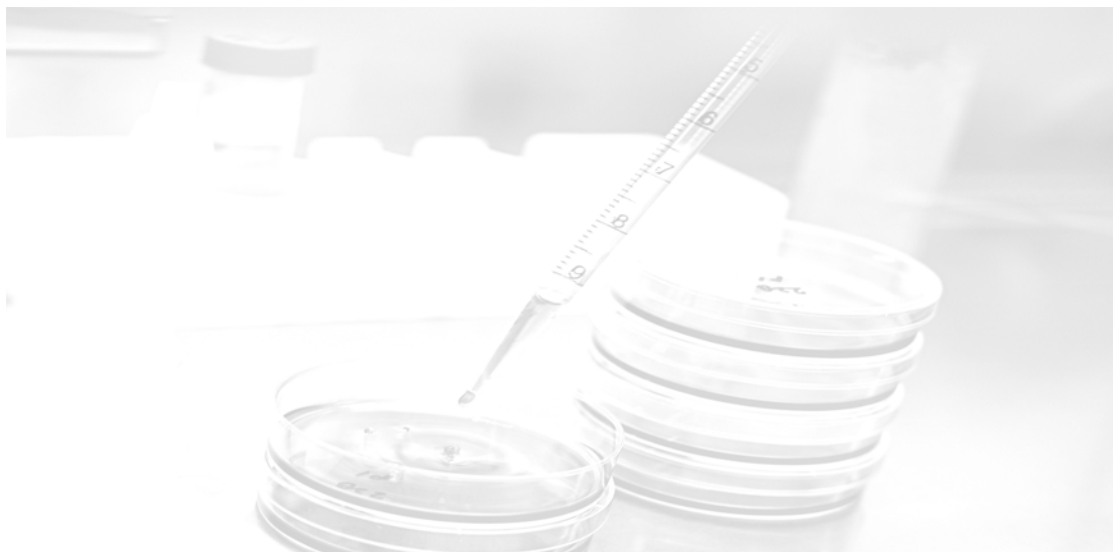
Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Bharat	Ankit	Pre-transplant autoimmunity and lung allograft dysfunction	\$ 50,000	7/1/2014	6/30/2015	New	Gift of Hope Organ & Tissue Donor Network
Bharat	Ankit	John H. Gibbon Jr. Research Scholarship award (2014-2016)	\$ 80,000	7/1/2014	6/30/2016	Noncompeting Continuation	American Association for Thoracic Surgery

Transplant

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Abecassis	Michael	Proteogenomic Monitoring and Assessment of Kidney Transplant Recipients	\$ 867,564	10/8/2014	10/8/2017	New	Transplant Genomics, Inc.
Abecassis	Michael	Mechanisms of MCMV reactivation in immunodeficient transplant recipients	\$ 442,961	7/1/2014	6/30/2018	Noncompeting Continuation	National Institute of Allergy and Infectious Diseases
Leventhal	Joseph	Induction of Donor Specific Tolerance in Recipients of Living Kidney Allografts by Donor Stem Cell Infusion	\$ 2,003,512	7/1/2014	7/1/2017	New	Regenerex LLC
Wertheim	Jason	Optimization and control of hepatocyte activity via biofunctional modification	\$ 151,311	5/1/2014	3/31/2019	Noncompeting Continuation	National Institute of Diabetes, Digestive and Kidney Diseases
Wertheim	Jason	Targetable nanoparticles to Control Inflammation	\$ 100,000	5/1/2015	4/30/2016	New	NU International Institute for Nanotechnology
Zhang	Zheng Jenny	Role of ECP in Preventing Allograft Rejection	\$ 65,079	9/16/2014	9/16/2017	New	Transimmune AG

Vascular Surgery

Last Name	First Name	Proposal Title	Award Amount	Project Award Start Date	Project Award End Date	Award Type	Sponsor
Eskandari	Mark	Vascular Surgery Fellowship 2015-2016	\$ 41,582	7/1/2015	6/30/2016	New	Abbott Fund
Eskandari	Mark	Vascular Surgery Fellowship 2015-2016	\$ 25,000	6/3/2015	12/31/2016	New	Bard
Ho	Karen	The Role of the Gut Microbiome in Neointimal Hyperplasia After Arterial Injury	\$ 25,000	1/1/2015	12/31/2015	New	Northwestern Memorial Hospital
Kibbe	Melina	IPA Agreement for Qun Jiang	\$ 47,520	12/1/2014	9/30/2015	Competing Renewal	Jesse Brown VA Medical Center
Kibbe	Melina	IPA Agreement for Vera Shively	\$ 50,125	12/1/2014	9/30/2015	Competing Renewal	Jesse Brown VA Medical Center
Kibbe	Melina	IPA Agreement for Janet Martinez	\$ 14,985	12/1/2014	9/30/2015	Competing Renewal	Jesse Brown VA Medical Center
Kibbe	Melina	Fellowship in Support of Molly Wasserman entitled, "Synthetically Engineered Targeted Gold Nanoparticles for the Prevention of Restenosis Following Vascular Interventions"	\$ 2,500	4/1/2015	3/31/2016	New	American Medical Association Foundation
Pearce	William	Vascular Surgery Scientist Training Program	\$ 282,951	5/1/2014	6/30/2019	Noncompeting Continuation	National Heart, Lung, and Blood Institute



Surgical Education Updates

Medical Student Programs

The FSM class of 2015 included four students who matched into general surgery programs at the following schools: Yale, NYU, and North Shore-LIJ Health System. An additional thirty-six students from the class of 2015 matched into surgical subspecialties.

Congratulations to Anna Huang, the 2014 Julius Conn Award recipient. The Julius Conn Award is given annually to the highest achieving surgery clerkship student based upon academic performance and professionalism.

The third year surgery clerkship has been functioning in the 8-week format for a year and we are proud to share that the medical students have adjusted and continue to succeed. National scores have risen in the 8 week format. The new format continues with our interdepartmental model involving joint participation from the Departments of Surgery, Orthopedics and Urology. In addition to our popular skills sessions such as drain care and venipuncture, an immersive OR simulation created by Nurse Educator Liz Even has been added to the curriculum. This session allows student to run through a simulated OR case with surgical staff and faculty followed by feedback and debriefing. The OR simulation has been a highly rated experience among our many skills instruction simulations, it was presented at the “Thinking Outside the Box” lunch at the ASE Conference in April 2015. The new small group seminar format, introduced last year and devised by Dr. Halverson, emphasizes themes common to all surgery—such as bleeding & thrombosis—and provides an opportunity for students to learn in an active format and to instruct their peers. Dr. Amy Halverson will be stepping up to the Clerkship Director position in September 2015. Dr. Corcoran will be starting a position as a Feinberg College Mentor in September 2015. Dr. David Odell will be starting as the new associate clerkship director.

Our Surgical Sub-Internship continues to grow in popularity among students. The sub-I is led by Dr. Nabil Issa and assisted by Lindsey Thome as the Nurse Educator. Unique aspects of this clerkship include mock pages simulating emergent scenarios and verification of clinical proficiencies in typical tasks assigned to PGY-1 residents. The students continue to participate in skills sessions covering chest tube insertion, femoral line insertion and the FAST exam. An ATLS simulation skill session was also introduced this year. Our fourth-year student program expanded to align with the Feinberg Phase 3 Curriculum with the addition of a Capstone experience for students who have matched into a surgical specialty. The surgery capstone occurred in May and it was a department wide effort, we are grateful for the assistance of all the faculty and residents who took the time to teach and assess the medical students. The capstone was well received and we are looking forward to improving the program next year.

Resident Programs*

Dr. Fryer received an American Board of Surgery sponsored grant to study the use of SIMPL, System for Improving and Measuring Procedural Learning, a smart-phone based resident evaluation system, at general surgery programs across the country during the 2015-2016 academic year. SIMPL is the next generation resident evaluation app derived from PASS, a system developed at NU. Like PASS, SIMPL utilizes the four-level Zwisch scale to assess the level of autonomy achieved by a resident in performing a surgical procedure. The ambitious study will gather data on residents' progression to

independent operative competence.

Institutions participating in the study in addition to Northwestern include

Brigham and Women's Hospital, Indiana University, Massachusetts General Hospital, State University of New York Upstate Medical University, University of Kentucky, University of Minnesota, University of New Mexico, University of Texas Southwestern Medical Center, University of Washington, University of Wisconsin, Vanderbilt University, and Washington University.



*Additional residency and fellowship educational updates are described in the corresponding division sections.

Surgical Education Updates

Faculty 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 2014-2015 Excellence in Teaching award winners are:

Kevin Bethke*	Felicitas Koller	Karen Ho
Rashmi Kabre	Jeffrey Fronza	Nathaniel Soper*
Julia Corcoran	Michael McGee	Catherine Hunter
Nabil Issa*	Jonathan Fryer*	Cord Sturgeon*
Dina Elaraj	Shari Meyerson*	Mark Toyama*
Melina Kibbe*	Amy Halverson*	Jeffrey Wayne*
Mark Eskandari	Michael Shapiro*	

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

Leadership Transitions



It is with mixed emotion that we announce the resignation of Dr. Julia Corcoran in the role of Clerkship Director for the Department of Surgery effective September 1, 2015. In recognition of her many contributions to medical education at the Feinberg School of Medicine, Julia has been selected as a College Mentor for

the entering Class of 2019. As head of the Corcoran College in the Thompson Society, she will be responsible for developing a social and academic community for one fourth of the class throughout their four-year medical school experience. Julia has served as the Clerkship Director since 2008 and prior to that was the Associate Clerkship Director for five years. Some of her many accomplishments include playing a key role in the recent curriculum renewal process, dramatically re-envisioning the 3rd year clerkship experience for FSM students, as well as editing and producing the Objective Structured Clinical Examination (OSCE) for the third-year surgery clerkship. We are thankful for her many years of service to the 3rd surgery clerkship and pleased that she will remain a medical education leader at Northwestern.



Dr. Amy Halverson will takeover the role of Clerkship Director. Under the leadership of Dr. Halverson, we will continue to distinguish our 3rd year clerkship as one of the most innovative and sound surgery clerkships in the country. Prior to her role as Clerkship Director, Dr. Halverson served as the Associate Clerkship Director since 2011. Dr. Halverson is an Associate Professor of Surgery in the Division of GI and Oncologic Surgery at Northwestern. She has been with the Department of Surgery since 2001.



Dr. David Odell will assume the role of Associate Clerkship Director. As Associate Clerkship Director, Dr. Odell will serve as a key leader in achieving the goals of the 3rd year surgery curriculum. Dr. Odell is an Assistant Professor of Surgery in the Division of Thoracic Surgery at Northwestern. He is one of our newest faculty members, joining the department from the University of Pittsburgh Medical Center.

Division of Breast Surgery



From left to right:

Dr. Kevin Bethke

Dr. Swati Kulkarni

Dr. Seema Khan

Dr. Nora Hansen

Clinical Care

The Division of Breast Surgery again demonstrated a strong clinical performance in fiscal year 2015. Of important note within the Division was the conclusion of our recruitment efforts for the vacant breast surgeon role. On July 1, 2015, Dr. Swati Kulkarni joined Northwestern Medicine as an Associate Professor of Breast Surgery. Dr Kulkarni joined Northwestern Medicine following her time as an Associate Professor at University of Chicago Pritzker School of Medicine. Prior to that she was employed at Roswell Park Cancer Institute where she also served as the Founding Director of the Breast Cancer Risk and Prevention Program. The Division is also pleased to report the hiring of Dr. Kevin Bethke who is well known to many on campus based on his years of tenure as a contributed services physician. In addition to the clinical work that Dr. Bethke will perform for the Division, Dr. Bethke will support the health system's strategic goals by serving as the Surgical Director of Regional Breast Cancer Care. Finally, the Division worked during the fiscal year to integrate Dr. Tara Breslin of the Northwestern Medicine north market into the clinical practice of our central region. This has resulted not only in increased clinical access for the patients of the Division, but also a greater sense of teamwork amongst the growing oncology and surgery programs across the health system. Each of these significant accomplishments continues to position the Division of Breast Surgery as a leading clinical program in the years to come.

Education

Dr. Deborah E. Farr and Dr. Jilma Patrick were the graduating Lynn Sage Breast fellows during fiscal year 2015. Dr. Farr accepted a position at UT Southwestern Medical Center (Dallas, Texas) and Dr. Patrick has joined Little Company of Mary Hospital (Evergreen Park, Illinois). On July 1, 2015, Dr. Julie Dunderdale and Dr. Patience Odele joined the Division of Breast Surgery as the 2015-2016 Lynn Sage Breast Fellows. Dr. Dunderdale joins Northwestern Medicine from University of Alabama at Birmingham and Dr. Odele comes to us from the University of California at Los Angeles.

Research

Dr. Seema A. Khan, Professor of Surgery, and the Bluhm Family Professor of Cancer Research, Co-Leader Breast Cancer, has assumed leadership of the Northwestern Cancer Prevention Consortium (NCPC). This is one of five NCI-funded consortia, structured for the conduct of early phase, biomarker-based trials of cancer preventions agents. The NCPC includes 10 institutions from across the United States and two in the People's Republic of China. Through this consortium mechanism, Dr Khan received funding to initiate a new Phase II window trial of transdermal therapy using a novel preogesterone antagonist in women undergoing mastectomy. This represents the continuation of work described in a publication by Dr Khan's group demonstrating that the topical transdermal application of 4-hydroxytamoxifen gel can produce biomarker changes in DCIS lesions similar to those seen with the use of oral tamoxifen. Dr Khan is co-chair of the recently-opened ECOG-ACRIN 4112 study, which is examining the value of MRI and molecular profiling in DCIS patients. Dr. Kulkarni will chair a window trial in DCIS patients, testing the combination of Premarin with a new estrogen receptor modulator (basodoxifene). This is an investigator-initiated trial funded by Pfizer. In addition, Dr. Khan was appointed as Associate Editor of the newly-formed publication titled "npj Breast Center", by the Nature Publishing Group, which serves as an open access research journal which will help to understand, prevent, treat and cure the world's second most common cancer. The division also used fiscal year 2015 to continue relations with the The Susan G. Komen Breast Cancer Foundation.

Divisions of Cardiac and Thoracic Surgery



From left to right (back):

- Dr. Daniel Enter (*resident*)
- Dr. Jota Nakano (*fellow*)
- Dr. Stephane Leung Wai Sang (*fellow*)
- Dr. Eriberto Michel (*resident*)
- Dr. Jennifer Higgins (*fellow*)
- Dr. Michael Yamashita (*fellow*)
- Dr. Andrei Churyla (*fellow*)
- Dr. Payne Stanifer (*fellow*)
- Dr. Elizabeth Cassidy (*fellow*)
- Dr. Danielle Smith (*resident*)
- Dr. Christopher Mehta (*resident*)

From left to right (front):

- Dr. Robert Vanecko (*Thoracic*)
- Dr. Ankit Bharat (*Thoracic*)
- Dr. S. Chris Malaisrie (*Cardiac*)
- Dr. Patrick McCarthy (*Cardiac*)
- Dr. Malcolm DeCamp (*Thoracic*)
- Dr. Shari Meyerson (*Thoracic*)
- Dr. Hyde Russell (*Cardiac*)
- Dr. Travis Abicht (*Cardiac*)

Division of Cardiac Surgery

Clinical Care

The Division of Cardiac Surgery has continued to enjoy great success in 2015. We are pleased to share that Northwestern's heart and heart surgery programs were ranked #9 nationally by *U.S. News & World Report*, entering the top 10 for the first time. For the eighth straight year, the heart and heart surgery program has been ranked #1 in Chicago, Illinois.

The Bluhm Cardiovascular Institute also celebrated its 10th anniversary this year, having demonstrated a near six-fold increase in complex cardiac surgery volume and a quadrupling of all cardiac surgery volume over those years. August 2014 was our busiest month ever with over 100 operations. The Bluhm Cardiovascular Institute and Division of Cardiac Surgery also welcomed Duc Thinkh Pham, MD, from the Tufts Medical Center this summer, as he joins us as the Surgical Director of the Center for Heart Failure.

Research

The division welcomed Dr. Steven F. Bolling, Professor of Cardiac Surgery at the University of Michigan Health System, to the annual Cardiothoracic Surgery Alumni Day, which was held in June 2015. The event featured research presentations by faculty and fellows, as well as Dr. Bolling's

keynote lecture entitled *Ischemic Mitral Regurgitation 2015 : Myth and Math*.

Select ongoing research efforts by our faculty include:

- Dr. Patrick McCarthy is one of three U.S. physicians performing as PI for the TIARA-I Trial: Early Feasibility Study of the Neovasc Tiara™ Mitral Transcatheter Heart Valve. He is also PI for the TRANSFORM™ Trial: Multi-CenTer Experience with the Rapid Deployment EDWARDS INTUITY Valve System FOR Aortic Valve ReplacEMent and the 4D Magnetic Resonance Imaging (MRI) Cardiovascular Flow Imaging Protocol
- Dr. Duc Pham, (PI) is participating in A Prospective, Randomized, Controlled, Unblinded, Multi-Center Clinical Trial to Evaluate the HeartWare® Ventricular Assist Device System for Destination Therapy of Advanced Heart Failure and A Prospective, Single Arm, Multi-Center Clinical Study in Collaboration with the Inter-Agency Registry for Mechanically Assisted Circulatory Support (INTERMACS®) to Evaluate the Thoracotomy Implant Technique of the HeartWare HVAD® System in Patients

with Advanced Heart Failure

- Dr. S. Chris Malaisrie, (PI) is participating in the PARTNER II Trial: Placement of AoRtic TraNscathetER Valves Trial; Magna Mitral 23 Trial: Clinical Evaluation of the size 23 mm Carpentier-Edwards PERIMOUNT Magna Mitral Bioprosthesis, Model 7000TFX and Magna Post Approval Study: Carpentier-Edwards® Perimount Magna® Mitral Pericardial Bioprostheses Models 7000/7000TFX and Carpentier-Edwards® Perimount Magna® Mitral Ease™ Pericardial Bioprosthesis Model 7200TFX;
- Dr. Kathleen Grady (PI) received funding for SUSTAIN-IT, Sustaining Quality of Life of the Aged: Heart Transplant or Mechanical Support and TRANSIT, Pediatric Heart Transplantation: Transitioning to Adult Care.

Education

In August, it was our great pleasure to host the annual Marfan Conference at Northwestern and Lurie Children's in Chicago. In just 2 short days, 34 providers were able to see over 83 participants in clinic. Volunteers helped every step of the way. The check-in and check-out process was seamless. Clinic appointments were highly or-

Division of Cardiac Surgery continued

-ganized and efficient. Medical students, residents, and fellows were able to participate and shadow providers during this once in a lifetime educational experience. Feedback from Marfan families was phenomenal. Many thanked us for hosting the best Marfan Conference to date!

We are pleased to welcome a strong group

of incoming trainees for this academic year:

- **Integrated Cardiothoracic Surgery Residency Program:** Dr. Paul Devlin
- **Cardiothoracic Surgery Fellowship:** Dr. J. Tomasko
- **Advanced Cardiac Surgery Fellowship:** Dr. Jota Nakano

We wish great success to our graduating fellows:

- **Cardiothoracic Surgery Fellowship:** Dr. Emily Cassidy
- **Advanced Cardiac Surgery Fellowship:** Dr. Jennifer Higgins, Dr. Stephane Leung, and Dr. Michael Yamashita

Division of Thoracic Surgery

Clinical Care

The Division again demonstrated strong clinical performance and was a top practice based on the campus' Likelihood to Recommend (LTR) patient satisfaction initiatives. Of significant importance, Thoracic Surgery performed ahead-of-budget by 7.8% with respect to the FY15 wRVU targets. The division also outpaced the projected lung transplant surgery volume, having performed 17 lung transplant surgeries in FY15 and in July celebrated the 1-year survival of our first patients. We await a CMS site visit for formal Medicare approval sometime in the next 2 months.

The Division concluded its recruitment of Dr. David Odell as Assistant Professor of Surgery who joined the Department from the University of Pittsburgh. In addition to Dr. Odell's Thoracic Surgery appointment, he joined Dr. Karl Bilimoria in the Department of Surgery's, Surgical Outcomes and Quality Improvement Center, and Center for Healthcare Studies in the Institute for Public Health and Medicine (IPHAM). This dual-appointment uniquely positions the division to supplement its active clinical research output and equally supports the growth prospects for our IPHAM program.

The division used FY15 to focus on growth of thoracic surgical techniques requiring the use of robotic surgical systems and Dr. Ankit Bharat performed the campus' first ambulatory veno-venous extracorporeal membrane oxygenation (ECMO) proce-

dure—a clinical accomplishment that was the result of a true multidisciplinary care team including anesthesia, cardiology, pulmonary medicine, respiratory therapy, and the division of Thoracic Surgery.

Education

The 22nd Annual Thomas W. Shields Lecture was hosted by the Division on May 28, 2015, and featured guest lecturer Dr. Shaf Keshavjee. Dr. Keshavjee's is the James Wallace McCutcheon Chair in Surgery; Director, Toronto Lung Transplant Program; and Professor, Division of Thoracic Surgery, University of Toronto. The lecture featured the groundbreaking work conducted by him and his team regarding ex-vivo lung perfusion (EVLP) which is already enhancing the quality and number of transplantable donor lungs and has implications for improving the surgical care of lung cancer, and realizing lung regeneration.

Dr. Shari Meyerson successfully defended her Master's Thesis in Education from the University of Cincinnati on August 8, 2015 and will receive her Masters of Education this fall. These credentials marry very nicely as she continues to serve the Department as the Program Director for the General Surgery, Traditional, and Integrated Cardiothoracic surgical education programs. Dr. Meyerson received the "Excellence in Teaching Award" from the Department of Surgery and Dr. Bharat was recognized by medical students as an "Outstanding Teacher" during FY15.

Research

Dr. Bharat made national headlines as a result of his groundbreaking and swift research regarding hyperammonemia in the lung transplant recipient population. Specifically, Dr. Bharat's research focused on the bacterium ureaplasma as a lethal pathogen following lung transplantation. His research was published in Science-Translational Medicine and the recommendations were immediately applied by Northwestern and other US transplantation programs with life-saving results. Dr. Bharat also earned a perfect impact score of 10 from the National Heart, Lung, and Blood Institute (NHLBI) regarding his Ko8 award application; funding commenced in July.

Division-wide, the clinical team continues active participation in the national ProvenCare Lung Cancer Collaborative which has enrolled more than 1500 patients in an effort to reliably deliver higher quality lung cancer care. Northwestern continues to be a key participant in terms of both accrual and thought-leadership for the collaborative which is doubling its membership from 6 to 12 institutions nationally and expanding its scope to include all stages of lung cancer. Additionally, the division is participating in a novel study of partial wave spectroscopy (PWS) with the overall goal of developing a simple test for early and accurate detection of lung cancer—analogous to a Pap smear for cervical cancer.

Division of Gastrointestinal and Oncologic Surgery



From left to right:
 Dr. Michael McGee
 Dr. Cord Sturgeon
 Dr. Anthony Yang
 Dr. Nathaniel Soper
 Dr. Anne-Marie Boller
 Dr. Eric Hungness
 Dr. Scott Strong
 Dr. Karl Bilimoria
 Dr. Jeffrey Wayne
 Dr. David Bentrem
 Dr. Amy Halverson
 Dr. Dina Elaraj
 Dr. Alexander Nagle

Clinical Care

In partnership with the Department of Medicine, the **Digestive Health Center (DHC)** was developed and completed its first year as an integrated program of clinical experts from Gastroenterology, Hepatology, Lifestyle Medicine, and Surgery. Notable accomplishments in FY15 include:

- Recruitment of Dr. Stephen Hanauer (Medical Director) and Dr. Scott Strong (Surgical Director)
- Development of the Digestive Health Foundation. The Foundation is the philanthropic arm of the DHC whose goal is to support research, education, and clinical programs within the center.
- Weight Loss Surgery program re-designation as the center of excellence by American College of Surgeon's Metabolic and Bariatric Surgery Accreditation and Quality Improvement Program (MBSAQIP). This was made possible by the tireless efforts and dedication of the Weight Loss Surgery leadership team: Alex Nagle, MD, Eric Hungness, MD, Kaitlin Fiore, APN, and Joanne Prinz, RN.

The Surgical Oncology Faculty continue to play an integral role within the **Robert H. Lurie Comprehensive Cancer Center (RHLCCC)** with the implementation of various programs aimed at the goal of improving clinical programs and quality.

- Under the leadership of Drs. Karl Bilimoria and David Bentrem, the Cancer

Center Quality program was developed

- Dr. Jeff Wayne initiated a Multi-Institutional Melanoma Tumor Banking program with plans to begin collecting specimens in 2016. This will be the first multi-institutional melanoma tissue bank in the country. By collecting high-quality, fresh-frozen tissue specimens, as well as blood and other body fluids, this repository hopes to provide the means to further unlocking the molecular steps in the development of melanoma and to provide novel targets for individualized, small molecule treatment for our patients at NM and beyond.

Recruitment and Faculty News

Scott Strong, MD, FACS, FASCRS joined NM as the new Division Chief of GI and Oncologic Surgery, James R. Hines Professor of Surgery at Northwestern University Feinberg School of Medicine, and as the Surgical Director of the Digestive Health Center (in partnership with Dr. Stephen Hanauer, Medical Director of the Digestive Health Center). Dr. Strong comes to Northwestern from the Cleveland Clinic.

Jonah Stulberg MD, PhD, MPH is the latest addition to the Division as a general surgeon who also received his PhD in Health Services Research with a concentration on Large Database Analysis and Health System Design. Dr. Stulberg brings much needed clinical skills in general surgery disorders including complex abdominal wall prob-

lems to the Digestive Health Center. He also has a joint appointment with the Institute for Public Health and Medicine (IPHAM) and is also part of the Surgical Outcomes and Quality Improvement Center (SOQIC).

Education/Research

The Faculty continues to make headway in the area of research related to GI and Oncologic diseases:

- Dr. David Bentrem was named the National Co-Chair of the ACS-NSQIP HBP Collaborative of 70 centers. He also continues his translational research on the topic of pancreatic cancer as a co-investigator on an R01 grant with Dr. Munshi to investigate the "Role of Snail and Slug proteins in pancreatic cancer progression" (PI Munshi)
- Dr. Amy Halverson received a grant for the second year as the head of Northwestern's collaboration with the Agency for Healthcare Research and Quality's (AHRQ) Team Strategies and Tools to Enhance Performance and Patient Safety (STEPPS) program. This collaborative includes a total of 8 locations nationwide focused on the training an implementation of the Team STEPPS initiatives.

Faculty Honors/Awards

- Dr. Nathaniel Soper received the 2015 Andrew L. Warshaw Master Educator Award by the Surgery of the Alimentary Tract Foundation. He was also named the President-Elect of the Society for

Division of Gastrointestinal and Oncologic Surgery

Surgery of the Alimentary Tract (SSAT).

- Dr. David Bentrem was appointed as the Chief of Surgical Service at the Jesse Brown VAMC
- Dr. Jeff Wayne was appointed to several new leadership positions within Northwestern and professional societies: elected Secretary-Treasurer, Illinois Surgical Society; re-elected Recorder, Chicago Surgical Society; elected Vice Chief of Staff, NMH; Appointed Associate Director for Clinical Affairs in the RHLCCC and Medical Director for Oncology at NMG; promotion to Professor of Surgery and Dermatology

Surgical Outcomes and Quality Improvement Center (SOQIC)

The Northwestern Surgical Outcomes and Quality Improvement Center, developed in 2011 and led by Dr. Karl Bilimoria, is a collaborative health services, outcomes, patient safety, and quality improvement research enterprise. SOQIC has experienced extensive growth over the past year, adding three new faculty members, and continues to advance and excel with focus on three major initiatives.

Major Initiatives of SOQIC***Illinois Surgical Quality Improvement Collaborative (ISQIC)***

ISQIC is a collaborative partnership of 55 diverse Illinois hospitals, the Surgical Outcomes and Quality Improvement Center (SOQIC) at Northwestern, Illinois and Metropolitan Chicago Chapters of the American College of Surgeons, the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP), and Blue Cross Blue Shield of Illinois. ISQIC is the largest and most active of the ACS NSQIP collaboratives. The mission of the collaborative is to improve the safety and quality of surgical care in Illinois. Hospitals are provided with detailed data regarding their performance compared to other Illinois hospitals, along with the tools to enact meaningful improvements in surgical care. Mentors, formal quality and process improvement training, and process improvement coaches assist the hospitals as they work to examine areas of performance and implement solutions. The hospitals participate in state-wide projects, and thus ISQIC is a powerful opportunity to improve care and generate innovative research. For more information, please visit <http://www.isqic.org>.

Flexibility In duty hour Requirements for Surgical Trainees Trial – “The FIRST Trial”

With results eagerly anticipated by academic centers nationwide in February 2016, the FIRST Trial is a national prospective cluster-randomized trial of 149 hospi-

tals seeking to determine whether the current restrictions on resident duty hours may be detrimental to patient care and resident training. This study randomizes hospitals to more flexible work hour requirements vs. current rules to examine whether there are any differences in post-operative outcomes and resident wellbeing and education. The FIRST Trial is sponsored and jointly funded by the American Board of Surgery (ABS), the American College of Surgeons (ACS), and the Accreditation Council for Graduate Medical Education (ACGME). Participants for this study include 117 ACGME-approved surgical residency programs affiliated with 149 hospitals that participate in the American College of Surgeons National Surgical Quality Improvement Program (ACS NSQIP). For more information, please visit www.TheFirstTrial.org.

National Quality Measurement Policy Evaluations

SOQIC is nationally recognized for its work in evaluating national policies impacting healthcare quality. The group has been publishing its work regularly in *JAMA* with considerable national media attention.

Venous Thromboembolism (VTE): SOQIC faculty discovered that hospital VTE rates are driven by how often imaging tests are ordered looking for VTE – “the more you look, the more you find.” Thus, the measure actually makes vigilant hospitals appear to be poor performers. The results of this landmark study resulted in US News,

UHC, ACS NSQIP, and several states dropping the VTE measure from public reporting programs.

PSI-90: Centers for Medicare & Medicaid began using the Agency for Healthcare Research and Quality (AHRQ) Patient Safety for Selected Indicators (PSI-90) as a core metric in 2 of its pay-for-performance programs: the Hospital-Acquired Condition (HAC) Reduction program and the Hospital Value-Based Purchasing (VBP) program. Researchers at SOQIC have demonstrated concerns with using PSI-90 and have lobbied CMS to drop this measure from pay-for-performance programs.

Hospital-Acquired Condition Reduction Program: CMS penalizes hospitals for high rates of hospital acquired conditions, but SOQIC authors found that higher quality hospitals were the ones being penalized in the HAC program. Thus, considerable revisions are needed to ensure that hospitals are accurately penalized as fines frequently exceed \$1,000,000.

Readmissions: CMS now penalizes hospitals with high readmission rates. SOQIC authors demonstrated why readmissions commonly occur after surgery and suggested opportunities for revising the CMS Readmission Reduction Program.



Division of Organ Transplantation Surgery



From left to right:

- Dr. Anton Skaro
- Dr. Juan Carlos Caicedo
- Dr. Jason Wertheim
- Dr. Talia Baker
- Dr. Felicitas Koller
- Dr. Joseph Leventhal
- Dr. Michael Abecassis
- Dr. Jonathan Fryer
- Dr. Daniela Ladner
- Dr. Joshua Miller

Clinical

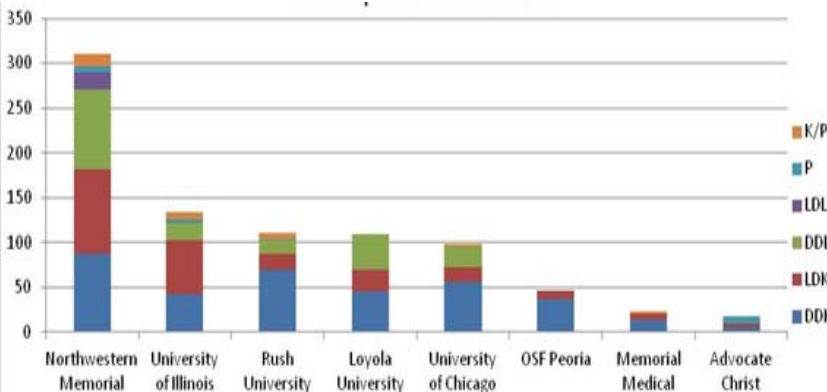
The Division of Organ Transplantation remains the Chicago market leader in abdominal organ transplantation and is among the nation's leading transplant programs. Over 35% of adult abdominal transplants in the Chicago metro area were performed at Northwestern last year, and our program is larger than the next two centers combined. Our living donor kidney program continues to be one of the largest in the United States. Our innovative clinical trials in tolerance have led to a growing number of patients seeking out our program for their transplant. Our living donor liver program is the second largest adult program in the country. When combined with the living donor liver program at Lurie Children's (the donor surgeries are performed at NMH), we are the largest US program. The complex hepatobiliary program continues to grow. The number of these procedures performed through June is nearly 20% higher than in the previous year. The vascular access program has grown over 15% this year with emphasis on new techniques and closer collaboration with referring nephrologists.

The Hispanic Transplant Program (HTP) continues to provide culturally sensitive services to Hispanic patients undergoing transplantation and reduce Hispanic disparities in kidney transplantation. Much of our focus has been on Hispanic populations in the Chicago metropolitan area, we are expanding the scope of the program to be directed more at Hispanic populations nationally and internationally. We are also at the beginning stages of creating an International Transplant Program based on the same fundamental principles of the HTP.

Research

The research enterprise at the Comprehensive Transplant Center (CTC) continues to thrive. We have submitted 36 grant proposals totaling \$39.7M thus far this fiscal year. In this same period, CTC researchers were awarded 26 grants totaling \$8.2M. New grants received this year include the following:

- Dr. Michael Abecassis' Po1 submission to the NIAID *Integrating Mechanistic Insights from Diverse Models to Prevent CMV Reactivation following Transplantation* was funded for nearly \$12 Million over 5 years. This award includes funding for 3 projects led by Dr. Abecassis, Dr. Mary Hummel and Dr. Xunrong Luo. Also included is funding for three cores: the Microsurgery and Histopathology Core (led by Dr. Jenny Zhang and Dr. Yashpal Kanwar), the Precision Cell Isolation and Analysis Core (led by Dr. Kristy Wolniak and Dr. Neil Kelleher), and an Administrative Core (led by Dr. Abecassis).
- Dr. Abecassis was also awarded an R34 Planning Grant from the NIAID, *Effectiveness, Safety and Value of Integrating Molecular Diagnostics into the Post-Transplant Management of Kidney Transplant Recipients – The Next Frontier of Biomarker Research*. This grant will be used to develop a U01 Clinical Trial Implementation grant



Division of Organ Transplantation Surgery

submission that will enable the CTC to continue its work in biomarker discovery.

- Dr. Joseph Leventhal received over \$2M from Novartis *Induction of Donor Specific Tolerance in Recipients of Living Kidney Allografts by Donor Stem Cell Infusion*.
- Dr. Anton Skaro's R21 submission, *Optimal Older Donor and Recipient Matching to Enhance Liver Transplant Outcomes*, was funded by the NIA.
- Dr. Lorenzo Gallon received \$600K from Bristol-Meyers Squibb for his PI-initiated clinical trial, *Randomized Conversion of EBV+ Kidney Transplant Recipients of Living or Standard Criteria Donors at Three Months Post Transplantation to Belatacept with MPA or Belatacept with Low-Dose Tacrolimus (50% of Dose) Compared to Patients Remaining on Center Specific Standard Therapy of Tacrolimus and MPA*.
- Dr. Daniela Ladner was awarded a PCORI Tier 1 grant, *National Patient Community, Caregiver and Advocacy Group Directed Strategies to Lead Comparative Effectiveness Research for Liver Cirrhosis*.
- Dr. Jenny Zhang received \$65K from Transimmune AG for her project, *Role of ECP in Preventing Allograft Rejection*.
- Dr. Michael Ison began multiple new clinical trials funded by Gilead to further his RSV research.
 - ◊ *Prot # GS-US-218-1227: A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Multi-Center Study Evaluating Antiviral Effects, Pharmacokinetics, Safety, and Tolerability of GS-5806 in Hospitalized Adults with Respiratory Syncytial Virus (RSV) Infection*
 - ◊ *GS-US-218-0108, "A Phase 2b, Randomized, Double-Blind, A Phase 2b, Randomized, Double-Blind, Placebo Controlled Multi-Center Study Evaluating Antiviral Effects, Pharmacokinetics, Safety, and Tolerability of GS 5806 in Hematopoietic Cell Transplant (HCT) Recipients with Respiratory Syncytial Virus (RSV) Infection of the Upper Respiratory Tract"*
 - ◊ *GS-US-218-1502, "A Phase 2b, Randomized, Double-Blind, Placebo-Controlled Multi-Center Study Evaluating Antiviral Effects, Pharmacokinetics, Safety, and Tolerability of GS-5806 in Hematopoietic Cell Transplant (HCT) Recipients with Respiratory Syncytial Virus (RSV) Infection of the Lower Respiratory Tract"*

The CTC also received funding from Transplant Genomics Inc. (TGI) to continue our work in developing peripheral blood gene expression signatures diagnostic and predictive of graft injury including rejections. As part of this initiative, the CTC clinical research team is serving in a new role as an Academic Research Organization (ARO) for a TGI-funded biomarker study at UC-Davis. In this role the team is involved with every aspect of the study from protocol development to regulatory approval to online clinical case report form creation and management. It is our intention to leverage this experience and serve in this capacity in future studies.

In addition to studies noted above we have numerous ongoing clinical trials. Of note are two clinical trials toward immune tolerance following kidney transplantation. One of these is now

entering a phase 3 multi-center study, that is industry sponsored, and that will revolutionize the way we look at anti-rejection medication in transplantation. The second has now completed a phase 1 study (safety and tolerability) and we are applying to the FDA for a phase 2 study (efficacy) that will continue to make Northwestern the 'epicenter' for research in immune tolerance. As a result of these efforts, the CTC has been asked to host a consensus conference, the first, convening a small group in the fall, that includes the NIH and industry as well as a number of international investigators.

We are continuing to build the CTC Biorepository by accelerating collection of biological samples from transplant patients and furthering our partnership with TSRI and TGI, in a collaborative effort to improve transplant outcomes using "precision medicine", which hinges on the ability to characterize individuals based on a wide range of molecular and phenotypic data—genomic, epigenomic, proteomic and other—that together convey a more accurate image of diagnosis that is personalized and multifaceted. Together with TSRI and TGI, we are committed to improving organ transplant outcomes with noninvasive serial monitoring guided by genomics by developing tests that predict organ rejection without the need for a biopsy.

The Northwestern University Transplant Outcomes Research Collaborative (NUTORC) continued to expand its trans-disciplinary health services and outcomes research portfolio in transplantation. NUTORC faculty received funding from: PCORI -Patient Centered Outcomes Research Initiative (PI-Ladner), National Institute of Aging (PIs-Skaro/Lihui), NUCATS-Northwestern University Clinical and Translational Science Institute (PI-Ladner); and published manuscripts in high impact journals: *Science Translational Medicine* (Co-Author-Ison, April 2015).

Education

Transplant Surgery Clinical Fellowship

Again this year we had successful clinical fellowship recruitment, interviewing 9 highly qualified candidates and matching with our top choices. This year's match was very competitive. Of the 77 positions available at 64 programs, 19 positions did not match, including positions at some of the country's largest programs. In July, two new fellows joined our program: Matthew Sanders, MD and Joseph Kim, MD, MSSW. Dr. Sanders completed medical school and his general surgery residency at Louisiana State University Health Sciences Center. Dr. Kim completed medical school at the University of Texas School of Medicine at San Antonio and his residency training in general surgery at Mount Sinai Hospital. He received his Masters of Science in Social Work from the University of Texas – Austin. We continue to have weekly educational conferences for our residents and fellows.

T32 Transplant Scientist Training Program (TSTP)

There are two training pathways on the TSTP: the Northwestern University Transplant Outcomes Research Collaborative (NUTORC) and the Northwestern University Collaborative in

Division of Organ Transplantation Surgery

Transplant-Related Immunology and Biomedical Engineering (NUCTRIBE).

Our three T₃₂ fellows each completed their second appointment year in the Transplant Scientist Training Program (TSTP):

- Lisa McElroy, MD, (NUTORC track) returned to the Medical College of Wisconsin to finish her surgical residency. As a T₃₂ trainee, Dr. McElroy completed her formal training in June 2014 by obtaining a Master's in Health Services and Outcomes Research (HSOR) through the Center for Healthcare Studies at Northwestern University. She also completed a course at the Kellogg School of Management focused on change management in patient safety. Dr. McElroy was also selected for participation in the NIH Training in Dissemination and Implementation Science at Harvard University. Her work, which is currently being implemented, focused on outcomes research in the area of postoperative patient hand-off assessment and developing handoff interventions to improve quality of care and the patient experience.
- John Paul Savaryn, PhD, (NUCTRIBE track) will remain at Northwestern as a post-doctoral fellow working with Dr. Abecassis and Dr. Neil Kelleher in the area of molecular mechanisms governing cytomegalovirus reactivation from latency identification. Some of Dr. Savaryn's notable accomplishments during his training program include the following: wrote Core B component of Po1 application (PI: Abecassis), which received a score of 10 as a part of an overall Po1 score tied for 1st place in its study section. (The Po1 was selected for funding effective July 1, 2015); completed the Northwestern University Searle Center for Excellence in Teaching and Learning "Teaching Certificate Program"; hired as Adjunct Instructor for the Northwestern University School of Professional Studies; promoted to Instructor for the Northwestern University School of Professional Studies; Invited Speaker, Chicago State University, Biology Department Seminar Series; presented at the 3rd ASM Conference on Viral Manipulation of Nuclear Processes, Washington DC, 2014 "Identifying and evaluating the role of host cell proteoforms during cytomegalovirus infection"; served as a reviewer for an article submitted for publication to The Protein Journal.
- Derrick McCarthy, PhD, (NUCTRIBE track) was a postdoc-

toral fellow in the laboratory of his mentor, Dr. Stephen Miller. Dr. McCarthy was supported by our Research Supplement to Promote Diversity in Health-Related Research. In January 2015, Dr. McCarthy left Northwestern University to accept a position in the lab of Dr. Emil R. Unanue at Washington University in the Department of Pathology-Immunology as a Postdoctoral Research Scholar (equivalent of Postdoctoral Fellow at NU). His current research focus is primarily on the pathogenesis of Type 1 / Juvenile Diabetes, with the bulk of his work focused on events leading to islet homeostasis and destruction. As of 1/12/2015, Dr. McCarthy is supported as a trainee on 5T₃₂CA009547-29 (Schreiber) at Washington University.

For the current year of the TSTP, we have two new postdoctoral trainees: Stephen Chiu, MD, and Kofi Atiemo, MD (MBChB):

- Stephen Chiu, MD (NUCTRIBE track), previously a PGY₃ in General Surgery here at McGaw, will focus his research on lung transplant immunobiology. Specifically he will be looking at macrophage trafficking using in vivo imaging and defining the role of different subsets of macrophages in recruiting neutrophils that lead to the early ischemia reperfusion injury and graft dysfunction. Prior to entering the training program, Dr. Chiu worked with Dr. Bharat to garner exciting preliminary data showing that a subset of donor macrophages adherent to donor endothelium lead to neutrophil recruitment through donor TLR signaling. This area is unexplored and potentially high impact in the lung transplant field.
- Kofi Atiemo, MD (MBChB), (NUTORC track) is supported by our newly awarded T₃₂ Research Supplement to Promote Diversity in Health-Related Research Program. Having completed his surgical residency in June 2015, Dr. Atiemo plans to dedicate two years between his general surgery residency and his transplant surgery fellowship to pursue postdoctoral research training here at the Northwestern University Feinberg School of Medicine. Dr. Atiemo has chosen to focus his research on the study of elderly patients with liver cirrhosis and the epidemiology as well as the effectiveness of different treatments, such as supportive medical therapy or transplantation (deceased donor, living donor or marginal organ).

CTC Summer Student Immersion Program

With almost 50 applications, the CTC Summer Student Immersion Program accepted 30 students from a diverse pool of educational backgrounds (high school students, college students, medical school and engineering students) in the Chicagoland area. This is the largest number of students in the three years that we have had this formal program. Every student who participates in the program is given a project and assigned a mentor for the summer. They must formulate a hypothesis and execute a succinct hypothesis driven project. A critical review of the literature is performed, data are collected and analyzed, and results are summarized and presented to the entire research team.

Faculty News

Dr. Joshua Miller retired effective June 30, 2015 and has been granted emeritus status by NU. Dr. Miller's contributions to the CTC's tolerance program have been invaluable. He pioneered our first tolerance studies in renal transplantation. Additionally, Dr. Miller led the establishment of an immune monitoring laboratory. The development of this laboratory has helped to support the clinical protocols with the productive development of these assays. Due to Dr. Miller's work and mentorship of other faculty, Northwestern has one of the most active clinical and investigative tolerance programs of any transplant center nationally and internationally.

Division of Plastic Surgery

From left to right:

Dr. John Kim

Dr. Gregory Dumanian

Dr. Robert Galiano

Dr. Mohammed Alghoul

Clinical Care

The Division of Plastic Surgery enjoyed great success this past year. Clinically, the Division was extremely productive and experienced year over year growth in excess of 20% with respect to work RVU's. This was achieved with focused growth and expansion of their reconstructive procedures, specifically breast and lower extremity, as well as their aesthetic practice. The addition of two state-of-the-art lasers has allowed for skin resurfacing, scar revisions, and CO₂ treatments not before offered to patients. The Division also demonstrated an exceptionally strong performance in regards to patient satisfaction this year with overall "Likelihood to Recommend" scores in the 99th percentile.

Education

The residency has continued to recruit from the best medical school candidates nationally. There were over 200 applications for the two coveted PGY-1 spots this year and the division was pleased to welcome Dr. Megan Fracol from the University of Pennsylvania and Dr. Lindsay Janes from the University of Maryland into the Plastic Surgery residency program. Our two chief residents ventured to opposite coasts following graduation. Dr. Madeleine Gust has continued her career in academic medicine and started her hand fellowship at UCLA Medical Center. Dr. Jason Souza will continue his role as Lieutenant Commander in the Navy as a plastic surgeon at Walter Reed Medical Center in Baltimore, Maryland. Current residents Dr. Michael Gart and Dr. Elbert Vaca were recognized as this year's Resident as Teacher's Award Winners.

Dr. Mohammed Alghoul was awarded the Victor Lewis Junior Resident Teaching Award and the Martin R. Sullivan Award for Outstanding Teacher.

Research

A strong component of resident education is completing research at the Stanley Manne Research Institute of Lurie Children's Hospital. Three Plastic Surgery Residents in the past 2 years have been recipients of the KLS Martin Research Grant - Dr. Michael Gart, Dr. Chad Purnell, and Dr. Walter Sweeney.

Plastic Surgery Resident Dr. Jennifer McGrath has been granted one of only three 2015 Plastic Surgery Foundation (PSF) Research Fellowship Awards given throughout the country by PSF to sponsor a one year research commitment in Plastic Surgery. Dr. McGrath's research will be conducted at the Stanley Manne Research Institute of Lurie Children's Hospital and will focus on "Validation of a novel model of Pfeiffer syndrome in zebrafish."

The research activities of our Plastic Surgery faculty continued to thrive this year. We continue to grow and expand the number of translational clinical trials conducted within the Division with 6 clinical research studies being performed by Dr. Robert Galiano's team in the areas of scarring and wound healing. He also continues to lead the plastic surgery regenerative medicine laboratory, as well as the AFIRM craniofacial repair research study sponsored by the Department of Defense.

Dr. Mohammed Alghoul is leading research on the use of occipital nerve decompression surgery to treat patients with specific migraine headaches. He also recently gained recognition for his publication "Retaining Ligaments of the Face: Review of Anatomy and Clinical Applications", which was published in the *Aesthetic Surgery Journal* and was one of their top-downloaded articles.

Drs. Kim and Dumanian are continuing to excel in surgical innovation. Dr. Kim has developed a digital depth gauge for orthopedic use, while Dr. Dumanian has introduced into the literature a novel "mesh suture" for use in internal high-tension closures such as laparotomies, hernias, and Achilles tendon repairs. As a result of their success, they were invited by the American Society of Plastic Surgery to give a course on surgical innovation.

Faculty News

Dr. Gregory Dumanian was named the Orion and Lucille Professor of Surgery. Dr. John Kim was promoted to full Professor in the Feinberg School of Medicine and named Co-Chair of the Breast Committee for the American Society for Plastic Surgeons.

Division of Trauma and Critical Care Surgery



From left to right:

Dr. Michael Shapiro
Dr. Nabil Issa
Elizabeth Beck, PA
Dr. Mamta Swaroop
Christine Schilling, RN
Dr. Steven Schwulst

Clinical Care

The Trauma/Emergency Surgery service has had a notable increase in patient volume, while performance measures show a sustained record of high-quality care with excellent outcomes. The diversity and scope of the General Surgery practice is extensive, and the service has enjoyed excellent multi-disciplinary collaborative relations within the institution. Trauma-related activity has increased substantially, most obviously in the summer and fall months, reversing a trend of the last several years. Penetrating violence represents about 25% of our patients' mechanism of injury. Northwestern Medicine's commitment to its role as a Level 1 Trauma Center remains strong. Faculty are active in regional and statewide discussion regarding Trauma care, and the need for continued oversight and policy to reduce the incidence of violent crime remains an imperative. The Surgical Critical Care service continues to provide intensive care for most surgical patients, with a special focus and great success in the reduction of infectious complications related to medical devices. The Division is currently recruiting to fill an open faculty position.

Education

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

Research

Divisional research activity has been robust, productive and diverse. There are ongoing efforts in global health, basic science, and education research, with an extensive list of publications and presentations in national and international meetings.

Dr. Steven Schwulst recently received an NIH Ko8 award from the National Institute of General Medical Sciences for his project entitled, "The role of innate immunity in the traumatic brain injury-induced immune suppression syndrome" for a total of \$762,600 for four years. His project started on September 20, 2015.

Division of Vascular Surgery

From left to right:

Dr. Andrew Hoel
 Dr. Heron Rodriguez
 Dr. William Pearce
 Dr. Mark Eskandari
 Dr. James Yao (Emeritus)
 Dr. Karen Ho
 Dr. Tad Tomita
 Dr. Melina Kibbe

Clinical Care

The 39th annual Northwestern Vascular Symposium was held in Chicago, IL, December 11-13, 2014. The symposium provided a comprehensive analysis of the current management of vascular disease as it relates to treatment of extracranial cerebrovascular and supra-aortic trunk disease, new approaches to lower extremity arterial and venous problems, recent cutting-edge developments in open and endovascular approaches to treat aortic and visceral arterial disease, novel techniques for hemodialysis access, complex venous problems, and upper extremity disorders. Fifty-two world-renowned physicians presented on their areas of expertise. One-hundred-twenty-seven registered attendees represented the United States and several other countries.

Faculty News

Dr. Melina Kibbe has been named Editor-in-Chief of JAMA Surgery. In addition, she is serving as President of Association of VA Surgeons and of Midwestern Vascular Surgical Society.

Drs. Andrew Hoel, Melina Kibbe, and Heron Rodriguez received awards for Excellence in Teaching in the Surgery Clerkship.

Dr. James Yao, Emeritus Professor of Surgery, was awarded the René Leriche Prize 2015 by the International Society of Surgery for his pioneering work with vascular laboratory techniques as well as his many contributions in the fields of peripheral vascular problems and non-invasive diagnostics techniques. This prestigious award is presented to the surgeon who has made the most significant contributions to surgery of the arteries, veins, or heart.

Research

Dr. Kimberly Zamor completed the T32 Vascular Surgery Scientist Training Program on June 30. She has returned to the DOS General Surgery Residency program at Boston Medical Center/ Boston University.

The incoming T32 trainees for July 1, 2015, are Dr. Neel Mansukhani, who will be working with Dr. Melina Kibbe, and Dr. Cori Cason, who will work with Dr. Karen Ho, both in the vascular basic science laboratory.

The Division welcomed Dr. Courtney Furlough to the Vascular Surgery residency program and Dr. Micah Girotti as our first-year fellow.

Education

Three Vascular Surgery trainees received awards from the Department of Surgery. Dr. Michael Nooromid received the Resident as Teacher Award and the Northwestern Alumni Resident-Teacher Recognition Award. Dr. Dustin Yoon received the Fellow as Teacher Award. Dr. Courtney Morgan won the 2015 Edelstone-Bendix open competition in the category of Resident Basic Science Research. In addition, Dr. Morgan received first place in the Abstract Competition, Vascular Surgery Resident, 8th Annual Introduction to Academic Surgery, USH Health Center to Advance Medical Learning and Simulation.

We congratulate our two graduating fellows, Dr. George Havelka and Dr. Tadaki Tomita, who both will be practicing in Chicago. Dr. Havelka was recruited to UIC and Dr. Tomita will be joining us in the Division of Vascular Surgery at Northwestern.

Department of Surgery—Northwestern Lake Forest Hospital



Northwestern Lake Forest Hospital is experiencing change at many levels.

First and foremost is the ongoing construction of the new hospital. The project is immense, and much has already been accomplished. Two of the planned five pavilions are rising up out of the ground on the north end of the hospital campus. A towering crane capable of hoisting up to 70,500 lbs. has been installed and is in near constant motion. Over 55,000 cubic yards of concrete has been poured. The excavation at the work site has been extensive, filling over 53,000 truckloads. There are approximately 400 workers on site.

The project, due to be completed in the fall of 2017, includes 116 acres of open space, 708 new trees, 7000 feet of walking and biking paths, and a 6 acre “pond” around which the pavilions will be arrayed.

Second, with the reorganization of NLFH into the North Region, Mr. Tom McAfee became the region’s President and Dr. Jeffrey Kopin became the region’s Chief Medical Officer. Dr. Kopin’s experience with NMPG will help the North Region as it develops its physician practices, quality programs and clinical priorities.

Two new physicians will be joining the Department of Surgery this summer:

- Dr. Tad Tomita will be joining the staff as the primary vascular surgeon at NLFH. He completed his Vascular Fellowship at Northwestern this year.
- Dr. James Frydman is joining the general surgery group at NLFH. He did his General Surgery residency in Madison, Wisconsin. He then worked in Tampa before moving and practicing in Israel for the last several years. He is originally from the north suburbs of Chicago and is looking forward to returning to this area.

In January 2015, NLFH joined the Illinois Surgical Quality Improvement Collaborative. This 55 hospital collaborative uses the National Surgical Quality Improvement Program to follow patient outcomes following surgery and develop hospital based improvement programs based on local, regional and national data. Dr. Tara Breslin is our surgeon champion for this program.

NLFH’s Oncology program recruited Hematology-Oncologists Drs. Neal Christiansen and Valerie Nelson to join the staff. A combined oncology, woman’s health and infusion center was opened in October 2014 at NLFH where surgical oncology, medical oncology and gynecologic oncology all work together. In April of 2015 Northwestern Developmental Therapeutics opened a second clinical site in Lake Forest.

NLFH Department of Surgery participated in a quality initiative to decrease colon surgery surgical site infections. A multidisciplinary team created a program of preoperative, intra-operative and postoperative measures to be implemented for all patients having colon-rectal surgery. The program met its goals and over one year recorded only one colon surgery SSI. The group has now turned its attention to other surgical site infections, hoping the success will carry over to other areas.

Thanks to a very generous donation from the Grainger family, NLFH has a new surgical robot, the daVinci Xi. This is the latest and most advanced robot made by Intuitive Surgical and replaces our older version. The Xi has capabilities that widen the clinical applications of the robot, opening up the robot to other specialties such as colon-rectal surgery and general surgery.

Department of Surgery—Ann & Robert H. Lurie Children’s Hospital of Chicago

New Faculty

Fizan Abdullah, MD, PhD, has been appointed Division Head of Pediatric Surgery at Ann & Robert H. Lurie Children’s Hospital of Chicago and Professor of Pediatric Surgery at Northwestern University Feinberg School of Medicine, effective August 1, 2015. Dr. Abdullah joins us from Johns Hopkins University School of Medicine where he was Associate Professor of Surgery & International Health, Program Director of the Fellowship in Pediatric Surgery, and Assistant Program Director of the Residency in General Surgery. He also served as Associate Professor of International Health at the Johns Hopkins Bloomberg School of Public Health. Dr. Abdullah’s appointment is the culmination of an extensive national search completed in early 2015. Dr. Abdullah succeeds Marleta Reynolds, MD, as division head; Dr. Reynolds will continue to serve in her role as Surgeon-in-Chief.



Julia Grabowski, MD, joined the Division of Pediatric Surgery as Attending Physician in February 2015. Dr. Grabowski comes to us from Rady Children’s Hospital - San Diego, where she was Attending Physician, and the University of California, San Diego, where she was Assistant Professor of Surgery.

Dr. Grabowski attended medical school at Northwestern University Feinberg School of Medicine. She completed her residency and a research fellowship at the University of California, San Diego, and a fellowship in Pediatric Surgery at Children’s Hospital of Pittsburgh.

Dr. Grabowski’s special interests include neonatal and congenital diseases; tumors and developmental anomalies of the neck, chest, abdomen and pelvis; trauma care and surgery, pediatric surgery for hernias, gastroesophageal reflux, adolescent breast disease, Hirschprung’s disease and anorectal malformation; prenatal counseling; and outcomes research.

Division Updates

In May 2015, the Departments of Anesthesia and Surgery hosted a site visit by surveyors from the American College of Surgeons (ACS) Children’s Surgery Verification Pilot as the final step in the hospital’s application for Level 1 Care designation. The hospital was one of six chosen to participate in the pilot.

Amanda Saratsis, MD, of Neurosurgery received a 2015 Dixon Translational Research Grant Young Investigator Award from Northwestern Memorial Foundation and the Northwestern Uni-

versity Clinical and Translational Science Institute for her project entitled *Tenascin-C as a Therapeutic Target in Pediatric Brainstem Glioma*. The Dixon Translational Research Grants are awarded to Northwestern University investigators for highly innovative, multidisciplinary clinical and translational research collaborations that accelerate the identification and implementation of new treatments to improve human health.

Cynthia LaBella, MD, of Orthopaedics, Medical Director of the Institute for Sports Medicine, has been elected Chair of the Executive Committee of the American Academy of Pediatrics (AAP) Council on Sports Medicine and Fitness, beginning July 2015. The Division of Ophthalmology, led by Division Head Marilyn Mets, MD, matched for two fellowships for academic year 2015-2016.

The Division of Otolaryngology was rated in the top 10% of all training programs at Northwestern University by the Graduate Medical Education leadership of McGaw Medical Center in April 2015. James Schroeder, Jr., MD, is the Director of Medical Education for the Division of Pediatric Otolaryngology and Program Director for the Pediatric Otolaryngology Fellowship program at Feinberg School of Medicine.

Elizabeth Yerkes, MD, of Urology received a commendation from the Accreditation Council for Graduate Medical Education and the American Board of Medical Specialties in December 2014 for her work on establishing measurable outcomes for Graduate Medical Education.



Photo courtesy of Ann & Robert H. Lurie Children’s Hospital of Chicago

Department of Surgery—Jesse Brown VA Medical Center

Jesse Brown VA Medical Center (JBVAMC) is the only VA healthcare facility in the city of Chicago and includes a 170-bed inpatient facility on Chicago's Westside adjacent to Stroger Hospital and University of Illinois at Chicago campus. JBVAMC accommodates more than 8,000 inpatient admissions annually. JBVAMC also includes five outpatient facilities scattered about Chicago and northwest Indiana that accommodates more than 600,000 outpatient visits annually. The "VA" is affiliated with both Northwestern University Feinberg School of Medicine and the University of Illinois at Chicago College of Medicine.



Surgical Service encompasses ten Surgical Sections (General including Bariatrics and Critical Care, Orthopaedics, Optometry, Ophthalmology, Otolaryngology, Plastics, Podiatry, Thoracic, Urology, and Vascular), 53 providers (including 14 full-time faculty), and 8 allied health personnel. Approximately 200 residents spend time at the VA in a given year and approximately 35 are present at any one time. These staff care for ~21,000 veterans annually and perform ~3,200 operations annually in the Operating Room theatre at JBVAMC.

Leadership

Dr. Jay Prystowsky transitioned out of the VA system and his role as Chief of Surgical Services at JBVAMC. We wish Dr. Prystowsky great success in his future endeavors.



Dr. David Bentrem, Associate Professor of Surgery at Northwestern University's Feinberg School of Medicine, was appointed as the Chief of Surgical Services at JBVAMC.

Process Improvement

We recently had a Facility Retreat which highlighted several surgical initiatives. We implemented Lean process improvement programs for Inpatient flow and Surgical Patient Flow. We have expanded the Hospitalist Program to maximize conti-

nunity of care for inpatients as well as resident teaching and supervision. The inpatient length of stay for medical patients is now below national averages for similar sized VA medical centers. Our first start project was led by Dr. Joe Vitello and focused on getting patients into the operating room at the scheduled time for the first case of the day. We saw dramatic improvement over time with over 90% of first cases starting on time at the end of the project.

Clinical Care

Robotic Program was started in 2013 by Dr. Josh Meeks and is used mainly for Urologic procedures.

Over 100 robotic cases have been

performed in the first two years with improved patient perioperative outcomes. We are also in the process of developing a Cochlear Implant Center in the section of ENT given our institution experience in this area. JBVAMC will begin lung cancer screening for select patients in January 2016. We anticipate this will increase the need for thoracic surgery capabilities and are beginning to recruit for a return of the section of thoracic at JBVAMC. Finally, Dr. Sonya Agnew has transitioned from JBVAMC to Hines VAMC in Maywood, IL. We are actively recruiting to fill a hand surgery/plastic surgery position.

Education

The VA rotations continue to be a valuable asset in the residency curriculum. The general surgery resident rotation continues to get high marks from finishing Chief residents. The VA commitment to surgical education has not wavered for the last fifty years.



We Will. The Campaign for Northwestern Medicine

As partners in Northwestern Medicine, Northwestern University Feinberg School of Medicine and Northwestern Memorial Health Care are endeavoring to create a national epicenter for healthcare, education, research, community service, and advocacy. Together, with our patients, physicians and scientists, students, trainees, alumni, employees, and many friends, we have an unprecedented opportunity to transform healthcare and to stand among the world's top academic medical centers.

Supporters of **We Will. The Campaign for Northwestern Medicine** will provide crucial resources that will propel innovation and excellence across our great academic medical center.

Ultimately, Northwestern Medicine will impact the health of humankind through the:

- talented people we recruit and retain to teach students, conduct research, and serve our patients;
- breakthrough research investigations we lead;
- world-class research and care facilities we build to foster our missions; and the
- educational and outreach efforts we champion to support and improve the lives of our students, trainees, alumni, faculty and staff, patients, and local and global communities.

Our vision for the Department of Surgery at Northwestern University Feinberg School of Medicine is clear and compelling—to become one of the nation's preeminent academic surgery departments as measured by the excellence of our faculty and students, the success and innovative nature of our research and educational programs, and the quality of clinical care we provide to patients.

Committed individuals and their philanthropic support are integral to advancing the research and education activities of the Department of Surgery. Generous and caring individuals are helping us achieve our research, education and patient care missions every day.

Philanthropic funding priorities of the Department of Surgery at Northwestern University Feinberg School of Medicine:

Named Endowed Professorship – Surgical Education	\$3 million
Endowed and Named Research or Clinical Fellowship Fund	\$1 million
Endowed and Named Distinguished Educator	\$500,000
Endowed and Named Lecture Fund	\$100,000
Annual Support for Clinical and Research Fellows	\$75,000/year
Annual Support for a Distinguished Educator	\$25,000/year

Gifts of cash or appreciated property have an immediate impact on the daily efforts of our surgeons, residents, fellows, and investigators. Donors can use planned giving vehicles—such as charitable remainder trusts, charitable gift annuities, or their estate documents—to provide vital support.

Each tax-deductible gift is essential to improving patient care, advancing research into life-altering conditions, educating future scientists and surgeons, and ensuring a brighter future for those who live with spinal and musculoskeletal disorders.

To support the Department of Surgery through **We Will. The Campaign for Northwestern Medicine**, please contact Ian Jipp, Assistant Dean for Development at ian.jipp@northwestern.edu or (312) 503-3088.

Faculty Honors/Awards/Publications

Michael Abecassis, MD, MBA

Presentations

Zhang X, Liu X, Yan S, Zhang Z, Abecassis M, et al. MCMV infection and reactivation in transplantation tolerance. World Transplant Congress; 2014.

Letret N, Li T, Wang J, Wang X, Abecassis M, et al. CD8 intrinsic defects in Myd88^{-/-} recipients determine the effective control of effector T cell accumulation in kidney allografts. World Transplant Congress; 2014.

McElroy L, Lapin B, Lovasik B, Skaro A, Levitsky J, et al. Longer cold ischemic time in nighttime procurements results in worse outcomes for liver transplant recipients. World Transplant Congress; 2014.

McElroy L, Yanes A, Joseph J, Skaro A, Doud A, et al. Towards a more uniform classification of patient safety events in solid organ transplantation: applying the World Health Organization international classification for patient safety. World Transplant Congress; 2014.

Kurian S, Modena B, Friedewald J, Brietigam S, Charette J, et al. Molecular phenotyping of kidney biopsies by global gene expression tightly correlates with histology phenotypes and long-term outcomes. World Transplant Congress; 2014.

Gallon L, Mas V, Mathew J, Dalal P, Nadimpalli L, et al. Reduced inflammatory but normal cell maintenance transcripts in tolerant kidney transplant biopsies. World Transplant Congress; 2014.

Ventura C, Kurian S, Gelbart T, David D, Agena F, et al. Discovery of peripheral blood and biopsy-based molecular classifiers in Brazilian kidney transplant patients. World Transplant Congress; 2014.

Mathew J, Leventhal J, Konieczna I, Huang X, Chen L, et al. Mechanisms in HLA-identical renal transplant tolerance induced by donor hematopoietic stem cells. World Transplant Congress; 2014.

Leventhal J, Abecassis M, Miller J, Gallon L, Tollerud D, et al. Chimerism and tolerance without GVHD in mismatched recipients of combined hematopoietic stem cell/kidney transplants: donor-specific hyporeactivity is not a reliable biomarker for tolerance. World Transplant Congress; 2014.

Levitsky J, Tambur AR, Walsh RC, Jie C, Kang J, et al. The differential impact of donor-specific antibodies in living vs. Deceased donor liver transplantation. American Association for the Study of Liver Diseases; 2014.

Publications

Salem R, Vouche M, Baker T, Herrero JJ, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlostos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization-Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. Transplantation. 2015 Apr 22. [Epub ahead of print] PubMed PMID: 25905983.

Abecassis M, Kaplan B. Transplantation: Biomarkers in transplantation—the devil is in the detail. Nat Rev Nephrol. 2015 Apr;11(4):204-5. doi: 10.1038/nrneph.2015.2. Epub 2015 Jan 27. PubMed PMID: 25623476.

Letret NM, Li T, Wang JJ, Kang HK, Wang S, Wang X, Jie C, Kanwar YS, Abecassis MM, Luo X, Zhang Z. Recipient Myd88 Deficiency Promotes Spontaneous Resolution of Kidney Allograft Rejection. J Am Soc Nephrol. 2015 Mar 18. pii: ASN.2014080813. [Epub ahead of print] PubMed

PMID: 25788530.

Abecassis M, Pearson T. Fee-for-value and wRVU-based physician productivity: an emerging paradox. Am J Transplant. 2015 Mar;15(3):579-80. doi: 10.1111/ajt.13112. PubMed PMID: 25693467.

Chang Y, Gallon L, Shetty K, Chang Y, Jay C, Levitsky J, Ho B, Baker T, Ladner D, Friedewald J, Abecassis M, Hazen G, Skaro AI. Simulation modeling of the impact of proposed new simultaneous liver and kidney transplantation policies. Transplantation. 2015 Feb;99(2):424-30. doi: 10.1097/TP.0000000000000270. PubMed PMID: 25099700; PubMed Central PMCID: PMC4318789.

Nguyen C, McElroy LM, Abecassis MM, Holl JL, Ladner DP. The use of technology for urgent clinician to clinician communications: a systematic review of the literature. Int J Med Inform. 2015 Feb;84(2):101-10. doi: 10.1016/j.ijmedinf.2014.11.003. Epub 2014 Nov 15. PubMed PMID: 25444594; PubMed Central PMCID: PMC4272907.

Leventhal JR, Elliott MJ, Yolcu ES, Bozulic LD, Tollerud DJ, Mathew JM, Konieczna I, Ison MG, Galvin J, Mehta J, Badder MD, Abecassis MM, Miller J, Gallon L, Ildstad ST. Immune reconstitution/immunocompetence in recipients of kidney plus hematopoietic stem/facilitating cell transplants. Transplantation. 2015 Feb;99(2):288-98. doi: 10.1097/TP.0000000000000605. PubMed PMID: 25594553.

Abecassis MI. All that glitters... Ann Surg. 2015 Jan;261(1):e5. doi: 10.1097/SLA.0000000000000899. PubMed PMID: 25185478.

Serper M, Patzer RE, Reese PP, Przytula K, Koval R, Ladner DP, Levitsky J, Abecassis MM, Wolf MS. Medication misuse, nonadherence, and clinical outcomes among liver transplant recipients. Liver Transpl. 2015 Jan;21(1):22-8. doi: 10.1002/lt.24023. PubMed PMID: 25312406.

Caralt M, Uzarski JS, Jacob S, Obergfell KP, Berg N, Bijonowski BM, Kiefer KM, Ward HH, Wandinger-Ness A, Miller WM, Zhang ZJ, Abecassis MM, Wertheim JA. Optimization and critical evaluation of decellularization strategies to develop renal extracellular matrix scaffolds as biological templates for organ engineering and transplantation. Am J Transplant. 2015 Jan;15(1):64-75. doi: 10.1111/ajt.12999. Epub 2014 Nov 17. PubMed PMID: 25403742; PubMed Central PMCID: PMC4276475.

Skaro AI, Gallon LG, Lyuksemburg V, Jay CL, Zhao L, Ladner DP, VanWagner LB, De Wolf AM, Flaherty JD, Levitsky J, Abecassis MM, Gheorghide M. The impact of coronary artery disease on outcomes after liver transplantation. J Cardiovasc Med (Hagerstown). 2014 Dec 16. [Epub ahead of print] PubMed PMID: 25517876.

Levitsky J, Baker TB, Jie C, Ahya S, Levin M, Friedewald J, Al-Saden P, Salomon DR, Abecassis MM. Plasma protein biomarkers enhance the clinical prediction of kidney injury recovery in patients undergoing liver transplantation. Hepatology. 2014 Dec;60(6):2017-26. doi: 10.1002/hep.27346. Epub 2014 Oct 29. PubMed PMID: 25078558.

Davis AE, Mehrotra S, Friedewald JJ, Daskin MS, Skaro AI, Abecassis MM, Ladner DP. Improving Geographic Equity in Kidney Transplantation Using Alternative Kidney Sharing and Optimization Modeling. Med Decis Making. 2014 Nov 10. pii: 0272989X14557696. [Epub ahead of print] PubMed PMID: 25385750.

VanWagner LB, Lapin B, Levitsky J, Wilkins JT, Abecassis MM, Skaro AI, Lloyd-Jones DM. High early cardiovascular mortality after liver transplantation. Liver Transpl. 2014 Nov;20(11):1306-16.

doi: 10.1002/lt.23950. Epub 2014 Oct 24. PubMed PMID: 25044256; PubMed Central PMCID: PMC4213202.

Chang Y, Gallon L, Jay C, Shetty K, Ho B, Levitsky J, Baker T, Ladner D, Friedewald J, Abecassis M, Hazen G, Skaro AI. Comparative effectiveness of liver transplant strategies for end-stage liver disease patients on renal replacement therapy. Liver Transpl. 2014 Sep;20(9):1034-44. doi: 10.1002/lt.23899. PubMed PMID: 24777647; PubMed Central PMCID: PMC4146665.

Sarraj B, Ye J, Akl AI, Chen G, Wang JJ, Zhang Z, Abadja F, Abecassis M, Miller SD, Kansas GS, Ansari MJ. Impaired selectin-dependent leukocyte recruitment induces T-cell exhaustion and prevents chronic allograft vasculopathy and rejection. Proc Natl Acad Sci U S A. 2014 Aug 19;111(33):12145-50. doi: 10.1073/pnas.1303676111. Epub 2014 Aug 4. PubMed PMID: 25092331; PubMed Central PMCID: PMC4143062.

Mohammed Alghoul, MD

Honors/Awards

Victor Lewis Junior Resident Teaching Award
Martin R. Sullivan, MD, DDS Award for Outstanding Surgery Teaching 2014-15

Adin-Cristian Andrei, PhD

Honors/Awards

Statistical Co-Editor for the Journal of the American College of Surgeons, January 2015

Deputy Statistical Editor for the Journal of Thoracic and Cardiovascular Surgery, March 2015

Presentations

Andrei, A.-C., Kruse, J., Li, Z., Malaisrie, S.C., McGee, E., McCarthy, P.M. Lessons Learned from Observational Studies: Considerations in Propensity Score Matching. Poster Presentation at the 2015 Conference on Statistical Practice, New Orleans, LA, February 2015

Andrei, A.-C., McCarthy, P.M., Thomas, J.O., Abicht, T.O., Malaisrie, S.C., Li, Z., Kruse, J., Waldo, A.L., Calkins, H., Cox, J.L. Late Reinterventions After Surgical Ablation Of Atrial Fibrillation Allied Health Poster Competition Presentation at the 2015 AATS Meeting, Seattle, WA, April 2015.

Publications

Andrei, A.-C. Letter to Editor "On biostatisticians and their role in cardiothoracic surgery research", Journal of Thoracic and Cardiovascular Surgery, in press.

Andrei, A.-C., Yadlapati, A., Malaisrie, S.C., Puthumana, J.J., Li, Z., Rigolin, V., Mendelson, M., Clennon, C., Fedak, P.W.M., Thomas, J.D., Higgins, J.A., Rinewald, D., Bonow, R.O., McCarthy, P.M. Comparison of Outcomes and Presentation in Men-versus-Women with Bicuspid Aortic Valves Undergoing Aortic Valve Replacement. American Journal of Cardiology, 2015, 116(2), 250-255.

Andrei, A.-C., McCarthy, P.M., Thomas, J.D., Abicht, T.O., Malaisrie, S.C., Li, Z., Kruse, J., Waldo, A.L., Calkins, H., Cox, J.L. Overcoming Reporting Challenges: How to Display, Summarize and Model Late Reintervention Outcomes, Follow-Up and Vital Status Information After Surgery for Atrial Fibrillation. Heart Rhythm Journal, 2015, 12(7), 1456-63.

Duncan, B.F., McCarthy, P.M., Kruse, J., Andrei, A.-C., Li, Z., Russell, H.M., Abicht, T.O., Rigolin, V.H., Thomas, J.D., Davidson, C.J., Bonow, R.O., Malaisrie, S.C. Paravalvular Regurgitation after Conventional Aortic and Mitral Valve Replacement: A Benchmark for Alternative Approaches. Journal of Thoracic and Cardiovascular Surgery, in press.

Malaisrie, S.C., Duncan, B., Badiwala, M.V., Rinewald, D., Mehta, C. K., Kruse, J., Li,

Faculty Honors/Awards/Publications

Z, Andrei, A.-C., McCarthy, P.M. The Addition of Hemi-arch Replacement to Aortic Root Surgery Does Not Affect Safety. *Journal of Thoracic and Cardiovascular Surgery*, 2015, 150(1), 118-24.

Ikegami, H., Andrei, A.-C., Li, Z., McCarthy, P.M., Malaisrie, S.C. Cardiac Papillary Fibroelastoma: An Analysis of 24 Surgical Cases Including A Case Presenting With Cardiac Arrest. *Texas Heart Institute Journal*, 2015, 42(2), 131-5.

Varlotto, J., Yao, N., DeCamp, M.M., Ramakrishna, S., Recht, A., Flickinger, J., Zheng, X., Andrei, A.-C., Reed, M.F., Toth, J. W., Fitzgerald, T.J., Higgins, K., Zheng, X., Shelkey, J., Medford-Davis, L.N., Belani, C., Kelsey, C. Nodal stage of surgically resected non-small cell carcinoma of the lung and its effect on recurrence pattern and survival. *International Journal of Radiation Oncology, Biology, Physics*, 2015, 91(4), 765-773.

Enter, D.H., Lou, X., Hui, D.S., Andrei, A.-C., Barner, H.B., Lee, R. Practice Improves Performance a Coronary Anastomosis Simulator, Attending Surgeon Supervision Does Not. *Journal of Thoracic and Cardiovascular Surgery*, 2015, 149(1), 12-17.

Han, S., Tsui, K.-W., Andrei, A.-C. Semiparametric variable selection using predictive accuracy for interval-censored survival outcomes. *Statistical Methods in Medical Research*, in press.

Tower-Rader, A., Furiasse, N., Puthumana, J.J., Kruse, J., Li, Z., Andrei, A.-C., Rigolin, V., Bonow, R.O., McCarthy, P.M., Choudhury, L. Effect of Left Ventricular Diastolic Function and Left Atrial Volume Following Septal Myectomy in Patients with Hypertrophic Cardiomyopathy. *American Journal of Cardiology*, 2014, 114(10), 1568-1572.

Carl Backer, MD

Honors/Awards

Awarded the Research Champion award by the Children's Heart Foundation at the first Red Tie Ball on November 15, 2014

Appointed Associate Editor of the *World Journal for Pediatric and Congenital Heart Surgery*, January 2015.

Presentations

Visiting Professor: Backer CL. Paradigm Shift in Pediatric Cardiac Care: An Acuity Adaptable Patient Unit. University of Texas Health Science Center, San Antonio, TX, August 28-29, 2014.

Visiting Professor: Backer CL. Failing Fontan: Conversion or Transplant? University of Texas Health Science Center, San Antonio, TX, August 28-29, 2014.

Hack MA, Backer CL, Eltayeb O, Mongé MC, Costello JM. Younger Age at Rastelli May Improve Long-term Outcomes. *Midwest Pediatric Cardiology Society*, Ann Arbor, MI September 11-12, 2014.

Backer C, Invited Speaker. Surgery for congenital heart disease and heart transplantation. *American Academy of Pediatrics Specialty Review in Pediatric Cardiology*, Chicago, IL, September 15-19, 2014.

Visiting Professor. Backer CL. Failing Fontan: Conversion or Transplant. Frances Rather Symbold University of Texas Health Science Center at Houston. Houston, TX, October 2, 2014.

Invited Speaker, Backer CL. Advances in Quality & Outcomes: A Data Managers Meeting. Society of Thoracic Surgeons, Chicago, IL, October 8-10, 2014.

Backer CL, Eltayeb O, Mongé MC, Hack MA, Boles LH, Sarwark AE, Robinson JD. Modified Single-Patch: Are We Still Worried about Subaortic Stenosis? Southern Thoracic Surgical Association 61st Annual Meeting, Tucson, AZ, November 7, 2014

Backer CL, Mongé MC, Eltayeb O, Costello JM, Sarwark AE, Carr MR. Aortic Implantation of Anomalous Origin of the Left Coronary Artery from the Pulmonary Artery: Long-term Outcomes. Southern Thoracic Surgical Association 61st Annual Meeting, Tucson, AZ, November 7, 2014

Invited Speaker, Backer CL. My favorite operation on coronary arteries. 15th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 6-9, 2015

Backer CL, Balasubramanya S, Eltayeb O, Mongé MC, Sarwark AE, Popescu AR, Rigsby CK, Koenig PR, Costello JM. The correlation of intramural length of an AAOCA with symptoms. 15th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 6-9, 2015

Backer, CL, Mongé MC, Eltayeb O, Costello JM, Sarwark AE, Carr MR. Long-term outcomes with ALCAPA. 15th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 6-9, 2015

Backer CL. Visiting Professor. Vascular rings: the Chicago contribution. *Cardiac Surgery Grand Rounds*, Johns Hopkins School of Medicine, Baltimore, Maryland, February 19, 2015.

Backer CL. Invited Speaker. Tandem Heart in pediatric patients waiting for transplantation. University of Virginia, Charlottesville, VA, February 26-28, 2015.

Backer CL. Invited Speaker. Fontan revision and takedown: Are we waiting too long? *American College of Cardiology*, March 14-16, 2015.

Backer CL. Aortic uncrossing for circumflex aorta. American Association for Thoracic Surgery 95th annual meeting. April 25-29, 2015, Seattle, Washington.

Publications

Devlin PJ, Russell HM, Mongé MC, Patel A, Costello JM, Spicer DE, Anderson RH, Backer CL. Doubly committed and juxtaarterial ventricular septal defect: outcomes of the aortic and pulmonary valves. *Ann Thorac Surg*. 2014;97:2134-2141.

Backer CL, Mongé MC, Russell HM, Popescu AR, Rastatter JC, Costello JM. Reoperation after vascular ring repair. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2014;17(1):48-55.

Costello JM, Pasquali SK, Jacobs JP, He X, Hill KD, Cooper DS, Backer CL, Jacobs ML. Gestational age at birth and outcomes after neonatal cardiac surgery: an analysis of the Society of Thoracic Surgeons Congenital Heart Surgery Database. *Circulation*. 2014;129:2511-2517

Kulat B, Russell HM, Sarwark AE, R Zingle N, Moss ST, Mongé MC, Backer CL. Modified Tandem Heart ventricular assist device for infant and pediatric circulatory support. *Ann Thorac Surg*. 2014;98:1437-1441

Backer CL. Invited Commentary. Humanitarian congenital heart surgery: Template for success. *J Thorac Cardiovasc Surg*. 2014;148:2489-2490

Mavroudis C, Stulak JM, Ad, N, Siegel A, Giamberti A, Harris L, Backer CL, Tsao S, Dearani JA, Weerasena N, Deal BJ. Prophylactic atrial arrhythmia surgical procedures with congenital heart operations: review and recommendations. *Ann Thorac Surg* 2015;99:352-359.

Ross ET, Costello JM, Backer CL, Brown L, Robinson JD. Right ventricular outflow tract growth in infants with palliated tetralogy of Fallot. *Ann Thorac Surg* 2015; 99:1367-1372.

Ducharme-Smith A, Katz BZ, Bobrowski AE, Backer CL, Rychk K, Pahl E. Prevalence of BK polyomavirus infection and association with renal dysfunction in pediatric heart transplant recipients. *J Heart Lung Transplant* 2015;34:222-226.

Backer CL, Eltayeb O, Mongé MC, Hack MA, Boles LH, Sarwark AE, Costello JM, Robinson JD. Modified single-patch technique: are we still worried about subaortic stenosis? *Ann Thorac Surg* 2015;99:1671-1676.

Mongé MC, Eltayeb O, Costello JM, Sarwark AE, Carr MR, Backer CL. Aortic Implantation of anomalous origin of the left coronary artery from the pulmonary artery: long-term outcomes. *Ann Thorac Surg* 2015;100:154-161.

Cashen K, Collins J, Costello JM, Rycus PT, Thiagarajan R, Reynolds M, Backer CL. ECMO in pediatric trisomy 21: 30 years of experience from the ELSO Registry. *J Ped* 2015;167:403-408.

Backer CL Invited Editorial: Timing is everything- Or is it? *J Thorac Cardiovasc Surg* 2015;149:211-212

Backer CL, Marino BS. Invited Commentary. Protecting the neonatal brain: Finding, treating, and preventing seizures. *J Thorac Cardiovasc Surg* 2015;150:6-7.

Backer CL. Invited Commentary: Outcome in children operated for membranous subaortic stenosis: membrane resection plus aggressive septal myectomy versus membrane resection alone: subaortic stenosis - how deep should the knife go? *World J Pediatr Congenit Heart Surg* 2015;6:429-430.

Talia Baker, MD

Publications

Salem R, Vouche M, Baker T, Herrero JJ, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlostos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization -Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*. 2015 Apr 22. [Epub ahead of print] PubMed PMID: 25905983.

Emond JC, Fisher RA, Everson G, Samstein B, Pomposelli JJ, Zhao B, Forney S, Olthoff KM, Baker TB, Gillespie BW, Merion RM. Changes in liver and spleen volumes after living liver donation: a report from the Adult-to-Adult Living Donor Liver Transplantation Cohort Study (A2ALL). *Liver Transpl*. 2015 Feb;21(2):151-61. doi: 10.1002/lt.24062. PubMed PMID: 25488878; PubMed Central PMCID: PMC4308432.

Olthoff KM, Emond JC, Shearon TH, Everson G, Baker TB, Fisher RA, Freise CE, Gillespie BW, Everhart JE. Liver regeneration after living donor transplantation: adult-to-adult living donor liver transplantation cohort study. *Liver Transpl*. 2015 Jan;21(1):79-88. doi: 10.1002/lt.23966. Epub 2014 Oct 6. PubMed PMID: 25065488; PubMed Central PMCID: PMC4276514.

Levitsky J, Baker TB, Jie C, Ahya S, Levin M, Friedewald J, Al-Saden P, Salomon DR, Abecassis MM. Plasma protein biomarkers enhance the clinical prediction of kidney injury recovery in patients undergoing liver transplantation. *Hepatology*. 2014 Dec;60(6):2017-26. doi: 10.1002/hep.27346. Epub 2014 Oct 29. PubMed PMID: 25078558.

Chang Y, Gallon L, Jay C, Shetty K, Ho B, Levitsky J, Baker T, Ladner D, Friedewald J, Abecassis M, Hazen G, Skaro AI. Comparative effectiveness of liver transplant strategies for end-stage liver disease patients on renal replacement therapy. *Liver Transpl*. 2014 Sep;20(9):1034-44. doi: 10.1002/lt.23899. PubMed PMID: 24777647; PubMed Central PMCID: PMC4146665

David Bentrem, MD, MS

Honors/Awards

ACS-NSQIP HPB Collaborative- National Co-chair.

Coinvestigator on R01 CA186885 Role of Snail and Slug proteins in pancreatic cancer progression (PI Munshi)

Publications

Knab M, Schultz M, Principe D, Gounaris E, Munshi H, Grippo P and Bentrem DJ. Ablation of 5-lipoxygenase mitigates pancreatic lesion development. *J Surg Res*. 2014;194(2):481-7.

Knab LM, Ebine K, Chow C, Raza S, Sahai V, Patel A, Kumar K, Bentrem DJ, Grippo P, and Munshi H. Snail cooperates with KrasG12D in vivo to increase stem cell factor and enhance mast cell infiltration. *Mol Cancer Res* 2014;12:1440-48.

Sahai V, Kumar K, Knab LM, Chow C, Raza S, Bentrem DJ, Ebine K and Munshi H. BET bromodomain inhibitors block growth of pancreatic cancer cells in three-dimensional collagen. *Mol Cancer Ther* 2014;13

Faculty Honors/Awards/Publications

(7):1907-17.

Kooby D, Lad N, Squires M, Maithel S, MD, Cho C, Bentrem DJ, Knab M, Ahmad S, Abbott D, Kim HJ, Yeh JJ, Scoggins CR, Martin R, Parikh A, Robinson J, Hawkins W, Hashim Y, Fields R, Merchant N. Value of intraoperative neck margin analysis during whipple for pancreatic adenocarcinoma: a multicenter analysis of 1399 patients. *Ann Surg* 2014; 260(3):494-501.

Kumar K, Raza S, Knab L, Chow C, Kwok B, Bentrem D, Popovic R, Ebine K, Licht J, Munshi H. GLI2-dependent c-MYC upregulation mediates resistance of pancreatic cancer cells to the BET bromodomain inhibitor JQ1. *Scientific Reports*. 2015; 5:9489.

Gounaris E, Heiferman M, Heiferman J, Vitello D, Blatner N, Knab L, Phillips J, Grippo P, Munshi HG, Bentrem DJ. Zileuton, 5-lipoxygenase inhibitor, acts as a chemopreventive agent in intestinal polyposis by modulating polyp and systemic inflammation. *Plos one* 2015;10(3)

Ankit Bharat, MD

Honors/Awards

2014 Best Paper- Transplant, Association of Academic Surgery

2014 Best Paper- Thoracic, American Association for Thoracic Surgery

2015 Best Paper- Association of Academic Surgery Clinical Congress

2015 Outstanding teacher award- Northwestern University

2015 Best Junior Faculty Research Award- International Society of Heart and Lung Transplant

2015 Diplomat of American Surgical Congress to Royal Australasian Surgical Society

Presentations

A Bharat. Hyperacute rejection despite negative lymphocytic crossmatch. International Society of Heart and Lung Transplant annual meeting, France, April 2015.

J Kanter, H Sun, M DeCamp, P Sporn, J Sznajder, A Bharat. CXCL12 Reverses Hypercapnia-Induced Suppression of Epithelial Cell Migration and Lung Healing. Academic Surgical Congress. Feb 2015, Las Vegas.

A Bharat, V Subramanian, M DeCamp, D Kreisel, A Gelman, T Mohanakumar. Tissue restricted autoimmunity leads to the development of lung allograft rejection. Plenary session of Association of Academic surgery annual meeting, 2014.

A Bharat, C Gillespie, M DeCamp, J Sznajder. Intrapleural hypercarbia leads to prolonged air leaks by suppressing epithelial migration and alveolar macrophages. American Thoracic Society annual meeting, 2014.

A Bharat, V Subramanian, M DeCamp, D Kreisel, T Mohanakumar. Novel Two-Hit Hypothesis for the Development of De Novo Autoimmunity Following Lung Transplantation. ISHLT 2014 annual meeting.

E Cassidy, N Graf, C Gillespie, M DeCamp, J Sznajder, A Bharat. High carbon dioxide in lung repair. American Association of Thoracic Surgeons annual meeting, 2014.

Publications

A Bharat, S Cunningham et al. Disseminated Ureaplasma infection as a cause of fatal hyperammonemia in humans. *Sci Transl Med*, Apr 22; 7(284).

Wandling MW, Hoel AW, Meyerson SL, Rodriguez HE, Shapiro MB, Swaroop M, Bharat A. Complex Intrathoracic Tracheal Injury. *Am J Respir Crit Care Med*. 2015 Jul 15; 192 (2).

Mehta CK, Gillespie CT, Lin X, Yeldandi A, DeCamp M, Bharat A. Rare Mediastinal Paraganglioma Mimicking Metastatic Neuroendocrine Tumor. *Ann Thor Surg*. 2015 Aug; 100(2): 702-5.

A Bharat, R Damiano, G A Patterson. Successful repair of gastro-atrial fistula following transhiatal esophagectomy for advanced esophageal cancer. *Ann Thorac Surg* Oct 2014. 1475-1477.

A Bharat. Prolonged Lung Allograft Ischemia and Post-Transplant Outcome. *JAMA Surg*. 2015 Jun 1; 150 (6): 554.

Subramanian V, Ramachandran S, Banan B, Bharat B, Wang X, Benshoff N, Kreisel D, Gelman AE, Mohanakumar T. Immune response to tissue-restricted self-antigens induces airway inflammation and fibrosis following murine lung transplantation. *Am J Transplant* Oct 2014 (10). 2359-66.

Subramanian V, Bharat A, et al. Perioperative blood transfusion affects hepatitis C virus (HCV)-specific immune responses and outcome following liver transplantation in HCV-infected patients. *HPB (Oxford)*. Mar 2014 16(3). 282-94.

Karl Y. Bilimoria, MD, MS

Honors/Awards

2014-Vice Chair for Quality, Department of Surgery

2014 -Excellence in Teaching Award, Department of Surgery, Northwestern University, Chicago, IL

2014-Named to Becker's list of "50 Experts Leading the Field of Patient Safety"

2014-2015 U.S. News Hospital Quality for Procedures and Conditions Medical Advisory Committee

2015-2019 iCOMPARE Internal Medicine Resident Duty Hour study Advisory Board

2015-Associate Professor, Department of Surgery, Feinberg School of Medicine, Northwestern University

Presentations

The FIRST Trial- Changing Policy with Science, Keynote Address, Midwestern Vascular Society, August 2014.

Measuring and Improving the Quality of Venous Thromboembolism Prevention in the U.S. Grand Rounds, St. Joseph's Hospital, Chicago, September 2014.

The FIRST Trial- Changing Policy with Science, Surgical Outcomes Club, September 2014.

Available Databases for Surgical Outcomes and Health Services Research. Medical College of Wisconsin Visiting Professor, Milwaukee, September 2014.

Outcomes Research Programs in the Departments of Surgery: Development of SOQIC. Association for Administrators in Academic Surgery Annual Meeting. San Francisco, October 2014.

Evidence-Based Guidelines: Improving Quality of Care or Curbing Surgeons' Independence? American College of Surgeons Clinical Congress, October 2014.

How to Use ACS NSQIP, TQIP, CQIP, and SSR in Your Institution. American College of Surgeons Clinical Congress, October 2014.

Developing a Platform for Quality Improvement Trials. Grand Rounds, Lurie Children's Hospital of Chicago, October 2014.

Improving the Quality of Surgical Care in Illinois. Dr. Stuart Roberts Endowed Lectureship for Excellence in Surgical Education Grand Rounds. University of Illinois at Peoria, October 2014.

The FIRST Residency Duty Hour Trial. University of Illinois at Peoria, October 2014.

Introduction to ISQIC: A Statewide Initiative to Improve Surgical Care in Illinois. ISQIC Annual Meeting, Naperville, IL, January 2015.

Improving and Standardizing VTE Prophylaxis in Illinois: The First Illinois Collaborative Quality Improvement Project, ISQIC Annual Meeting, Naperville, IL, January 2015.

The FIRST Trial- Changing Policy with Science. Grand Rounds, University of Kentucky Department of Surgery, February 2015.

Development of a Statewide Quality Improvement Collaborative. Grand Rounds. University of Kentucky Department of Medicine and School of Public Health, February 2015.

Developing Your Specific Aims Page, American Surgical Congress Surgical Investigators Course, February 2015.

Pro/Con Debate: Public Reporting and the Impact on Surgical Care, Academic Surgical Congress, Las Vegas, February 2015.

Building a Surgical Health Services Research Program. Expanding Your Department's Portfolio: Programmatic Development in Surgical Health Services Research Meeting. Madison, April 2015.

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

Measuring Surgical Quality: Does Anyone Know What They Are Doing? Shibata Lecture, Canadian Society of Surgical Oncology Keynote Lecture, Quebec City, September 2015.

Publications

Robinson JK, Gaber R, Hultgren B, Eilers S, Blatt H, Stapleton J, Mallett K, Turrisi R, Duffecy J, Begale M, Martini M, Bilimoria K, Wayne J. Skin self-examination education for early detection of melanoma: a randomized controlled trial of Internet, workbook, and in-person interventions. *Journal of medical Internet research*. 2014;16(1):e7.

Halverson AL, Sellers MM, Bilimoria KY, Hawn MT, Williams MV, McLeod RS, Ko CY. Identification of process measures to reduce postoperative readmission. *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*. Aug 2014;18(8):1407-1415.

Merkow RP, Bilimoria KY, Tomlinson JS, Paruch JL, Fleming JB, Talamonti MS, Ko CY, Bentrem DJ. Postoperative complications reduce adjuvant chemotherapy use in resectable pancreatic cancer. *Annals of surgery*. Aug 2014;260(2):372-377.

Rajaram R, Chung JW, Jones AT, Cohen ME, Dahlke AR, Ko CY, Tarpley JL, Lewis FR, Hoyt DB, Bilimoria KY. Association of the 2011 ACGME resident duty hour reform with general surgery patient outcomes and with resident examination performance. *Jama*. Dec 10 2014;312(22):2374-2384.

Chung JW, Ju MH, Kinnier CV, Haut ER, Baker DW, Bilimoria KY. Evaluation of hospital factors associated with hospital postoperative venous thromboembolism imaging utilization practices. *BMJ quality & safety*. Nov 2014;23(11):947-956.

Segal CG, Waller DK, Tilley B, Piller L, Bilimoria K. An evaluation of differences in risk factors for individual types of surgical site infections after colon surgery. *Surgery*. Nov 2014;156(5):1253-1260.

Sherman KL, Kinnier CV, Farina DA, Wayne JD, Laskin WB, Agulnik M, Attar S, Hayes JP, Peabody T, Bilimoria KY. Examination of national lymph node evaluation practices for adult extremity soft tissue sarcoma. *Journal of surgical oncology*. Nov 2014;110(6):682-688.

Merkow RP, Bilimoria KY, Bentrem DJ. Reply to Letter: "Extended Venous Thromboembolism Prophylaxis After Colorectal Cancer Resection: A UK Perspective". *Annals of surgery*. Nov 3 2014.

Kinnier CV, Asare EA, Mohanty S, Paruch JL, Rajaram R, Bilimoria KY. Risk prediction tools in surgical oncology. *Journal of surgical oncology*. Oct 2014;110(5):500-508.

Faculty Honors/Awards/Publications

Ju MH, Chung JW, Kinnier CV, Bentrem DJ, Mahvi DM, Ko CY, Bilimoria KY. Association between hospital imaging use and venous thromboembolism events rates based on clinical data. *Annals of surgery*. Sep 2014;260(3):558-564; discussion 564-556.

Ju MH, Cohen ME, Bilimoria KY, Latus MS, Scholl LM, Schwab BJ, Byrd CM, Ko CY, Dellinger EP, Hall BL. Effect of wound classification on risk adjustment in American College of Surgeons NSQIP. *J Am Coll Surg*. Sep 2014;219(3):371-381 e375.

Kinnier CV, Chung JW, Paruch JL, Wayne JD, Ross MI, Winchester DP, Bilimoria KY. Does Hospital Proficiency Vary for Melanoma Sentinel Lymph Node Biopsies? An Evaluation of Hospital-Level Adjusted Node Positivity Rates and Outcomes. *J Am Coll Surgeons*. Sep 2014;219(3):S99-S99.

Paruch JL, Ko CY, Bilimoria KY. A case for improving measurement of intraoperative iatrogenic injuries. *JAMA surgery*. Sep 2014;149(9):887-888.

Rajaram R, Paruch JL, Palis B, Mohanty S, Ko CY, Winchester DP, Bilimoria KY. Are Patients Traveling Farther for Complex Cancer Surgery? An Evaluation of Patient Travel Time and the Impact of High-Volume Hospitals. *J Am Coll Surgeons*. Sep 2014;219(3):S106-S107.

Kester BS, Merkow RP, Ju MH, Peabody TD, Bentrem DJ, Ko CY, Bilimoria KY. Effect of post-discharge venous thromboembolism on hospital quality comparisons following hip and knee arthroplasty. *The Journal of bone and joint surgery*. American volume. Sep 3 2014;96(17):1476-1484.

Kinnier CV, Chung JW, Bilimoria KY. Approaches to answering critical CER questions. *Cancer treatment and research*. 2015;164:1-14.

Kinnier CV, Paruch JL, Dahlke AR, Wayne JD, Benson III AB, Winchester DP, Bilimoria KY. Adjusted Hospital Sentinel Lymph Node Positivity Rates in Melanoma. *Annals of Surgery*. 2015.

Bilimoria KY, Hoyt DB, Lewis F. Making the Case for Investigating Flexibility in Duty Hour Limits for Surgical Residents. *JAMA surgery*. Apr 22 2015.

Minami CA, Dahlke A, Bilimoria KY. Public reporting in surgery: an emerging opportunity to improve care and inform patients. *Annals of surgery*. Feb 2015;261(2):241-242.

Merkow RP, Ju MH, Chung JW, Hall BL, Cohen ME, Williams MV, Tsai TC, Ko CY, Bilimoria KY. Underlying reasons associated with hospital readmission following surgery in the United States. *Jama*. Feb 3 2015;313(5):483-495.

Ju MH, Ko CY, Hall BL, Bosk CL, Bilimoria KY, Wick EC. A comparison of 2 surgical site infection monitoring systems. *JAMA surgery*. Jan 2015;150(1):51-57.

Rajaram R, Bilimoria KY. JAMA PATIENT PAGE. Medicare. *Jama*. Jul 28 2015;314(4):420.

Rajaram R, Chung JW, Kinnier CV, Barnard C, Mohanty S, Pavey ES, McHugh MC, Bilimoria KY. Hospital Characteristics Associated With Penalties in the Centers for Medicare & Medicaid Services Hospital-Acquired Condition Reduction Program. *Jama*. Jul 28 2015;314(4):375-383.

Spolverato G, Ejaz A, Kim Y, Hall BL, Bilimoria K, Cohen M, Ko C, Pitt H, Pawlik TM. Patterns of care among patients undergoing hepatic resection: a query of the National Surgical Quality Improvement Program-targeted hepatectomy database. *The Journal of surgical research*. Jun 15 2015;196(2):221-228.

Rajaram R, Barnard C, Bilimoria KY. Flaws in Patient Safety Measures--Reply. *Jama*. Jun 23-30 2015;313(24):2495.

Asare EA, Bilimoria KY, Greene FL. Beyond anatomic staging for cancer. *Journal of surgical oncology*. Mar 2015;111(3):249-250.

Chung JW, Ju MH, Kinnier CV, Sohn MW, Bilimoria KY. Postoperative venous thromboembolism outcomes measure: analytic exploration of potential misclassification of hospital quality due to surveillance bias. *Annals of surgery*. Mar 2015;261(3):443-444.

Mohanty S, Kinnier CV, Bilimoria KY. Patient satisfaction, outcomes, and the need for cancer-specific quality metrics. *Journal of the National Cancer Institute*. Mar 2015;107(3).

Rajaram R, Barnard C, Bilimoria KY. Concerns about using the patient safety indicator-90 composite in pay-for-performance programs. *Jama*. Mar 3 2015;313(9):897-898.

Yadlapati R, Gawron AJ, Bilimoria K, Keswani RN, Dunbar KB, Kahrilas PJ, Katz P, Richter J, Schnoll-Sussman F, Soper N, Vela MF, Pandolfino JE. Development of quality measures for the care of patients with gastroesophageal reflux disease. *Clinical gastroenterology and hepatology : the official clinical practice journal of the American Gastroenterological Association*. May 2015;13(5):874-883 e872.

Minami CA, Bilimoria KY. Separating the Need for Intraoperative Consultation From the Fear of Out-of-Network Billing: The Myth of Drive-by Doctoring. *JAMA surgery*. May 1 2015;150(5):386-387.

Mohanty S, Liu Y, Paruch JL, Kmiecik TE, Cohen ME, Ko CY, Bilimoria KY. Risk of discharge to postacute care: a patient-centered outcome for the american college of surgeons national surgical quality improvement program surgical risk calculator. *JAMA surgery*. May 1 2015;150(5):480-484.

Mohanty S, Paruch J, Bilimoria KY, Cohen M, Strong VE, Weber SM. Impact of gastrectomy procedural complexity on surgical outcomes and hospital comparisons. *Surgery*. May 20 2015.

Juan Carlos Caicedo, MD

Presentations

Invited Speaker, STALYC (Latin American and Caribbean Transplant Society) 1er Simposio de Trasplante de Organos, Miami, Florida, Es la anatomia del higado una limitante para ser donante vivo? October 2014.

Invited Speaker, Northwestern University, Feinberg School of Medicine, Department of Surgery Core Curriculum Series (Teaching Lecture), Chicago, Illinois, Causes & Management of Jaundice, December 2014.

Invited Speaker, Northwestern University, Feinberg School of Medicine, Fellow's Lecture Series, Chicago, Illinois, Cultural Competency in Transplantation - A Call for Action, January 2015.

Invited Speaker, Northwestern University, Feinberg School of Medicine, Latino Medical Student Association, Chicago, Illinois, Cultural Competency in Clinical Medicine, February 2015.

Invited Speaker, 1er Simposio International Hospital Herrera Slerandi / Northwestern Medicine, Guatemala City, Guatemala, Trasplante de Organos: Tradladando Descubrimientos a la Practica, March 2015.

Invited Speaker, Northwestern Memorial Hospital, General Surgery Conference, Chicago, Illinois, Cultural Competency in Surgery - A Call for Action, March 2015.

Invited Speaker, Northwestern Memorial Hospital, Transplant Educational Series, Employee Committee, Chicago, Illinois, Cultural Competency in Transplant - A Call for Action, April 2015.

Workshop Speaker, 2015 American Transplant Congress, Pennsylvania Convention Center, Philadelphia, Pennsylvania, Minorities and Transplantation: Reducing Disparities in Donation and Access, May 2015.

Invited Speaker, Northwestern University Transplant Outcomes Research Collaborative (NUTORC), AOSC & Summer Student Lecture, Chicago, Illinois, Hispanic Transplant Program - Cultural Competency in Transplantation, July 2015.

Publications

Salvalaggio PR, Caicedo JC, de Albuquerque LC, Contreras A, Garcia VD, Felga GE, Maurette RJ, Medina-Pestana JO, Niño-Murcia A, Pacheco-Moreira LF, Rocca J, Rodriguez-Davalos M, Ruf A, Caicedo Rusca LA, Vilatoba M. Liver Transplantation in Latin America: The State of the Art and Future Trends. *Transplantation*. 2014 Aug; 98(3): 241-6.

Gordon EJ, Feinglass J, Carney P, Vera K, Martinez S, Olivero M, Black A, O'Connor K, MacLean J, Sageshima J, Preczewski L, Caicedo JC, A Culturally Competent Website for Hispanics/Latinos about Living Kidney Donation and Transplantation: A Randomized Controlled Trial of Increased Knowledge. *Transplantation*, 2015 June.

Salem R, Vouche M, Baker T, Herrero JI, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlastos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L, Pretransplant Portal Vein Recanalization -Transjular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*, 2015 April.

Gordon EJ, Feinglass J, Carney P, Ramirez D, Olivero M, O'Connor K, MacLean J, Brucker J, Caicedo JC, An interactive, bilingual, culturally targeted website about living kidney donation and transplantation for Hispanics: development and formative evaluation. *JMIR Res Protoc*, 2015 April: 4(2): e42.

Tara Breslin, MD

Publications

Breslin TM, Waldinger M, Silver SM. University of Michigan Comprehensive Cancer Center opportunities for improvement project. *Clin J Natl Compr Canc Netw*. 2014 Feb;12 Suppl 1:S19-20. PMID: 24614046

Hammelef KJ, Friese CR, Breslin TM, Riba M, Schneider SM. Implementing distress management guidelines in ambulatory oncology: a quality improvement project. *Clin J Oncol Nurs*. 2014;18 Suppl:31-6. doi: 10.1188/14.CJON.S1.31-36. PMID:24480661

Susan E. Clare, MD

Presentations

Keynote speaker. 13th Tübinger Airport Meeting, "The effect of dedicated breast surgeons on outcomes in breast cancer: do numbers matter?," Stuttgart, Germany, January 24, 2015.

Invited speaker. Ecole Polytechnique Fédérale (EPFL), "Transcriptome Sequencing of the Normal Breast: Effects of the Menstrual Cycle, BRCA Mutations and Inflammation", Lausanne, Switzerland, January 26, 2015

Publications

Khodr ZG, Sherman ME, Pfeiffer RM, Gierach GL, Brinton LA, Falk RT, Patel DA, Linville LM, Papatomas D, Clare SE, Visscher DW, Mies C, Hewitt SM, Storniolo AM, Rosebrock A, Caban JJ, Figueroa JD. Circulating sex hormones and terminal duct lobular unit involution of the normal breast. *Cancer Epidemiol Biomarkers Prev*. 2014 Dec;23(12):2765-73.

Faculty Honors/Awards/Publications

Doherty EF, MacGeorge EL, Gillig T, Clare SE. Motivations, concerns, and experiences of women who donate normal breast tissue. *Cancer Epidemiol Biomarkers Prev.* 2015 Jan;24(1):105-10.

Figuroa JD, Pfeiffer RM, Patel DA, Linville L, Brinton LA, Gierach GL, Yang XR, Papathomas D, Visscher D, Mies C, Degnim AC, Anderson WF, Hewitt S, Khodr ZG, Clare SE, Storniolo AM, Sherman ME. Terminal duct lobular unit involution of the normal breast: implications for breast cancer etiology. *J Natl Cancer Inst.* 2014 Oct 1;106(10).

Mark Cohen, MD

Publications

Rajaram R, Chung J. W., Cohen, M. E., Dahlke, A. R., Yang, A., Meeks, J. J., Ko, C. Y., Tarpley, J. L., F. R., Hoyt, D. B., Bilimoria, K. Y. Association of the 2011 ACGME resident duty hour reform with postoperative patient outcomes in surgical specialties. *Journal of the American College of Surgeons*, (epub ahead of print).

Cohen, M. E., Hall, B. L., Liu, Y., Ko, C. Y. Evaluating the benefits of ACS NSQIP. *Annals of Surgery* Apr 2015 (epub ahead of print).

Wakeam, E., Hyder, J. A., Lipsitz, S. R., Cohen, M. E., Orgil, D. P., Sinner, M. J., Co, C.Y., Hall, B. L., Finlayson, S. R. Hospital-level variation in secondary complications after surgery. *Annals of Surgery* Apr 2015 (epub ahead of print).

Spolverato, G, Ejaz, A., Kim, Y., Hall, B. L., Bilimoria, K., Cohen, M., Ko, C., Pitt, H., Pawlik, T.M. Patterns of care among patients undergoing hepatic resection: a query of the National Surgical Quality Improvement Program-targeted hepatectomy database. *Journal of Surgical Research* March 2015 (epub ahead of print).

Stey, A. M., Kenny, B. D., Moss, R. L., Berman, L., Cohen, M. E., Kraemer, K., Ko, C. Y., Vinocur, C. D. A risk calculator predicting postoperative adverse events in neonates undergoing major abdominal or thoracic surgery. *Journal of Pediatric Surgery* March 2015 (epub ahead of print).

Mohanty, S., Liu, Yaoming., Paruch, J. L. Kmiecik, T. E., Cohen, M.E, Ko, C.Y., Bilimoria, K. Y. Risk of discharge to postacute care: A patient-centered outcome for the American College of Surgeons National Quality Improvement Program surgical risk calculator. *JAMA Surgery* 2015; 150, 480-484.

Cohen, M.E, Liu, Y., Ko, C.Y., Hall, B.L. Improved surgical outcomes for ACS NSQIP hospitals over time: Evaluation of hospital cohorts with up to 8 years of participation. *Annals of Surgery*, Feb 2015 (epub ahead of print)

Huffman, K.M., Cohen, M.E, Ko, C.Y., Hall, B.L. A comprehensive evaluation of statistical reliability in ACS NSQIP profiling models. *Annals of Surgery*, 2015, 261, 1108-1113

Ko, C. Y., Hall, B. L., Hart, A. J., Cohen, M.E, Hoyt, D. B. The American College of Surgeons National Surgical Quality Improvement Program: Achieving Better and Safer Quality. *The Joint Commission Journal on Quality and Patient Safety* 2015, 41, 199-2014.

Merkow, R. P., Ju, M. H., Chung, J. W., Hall, B.L., Cohen, M.E, Williams, M. V., Tsai, T. C., KO, C.Y., Bilimoria, K.Y., Underlying reasons associated with hospital readmission following surgery in the United States. *Journal of the American Medical Association*, 2015, 313, 483-495.

Rajaram R, Chung J. W., Jones, A. T., Cohen, M. E., Dahlke, A. R., Ko, C. Y., Tarpley, J. L., Lewis, F. R., Hoyt, D. B., Bilimoria, K. Y. Association of the 2011 ACGME resident duty hour reform with general surgery patient outcomes and with resident examination performance. *Journal of the American Medical Association*, 2014; 312, 2374-2384.

Ju, M. H. Cohen, M. E., Bilimoria, K. Y., Latus, M. S., Scholl, L. M., Schwab, B. J., Byrd, C. M., Ko, C. Y., Dellinger, E. P., Hall, B. L. Effect of wound classification on risk-adjustment in American College of

Surgeons NSQIP. *Journal of the American College of Surgeons*, 2014, 219, 371-381.

Malcolm DeCamp, MD

Honors/Awards

2014-Board of Directors American Lung Association of the Upper Midwest

2013-15 PI Excellence in Academic Medicine (EAM) Award \$ 1,422,222 "Lung Transplantation" Illinois Department of Healthcare and Family Services (IDHFS) and Northwestern Memorial Hospital (NMH)

Presentations

2014 Chicago LIVE: Practical Advances in Gastrointestinal Endoscopy: Chicago, IL A Case Based Approach Debate: T1 Esophageal Cancer: Endoscopic Eradication Therapy vs. Surgery

2014 Chicago Multidisciplinary Symposium in Thoracic Oncology Chicago, IL

Choice of Minimally-invasive Technique and Extent of Resection 2014 Highlights from ASCO, ASTRO and STS

2014STS Advances in Quality and Outcomes (AQO) Chicago, IL General Thoracic Surgery Database/Esophageal Cancer

2014 2nd Vesuvian Interactive Course Naples, Italy "Wedge Resection for Stage I Lung Cancer"

2015 Advances in the Management of Severe COPD and Emphysema Chicago, IL Lung Volume Reduction Surgery 2015 Medical Grand Rounds, St. Francis Hospital Evanston, IL "Detection, Diagnosis and Treatment of Lung Cancer: What's New?"

Publications

Varlotto J, DeCamp MM, Flickinger J, Lake J, Recht A, Belani C, Reed M, Toth J, Mackley H, Sciamanna C, Lipton A, Ali S, Mahraj R, Gilbert C, Yao N. Would screening for lung cancer benefit 75- to 84-year-old residents of the United States? *Front. Oncol.* 2014; 4:37.

Villa C, Cagle PT, Johnson M, Patel JD, Yeldandi AV, Raj R, DeCamp MM, Raparia K. Correlation of EGFR Mutation Status With Predominant Histologic Subtype of Adenocarcinoma According to the New Lung Adenocarcinoma Classification of the International Association for the Study of Lung Cancer/American Thoracic Society/European Respiratory Society. *Arch Pathol Lab Med* 2014 Oct;138(10):1353-7.

Queisser M, Dada L, Deiss-Yehiely N, Angulo M, Zhou G, Kouri F, Knab L, Liu J, Stegh A, DeCamp MM, Budinger S, Chandel N, Ciechanover A, Iwai K, Sznajder J. HOIL-1L functions as the PKC ζ ubiquitin ligase to promote lung tumor growth. *Am J Resp Crit Care Med* 2014 Sep 15;190(6):688-98.

Varlotto JM, Yao AN, DeCamp MM, Ramakrishna S, Recht A, Flickinger J, Andrei A, Reed MF, Toth JW, Fitzgerald JJ, Higgins K, Zheng X, Shelkey J, Medford-Davis LN, Belani C, Kelsey CR. Nodal stage of surgically resected non-small cell lung cancer and its effect on recurrence patterns and overall survival. *Int J Radiat Oncol Biol Phys.* 2015 Mar 15;91(4):765-73.

A. Bharat, S. Cunningham, G. R. S. Budinger, D. Kreisler, C. J. DeWet, A. E. Gelman, K. Waites, D. Crabb, L. Xiao, S. Bhorade, N. Ambalavanan, D. F. Dilling, E. M. Lowery, T. Astor, R. Hachem, A. S. Krupnick, M. M. DeCamp, M. G. Ison, R. Patel, Disseminated ureaplasma infection as a cause of fatal hyperammonemia in humans. *Sci. Transl. Med.* 7, 284re3 (2015).

Bharat A, Graf N, Cassidy E, Smith S, Gillespie C, Meyerson S, Sporn PH, Sznajder JI, DeCamp MM. Pleural Gas Analysis for Detection of Alveoleopleural Fistulae. *Ann Thorac Surg.* 2015 Jun;99(6):2179-82.

Phillips JD, Knab LM, Blatner NR, Haghi L, DeCamp MM, Meyerson SL, Heiferman MJ, Heiferman JR, Gounari F, Bentrem DJ, Khazaei K. Preferential expansion of pro-inflammatory Tregs in human non-small cell lung cancer. *Cancer Immunol Immunother.* 2015 Jun 6. [Epub ahead of print]

Rajaram R, Ju MH, Bilimoria KY, Ko CY, DeCamp MM. National evaluation of hospital readmission after pulmonary resection. *J Thorac Cardiovasc Surg.* 2015 May 21. [Epub ahead of print]

Kanter JA, Sun H, Chiu S, DeCamp MM, Sporn PH, Sznajder JI, Bharat A. Decreased CXCL12 is associated with impaired alveolar epithelial cell migration and poor lung healing after lung resection. *Surgery.* 2015 Jul 23. [Epub ahead of print]

Reviews

de Hoyos A, DeCamp MM. Surgery for Small Cell Lung Cancer. *Thorac Surg Clin.* 2014 Nov;24(4):399-409.

Corcoran JP, Wrightson JM, Belcher E, DeCamp MM, Feller-Kopman D, Rahman NM. Pleural infection: past, present, and future directions. *Lancet Respir Med.* 2015; 3: 563-77. Chapters

de Hoyos A, DeCamp M. Open Resection of Esophageal Leiomyoma and GIST. In *Master Techniques in Surgery: Esophageal Surgery*, Luketich JD editor. Wolters Kluwer: Philadelphia, PA. 2014. pp 329-341.

de Hoyos A, DeCamp M. Preoperative Smoking Cessation for Lung Resection Patients. In *Difficult Decisions in Thoracic Surgery*, Ferguson MK editor. Springer-Verlag: London 2014. pp 85-98.

de Hoyos A, DeCamp MM. Congenital Cysts of the Mediastinum: Bronchopulmonary Foregut Anomalies. In *Fishman's Pulmonary Diseases and Disorders*, 5th edition, Grippi M, Elias J, Fishman J, Kotloff R, Pack A, Senior R, eds. McGraw-Hill: New York, NY 2015. pp 1248-1258.

Feller-Kopman DJ, DeCamp MM. Interventional and Surgical Approaches to Lung Disease, in *Goldman's Cecil Medicine*, 25th Edition. Elsevier-Saunders, Philadelphia PA, 2016. pp 642-647.

Rajaram R, DeCamp MM. Injury to the Right Gastroepiploic Artery. In *Gastrointestinal Surgery: Management of Complex Perioperative Complications*, Pawlik TM, Maitheil SK, Merchant NB, eds. Springer: New York, NY 2015. Pp 93-100.

Editorials

McCarthy DP, DeCamp MM. Robotic lobectomy and the principles of technology diffusion. *Chest.* 2014 Dec 1;146(6):1425-6.

Gillespie CT, DeCamp MM. COUNTERPOINT: Should small-bore pleural catheter placement be the initial management for malignant pleural effusions? *No. Chest* 2015 July; 148(1):11-13.

Gillespie CT, DeCamp MM. Rebuttal from Drs. Gillespie and DeCamp. *Chest* 2015 July; 148(1):14-15.

Mark K. Eskandari, MD

Honors/Awards

US News & World Report "Best Doctors" 2014

Castle Connolly "Top Doctors" 2014, 2015

Elected to: American Heart Association/American Stroke Association; American Surgical Association; International Society for Vascular Surgery

Society for Vascular Surgery Clinical Practice Guidelines on Management of Abdominal Aortic Aneurysms Update Committee

W. L. Gore Conformable Excluder AAA trial, Data Safety Monitoring Board

Course Director, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11-13, 2014

Presentations

Morgan CE, Herm-Barabasz R, Rodriguez HE, Hoel AW, Eskandari MI. Incidence of acute lower extremity venous thrombosis after percutaneous EVAR. *Midwestern Vascular* 2014, Coralville, IA, September 4-6, 2014 (poster presentation).

Desai SS, Dua A, Eskandari MK, Lee CJ. Epidemiology of thoracoabdominal aortic aneurysm repairs in the United States from 1998 to 2011. *Midwestern Vascular* 2014, Coralville, IA, September 4-6, 2014.

Faculty Honors/Awards/Publications

Yoon DY, Eskandari MK. Explant of endovascular aortic aneurysm repair graft. ACS Clinical Congress 2014, San Francisco, CA, October 26-30, 2014 (Video-based Education Session).

Ju MH, Eskandari MK, Pearce WH, Bilimoria KY, Ko CY, Hall BL, Nguyen LL. Carotid endarterectomy outcomes at teaching and non-teaching hospitals: ACS-NSQIP procedure-related analysis. ACS Clinical Congress 2014, San Francisco, CA, October 26-30, 2014.

Zamor KC, Eskandari MK, Rodriguez HE, Morasch MD, Hoel AW. Outcomes of thoracic endovascular aortic repair and subclavian revascularization techniques. Western Surgical Association 2014 Annual Meeting, Indian Wells, CA, November 8-11, 2014.

Tomita TM, Hoel AW, Rodriguez HE, Eskandari MK, Kibbe MR, Pearce WH. Vascular Ehlers-Danlos syndrome: a lethal disease despite low initial perioperative mortality. Association of International Vascular Surgeons, Big Sky, MT, March 18, 2015.

Publications

Rambachan A, Smith TR, Saha S, Eskandari MK, Bendok B, Kim JY. Reasons for readmission after carotid endarterectomy. *World Neurosurg* 2014;82:3771-3776. PMID 23973514

Carr ML, Giri S, Zuehlsdorff S, Flanagan O, Rodriguez HE, Eskandari MK, Collins JD, Edelman RR, Carr JC. QISS non-contrast MR angiography: A study of three cases with peripheral vascular disease. *MAGNETOM Flash* (www.siemens.com/magnetom-world) 5/2014, 72-77.

Fokkema M, Vrijenhoek JEP, Den Ruijter HM, Groenewold RHH, Schermerhorn ML, Bots ML, Pasterkamp G, Moll FL, De Borst GJ, on behalf of the TREAT CARE Study Group. Stenting versus endarterectomy for restenosis following prior ipsilateral carotid endarterectomy: An individual patient data meta-analysis. *Ann Surg* 2014 Jun 27 (epub ahead of print). PMID 24979605

Morgan CE, Lee CJ, Chin JA, Eskandari MK, Morasch MD, Rodriguez HE, Helenowski IB, Kibbe MR. High-risk anatomic variables and plaque characteristics in carotid artery stenting. *Vasc Endovascular Surg* 2014;48:452-459.

Vavra AK, Eskandari MK. Treatment options for symptomatic carotid stenosis: Timing and approach. *The Surgeon* 2015;13:44-51.

Morgan CE, Herm-Barabasz R, Rodriguez HE, Hoel AW, Eskandari MK. Incidence of acute lower extremity venous thrombosis after percutaneous endovascular aneurysm repair. *J Vasc Surg* 2015;62:351-354.

Kumar HR, Rodriguez HE, Eskandari MK. Mid-term outcomes of self-expanding covered stent grafts for repair of popliteal artery aneurysms. *Surgery* 2015;157:874-880.

Jonathan Fryer, MD

Presentations

Fryer J. Training the Next Generation of Transplant Physicians and Surgeons. 2014; Seattle, WA

Publications

Salem R, Vouche M, Baker T, Herrero JI, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlostos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization-Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*. 2015 Apr 22. [Epub ahead of print] PubMed PMID: 25905983.

Meyerson SL, Teitelbaum EN, George BC, Schuller MC, DaRosa DA, Fryer JP. Defining the autonomy gap: when expectations do not meet reality in the operating room. *J Surg Educ*. 2014 Nov-Dec;71(6):e64-72. doi: 10.1016/j.j Surg Educ. 2014.05.002. Epub 2014 Jun 10. PubMed PMID: 24924583.

George BC, Teitelbaum EN, Meyerson SL, Schuller MC, DaRosa DA, Petrusa ER, Petito LC, Fryer JP. Reliability, validity, and feasibility of the Zwisch scale for the assessment of intraoperative performance. *J Surg Educ*. 2014 Nov-Dec;71(6):e90-6. doi: 10.1016/j.j Surg Educ. 2014.06.018. Epub 2014 Sep 3. PubMed PMID: 25

Kathleen L. Grady, PhD

Presentations

Invited speaker and second week faculty: Quality of Life Research in Cardiovascular Disease. 40th Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease, American Heart Association & Centers for Disease Control. Lake Tahoe, CA, August, 2014.

Invited speaker and second week faculty: Cardiovascular Quality of Care and Outcomes Research. 40th Ten-Day Seminar on Epidemiology and Prevention of Cardiovascular Disease, American Heart Association & Centers for Disease Control. Lake Tahoe, CA, August, 2014.

Invited speaker: Quality of Life and Heart Transplantation. Adult Congenital Heart Association 7th National Conference. Chicago, IL. September, 2014.

Invited speaker: Considering Risk for Outcomes Other than Survival. Heart Failure Society of America. Las Vegas, NV. September, 2014.

Invited plenary session speaker: Living with Heart Failure: Patient, Physician, Surgeon, and Nurse Perspectives. American Heart Association, Scientific Sessions, Chicago, IL. November, 2014.

Invited speaker: Change in HRQOL from before to after MCS by Disease Severity and Age: Analyses from INTERMACS. MYLVAD/ICCAC Journal Club. Webinar. December, 2014.

Invited speaker: Quantifying the impact of adverse events on HRQOL early after implant. INTERMACS 9th Annual Meeting, Baltimore, MD. May, 2015.

Invited speaker: Ethical issues in advanced heart disease: The cost of success. Success with Failure: Advanced Heart Disease Symposium. Cedars Sinai Heart Institute, Long Beach, CA. May, 2015.

Publications

Mulla I, Schmidt K, Cashy J, Wallia A, Andrei AC, Oakes DJ, Aleppo G, Li C, Grady KL, McGee E, Molitch M. Comparison of glycemic and surgical outcomes after change in glycemic targets in cardiac surgery patients. *Diabetes Care* 2014 Nov;37(11):2960-5.

White-Williams C, Grady KL, Fazeli P, Myers S, Moneyham L, Meneses K, Rybarczyk B. The partial mediation effect of satisfaction with social support and coping effectiveness on health-related quality of life and perceived stress long-term after heart transplantation. *Nursing: Research and Reviews* 2014;4:129-134.

Peterson E, Ho M, Barton M, Beam C, Burgess LH, Casey D, Drozda J, Fonarow G, Goff D, Grady KL, King D, King M, Masoudi F, Nielsen D, Stanko S. ACC/AHA/AACVPR/AAFP/ANA Concepts for Clinician-Patient Shared Accountability in Performance Measures: A Report of the American College of Cardiology/American Heart Association Task Force on Performance Measures. *Circulation* 2014 Nov 25;130(22):1984-1994.

Grady KL, Naftel D, Myers S, Dew MA, Weidner G, Idrissi K, Lee HB, McGee E, Kirklin J. Change in health-related quality of life from before to after destination therapy mechanical circulatory support is similar for older and younger patients: Analyses from INTERMACS. *J Heart Lung Transplant* 2015;34:213-221.

Coleman B, Blumenthal N, Currey J, Dobbels F, Velleca A, Grady KL, Gugler C, Murks C, Ohler L, Sumbi C, Luu M, Dark J, Kobashigawa J, White-Williams C. Adult Cardiothoracic Transplant Nursing: An ISHLT Consensus Document on the Current Adult Nursing Practice in Heart and Lung Transplantation. *J Heart Lung Transplant* 2015;34:139-148.

Cook Jen, Grady KL, Colvin M, Joseph S, Brisco M, Walsh M. Sex differences in the Care of Patients with Advanced Heart Failure. *Circulation: Cardio-vasc Qual Outcomes* 2015 Mar;8(2 Suppl 1):S6-9.

Grady KL, Magasi S, Hahn EA, McGee EC, Yancy C. Health-related Quality of Life in Mechanical Circulatory Support: Development of a New Conceptual Model and Items for Self-Administration. *J Heart Lung Transplant* 2015 May 4. pii: S1053-2498(15)01206-1. doi: 10.1016/j.healun.2015.04.003. [Epub ahead of print]

Nora Hansen, MD

Honors/Awards

Promoted to Professor of Surgery, Feinberg School of Medicine August 2015

Castle Connolly Top Doctors for Cancer June 2014

Castle Connolly Best Doctors in America July 2015/16

Castle Connolly Top Doctor in Newsweek Health: Top Cancer Doctors

Presentations

Controversies in Local Therapy of Early Stage Breast Cancer – Case based discussion, 15th Annual Lynn Sage Breast Cancer Symposium, Chicago, IL, October 11, 2014.

Northwestern University, Feinberg School of Medicine, Department of Surgery, Decision Making Lecture, Breast Disease, Chicago, IL, October 23, 2014.

How to Implement a High Risk Breast Cancer Program at your Institution, American College of Surgeons 2014 Clinical Congress, San Francisco, CA October 25, 2014.

Impact of the ACSOGO Z001 Randomized Trial on the Number of Axillary Nodes Removed for Early Stage. Discussant, Western Surgical Association Annual Meeting, Indian Wells CA, November 10, 2014

Indications for ALND in Breast Cancer. Feinberg School of Medicine, Northwestern University, General Surgery Conference Lectures Series. Chicago, IL, January 15, 2015

Discussant: Central Surgical Association 2015 Annual Meeting, Patient and Tumor Characteristics are not predictive of malignant and high risk pathology in contralateral mastectomy specimens. Chicago, IL, March 5, 2015.

Neoadjuvant Therapy in the Modern Era. Society of Surgical Oncology 68th Annual Meeting, Houston, TX, March 26,

Publications

Sex-based biomedical research policy needs an implementation plan. Woodruff TK, Green S, Paller A, Schlosser BJ, Spring B, Castle M, Stock MC, Carnethon MR, Clark CT, Gerard E, Turek FW, Wisner KL, Wakschlag LS, Kibbe MR, Mendelson MA, Simon MA, Hansen NM, Kenton K, Garcia PM, Zee P, Ramsey-Goldman R, Sutton SH, Van Horn L. *Womens Health (Lond Engl)*. 2015 Jul;11(4):449-52. doi: 10.2217/WHE.15.28. Epub 2015 Aug 3. No abstract available. PMID:26237204

Impact of Postoperative Antibiotic Prophylaxis Duration on Surgical Site Infections in Autologous Breast Reconstruction. Drury KE, Lanier ST, Khavanin N, Hume KM, Gutowski KA, Thornton BP, Hansen NM, Murphy RX Jr, Fine NA, Kim JY. *Ann Plast Surg*. 2015 Jun 20. [Epub ahead of print] PMID: 26101972

Phase II neoadjuvant clinical trial of carboplatin and eribulin in women with triple negative early-stage breast cancer (NCT01372579). Kaklamani VG, Jeruss JS, Hughes E, Siziopikou K, Timms KM, Gutin A, Abkevich V, Sangale Z, Solimeno C, Brown KL, Jones J, Hartman AR, Meservey C, Jovanovic B, Helenowski I, Khan SA, Bethke K, Hansen N, Uthe R, Giordano S, Rosen S, Hoskins K, Von Roenn J, Jain S, Parini V, Gradishar W. *Breast Cancer Res Treat*. 2015 Jun;151(3):629-38. doi: 10.1007/s10549-015-3435-y. Epub 2015 May 26. PMID: 26006067

Faculty Honors/Awards/Publications

Evaluation of the stage IB designation of the American Joint Committee on Cancer staging system in breast cancer. Mittendorf EA, Ballman KV, McCall LM, Yi M, Sahin AA, Bedrosian I, Hansen N, Gabram S, Hurd T, Giuliano AE, Hunt KK. *J Clin Oncol*. 2015 Apr 1;33(10):119-27. doi: 10.1200/JCO.2014.57.2958. Epub 2014 Dec 8. PMID: 25488970

A randomized phase II presurgical trial of transdermal 4-hydroxytamoxifen gel versus oral tamoxifen in women with ductal carcinoma in situ of the breast. Lee O, Page K, Ivancic D, Helenowski I, Parini V, Sullivan ME, Margenthaler JA, Chatterton RT Jr, Jovanovic B, Dunn BK, Heckman-Stoddard BM, Foster K, Muzzio A, Shklovskaya J, Skripkauskas S, Kulesza P, Green D, Hansen NM, Bethke KP, Jeruss JS, Bergan R, Khan SA. *Clin Cancer Res*. 2014 Jul 15;20(14):3672-82. doi: 10.1158/1078-0432.CCR-13-3045. PMID: 25028506

Differential impact of non-insulin-dependent diabetes mellitus and insulin-dependent diabetes mellitus on breast reconstruction outcomes. Qin C, Vaca E, Lovecchio F, Ver Halen JP, Hansen NM, Kim JY. *Breast Cancer Res Treat*. 2014 Jul;146(2):429-38. doi: 10.1007/s10549-014-3024-5. Epub 2014 Jun 25. PMID: 24961932

Commentary on the Canadian National Breast Screening study. Van Zee KJ, Hansen NM, Barrio AV, Connor CS, Danforth DN, Euhus DM, Kulkarni SA, McCready DR, McLaughlin S, Wilke LG. *Ann Surg Oncol*. 2014 Dec;21(13):4397-8. doi: 10.1245/s10434-014-3789-0. Epub 2014 May 24. PMID: 24859935

Individualized risk of surgical-site infection: an application of the breast reconstruction risk assessment score. Kim JY, Khavanin N, Jordan SW, ver Halen JP, Mlodinow AS, Bethke KP, Khan SA, Hansen NM, Losken A, Fine NA. *Plast Reconstr Surg*. 2014 Sep;134(3):351e-362e. doi: 10.1097/PRS.000000000000439. PMID: 24814422

Book Chapters
Hansen, NM, Paget's Disease. Harris JR, Lippman ME, Morrow, M, Osborne CK, (eds.) in *Diseases of the Breast 5th Ed.* Lippincott, Williams & Wilkins, New York, 838-846, 2014.

Hansen, NM, Breast Lesion Localization. Fong Y (ed) in *The Modern Operating Room: Changing Role of Imaging and Visualization in Surgery.* Springer, New York. 225-234, 2015

Karen J. Ho , MD

Honors/Awards

Association of Academic Surgery, Active Member
Publications Committee, 2014-2016

Simpson Querrey Institute for BioNanotechnology in Medicine, Member

American Heart Association, Member

Midwestern Vascular Surgical Society

Society for Vascular Surgery

Presentations

How important are angiosomes for lower extremity revascularization? Northwestern Vascular Symposium, Chicago, IL, December 12, 2014

The role of the gut microbiome in cardiovascular disease. Northwestern Memorial Hospital General Surgery Grand Rounds, Chicago, IL, February 19, 2015

Reducing amputations with lower extremity revascularization: Vein bypass graft remodeling and surveillance, Northwestern Medicine Ultrasound CME Conference, Chicago, IL, February 28, 2015

Ho KJ (presenter), Xiong L, Hubert NJ, Nadimpalli A, Chang EB, Kibbe MR. Gut microbial-derived sodium butyrate modulates neointimal hyperplasia after arterial injury. SVS Research Initiatives in Vascular Disease Conference, San Francisco, CA, May 6, 2015.

Publications

Tsugawa D, Oya Y, Masuzaki R, Ray KC, Engers DW, Dib M, Do N, Kuramitsu K, Ho KJ, Frist A, Yu PB, Bloch KD, Lindsley CW, Hopkins CR, Hong CC,

Karp SJ. Specific activin receptor-like kinase 3 inhibitors enhance liver regeneration. *J Pharmacol Exp Ther*. 2014;351(3):549-58.

Sharma G, Semel ME, McGillicuddy EA, Ho KJ, Menard MT, Gates JD. Ruptured and unruptured mycotic superior mesenteric artery aneurysms. *Ann Vasc Surg*. 2014; 28(8):1931.

Zamor KC, Eskandari MK, Rodriguez HE, Ho KJ, Morasch MD, Hoel AW. Outcomes of Thoracic Endovascular Aortic Repair and Subclavian Revascularization Techniques. *J Am Coll Surg*. 2015 Mar 11. Epub ahead of print.

Andrew Hoel, MD

Honors/Awards

2014-2015 Excellence in Teaching in the Surgery Clerkship Award, Northwestern University

Presentations

DeMartino RR, Hoel AW, Beck AW, Hallett JW, Arya S, Upchurch GH, et al. Antiplatelet and statin treatment is not associated with reduced myocardial infarction after high risk vascular procedures. Presented at Southern Association for Vascular Surgery Annual Meeting. Scottsdale, AZ. Jan 14-17, 2015.

Arous EJ, Simons JP, Flahive JM, Beck AW, Stone DH, Hoel AW, et al. National variation in preoperative imaging, duplex ultrasound criteria, and intervention threshold for asymptomatic carotid artery stenosis. Presented at the 43rd Annual Symposium on Vascular Surgery. Miami Beach, FL. Mar 29-Apr 2, 2015.

Tomita TM, Rodriguez HE, Hoel AW, Ho KJ, Pearce WH, Eskandari MK. Vascular surgery assistance in the operating room: A crucial hospital asset. Presented at the Vascular Annual Meeting. Chicago, IL, June 17, 2015.

Suckow BD, Schanzer A, Hoel AW, Wyers MC, Marone L, Veeraswamy RK, Nolan BW. A novel quality of life instrument for patients with abdominal aortic aneurysm. Presented at the Vascular Annual Meeting. Chicago, IL, June 18, 2015.

Publications

DeMartino RR, Hoel AW, Beck AW, Hallett JW, Arya S, Upchurch GH, et al. Antiplatelet and statin treatment is not associated with reduced myocardial infarction after high-risk vascular procedures. *Journal of vascular surgery*. 2014;60(6):1721.

Arous EJ, Simons JP, Flahive JM, Beck AW, Stone DH, Hoel AW, et al. National variation in preoperative imaging, carotid duplex ultrasound criteria, and threshold for surgery for asymptomatic carotid artery stenosis. *Journal of vascular surgery*. 2015.

De Martino RR, Hoel AW, Beck AW, Eldrup-Jorgensen J, Hallett JW, Upchurch GR, et al. Participation in the Vascular Quality Initiative is associated with improved perioperative medication use, which is associated with longer patient survival. *Journal of vascular surgery*. 2015;61(4):1010-9.

Giles KA, Fillingner MF, De Martino RR, Hoel AW, Powell RJ, Walsh DB. Results of transcaval embolization for sac expansion from type II endoleaks after endovascular aneurysm repair. *Journal of vascular surgery*. 2015;61(5):1129-36.

Schneider JR, Helenowski IB, Jackson CR, Verta MJ, Zamor KC, Patel NH, et al. A comparison of results with eversion versus conventional carotid endarterectomy from the Vascular Quality Initiative and the Mid-America Vascular Study Group. *Journal of vascular surgery*. 2015;61(5):1216-22.

Zamor KC, Eskandari MK, Rodriguez HE, Ho KJ, Morasch MD, Hoel AW. Outcomes of Thoracic Endovascular Aortic Repair and Subclavian Revascularization Techniques. *Journal of the American College of Surgeons*. 2015;221(1):93-100.

Seok Jong Hong , MD

Presentations

Invited presenter. Epidermal regulation of scarring. The 13th Annual symposium of Wound healing: Science + Industry. June 27-30, 2014, Caribe Hilton, San Juan, Puerto Rico.

Publications

Chavez-Munoz C, Nyugen K, Xu W, Hong S.J, Mustoe T.A, Galiano R.D Transdifferentiation of adipose-derived stem cells into keratinocyte-like cells: engineering a stratified epidermis. *PLOS One* 2013; 8:e80587

Wei Xu, Shengxian Jia, Ping Xie, Aimei Zhong, Robert D. Galiano, Thomas A. Mustoe, and Seok Jong Hong. (2014) The expression of Proinflammatory Genes in Epidermal Keratinocytes is Regulated by Hydration Status. *J Invest Dermatol*. 134(4):1044-55

Jordan Steinberg, Anandev N. Gurjala, Shengxian Jia, Seok Hong, Robert Galiano, Thomas Mustoe (2014) Evaluating the Effects of Subclinical, Cyclic Ischemia-Reperfusion Injury on Wound Healing Using a Novel Device in the Rabbit Ear. *Ann Plast Surg* 72 (6):698-705

Matthias D. Hofer, Earl Y. Cheng, Matthey I. Bury, Eugene Park, Wei Xu, Seok Jong Hong, William E. Kaplan, and Arun K. Sharma. (2014) Analysis of Primary Urethral Wound Healing in the Rat, *Urology*. 84(1):246.e1-7

Kai P Leung, Peter D'Arpa, Akhil K Seth, Matthew R Geringer, Marti Jett, Wei Xu, Seok J Hong, Robert D Galiano, Tsute Chen and Thomas A Mustoe. (2014) Dermal Wound Transcriptomic Responses to Infection with *Pseudomonas aeruginosa* versus *Klebsiella pneumoniae* in a Rabbit Ear Wound Model. *BMC Clin Pathol*. 14:20

Christina Rettinger, Andrea Fourcaudot, Seok Hong, Thomas Mustoe, Robert Hale, Kai Leung. In Vitro Characterization of Scaffold-Free Three-Dimensional Mesenchymal Stem Cell Aggregates. *Cell Tissue Res*. in press.

Seok Jong Hong*, Eugene Park, Wei Xu, Shengxian Jia, Robert D. Galiano, and Thomas A. Mustoe. Response of human mature adipocytes to hypoxia-reoxygenation. *Cytherapy*. * Co-corresponding author. Accepted

Eric Hungness, MD

Honors/Awards

2014 Excellence in Teaching Award, Northwestern University Department of Surgery

The Mechanics of Symptom Generation in Dysphagia. *2014 Research Roundtable*. Co-investigator Date of Award: August 8, 2014 \$336,038

Presentations

Laparoscopic Common Bile Duct Simulator Project, Speaker, Surgical Outcomes Club 10th Annual Scientific Session, San Francisco, October 26, 2014.

Natural Orifice Transluminal Endoscopic Surgery Transgastric and Transvaginal Approaches, Speaker, Operative Access: What's Proven, What's Not Session, American College of Surgeons Clinical Congress, San Francisco, October 27, 2014?

Has Heller Myotomy Been Replaced by POEM (Peroral Endoscopic Myotomy) for Achalasia? American College of Surgeons Clinical Congress, San Francisco, October 30, 2014.

POEM for Achalasia. Loyola General Surgery Grand Rounds, Maywood, IL, March 18, 2015.

Physiology of POEM. NOscar 10th annual meeting, Chicago, IL, July 10, 2015.

Luo RB, Teitelbaum EN, Soper NJ and Hungness ES. Elective Laparoscopic Transcystic Common Bile Duct Exploration. SAGES Video presentation, April 16, 2015, Nashville, TN.

Luo RB and Hungness ES. Laparoscopic Repair of Paraesophageal Hernia with Volvulized Antrum and

Faculty Honors/Awards/Publications

Duodenum. SAGES Video presentation, April 16, 2015, Nashville, TN.

El Khoury R, Sternbach J and Hungness ES. Esophagogastric junction distensibility measured by a functional lumen imaging probe with incremental gastric myotomy lengths in achalasia. SAGES Video presentation, April 16, 2015, Nashville, TN.

Teitelbaum EN, Sternbach JM, El Khoury RE and Hungness ES. The Effect of Incremental Distal Gastric Myotomy Lengths on Intraoperative EGJ Distensibility During POEM for Achalasia. SAGES podium presentation, April 16, 2015, Nashville, TN.

Publications

Hunter JG, Kahrilas PJ, Bell RC, Wilson EB, Trad KS, Dolan JP, Perry KA, Oelschlager BK, Soper NJ, Snyder BE, Burch MA, Melvin WS, Reavis K, Turgeon DG, Hungness ES, Diggs BS. Efficacy of Transoral Fundoplication vs Omeprazole for Treatment of Regurgitation in a Randomized Controlled Trial. *Gastroenterology*. 2014 Oct 13.

Khashab MA, Messallam AA, Onimaru M, Teitelbaum EN, Ujiki MB, Gitelis ME, Modayil RJ, Hungness ES, Stavropoulos SN, El Zein MH, Shiwaku H, Kunda R, Repici A, Minami H, Chiu PW, Ponsky J, Kumbhari V, Saxena P, Maydeo AP, Inoue H. International multicenter experience with peroral endoscopic myotomy for the treatment of spastic esophageal disorders refractory to medical therapy (with video). *Gastrointest Endosc*. 2015 May;81(5):1170-7.

Fisichella PM, DeMeester SR, Hungness E, Perretta S, Soper NJ, Rosemurgy A, Torquati A, Sachdeva AK, Patti MG. Emerging Techniques in Minimally Invasive Surgery. *Pros and Cons*. *J Gastrointest Surg*. 2015 Feb 13. [Epub ahead of print]

Teitelbaum EN, Sternbach JM, El Khoury R, Soper NJ, Pandolfino JE, Kahrilas PJ, Lin Z and Hungness ES. The effect of incremental distal gastric myotomy lengths on EGJ distensibility during POEM for achalasia. *Surg Endosc*. - 2015 Jun 20. [Epub ahead of print]

Lin Z, Carlson DA, Dykstra K, Sternbach J, Hungness E, Kahrilas PJ, Ciolino JD, Pandolfino JE. High-resolution impedance manometry measurement of bolus flow time in achalasia and its correlation with dysphagia. *Neurogastroenterol Motil*. 2015 Jun 18. [Epub ahead of print]

Baldrige AS, Pacheco JA, Aufox SA, Kim KA, Silverstein JC, Denham W, Hungness E, Smith ME, Allen NB, Greenland P, Rasmussen-Torvik LJ. Factors Associated With Long-Term Weight Loss Following Bariatric Surgery Using 2 Methods for Repeated Measures Analysis. *Am J Epidemiol*. 2015 Jun 18. [Epub ahead of print]

Kumbhari V, Tieu AH, Onimaru M, El Zein MH, Teitelbaum EN, Ujiki MB, Gitelis ME, Modayil RJ, Hungness ES, Stavropoulos SN, Shiwaku H, Kunda R, Chiu P, Saxena P, Messallam AA, Inoue H, Khashab MA. Peroral endoscopic myotomy (POEM) vs laparoscopic Heller myotomy (LHM) for the treatment of Type III achalasia in 75 patients: a multicenter comparative study. *Endosc Int Open*. 2015 Jun;3(3):E195-201. Epub 2015 Apr 13.

Hungness ES and Kahrilas PJ. Endoscopic Management of Achalasia. In Fisichella PM, Soper NJ, Pellegrini CA and Patti MG (eds): *Surgical Management of Benign Esophageal Disorders*, 1st edition. London, Springer-Verlag, 2014, 141-154.

Teitelbaum EN, Hungness ES. Laparoscopic Common Bile Duct Exploration. In: Halverson AL and Bergstrom DC (eds): *Advanced Surgical Techniques for Rural Surgeons*. 1st ed. New York, NY: Springer; 2014.

El Khoury R, Ramirez M, Hungness ES, Soper NJ, Patti MG. Symptom Relief After Laparoscopic Paraesophageal Hernia Repair Without Mesh. *J Gastrointest Surg*. 2015 Aug 5. [Epub ahead of print]

Khoury RE, Sternbach JM, Teitelbaum EN, Soper NJ, Hungness ES. Esophagogastric junction distensibility measured by a functional lumen imaging probe

with incremental gastric myotomy lengths in achalasia. *Surg Endosc*. 2015 Jul 23. [Epub ahead of print] No abstract available.

Sternbach JM, El Khoury R, Teitelbaum EN, Soper NJ, Pandolfino JE, Hungness ES. Early esophagram in per-oral endoscopic myotomy (POEM) for achalasia does not predict long-term outcomes. *Surgery*. 2015 Jul 17. pii: S0039-6060(15)00469-9. doi: 10.1016/j.surg.2015.05.023. [Epub ahead of print]

Catherine Hunter, MD

Honors/Awards

Claude H. Organ, Jr., MD, FACS, Traveling Fellowship Award, 2014-2015, American College of Surgeons, San Francisco, CA.

Presentations

Bean, J, Hunter, C. (2014, September). Hair Tourniquet Syndrome: An Institutional Review and Devised Treatment Algorithm. Oral, International Symposium of Pediatric Surgical Research, Toronto, CA. (my role senior author)

Bean, J, Kabre, R, Hunter, C. (2014, November). Isolated Traumatic Skull Fractures in the Pediatric Population: Is Inpatient Observation Necessary? Oral, Pediatric Trauma Society, Chicago, IL. (my role senior author)

Blackwood B, Wood D, Yuan C, Nicolas J, Hunter C. (2014 December). Lactobacillus Rhamnosus strengthens intestinal barrier function and tight junction integrity. Oral presentation (first prize). Chicago Surgical Society, Chicago, IL. (my role senior author)

Blackwood BJ, Wood D, Yuan C, Nicolas J, Hunter C. (2015 February). Protein Kinase A Inhibition Protects Against Experimental Necrotizing Enterocolitis. Oral presentation. American Surgical Congress, Las Vegas, NV. (my role senior author)

Blackwood B, Yuan C, Nicolas J, Wood D, Hunter C. (2015 April). Lactobacillus Probiotic Species Strengthen Intestinal Barrier Function and Tight Junction Integrity. Podium Presentation Surgical Infection Society. Westlake, CA. (my role senior author)

Hunter CJ, Blackwood B, Wood DR, Yuan CY. (2015 May). Defining the role of cAMP and protein kinase A in epithelial apoptosis and necrotizing enterocolitis. Podium Presentation, Digestive Disease Week, Washington, VA. (my role presenter and senior author)

Publications

Castle S, Mcelroy S, Bernard J, Pontarelli E, Hunter C, Ford HR, Frey M. The ErbB4 ligand neuregulin-4 protects against experimental necrotizing enterocolitis. *American Journal of Pathology*. September 2014. PMID: 25216938.

Bean J, Hebal F, Hunter C. A single center retrospective review of hair tourniquet syndrome and a proposed treatment algorithm. *Journal of Pediatric Surgery*. November 2014. PMID: 25783322.

Blackwood B, Farrow K, Kim S, Hunter CJ. Case Series: Peripherally Inserted Central Catheters Complicated by Vascular Erosion. *Journal of Parenteral and Enteral Nutrition*. February 2015.

Nabil Issa, MD

Honors/Awards

Promoted to Associate Professor of Surgery June, 2014

Elected Vice Chair for the Curriculum Committee at the Association for Surgical Education (ASE)- April, 2014

Named Second Vice Chair for the Chicago Committee on Trauma (CCOT)- December 2013

Presentations

Invited Speaker at the Surgical Education Week - 'Association for Surgical Education' annual meeting, Chicago, IL, April 22, 2014 Title of the Talk: "Surgical Subinternship- Towards An Evidence-Based Structure and Curriculum?"

Issa N, Swaroop M, Fryer J, McCarthy D, Wayne J, Meyerson S, DaRosa D. Surgery Boot Camp. *MedEd-Portal*, June, 2014: www.mededportal.org/publication/9820

Callese TE, Richards CT, Shaw P, Schuetz SJ, Issa N, Paladino L, Swaroop S. Layperson Trauma Education in Low and Middle Income Countries: A Review. *J Surg Res*. 2014 Jul;190(1):104-10.

Knab ML, Abuzeid A, Rodriguez H, Issa N. Thigh Compartment Syndrome in Urban Trauma Patients: Penetrating Injury, Not Fractures and Bruises. *J Surg Res*. 2013 Dec;185(2):748-52.

Seema Khan, MD

Presentations

Northwestern University, Feinberg School of Medicine Alumni Weekend. "Breast Cancer Prevention: More than Skin Deep." Chicago, IL, April 2015.

Breast Imaging Symposium. "Teamwork: Pre-op Imaging Needs of the Breast Surgeon." New Orleans, LA, February 2015.

Breast Imaging Symposium. "Current Perspective on Staging Breast MRI and Axillary Dissection." New Orleans, LA, February 2015.

Society of Surgical Oncology Annual Cancer Symposium. "Consensus Guideline on Margins for Breast-Conserving Surgery with Whole-Breast Irradiation in Stages I and II Invasive Breast Cancer." Miami Beach, FL, October 2014.

Mexican Society of Oncology 32nd National Congress. "Surgery of Primary Tumor for Metastatic Breast Cancer." Ixtap, Mexico, October 2014.

Lynn Sage Breast Cancer Symposium. "Surgery for the primary site in women with Stage IV breast cancer." Chicago, IL, September 2014.

Publications

Kaklamani VG, Jeruss JS, Hughes E, Siziopikou K, Timms KM, Gutin A, Abkevich V, Sangale Z, Solimeno C, Brown KL, Jones J, Hartman AR, Meservey C, Jovanovic B, Helenowski I, Khan SA, Bethke K, Hansen N, Uthe R, Giordano S, Rosen S, Hoskins K, Von Roenn J, Jain S, Parini V, Gradishar W. Phase II neoadjuvant clinical trial of carboplatin and eribulin in women with triple negative early-stage breast cancer (NCT01372579). *Breast Cancer Res Treat*. 2015 Jun;151(3):629-38. doi: 10.1007/s10549-015-3435-Y. Epub 2015 May 26. PMID:26006067

Patrick J, Khan SA. Surgical management of de novo stage IV breast cancer. *J Natl Compr Canc Netw*. 2015 Apr;13(4):487-93; quiz 493. Review. PMID: 25870383

Costello JC, Heiser LM, Georgii E, Gönen M, Menden MP, Wang NJ, Bansal M, Aammad-ud-din M, Hintsanen P, Khan SA, Mpindi JP, Kallioniemi O, Honkela A, Aittokallio T, Wennerberg K; NCI DREAM Community, Collins JJ, Gallahan D, Singer D, Saez-Rodriguez J, Kaski S, Gray JW, Stolovitzky G. A community effort to assess and improve drug sensitivity prediction algorithms. *Nat Biotechnol*. 2014 Dec;32(12):1202-12. doi: 10.1038/nbt.2877. Epub 2014 Jun 1. PMID: 24880487

Farr D, Khan SA. Local Therapy for Breast Cancer in the Molecular Era: Relevant or Relic? *Oncology (Williston Park)*. 2014 Nov 15;28(11). pii: 202389. Review. PMID: 25403626.

McCormick B, Ottesen RA, Hughes ME, Javid SH, Khan SA, Mortimer J, Niland JC, Weeks JC, Edge SB. Impact of guideline changes on use or omission of radiation in the elderly with early breast

Faculty Honors/Awards/Publications

cancer: practice patterns at national comprehensive cancer network institutions. *J Am Coll Surg*. 2014 Oct; 219(4):796-802. PMID: 25127504

Kim JY, Khavanin N, Jordan SW, ver Halen JP, Mlodinow AS, Bethke KP, Khan SA, Hansen NM, Losken A, Fine NA. Individualized risk of surgical-site infection: an application of the breast reconstruction risk assessment score. *Plast Reconstr Surg*. 2014 Sep;134(3):351e-362e. doi: 10.1097/PRS.000000000000439. PMID:24814422

Chatterton RT, Muzzio M, Heinz R, Gann PH, Khan SA. Methodological considerations in estrogen assays of breast fluid and breast tissue. *Steroids*. 2014 Aug 24. PMID: 25159105

Peng M, Emmadi R, Wang Z, Wiley EL, Gann PH, Khan SA, Banerji N, McDonald W, Asztalos S, Pham TN, Tonetti DA, Tyner AL. PTK6/BRK is expressed in the normal mammary gland and activated at the plasma membrane in breast tumors. *Oncotarget*. 2014 Aug 15;5(15):6038-48. PMID: 25153721

Melina Kibbe, MD

Honors/Awards

Deputy Director, Simpson Querrey Institute for BioNanotechnology, Northwestern University, Chicago, IL Simpson Querrey Institute for BioNanotechnology, Northwestern University, Resident Member

Member, Core Facilities Faculty Advisory Committee 2014-present Executive Committee, 2014-present Deputy Director, 2014-present Colombian Society of Surgery

Honorary Fellow (first female honorary fellow) National Institutes of Health

Member, Bioengineering, Technology and Surgical Sciences Study Section, Center for Scientific Review, 2015-2019

Permanent Member, Bioengineering, Technology and Surgical Sciences Study Section, Center for Scientific Review

2015- JAMA Surgery, Editor-in-Chief

Society for Vascular Surgery - Nominating Committee 2014 Chair VAM Poster Competition session, 2014-present Leadership Committee, Member 2014-present Foundation Development Committee, Member, 2015-2016

Association of VA Surgeons— President-elect, 2014-2015 President, 2015-present

Midwestern Vascular Surgical Society— President, 2014-present Outstanding Teacher in Surgery Clerkship, Northwestern University, Feinberg School of Medicine, 2014-15

Presentations

Introduction, Presidential Address, Donald Jacobs, 38th Annual Meeting Midwestern Vascular Surgical Society, Coralville, IA, September 5, 2014.

Introduction, Honorary Guest Lecture, Karl Bilimoria, 38th Annual Meeting Midwestern Vascular Surgical Society, Coralville, IA, September 6, 2014.

Participant, Stanford Gendered Innovations Workshop, Stanford University, Stanford, CA, September 19, 2014.

Panelist, "Building a Research Career, This is My Story," 25th Annual Fundamentals of Surgical Research Course, Association for Academic Surgery 2014 Fall Courses, Course, San Francisco, CA, October 24, 2014.

Panelist, Keys to Early Success, 10th Annual Career Development Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 25, 2014.

Panelist, Basic/Translational Science Breakout Sessions, 10th Annual Career Development Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 25, 2014.

Mentor, Basic/Translational Science, Small Group Sessions, 10th Annual Career Development Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 25, 2014.

Moderator, Vascular Surgery I, Surgical Forum, American College of Surgeons Clinical Congress, San Francisco, CA, October 27, 2014.

Co-Moderator, Controversies in Prevention of Carotid Artery Stroke, American Heart Association, 2014 Scientific Sessions, Chicago, IL, November 16, 2014.

Co-Moderator, Abstract Oral Session, Jay D. Coffman Early Career Investigator Award Winner, American Heart Association, 2014 Scientific Sessions, Chicago, IL, November 16, 2014.

Moderator, Next Best Thing in Cardiovascular Science (at Lightning Speed), American Heart Association, 2014 Scientific Sessions, Chicago, IL, November 19, 2014.

Moderator, Lower Extremity Venous Disease, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2014.

Panelist, Differences between Quality Improvement and Human Subjects Research. 10th Annual Academic Surgical Congress, Las Vegas, NV, February, 2, 2015.

Co-Moderator, Basic Science/Translational Plenary Session. 10th Annual Academic Surgical Congress, Las Vegas, NV, February, 3, 2015.

Panelist, Mock Study Section, AAS/SUS Surgical Investigators' Course, Las Vegas, NV, February 2, 2015.

Discussant, Prospective Randomized Double Blinded Trial Comparing Two Anti-MRSA Agents with Supplemental Coverage to Cefazolin Prior to Lower Extremity Revascularization. Scientific Session III, 135th American Surgical Association Annual Meeting, San Diego, CA, April 24, 2015.

Moderator, Quickshot D, 39th Annual Surgical Symposium of Association of VA Surgeons, Miami Beach, FL, May 4, 2015.

Introduction of Society President, 39th Annual Surgical Symposium of Association of VA Surgeons, Miami Beach, FL, May 4, 2015.

Keynote Speaker, "Sex bias in biomedical research", 2015 Resident Research Day Symposium, Baylor College of Medicine, Houston, TX, June 3, 2015.

Moderator, Femoropopliteal Restenosis Summit, 12th Annual C3 Conference, Orlando, FL, June 15, 2015.

Moderator, Concurrent Session: Using Emotional Intelligence to Deal with a Challenging Boss or Colleague, SVS Annual Meeting, Chicago, IL, June 17, 2015.

Moderator, Poster Competition, Society for Vascular Surgery, Vascular Annual Meeting, Chicago, IL, June 19, 2015.

Panelist, Development of a Novel Liquid Cast Biodegradable Arterial Stent, 12th Annual C3 Conference, Orlando, FL, June 16, 2015.

Panelist and Discussant: Prevalence of Extracranial Venous Narrowing on Catheter Venography in People with Multiple Sclerosis, Their Siblings, and Unrelated Healthy Controls: A Blinded, Case-Control Study. In: Beyond the Journal of Vascular Surgery: "Top Ten" Papers Relevant to Vascular Surgery, Society for Vascular Surgery Vascular Annual Meeting, Chicago, IL, June 20, 2015.

Moderator, Poster Run-Off: Championship Round, Society for Vascular Surgery, Vascular Annual Meeting, Chicago, IL, June 20, 2015.

Surgical Translational Research: One Surgeon's Journey. Surgery Grand Rounds, University of Chicago Pritzker School of Medicine, Chicago, IL, August 13, 2014.

How To Write and Revise a Manuscript for Peer-Review Publication, Surgical Grand Rounds, Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, September 8, 2014.

Special Session on Manuscript Preparation, 38th Annual Meeting Midwestern Vascular Surgical Society, Coralville, IA, September 6, 2014.

Why Choose Academic Surgery? Kick Off Lecture, 25th Annual Fundamentals of Surgical Research Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 24, 2014.

Transition from Laboratory to Industry, Basic and Translational Research II Session, 25th Annual Fundamentals of Surgical Research Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 24, 2014.

How to Align Yourself with the Right Mentors and Become a Mentor Yourself, 10th Annual Career Development Course, Association for Academic Surgery 2014 Fall Courses, San Francisco, CA, October 25, 2014.

The Challenges and Rewards of Translational Research: One Surgeon's Journey, William Silen Visiting Professor, Beth Israel Deaconess Medical Center, Boston, MA, November 5, 2014.

What's New with Stem Cell Research, 28th Nursing Conference on Selected Topics in Vascular Disease, Northwestern Medicine, Chicago, IL, November 7, 2014.

A Phase IIa Randomized Double-Blind, Placebo Controlled Study to Evaluate Plasmid Stromal Cell-Derived Factor-1 for Treatment of Critical Limb Ischemia, Peripheral Arterial & Venous Disease Session, American Heart Association Scientific Sessions, Chicago, IL, November 17, 2014.

Development of a Novel Targeted Intravascular Drug Delivery Therapy, Cardiovascular Biology Rounds, University of Washington, Seattle, WA, November 20, 2014.

The Physician-Scientist Training Program, Recruitment Lunch, Prentice Women's Hospital, Chicago, IL, December 4, 2014.

Utility of VTE Risk Assessment Tools, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11, 2014.

Development of a Novel Systemically Administered Targeted Drug-eluting Therapy to Prevent Restenosis. Division of Cardiology Grand Rounds, Northwestern University Feinberg School of Medicine, Chicago, IL, January 26, 2015.

Strategies for Success in the NIH System. AAS/SUS Surgical Investigators' Course, Las Vegas, NV, February 1, 2015.

The Mentor Statement. AAS/SUS Surgical Investigators' Course, Las Vegas, NV, February 1, 2015. Sex Bias in Research. Center for Comparative Medicine, Northwestern University, Chicago, IL February 6, 2015.

Porgy & Bess: Sex-related Disparities in Basic & Translational Pharmacology, ASCPT 2015 Annual Meeting, New Orleans, LA, March 6, 2015.

Vascular Disease in Women, Northwestern Memorial Hospital 8th Annual Women's Cardiovascular Health Symposium, Chicago, IL, May 1, 2015.

The Challenges and Rewards of Translational Research: One Surgeon's Journey, Thirteenth Annual Richard L. Simmons Lecture in Surgical Science and Department of Surgery Research Day, Pittsburgh, PA, May 13, 2015.

Present: Prevalence of Extracranial Venous Narrowing on Catheter Venography in People with Multiple Sclerosis, Their Siblings, and Unrelated Healthy Controls: A Blinded, Case-Control Study. In: Beyond

Faculty Honors/Awards/Publications

the Journal of Vascular Surgery: "Top Ten" Papers Relevant to Vascular Surgery, Society for Vascular Surgery Vascular Annual Meeting, Chicago, IL, June 20, 2015.

Invited Presentations/Meeting Service—International Welcome, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Panelist, Session I – Academic Surgery, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Panelist, Session III – Nuts and Bolts of an Academic Career, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Moderator, Session IV – Advancing Your Career, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Closing Remarks, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Development of Novel Therapy to stop hemorrhage, 41st Colombian National Surgical Congress, Bogota, Colombia, August 10, 2015.

A Critical Assessment of Venous Thromboembolism (VTE) Risk Assessment Models, 41st Colombian National Surgical Congress, Bogota, Colombia, August 10, 2015.

Effect of Plasmid-Based Delivery of Stromal Cell-Derived Factor-1 to the Lower Extremities of Patients with Critical Limb Ischemia: A Randomized Clinical Trial, 41st Colombian National Surgical Congress, Bogota, Colombia, August 12, 2015.

Why Every Surgeon Can and Should be an Academic Surgeon, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Strategies for Submitting Abstracts to National and International Meetings, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

How to Write and Revise a Manuscript for Publication, AAS/ISDS/WJS/ISS Career Development Course for Academic Surgeons, Bangkok, Thailand, Sunday, August 23, 2015.

Wang Z, Emond ZM, Morgan CE, Kibbe MR. A Novel Atraumatic Method of Arterial Plaque Debulking. Oral presentation at the 38th Annual Meeting Midwestern Vascular Surgical Society, Coralville, IA, September 5, 2014. Awarded the 2014 Charles C. Guthrie Award for Outstanding Research.

Yang J, Albaghdadi M, Kibbe MR, Ameer GA. Laser stenting of injectable biodegradable elastomers for cardiovascular disease. Oral Presentation at BMES 2014 Annual Meeting, San Antonio, Texas, October 22-25, 2014.

Kibbe MR, Yadav A, et al. A Phase IIa Randomized, Double-Blind, Placebo controlled Study to Evaluate Plasmid Stromal Cell-Derived Factor-1 for Treatment of Critical Limb Ischemia –The STOP-CLI Trial. Oral Presentation at the AHA 2014 Scientific Sessions, Chicago, IL, November 17, 2014.

Bahnonn ESM, Morgan C, Jiang W, Kassam HA, Moyer TJ, Vercammen JM, Stupp SI, Kibbe MR. Safety and Efficacy of a Systemically-Injected Targeted Therapy for the Injured Vasculature. Oral Presentation at the 2014 Society for Free Radical Biology and Medicine Meeting, Seattle, WA, November 19-23, 2014. Awarded the Larry Oberley Young Investigator Award.

Bahnonn ESM, Kassam HA, Nennig KT, Avram MJ, Kibbe MR. Pharmacokinetic Model for Supramolecular Nanoscale Carriers Targeted to the Injured Vasculature. Oral Presentation at the 10th Annual Academic Surgical Congress, Las Vegas, NV, February 1-5, 2015.

Jiang W, Bahnonn ESM, Kibbe MR. Safety of a Collagen-Targeted Peptide Amphiphile Nanofiber for

Intravascular Use. Oral Presentation at the 10th Annual Academic Surgical Congress, Las Vegas, NV, February 1-5, 2015.

Wasserman MA, Jiang Q, Rink JS, Thaxton CS, Kibbe MR. Synthetically Engineered Targeted Gold Nanoparticles for the Prevention of Restenosis Following Vascular Interventions. Oral presentation at the 2015 Introduction to Academic Vascular Surgery, Tampa, FL, April 9-11, 2015.

Havelka GE, Hekman KE, Helenowski IB, Kibbe MR. Comparison of the VA Surgical Mortality Calculator and the NSQIP Surgical Risk Calculator in Predicting 30-Day Mortality in a VA Vascular Surgery Population. Presentation at 30th Annual Surgical Symposium of Association of VA Surgeons, Miami Beach, FL, May 4, 2015. Best Quickshot Presentation Award. Gregory EK, Webb AR, Vercammen JM, Flynn ME, Ameer GA, Kibbe MR. All-trans Retinoic Acid ePTFE Grafts Inhibit Intimal Formation in a Rat Aortic Intermittent Graft Model. Poster presentation at Arteriosclerosis, Thrombosis and Vascular Biology 2015 Scientific Sessions, San Francisco, CA, May 8, 2015.

Publications

Domanchuk K, Ferrucci L, Guralnik JM, Criqui MH, Tian L, Liu K, Losordo D, Stein J, Green D, Kibbe M, Zhao L, Annex B, Perlman H, Lloyd-Jones D, Pearce W, Taylor D, McDermott MM. Progenitor cell release plus exercise to improve functional performance in peripheral artery disease: The PROPEL Study. *Contemp Clin Trials*. 2013 Sep 27;36(2):502-509. PMID: 24080099.

Tsihlis ND, Vavra AK, Martinez J, Lee VR, Kibbe MR. Nitric Oxide is Less Effective at Inhibiting Neointimal Hyperplasia in Spontaneously Hypertensive Rats. *Nitric Oxide*. 2013 Nov 30;35:165-74. PMID: PMC3877576

Rodriguez MP, Emond ZM, Wang Z, Martinez J, Jiang Q, Kibbe MR. Role of metabolic environment on nitric oxide mediated inhibition of neointimal hyperplasia in type 1 and type 2 diabetes. *Nitric Oxide*. 2014 Jan 30;36:67-75. PMID: PMC3917719

Bakaeen FG, Blaustein A, Kibbe MR. Health Care at the VA: Recommendations for Change. *JAMA*. 2014 Aug 6;312(5):481-2. PMID: 24945974

Kumar HR, Vavra AK, Kibbe MR. The utility of venous thromboembolism risk assessment models in general and vascular surgery. *J Vasc Surg Venous*. 2014 7; 2(3):335-341. PMID Not yet available.

van Lith R, Gregory EK, Yang J, Kibbe MR, Ameer GA. Engineering biodegradable polyester elastomers with antioxidant properties to attenuate oxidative stress in tissues. *Biomaterials*. 2014 Sep;35(28):8113-22. PMID: PMC4164534

Yoon DY, Mansukhani NA, Stubbs VC, Helenowski IB, Woodruff TK, Kibbe MR. Sex bias exists in basic science and translational research. *Surgery*. 2014 Sep;156(3):508-16. PMID: 25175501

Gregory EK, Webb AR, Martinez-Vercammen J, Flynn ME, Ameer GA, Kibbe MR. Periadventitial atRA Citrate-Based Polyester Membranes Reduce Neointimal Hyperplasia and Restenosis After Carotid Injury in Rats. *Am J Physiol Heart Circ Physiol*. 2014 Nov;307(10):H1419-29. PMID: PMC4233299

Polonsky TS, Liu K, Tian L, Carr J, Carroll TJ, Berry J, Criqui MH, Ferrucci L, Guralnik JM, Kibbe MR, Kramer CM, Li F, Xu D, Zhao X, Yuan C, McDermott MM. High-risk plaque in the superficial femoral artery of people with peripheral artery disease: Prevalence and associated clinical characteristics. *Atherosclerosis*. 2014 Nov;237(1):169-76. PMID: 25240112

Matsumura JS, Stroupe KT, Lederle FA, Kyriakides TC, Ge L, Freischlag JA; for the Open Versus Endovascular Repair (OVER) Veterans Affairs Cooperative Study Group; for the Open Versus Endovascular Repair OVER Veterans Affairs Cooperative Study Group. Costs of repair of abdominal aortic aneurysm with different devices in a multicenter randomized trial. *J Vasc Surg*. 2015 Jan;61(1):59-65.e2. doi: 10.1016/j.jvs.2014.08.003. Epub 2014 Sep 16. PMID: 25238728

Morgan CE, Lee CJ, Chin JA, Eskandari MK, Morasch MD, Rodriguez HE, Helenowski IB, Kibbe MR. High-Risk Anatomic Variables and Plaque Characteristics in Carotid Artery Stenting. *Vasc Endovascular Surg*. 2014 Sep 23. pii: 1538574414551577. [Epub ahead of print] PMID: 25252921

Freischlag JA, Kibbe MR. The evolution of surgery: the story of "TWO POEMS." *JAMA*. 2014 Nov 5;312(17):1737-8. PMID: 25343524

Vavra AK, Kibbe MR, Brown MJ, Powell JT. Debate: Whether evidence supports reducing the threshold diameter to 5cm for elective interventions in women with abdominal aortic aneurysms. *J Vasc Surg*. 2014 Dec;60(6):1695-701. PMID: 25454111

Vavra AK, Kibbe MR. Part One: For the Motion. Evidence Supports Reducing the Threshold Diameter to 5cm for Elective Interventions in Women with Abdominal Aortic Aneurysms. *Eur J Vasc Endovasc Surg*. 2014 Dec; 48(6):611-4. PMID:25476927

Bahnonn ESM, Koo N, Cantu-Medellin N, Tsui AY, Havelka GE, Vercammen JM, Jiang Q, Kelley EE, Kibbe MR. Nitric oxide inhibits neointimal hyperplasia following vascular injury via differential, cell-specific modulation of SOD-1 in the arterial wall. *Nitric Oxide*. 2015 Jan 30;44:8-17. PMID: 25460325
Kibbe MR. Dawn of a new decade for JAMA Surgery. *JAMA Surg*. 2015 Jan;150(1):7-8. doi: 10.1001/jamasurg.2014.3564. PMID: 25565578

Morales RC, Bahnonn ES, Havelka GE, Cantu-Medellin N, Kelley EE, Kibbe MR. Sex-based Differential Regulation of Oxidative Stress in the vasculature by Nitric Oxide. *Redox Biol*. 2015 Jan 13;4C:226-233. doi: 10.1016/j.redox.2015.01.007. Epub 2015 Jan 13. PMID: 25617803

Moyer TJ, Kassam HA, Bahnonn ES, Morgan CE, Tantakitti F, Chew TL, Kibbe MR, Stupp SI. Shape-Dependent Targeting of Injured Blood Vessels by Peptide Amphiphile Supramolecular Nanostructures. *Small*. 2015 Jun;11(23):2750-5. doi: 10.1002/sml.201403429. Epub 2015 Feb 3. PMID: 25649528

Rodriguez MP, Tsihlis ND, Emond ZM, Wang Z, Varu VN, Jiang Q, Vercammen JM, Kibbe MR. Nitric oxide affects UbcH10 levels differently in type 1 and type 2 diabetic rats. *J Surg Res*. 2015 Jun 1;196(1):180-9. doi: 10.1016/j.jss.2015.02.012. Epub 2015 Feb 13. PMID: 25801975

Morgan CE, Prakash VS, Vercammen JM, Pritts T, Kibbe MR. Development and validation of 4 different rat models of uncontrolled hemorrhage. *JAMA Surg*. 2015 Apr;150(4):316-24. doi:10.1001/jamasurg.2014.1685. PMID: 25693160

Kibbe MR, Dardik A, Velazquez OC, Conte MS; Society for Vascular Surgery Research Council. The vascular surgeon-scientist: a 15-year report of the Society for Vascular Surgery Foundation/National Heart, Lung, and Blood Institute-sponsored Career Development Award Program. *J Vasc Surg*. 2015 Apr;61(4):1050-7. doi: 10.1016/j.jvs.2014.12.058. PMID: 25814368

McDermott MM, Guralnik JM, Criqui MH, Ferrucci L, Liu K, Spring B, Tian L, Domanchuk K, Kibbe M, Zhao L, Lloyd Jones D, Liao Y, Gao Y, Rejeski WJ. Unsupervised exercise and mobility loss in peripheral artery disease: a randomized controlled trial. *J Am Heart Assoc*. 2015 May 20;4(5). pii: e001659. doi: 10.1161/JAHA.114.001659. PMID: 25994445

McDermott MM, Greenland P, Tian L, Kibbe MR, Green D, Zhao L, Criqui MH, Guralnik JM, Ferrucci L, Liu K, Wilkins JT, Huffman MD, Shah SJ, Liao Y, Lloyd-Jones DM. Association of 6-Minute Walk Performance and Physical Activity With Incident Ischemic Heart Disease Events and Stroke in Peripheral Artery Disease. *J Am Heart Assoc*. 2015 Jul 28;4(7). pii: e001846. doi: 10.1161/JAHA.115.001846. PMID: 26219563

Woodruff TK, Green S, Paller A, Schlosser BJ, Spring B, Castle M, Stock MC, Carnethon MR, Clark CT, Gerard E, Turek FW, Wisner KL, Wakschlag LS, Kibbe MR, Mendelson MA, Simon MA, Hansen NM, Kenton K, Garcia PM, Zee P, Ramsey-Goldman R, Sutton SH, Horn LV. Sex-based biomedical research policy needs an implementation plan. *Women's Health (Lond Engl)*. 2015 Aug 3;1-4. [Epub ahead of print] PMID: 26237204

Faculty Honors/Awards/Publications

Bakaeen FG, Blaustein A, Kibbe MR. Physicians assistants in VA medical centers—reply. *JAMA*. 2014 Dec 3;312(21):2289-90. PMID: 25462006

Kibbe MR. Thank You to the *JAMA* Surgery Peer Reviewers, Authors, and Readers. *JAMA Surg*. 2015 Mar 18. doi: 10.1001/jamasurg.2015.0368. [Epub ahead of print]. PMID: 25785824

McDermott MM, Guralnik JM, Criqui MH, Liu K, Kibbe M, Ferrucci L. Response to letter regarding article, "Six-minute walk is a better outcome measure than treadmill walking tests in therapeutic trials of patients with peripheral artery disease". *Circulation*. 2015 Apr 14;131(15):e407. doi: 10.1161/CIRCULATIONAHA.114.013268. PMID: 25869008

Klein SL, Schiebinger L, Stefanick ML, Cahill L, Danska J, de Vries GJ, Kibbe MR, McCarthy MM, Mogil JS, Woodruff TK, Zucker I. Opinion: Sex inclusion in basic research drives discovery. *Proc Natl Acad Sci U S A*. 2015 Apr 28;112(17):5257-8. doi: 10.1073/pnas.1502843112. Epub 2015 Apr 20. PMID: 25902532

John Kim, MD

Honors/Awards

Named Co-Chair of American Society of Plastic Surgeons Breast Committee, 2015
Best Paper Session, Plastic Surgery Research Council 60th Annual Meeting, May 2015
American Society of Breast Surgeons "Best Papers of 2013" Distinction, 2014
Chicago Gynecological Society Resident Paper Competition 2nd Prize, 2014

Presentations

Invited Speaker—Instructional: Utilizing ADM in One and Two Stage Breast Reconstruction. American Society of Plastic Surgeons The Meeting. Chicago, IL. October 2014.

Avoiding Infections in Breast Surgery: Understanding Risk in Reconstruction. American Society of Plastic Surgeons The Meeting. Chicago, IL. October 2014.

Pathways to Plastic Surgery: Overview of Programs. American Society of Plastic Surgeons The Meeting. Chicago, IL. October 2014.

ASPS-MOC 2014: Comprehensive Breast Reconstruction. American Society of Plastic Surgeons The Meeting. Chicago, IL. October 2014.

Practical Applications of TOPS Data. American Society of Plastic Surgeons The Meeting. Chicago, IL. October 2014.

Uses of Flex HD in Revision Breast Surgery. American Society of Plastic Surgeons Aesthetica. Las Vegas, NV. April 2015.

Publications

Lovecchio F, Jordan S, Lim S, Fine NA, Kim JYS. Risk factors for complications differ between stages of breast reconstruction. *Ann Plast Surg*. Epub ahead of print.

Edelstein A, Lovecchio F, Saha S, Hsu W, Kim JYS. Impact of Resident Involvement on Orthopaedic Surgery Outcomes: An analysis of 30,628 Patients from the American College of Surgeons National Surgical Quality Improvement Program Database. *J Bone Joint Surg Am*. 2014;96(15):e131.

Lim S, Jordan S, Jain U, Kim JYS. Predictors and Causes of Unplanned Reoperations in Outpatient Plastic Surgery: A multi-institutional analysis of 6,749 patients using the 2011 NSQIP database. *J Plast Surg Hand Surg*. 2014;48(4):270-5.

Seth AK, Silver HR, Hirsch EM, Kim JYS, Fine NA. Comparison of delayed and immediate tissue expander breast reconstruction in the setting of post-mastectomy radiation therapy. *Ann Plast Surg*. Epub ahead of print.

Mlodinow A, Fine NA, Khavanin N, Kim JYS. Risk Factors for Mastectomy Flap Necrosis Following Immediate Tissue Expander Breast Reconstruction. *J Plast Surg Hand Surg*. 2014 Oct;48(5):322-6.

Kim B, Ver Halen J, Lim S, Kim JYS. Predictors of

Unplanned Readmission in Microvascular Free Tissue Transfer Patients: Multi-institutional Analysis of 774 Patients. *Microsurgery*. 2015 Jan;35(1):13-20.

De Oliveira GS Jr, Bialek JM, Nicosia L, McCarthy RJ, Chang R, Fitzgerald P, Kim JYS. Lack of Association Between Breast Reconstructive Surgery and the Development of Chronic Pain after Mastectomy: A Propensity Matched Retrospective Cohort Analysis. *Breast*. 2014 Aug;23(4):329-33.

Kim JYS, Khavanin N, Jordan SW, Ver Halen, Mlodinow AS, Bethke KP, Khan SA, Hansen N, Losken A, Fine NA. Individual Risk of Surgical Site Infection: Application of the Breast Reconstruction Risk Assessment (BRA) Score. *Plast Reconstr Surg*. 2014 Sep;134(3):351e-62e.

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Operative Morbidity Following Ventral Hernia Repair (VHR): A NSQIP Analysis of 45,759 Patients. *Am J Surg*. In Press.

Lim S, Edelstein AI, Patel A, Kim BD, Kim JYS. Risk Factors for Postoperative Infections Following Single Level Lumbar Fusion Surgery. *Spine*. Epub ahead of print.

Mlodinow AS, Khavanin N, Shires C, Samant S, Ver Halen JP, Kim JYS. Predictors of Adverse Events After Total Laryngectomy: An Analysis of the 2005 to 2011 NSQIP Data Sets. *Journal of Otolaryngology Advances*. In Press.

Mlodinow AS, Khavanin N, Ver Halen JP, Rambachan A, Gutowski KA, Kim JYS. Increased Anaesthesia Duration Increases Venous Thromboembolism Risk in Plastic Surgery: A 6-Year Analysis of Over 19,000 Cases Using the NSQIP Dataset. *J Plast Surg Hand Surg*. In Press.

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Chow I, Alghoul MS, Khavanin N, Hanwright PJ, Mayer KE, Hume KM, Murphy RX, Gutowski KA, Kim JYS. Is There a Safe Lipoaspirate Volume? A Risk Assessment Model of Liposuction Volume as a Function of Body Mass Index Based on TOPS Data. *Plast Reconstr Surg*. In Press.

Chow I, Hanwright PJ, Hansen NM, Leilabadi SN, Kim JYS. Predictors of 30-day Readmission After Mastectomy: A Multi-institutional Analysis of 21, 271 Patients. *Breast Disease*. In Press.

De Oliveira GS, Holl JL, Lindquist LA, Hackett NJ, Kim JYS, McCarthy RJ. Older Adults and Unanticipated Hospital Admission within 30 days of Ambulatory Surgery: An Analysis of 53,667 Ambulatory Surgical Procedures. *J Am Geriatr Soc*. Epub ahead of print.

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Vu M, Kim JYS. Current Opinions on Indications and Algorithms for Acellular Dermal Matrix Use in Primary Prosthetic Breast Reconstruction. *Gland Surg*. 2015 Jun;4(3):195-203.

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Shih K, De Oliveira GS, Qin C, Kim JYS. The impact of advancing age on postoperative outcomes in plastic surgery. *J Plast Reconstr Aesthet Surg*. In Press.

Faculty Honors/Awards/Publications

Adkinson JM, Casale MT, Kim JYS, Khavanin N, Gutowski KA, Gosain AK. So You Have a Research Idea: A Survey of Databases Available for Plastic Surgery Research. *Plast Reconstr Surg*. In Press.

Chow I, Hanwright PJ, Hansen NM, Leilabadi SN, Kim JYS. Predictors of 30-day readmission after mastectomy: A multi-institutional analysis of 21,271 patients. *Breast Dis*. In Press.

Felicitas Koller, MD

Publications

McElroy LM, Collins KM, Koller FL, Khorzad R, Abecassis MM, Holl JL, Ladner DP. Operating room to intensive care unit handoffs and the risks of patient harm. *Surgery*. 2015 Sep;158(3):588-594. doi: 10.1016/j.surg.2015.03.061. Epub 2015 Jun 9. PubMed PMID: 26067459.

Salem R, Vouche M, Baker T, Herrero JI, Caicedo JC, Fryer J, Hickey R, Habib A, Abecassis M, Koller F, Vogelzang R, Desai K, Thornburg B, Hohlastos E, Resnick S, Lewandowski RJ, Sato K, Ryu RK, Ganger D, Kulik L. Pretransplant Portal Vein Recanalization-Transjugular Intrahepatic Portosystemic Shunt in Patients With Complete Obliterative Portal Vein Thrombosis. *Transplantation*. 2015 Apr 22. [Epub ahead of print] PubMed PMID: 25905983.

Daniela Ladner, MD, MPH

Honors/Awards

7/15: Associate Editor *Transplantation*

7/14: World Transplant Congress – 2 poster of distinction Awards (top 10% award)

5/15: American Transplant Congress – 3 posters of Distinction (top 10% award)

12/15: Editors Pick *Transplantation* Journal of the following publication: Extent and Predictors of Waiting Time Geographic Disparity in Kidney Transplantation in the United States Davis, Mehrotra, McElroy, Friedewald, Skaro, Lapin, Kang, Holl, Abecassis, Ladner DP *Transplantation*, 2014 May 27

Presentations

A Failure mode and effects analysis from operating room setup to incision in living liver donors. Khorzad R, Woods D, Fischer R, Guarrera J, Pomfret L, Simpson MA, Sherwani S, Skaro A, Baker T, Ziomek R, Daud A, Reyes E, Wymore E, Ladner DP. WTC, July 2014, San Francisco

Patient safety in living donor liver transplantation: equipment malfunction. D Woods PhD, J Cannizaro, E Pomfret MD, MA. Simpson PhD, J Guarrera MD, R Fisher MD, A Skaro MD, A Daud MD MPH, R, Khorzad MS, E Wymore MS, E Reyes, T Curtis, DP Ladner MD MPH. Central Surgical Association, March 5, 2015, Chicago

MELD velocity – an early predictor of increased mortality risk. DP Ladner, K Skibba, J Kang, B Ho, A Kho, L Kulik, A Daud, MM Abecassis, AI Skaro. American Transplant Congress, Philadelphia, May, 2015

Safety Risks during Operating Room to Intensive Care Unit Handoffs: Application of Failure Mode Effects and Criticality Analysis. McElroy LM, Collins KM, Koller FL, Khorzad R, Macapagal KR, Abecassis MM, Gordon EJ, Ladner DP, Holl JL. Academy Health, Minneapolis, June, 2015

Effective Postoperative Pain Management for living liver donors. Ladner DP, Woods D. ILTS, Chicago, July 2015

Seasonal Variation in Outcomes after Liver Transplantation. Abecassis ZA, McElroy LM, Lapin B, Daud A, Chokeychanchaisakul A, Ladner DP. WTC, July 2014 – San Francisco

System-level risks of Postoperative Pneumonia in Deceased Donor Liver Transplant Recipients. Abecassis ZA, McElroy LM, Khorzad R, Ison M, Mehrotra S, Ladner DP. WTC, July 2014 – San Francisco

Fault tree analysis: A system-based approach to assessing the risks of surgical complications. Khor-

zad R, McElroy LM, Abecassis ZA, Ison M, Mehrotra S, Ladner DP. WTC, July 2014 – San Francisco

Towards a More Uniform Classification of Patient Safety Events in Solid Organ Transplantation: Applying the World Health Organization International Classification for Patient. McElroy LM, Yanes A, Joseph J, Daud A, Holl J, Abecassis MM, Ladner DP, Woods DM. WTC, July 2014 – San Francisco

Longer Cold Ischemic Time in Nighttime Procurements Results in Worse Outcomes for Liver Transplant Recipients. McElroy LM, Lapin B, Lovasik BP, Skaro AI, Levitsky J, Abecassis MM, Holl JL, Ladner DP. WTC, July 2014 – San Francisco

Redesigning Transplant Organ Labeling: An Innovative Approach to Improve Patient Safety. Holl J, Woods D, Khorzad R, Montague E, Nannicelli A, Brown A, Stewart C, Ladner D. WTC, July 2014 – San Francisco

A retrospective study of early post-transplant nosocomial infections. Dorschner P, McElroy LM, Ladner DP, Ison MG. WTC, July 2014 – San Francisco External kidney paired donation: a process to maximize patient safety and to ensure compliance. De-Camp PJ, DeMayo E, Wright J, Ladner D, Ison M. NATCO, August, 2014

Safer and More Effective Treatment of Acute Post-operative Pain in Living Liver Donors. B Platt, D Woods, R Fisher, J Guarrera, E Pomfret, MA Simpson, A Daud, T Curtis, E Reyes, E Wymore, A Skaro and D Ladner. American Transplant Congress, Philadelphia, May, 2015

Systematic Medical Record Review to Identify Safety Risks in Living Liver Donors. B Platt, D Woods, A Daud, E Pomfret, MA Simpson, J Guarrera, R Fisher, T Curtis, E Reyes, E Wymore, DP Ladner. American Transplant Congress, Philadelphia, May, 2015

Utilization and Characteristics of Kidney Donors in the US by OPTN-Defined Increased Risk Donor Status. Michael G. Ison, Bing Ho, Joseph Leventhal, Daniela P Ladner. American Transplant Congress, Philadelphia, May, 2015

Utilization and Characteristics of Liver Donors in the US by OPTN-Defined Increased Risk Donor Status. Michael G. Ison, Michael Abecassis, Daniela P. Ladner. American Transplant Congress, Philadelphia, May, 2015

Utilization and Characteristics of Pancreas and Simultaneous Kidney-Pancreas Donors in the US by OPTN-Defined Increased Risk Donor Status. Michael G. Ison, Bing Ho, Joe Leventhal, Daniela P. Ladner. American Transplant Congress, Philadelphia, May, 2015

Publications

Predictors of Donor Follow-up after Living Donor Liver Transplantation. Brown RS Jr, Smith A, Dew MA, Gillespie, Hill-Callahan MM, Ladner DP; A2ALL Cohort Study. *Liver Transplantation*, 2014 Aug;20(8):967-76; PMID: 24824858

The Effect of the Statewide Sharing Variance on Geographic Disparity in Kidney Transplantation in the United States. Davis AE, Mehrotra S, McElroy L, Friedewald J, Kang J, Holl J, Abecassis MM, Ladner DP. *C-JASN*, 2014 Aug 7;9(8):1449-60; PMID: 24970871

Simulation Modeling of the Impact of Proposed New Simultaneous Liver and Kidney Transplantation Policies. Chang Y, Gallon L, Shetty K, Chang Y, Jay C, Levitsky J, Ho B, Baker T, Ladner D, Friedewald J, Abecassis M, Hazen G, Skaro A. *Liver Transplantation*. 2014 Aug 5; PMID: 25099700

Comparative Effectiveness of Liver Transplant Strategies for End-Stage Liver Disease Patient on Renal Replacement Therapy. Chang Y, Gallon L, Jay C, Shetty K, Ho B, Levitsky J, Baker T, Ladner D, Friedewald J, Abecassis M, Hazen G, Skaro A. *Liver Transplantation*, 2014 Sep;20(9):1034-44; PMID: 24777647

A Meta-Analysis of Complications following Deceased Donor Liver Transplant. McElroy LM, Daud A, Davis A, Lapin B, Baker T, Abecassis MM, Levit-

sky J, Holl J, Ladner DP. *Am J Surg*. 2014 Oct; 208(4):605-18; PMID: 2518164

Changes in Geographic Disparity in Kidney Transplantation since the Final Rule. AE Davis, S Mehrotra, DP Ladner, V Kilambi, JJ Friedewald. *Transplantation*, 2014, Nov 15;98(9):931-6; PMID:25286057

Improving Geographic Equity in Kidney Transplantation Using Alternative Kidney Sharing and Optimization Modeling (MDM-13-089.R1). Davis A, Mehrotra S, Friedewald J, Daskin M, Skaro A, Abecassis M, Ladner D. *Medical Decision Making*. 2014 Nov 10; PMID: 25385750

Detection of Medical Errors in Kidney Transplantation: A Pilot Study Comparing Proactive Clinician. Debriefings to a Hospital-Wide Incident Reporting System. McElroy LM, Daud A, Lapin B, Ross O, Woods DM, Skaro A, Holl J, Ladner DP. *Surgery*; 2014 Nov; 156(5): 1106-1115; PMID: 25444312

The impact of coronary artery disease on outcomes after liver transplantation. Skaro AI, Gallon LG, Lyuksemburg V, Jay CL, Zhao L, Ladner DP, Van-Wagner LB, DeWolf AM, Flaherty JD, Levitsky J, Abecassis MM, Gheorghide M. *J Cardiovasc Med*, 2014 Dec 16; PMID: 25517876

Medication Misuse, Non-Adherence, and Clinical Outcomes among Kidney and Liver Recipients. Serper M, Patzer R, Reese P, Przytula K, Koval R, Ladner D, Levitsky J, Abecassis M, Wolf MS. *Liver Transplantation*. 2015 Jan;21(1):22-8; PMID: 25312406

The Use of Technology for Urgent Clinician to Clinician Communications: A systematic review of the literature. Cristina Nguyen, Lisa M McElroy, Michael M Abecassis, Jane L Holl, Daniela P Ladner. *Int J Med Inform*. 2015 Feb;84(2):101-110; PMID 25444594

Long-Term Quality of Life after Liver Donation in the Adult to Adult Living Donor Liver Transplantation Cohort Study (A2ALL). DP Ladner, MA Dew, S Forney, BW Gillespie, RS Brown Jr, RM Merion, CE Freise, PH Hayashi, JC Hong, A Ashworth, CL Berg, JR Burton, Jr., A Shaked, Z Butt. *J Hepatology*, 2015 Feb;62(2):346-53; PMID: 25195558

Modeling the Allocation System: Principles for Robust Design before Restructuring. Mehrotra S, Kilambi V, Gilroy R, Ladner DP, Klintmalm GB, Kaplan B. *Transplantation*. 2015 Feb; 99(2):278-281; PMID: 25651120

Patterns and Predictors of Sexual Function Following Liver Donation in the Adult to Adult Living Donor Liver Transplantation Cohort Study (A2ALL) * DiMartini A, Dew MA, Butt Z, Simpson MA, Ladner DP, Smith A, Hill-Callahan P, Gillespie B. *Transplantation*. 2015 Mar 16; PMID: 25779554

Clinical Outcomes and Quality of Life in Recipients of Livers Donated after Cardiac Death. Neehar P, Skaro A, Ladner DP, V Lyuksemburg, J Cahan, A Daud, ZA Butt. *Gastroenterology Research and Practice*. 2015, April 1; PMID 25922602

Fatal infectious pulmonary complications post cadaveric renal transplantation. TK Gallagher, JP Flaherty, Yeldandi AV, DP Ladner. *AJT*; 2015 May;15(5):1441-3; PMID: 25894716

Program Specific Reports: A Guide to the Debate*. Gupta A, Ho B, Ladner DP, Kang J, Skaro A, Kaplan B. *Liver Transplantation*. 2015 Jun;99(6): 1109-1112; PMID: 26035279

Early Postoperative Emergency Care of Abdominal Transplant Recipients. McElroy LM, Schmidt KA, Richards, CT, Lapin B, Abecassis MM, Holl JL, Adams JG, Ladner DP. *Transplantation* 2015 June 4; PMID: 26050012

Operating Room to Intensive Care Unit Handoffs and the Risks of Patient Harm. McElroy LM, Collins KM, Koller FL, Khorzad R, Abecassis MM, Holl JL, Ladner DP. *Surgery* 2015 June 8; PMID: 26067459

Clinician Perceptions of Operating Room to Intensive Care Unit Handoffs and Implications for Patient Safety: A Qualitative Study. McElroy L, Macapagal

Faculty Honors/Awards/Publications

KR, Collins KM, Abecassis MM, Holl JL, Ladner DP, Gordon EJ. Am J Surg. 2015 Jun 27, PMID: 26198333

Organ Transplantation – Is it Time to Game the System. Skaro AI, Hazen G, Ladner DP, Kaplan B Transplantation. 2015 Jul; 99(7): 1316-20; PMID: 26057545

Failure Modes and Effects Analysis: A Comparison of the Effectiveness of Two Common Risk Prioritization Methods. McElroy LM, Khorzad RK, Nannicelli A, Brown A, Ladner DP, Holl JL. BMJ Quality and Saf. 2015 Jul 13, PMID: 26170336

Response to robust models support redistributing liver allocation to reduce geographic disparity. Mehrotra S, Kilambi V, Ladner DP, Gilroy R, Klintmalm G, Kaplan B Transplantation – in print

Reducing Hospital Readmissions via Optimization of Emergency Department Care. McElroy L, Schmidt KA, Richards CT, McHugh MC, Holl JL, Adams JG, Ladner DP. Transplantation – in print

Quantitative imaging biomarkers of brain edema after 23% saline in liver failure. Liotta LM, Lizza BD, Romanova AL, Guth JC, Berman MD, Carroll T, Francis B, Ganger D, Ladner DP, Maas MB, Naidech AM. Critical care – in print

Commentary on Community-based interventions and individuals willingness to be a deceased organ donor: systematic reviewed and meta-analysis. Ladner DP. Transplantation – in print

Observations for Quality Improvement: A Review. Yanes AF, McElroy L, Abecassis Z, Holl J, Woods D, Ladner D. BMJ Quality & Safety – in print

Joseph Leventhal, MD, PhD

Publications

Tambur AR, Herrera ND, Haarberg KM, Cusick MF, Gordon RA, Leventhal JR, Friedewald JJ, Glotz D. Assessing Antibody Strength: Comparison of MFI, Ciq, and Titer Information. Am J Transplant. 2015 Apr 30. doi: 10.1111/ajt.13295. [Epub ahead of print] PubMed PMID: 25930984.

Gallon L, Traitanon O, Yu Y, Shi B, Leventhal JR, Miller J, Mas V, L X, Mathew JM. Differential Effects of Calcineurin and Mammalian Target of Rapamycin Inhibitors on Alloreactive Th1, Th17, and Regulatory T Cells. Transplantation. 2015 Apr 22. [Epub ahead of print] PubMed PMID: 25905982.

Wertheim JA, Leventhal JR. Clinical implications of basic science discoveries: induced pluripotent stem cell therapy in transplantation—a potential role for immunologic tolerance. Am J Transplant. 2015 Apr;15(4):887-90. doi: 10.1111/ajt.13155. Epub 2015 Feb 17. PubMed PMID: 25691150; PubMed Central PMCID: PMC4532334.

Yolcu ES, Leventhal JR, Ildstad ST. Facilitating cells in tolerance induction for kidney transplantation. Curr Opin Organ Transplant. 2015 Feb;20(1):57-63. doi: 10.1097/MOT.000000000000156. Review. PubMed PMID: 25522139.

Leventhal JR, Elliott MJ, Yolcu ES, Bozolic LD, Tollerud DJ, Mathew JM, Konieczna I, Ison MG, Galvin J, Mehta J, Badder MD, Abecassis MM, Miller J, Gallon L, Ildstad ST. Immune reconstitution/immunocompetence in recipients of kidney plus hematopoietic stem/facilitating cell transplants. Transplantation. 2015 Feb;99(2):288-98. doi: 10.1097/TP.0000000000000605. PubMed PMID: 25594553.

David Mahvi, MD

Awards/ Honors

Farley Fellow- McCormick School of Engineering, 2013- present

Appointed American Board of Surgery Chair 2014-2015

Publications

Sherman KL , Gordon EJ, Mahvi DM, Chung J, Bentrem D J, Holl JL Bilimoria KY. Surgeons' Perceptions of Public Reporting of Hospital and Individual Surgeon Quality. 2013 Dec;51(12):1069-75. doi: 10.1097/MLR.000000000000013. PMID: 24226305 [PubMed - indexed for MEDLINE]

Kindel T, Mahvi DM, Keswani, R Endoscopic closure of a post operative duodenal fistula. JSLS in press 2014

Ju MH, Chung JW, Kinnier CV, Bentrem DJ, Mahvi DM, Ko CY, Bilimoria KY. Association between hospital imaging use and venous thromboembolism events rates based on clinical data. Ann Surg. 2014 Sep; 260(3):558-66. doi: 10.1097/SLA.0000000000000897. PMID: 25115432 [PubMed - in process]

Knab LM, Boller AM, Mahvi DM. Cholecystitis. Surg Clin North Am. 2014 Apr;94(2):455-70. doi: 10.1016/j.suc.2014.01.005. Epub 2014 Feb 18. Review. PMID: 24679431 [PubMed - indexed for MEDLINE]

S. Chris Malaisrie, MD

Honors/Awards

Named President of the Thai Physician Association of America Foundation

Presentations

Speaker. Surgical Perspective: Cardiothoracic Surgery. American Society of Neurophysiological Monitoring Annual Mtg. Chicago, IL

Speaker. Tenth Annual Heart Failure Holiday Symposium. Aortic Valve Replacement in Low EF. Northwestern Medicine. Chicago, Illinois

Speaker. Case-Based Coronary & Structural Heart Intervention Update Chicago (CSI). Alternative Access TAVR. Chicago, Illinois

Speaker. Tenth Annual Heart Failure Holiday Symposium. Aortic Valve Replacement in Low EF. Northwestern Medicine. Chicago, Illinois

Speaker. Case-Based Coronary & Structural Heart Intervention Update Chicago (CSI). Alternative Access TAVR. Chicago, Illinois

Lecturer. Marfan Syndrome: Surgical Treatment of the Aortic Root and Ascending Aorta. 27th Annual William E. Van Fleit, MD Symposium for Cardiovascular Medical Education. Mishawaka, IN

Presenter. Aortic dilatation is not associated with aortic valvulopathy in patients with bicuspid aortic valve. AATS 95th Annual Meeting. Seattle, WA

Sept 2014 Speaker. Valvular Heart Disease in Heart Failure. Cardiovascular Symposium 2014: Care at the Crossroads. Methodist CME Cardiovascular Conference. Merrillville, Indiana

Mar 2015 Speaker. Treatment of Valvular Heart Disease in the Elderly – Open and Transcatheter Therapies & Continue Medical Training in the USA. Joint TPAAC-Chula International Medical Congress 2015. Bangkok, Thailand

Publications

Atoui R, Malaisrie SC. Clinical Presentation, Diagnosis, and Management of Type A Aortic Intramural Hematoma: Update, Controversies, and Unknowns. In: Chen YF, Luo CY, Shum-Tim D, Eds. Recent Advances in Acute Type A Aortic Dissection. Bentham E Books. 2015; 337-351 (15).

Leung Wai Sang S, Hodges KE, Majewski M, Malaisrie SC. Malformed aortic valve mimicking type a aortic dissection. J Card Surg. 2015 May;30(5):452.

Hirohisa Ikegami, Adin-Cristian Andrei, Zhi Li, Patrick M. McCarthy, and S. Chris Malaisrie (2015). Papillary Fibroelastoma of the Aortic Valve: Analysis of 21 Cases, Including a Presentation with Cardiac Arrest. Texas Heart Institute Journal: April 2015, Vol. 42, No. 2, pp. 131-135.

van Ooij P., Potters W. V., Nederveen A. J., Allen B. D., Collins J., Carr J., Malaisrie SC., Markl M., Barker A. J. (2015), A methodology to detect abnormal relative wall shear stress on the full surface of the thoracic aorta using four-dimensional flow MRI. Magn Reson Med, 73: 1216-1227.

Entezari P, Schnell S, Mahadevia R, Malaisrie C, McCarthy P, Mendelson M, Collins J, Carr JC, Markl M, Barker AJ. From unicuspid to quadricuspid: Influence of aortic valve morphology on aortic three-dimensional hemodynamics. Journal of magnetic resonance imaging: JMIRI. Dec 2014;40:1342-1346

Rodriguez E, Malaisrie SC, Mehall JR, Moore M, Salemi A, Ailawadi G, Gunnarsson C, Ward AF, Grossi EA. Right anterior thoracotomy aortic valve replacement is associated with less cost than sternotomy-based approaches: A multi-institution analysis of 'real world' data. J Med Econ. Dec 2014;17:846-852
Malaisrie SC, McDonald E, Kruse J, Li Zhi, McGee EC Jr, Abicht TO, Russell H, McCarthy PM, Andrei AC. Mortality while waiting for aortic valve replacement. Ann Thorac Surg. Nov 2014; 98(5):1564-1571.
Rinewalt D, McCarthy PM, Malaisrie SC, Fedak PWM, Lapin B, Andrei A, Puthumana JJ, Bonow RO. Effect of aortic aneurysm replacement on outcomes after bicuspid aortic valve surgery: Validation of contemporary guidelines. J Thorac Cardiovasc Surg Nov 2014;148(5):2060-9.

Barker A. J., van Ooij P., Bandi K., Garcia J., Albaghdadi M., McCarthy P., Bonow R. O., Carr J., Collins J., Malaisrie SC., Markl M. (2014), Viscous energy loss in the presence of abnormal aortic flow. Magn Reson Med, 72: 620-628.

Merritt B. A., Turin A., Markl M., Malaisrie SC., McCarthy P. M., Carr, J. C. (2014), Association between leaflet fusion pattern and thoracic aorta morphology in patients with bicuspid aortic valve. J. Magn. Reson. Imaging, 40: 294-300.

van Ooij P, Potters WV, Collins J, Carr M, Carr J, Malaisrie SC, Fedak PW, McCarthy PM, Markl M, Barker AJ. Characterization of abnormal wall shear stress using 4d flow mri in human bicuspid aortopathy. Annals of biomedical engineering. Aug 2014

James M. Mathew, PhD

Honors/Awards

Editor-in-Chief American Society for Histocompatibility & Immunogenetics (ASHI) Quarterly Jan 2015
Director Immune Monitoring Core; Comprehensive Transplant Center July 2015

Presentations

Mathew JM, Huang X, Leventhal LR, Gallon L, Miller J and Levitsky L. Relative In Vitro Immunoregulatory Effects of Everolimus, Sirolimus, Tacrolimus, Mycophenolic Acid and Drug Combinations. ATC. Philadelphia, May 2-6, 2015.

Konieczna IM, Mathew JM, Miller J, Ildstad ST and Leventhal JR. Chimeric Patients Who Undergo Combined Facilitating Cell-Enriched/HSC/Renal Transplant Exhibit Robust TCR Repertoire. ATC. Philadelphia, May 2-6, 2015.

Traitanon O, Alvarado A, Tantisattamo E, Shetty A, Ansari MJ, Mathew JM, Leventhal JR, Mas V and Gallon L. Frequencies of CD4+25hiFoxp3+ T Cells in Long-Term Follow-Up of Sirolimus-Converted Kidney Transplant Recipients. ATC. Philadelphia, May 2-6, 2015.

Shetty A, Leventhal JR, Traitanon O, Alvarado A, Mas V, Mathew JM, Tantisattamo E and Gallon L. Prospective Study of a Steroid Free, Low Dose Tacrolimus and Everolimus Combination Regimen in Kidney Transplant. ATC. Philadelphia, May 2-6, 2015.

Leventhal JR, LeFever A, Skaro A, Gallon L, Mathew JM, Stare D, Konieczna I, He J, Johnson G. Interim Results of a Phase 1 Trial of Treg Adoptive Cell Transfer (TRACT) in Living Donor Kidney Transplant Recipients. ATC. Philadelphia, May 2-6, 2015.

Leventhal JR, Mathew JM, Salomon DR, Kurian SM, Friedewald J, Gallon L, Konieczna I, Tambur AR, Levitsky J, Kanwar Y, Jie C, Abecassis MM and Miller J. Non-Chimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/Genomic Biomarkers. ATC. Philadelphia, May 2-6, 2015.

Publications

Emerson RO*, Mathew JM*, Konieczna IM, Robins HS and Leventhal JR. Defining the alloreactive T cell repertoire using high-throughput sequencing of mixed lymphocyte culture. PlosOne: November 2014. 9 (11): e11943. (*Co-first authors).

Gallon L, Traitanon O, Sustento-Reodica N, Leventhal J, Ansari MJ, Gehrau RC, Ariyamuthu V, De Serres SA, Alvarado A, Chhabra D, Mathew JM, Najafian N, Mas V. Cellular and molecular immune

Faculty Honors/Awards/Publications

profiles in renal transplant recipients after conversion from tacrolimus to sirolimus. *Kidney Int.* 2015 Apr;87(4):828-38. doi: 10.1038/ki.2014.350. Epub 2014 Oct 29.

Mathew JM, Tryphonopoulos P, DeFaria W, Ruiz P, Miller J, Barrett TA, Tzakis AG and Kato T. Role of Innate and acquired immune mechanisms in clinical intestinal transplantation. *Transplantation.* 2015 Jun;99(6):1273-81. (Figure on the cover of the journal issue; the article made the cut for Editor's Choice).

Leventhal JR, Elliott MJ, Esma Y, Bozulic L, Tollerud D, Mathew JM, Ison M, Konieczna IM, Galvin JP, Badder M, Abecassis MM, Miller J, Gallon L, Mehta J and Ildstad ST. Immune Reconstitution in Recipients of combined living donor kidney/hematopoietic Stem Cell Transplants. *Transplantation* 2015. 99: 288-298.

Gallon L, La Monica G, Yu Y, Shi B, Traitanon O, Leventhal JR, Miller J, Mas V, Xu L and Mathew JM. Differential Effects of Calcineurin and mTOR Inhibitors on Alloreactive Th1, Th17 and Tregs. *Transplantation.* 2015; 99(6):1273-81.

Traitanon O*, Mathew JM*, La Monica G*, Xu L, Mas V and Gallon L. Differential Effects of Tacrolimus versus Sirolimus on the Proliferation, Activation and Differentiation of Human B Cells. *PLoS ONE.* 2015;10(6):e0129658. doi: 10.1371/journal.pone.0129658. (*Co-first authors).

Leventhal JR*, Mathew JM*, Salomon DR, Kurian SM, Friedewald J, Gallon L, Konieczna I, Tambur AR, , charette j, Levitsky J, Jie C, Kanwar YS, Abecassis MM and Miller J. Non-Chimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/Genomic Biomarkers. *American J. of Transplantation;* (Published online in Aug 2015). (*Co-first authors)

Patrick M. McCarthy, MD

Presentations

The Spectrum of Surgical Mitral Valve Disease in 2014. *Valvular Heart Disease. Echo Northwestern* 2014; 36th Annual Program. Northwestern University Feinberg School of Medicine. Chicago, IL, September 2014.

How It All Began 10 Years Ago. Session II: The Definitive State of the Art: Heart Failure. Tenth Annual Heart Failure Holiday Symposium. Northwestern University Feinberg School of Medicine. Chicago, IL, December 2014.

The Bluhm Cardiovascular Institute (BCVI) - A Decade in Review. 8th Annual Women's Cardiovascular Health Symposium. Chicago, IL, May 2015.

Session III: Tricuspid Valve Disease. Moderator and Real Cases Presenter. AATS/ACCF 2014 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, September 2014.

When to Operate on Tricuspid Valve. AATS/ACCF 2014 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, September 2014.

Surgical Approach to AF in Mitral Valve Disease. AATS/ACCF 2014 Heart Valve Summit: Medical, Surgical and Interventional Decision Making. Chicago, IL, September 2014.

Commentary: Why HF Therapies Fail: Bad Idea, Bad Science, Wrong Patient Population, Poor Trial Design or Hypo? Session I: 30 Years of Heart Failure Management: What Have We Learned from Our Failures? 21st Century Treatment of Heart Failure: Synchronizing Surgical and Medical Therapies for Better Outcomes. Celebrating 30 yrs of Heart Transplantation at Cleveland Clinic (1984-2014). Cleveland, OH, October 2014.

Session III: Kaufman Center Awardee and Keynote Lecture. 21st Century Treatment of Heart Failure: Synchronizing Surgical and Medical Therapies for Better Outcomes. Celebrating 30 yrs of Heart Transplantation at Cleveland Clinic (1984-2014). Cleveland, OH, October 2014.

Pulmonary Vein Isolation is Inadequate: The Only Effective AF Treatment is Cox Maze IV. Dallas

Leipzig Valve 2014. Dallas, TX, December 2014.

Surgical Management of Atrial Fibrillation in Those Undergoing CABG or AVR: PVI or Bi-Atrial Maze Operation. The Society of Thoracic Surgeons (STS) 51st Annual Meeting. STS/AATS Tech-Con 2015. San Diego, CA, January 2015.

Discussions in Cardiothoracic Treatment and Care - Surgical Ablation for Atrial Fibrillation. Seminars in Thoracic and Cardiovascular Surgery. The Society of Thoracic Surgeons (STS) 51st Annual Meeting. San Diego, CA, January 2015.

Ask the Expert: Controversies in Mitral Valve and Atrial Fibrillation Surgery. The Society of Thoracic Surgeons (STS) 51st Annual Meeting. San Diego, CA, January 2015.

Surgical Treatment - How does Echo Help? Session: Mitral Valve Disease: Degenerative Mitral Valve Disease. 28th Annual ASE: State-of-the-Art Echocardiography. Scottsdale, AZ, February 2015.

Surgery for Ischemic MR: When to Repair vs. Replace. Session: Ischemic Mitral Valve Disease. 28th Annual ASE: State-of-the-Art Echocardiography. Scottsdale, AZ, February 2015.

Surgical Considerations of Tricuspid Regurgitation. Session: Tricuspid Valve Disease. 28th Annual ASE: State-of-the-Art Echocardiography. Scottsdale, AZ, February 2015.

When is the Ventricle too Sick for Mitral Surgery? Breakout Session III: Ischemic Mitral Regurgitation. 2015 AATS Mitral Conclave. New York, NY, April 2015.

Case Presentations for "Severe Ischemic Mitral Regurgitation - Making the Case to Replace." Edwards Lifesciences sponsored Luncheon Symposium during 2015 AATS Mitral Conclave. New York, NY, April 2015.

When to do Tricuspid Valve Repair in 2015. Breakout Session XIV: Tricuspid Valve Repair. 2015 AATS Mitral Conclave. New York, NY, April 2015.

Mitral Valve Repair vs. Replacement. Florida Society of Thoracic and Cardiovascular Surgeons: 48th Annual Scientific Meeting. Key Largo, FL, July 2015.

A New Quantitative Approach to Mitral Surgery to Optimize Outcomes. The 67th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery. Fukuoka, Japan, October 2014.

Tricuspid Valve Surgery: New Guideline and Improved Outcomes. Luncheon Seminar. The 67th Annual Scientific Meeting of the Japanese Association for Thoracic Surgery. Fukuoka, Japan, October 2014.

Publications

Provide complete bibliographic information (title, name of source, volume, page numbers, year, etc.). Do not list publications that are "in preparation" or "submitted". Publications "in press" will be accepted. Do not include abstracts, translations or videos.

Comparison of hemodynamics after aortic root replacement using valve-sparing or bioprosthetic valved conduit. Edouard Semaan, Jeremy D Collins, Alex Barker, Patrick McCarthy, James C Carr, Michael Markl, S. Chris Malaisrie *Ann Thorac Surg* 2015 in press, proofs returned 6-9-2015.

Paravalvular regurgitation after conventional aortic and mitral valve replacement: A benchmark for alternative approaches. Brett F. Duncan, MD, Patrick M. McCarthy, MD, Jane Kruse, RN, BSN, Adin-Cristian Andrei, PhD, Zhi Li, MS, Hyde M. Russell, MD, Travis O. Abicht, MD, Vera H. Rigolin, MD, James D. Thomas, MD, Charles J Davidson, MD, Robert O. Bonow, MD, S. Chris Malaisrie, MD *JTCVS* in press (accepted 6-2015)

Mitral leaflet clefts: innocent bystander or covert foe? Patrick M. McCarthy *Heart.* 2015 Jul 15;101(14):1087-8.

Overcoming Reporting Challenges: How to Display, Summarize and Model Late Reintervention Out-

comes, Follow-Up and Vital Status Information After Surgery for Atrial Fibrillation. Adin-Cristian Andrei, PhD, MS, Patrick M. McCarthy, MD, James D. Thomas, MD, Travis O. Abicht, MD, S. Chris Malaisrie, MD, Zhi Li, MS, Jane Kruse, BSN, Albert L. Waldo, MD, PhD (Hon), Hugh Calkins, MD, James L. Cox, MD *Heart Rhythm.* 2015 Jul;12(7):1456-63.

Comparison of Outcomes and Presentation in Men-versus-Women with Bicuspid Aortic Valves Undergoing Aortic Valve Replacement. Adin-Cristian Andrei PhD, Ajay Yadlapati MD, S. Chris Malaisrie MD, Jyothy J. Puthumana MD, Zhi Li MS, Vera H. Rigolin MD, Marla Mendelson MD, Colleen Clennon BSN, Jane Kruse BSN, Paul W. M. Fedak MD, James D. Thomas MD, Jennifer A. Higgins MD, Daniel Rinewalt MD, Robert O. Bonow MD, Patrick M. McCarthy MD *AJC Am J Cardiol.* 2015 Jul 15;116(2):250-5.

The addition of hemiarth replacement to aortic root surgery does not affect safety. S. Chris Malaisrie, MD, Brett F. Duncan, MD, Chris K. Mehta, MD, Mitesh V. Badiwala, MD, Dan Rinewalt, MD, Jane Kruse, RN, BSN, Zhi Li, MS, Adin-Cristian Andrei, PhD, Patrick M. McCarthy, MD *J Thorac Cardiovasc Surg.* 2015 Jul;150(1):118-124.

"Evolving Approaches to Tricuspid Valve Surgery: Moving To Europe?" McCarthy PM. *J Am Coll Cardiol.* 2015 May 12;65(18):1939-40.

Papillary Fibroelastoma of the Aortic Valve: An Analysis of 21 Cases Including A Case Presenting With Cardiac Arrest. Ikegami H, McCarthy PM, Malaisrie SC, Andrei AC, Li Z *Tex Heart Inst J.* 2015 Apr 1;42(2):131-5

Effect of Left Ventricular Diastolic Function and Left Atrial Volume Following Septal Myectomy in Patients with Hypertrophic Cardiomyopathy. Albree Tower-Rader MD, Nicholas Furiase MD, Jyothy Puthumana MD, Jane Kruse RN, Zhi Li MS, Adin-Cristian Andrei PhD, Vera Rigolin MD, Robert O. Bonow MD, Patrick McCarthy MD, and Lubna Choudhury MD *Am J Cardiol* 2014;114:1568-1572

A Simple Approach to Mitral Valve Repair: Posterior Leaflet Height Adjustment Using a Partial Fold of the Free Edge. Abicht T, Andrei A, Kruse J, McDonald E, Li Z, McCarthy PM. *J Thorac Cardiovasc Surg* 2014;148: 2780-6

Mortality While Waiting for Aortic Valve Replacement. Malaisrie S, McDonald E, Kruse J, Li Z, McGee E, Abicht T, Russell H, McCarthy PM, Andrei, A. *Ann Thorac Surg* 2014;98:1564-71

Merrit BA, Turin A, Markl M, Malaisrie SC, McCarthy PM, Carr JC., Association between leaflet fusion pattern and thoracic aorta morphology in patients with bicuspid aortic valve. *J Magn Reson Imaging.* 2014 Aug;40(2):294-300.

Michael McGee, MD

Honors/Awards

Bestowed Fellowship of the American Society of Colon and Rectal Surgeons, 2015

Excellence in Teaching Award 2014, Department of Surgery, Feinberg School of Medicine, Northwestern University Illinois Surgical Society Local Meeting Arrangements Co-Chairperson, 2015

Associate editor for Selected Readings in *General Surgery*, 2015

Presentations

"Management of the Stenotic, Bleeding, Leaking or Fistulizing Colonic Anastomosis" American Society of Colon and Rectal Surgeons Annual Meeting, Boston, Massachusetts, 2015.

"Hemorrhoids: A Surgeon's Perspective" American Society of Gastrointestinal Endoscopists (ASGE) Hands-On Course Hemorrhoid Therapies, DDW, Washington, DC, 2015.

"Improving the Quality of Life for the Patient with a Colostomy", American College of Surgeons Clinical Congress, 2014, San Francisco, CA.

"Colonoscopic Polypectomy" Postgraduate Flexible

Faculty Honors/Awards/Publications

Endoscopy Course, American College of Surgeons Clinical Congress, 2014, San Francisco, CA.

“Hemorrhoids” Postgraduate Skills for Rural Surgeons: Advanced Endoscopic Techniques and Resource Utilization Course, American College of Surgeons Clinical Congress, 2014, San Francisco, CA.

“Severe Clostridium difficile colitis: When to operate?” Chicago Colorectal Symposium – 3rd Annual Program: Chicago, March 21, 2015.

Publications

Helenowski IB, Demirtas H, McGee MF. A Semi-parametric Approach to Impute Mixed Continuous and Categorical Data. *Health Services and Outcomes Research Methodology*, 2014, 14(4):183-193.

McGee, MF, Cataldo, P, Stomas. In: *The ASCRS Textbook of Colon and Rectal Surgery* (3rd ed), 2015, in press. Springer.

McGee, MF. *Lower Endoscopy*. SAGES Fundamentals of Endoscopic Surgery, 2015, in press.

McGee, MF. “Book Review: Complexities in Colorectal Surgery: Decision-Making and Management” *Journal of Surgical Oncology*, 2014.

McGee MF, Benson AB. “Adjuvant Chemotherapy for Stage II Colon Cancer: Everyone Still Needs a Tailor”. *Ann Surg Onc*, 21(6):1765-1767, 2014. PMID: 24627156

Shari L. Meyerson, MD

Honors/Awards

November 13, 2014 Excellence in Teaching Award, Northwestern University Department of Surgery

Presentations

Meyerson SL. How to acquire new technical skills using simulation. Tech Con, Society of Thoracic Surgeons 52nd Annual Meeting, San Diego CA, January 25, 2015.

Meyerson SL, Balderson SS, D'Amico TA. Training assistants improves the process of adoption of video assisted thoracic surgery lobectomy. Society of Thoracic Surgeons 52nd Annual Meeting, San Diego CA, January 27, 2015

Fryer JP, Teitelbaum EN, George BC, Schuller MC, Meyerson SL, DaRosa DA. The impact of ongoing assessment of resident operative autonomy on the OR environment. Association of Program Directors in Surgery, Seattle WA, April 21, 2015.

ACS Surgeons as Educators, Atlanta, GA; Faculty, September 13-19, 2014. Curriculum planning Needs assessment; Goals and objectives; Program and faculty evaluation; Measurement and testing

STS University VATS Lobectomy Course. Society of Thoracic Surgeons 51st Annual Meeting, San Diego, CA Course Director, January 29, 2015

Publications

Meyerson SL, Teitelbaum EN, George BC, Schuller MC, DaRosa DA, Fryer JP. Defining the autonomy gap: When expectations do not meet reality in the operating room. *Journal of Surgical Education*, 2014 Nov/Dec; 71(6).

George BC, Teitelbaum EN, Meyerson SL, Schuller MC, DaRosa DA, Fryer JP. Reliability, validity and feasibility of the Zwisch scale for the assessment of intra-operative performance. *Journal of Surgical Education*, 2014 Nov/Dec: 71(6).

Bharat A, Graf N, Cassidy E, Smith S, Gillespie C, Meyerson S, Sporn PHS, Sznajder JJ, DeCamp MM. Pleural gas analysis for detection of alveoleptural fistulae. *Annals of Thoracic Surgery*, 2015 Jun; 99(6):2179-2182.

Phillips J, Knab L, Blatner N, Haghi L, DeCamp M, Meyerson S, Heiferman M, Heiferman J, Gounari F, Bentrem D, Khazie K. Preferential expansion of proinflammatory Tregs in non-small cell lung cancer. *Cancer Immunology, Immunotherapy*, 2015 Jun 6. [epub]

Wandling M, Hoel A, Meyerson S, Rodriguez H,

Shapiro M, Swaroop M, Bharat A. Complex intrathoracic tracheal injury following blunt chest trauma. *American Journal of Respiratory and Critical Care Medicine*, 2015; 192(2):e20-e21.

David D. Odell, MD

Honors/Awards

2013-present Member Transitions to Practice Workforce Society of Thoracic Surgeons

2013-2015 Member Residents Committee American Association for Thoracic Surgery

2013-2014 Lead Editor Operative Dictations in Thoracic Surgery

Book Produced with the Thoracic Surgery Residents Association (TSRA)

2015-present Co-Founder; Secretary/Treasurer Thoracic Education Co-Operative Group (TECOG) National Education Research Consortium

Presentations

Odell DD. ‘IPF vs. Scleroderma: Why the Difference in Terms of Transplantability?’ In the Forum: The Intersection of GERD, Aspiration and Lung Transplantation. *Digestive Disease Week*. May 18, 2015, Washington, DC. (oral)

Odell DD, Macke RA, Shigemura NS, Bhamra JK, Weksler B, Luketich JD, D’Cunha J. ‘Extracorporeal Membrane Oxygenation (ECMO) as a Means of Support in General Thoracic Surgical Procedures.’ *General Thoracic Surgical Club*. March 12-15, 2015, Naples, FL. (oral)

Odell DD. ‘Cardiothoracic Surgery in the United States – Resident Perspective’ In the forum: Current and Future Workforce Issues in Cardiothoracic Surgery: A Staff and Resident Perspective from Canada and the United States. Society of Thoracic Surgeons. January 24-28, 2015, San Diego, CA. (oral)

Bansal S, Hayanga J, Odell DD, Jeong K, Fabio A, Luketich JD, D’Cunha J. ‘Risky Business: Taking the Stigma Out of High Risk Donation in Lung Transplantation’ Society of Thoracic Surgeons. January 24-28, 2015, San Diego, CA. (oral)

Flagg A, Robich MP, LaPar DJ, Odell DD, Stein W, Aftab M, Berfield D, Eilers AL, Groth SS, Lazar JF, Shah AA, Smith D, Stephens EH, Stock CT, Denino WF, Tchanchaleishvili V, Soltesz EG. ‘Understanding Why Residents May Inaccurately Log Their Role in Operations: A Look at the 2013 In-Training Exam Survey.’ Society of Thoracic Surgeons. January 24-28, 2015, San Diego, CA. (oral)

Nguyen TC, Odell DD, Stephens EH, Loor G, LaPar DJ, DeNino WF, Wei B, Aftab M, Macke RA, Nelson JS, Berfield K, Lazar J, Stein W, Youssef SJ, Tchanchaleishvili V. ‘Residents’ Perceptions of Two - vs. Three-year Cardiothoracic Training Programs (2013 and 2014 TSRA/TSDA In-training Exam Survey).’ Southern Thoracic Surgical Association, Tucson, Arizona, November 5-8, 2014 (oral)

Odell DD, La Par D, Macke RA, Loor G, DeNino WF, Stein B, Nelson JS, Berfield K, Lazar J, Tchanchaleishvili V, Youssef S, Nguyen TC. Learning Habits of the Current Cardiothoracic Resident: Analysis of the In-training Examination Survey. Southern Thoracic Surgical Association, Tucson, Arizona, November 5-8, 2014 (oral)

Bianco V, Sablowski M, Mehta KS, Hamilton A, Odell D, Gooding WE, Luketich JD, Pennathur A. ‘Evaluation of the Accuracy of Endoscopic Ultrasound for Stage I Esophageal Cancer.’ American College of Surgeons. October 26-30, 2014, San Francisco, CA. (oral)

Publications

Odell DD, LaPar DJ, Macke RA, Loor G, DeNino WF, Stein W, Nelson JS, Stephens EH, Wei B, Berfield K, LaZar JF, Vakhtang Tchanchaleishvili V, Youssef SJ, Nguyen TC. Learning Habits of Thoracic Surgery Residents: Lessons from the In-Training Examination Survey. Accepted with revisions. *Annals of Thoracic Surgery*.

Odell DD, Macke RA, Tchanchaleishvili V, Loor G, Nelson JS, LaPar DJ, LaZar JF, Wei B, DeNino WF, Berfield K, Stein W, Youssef SJ, Nguyen TC. Resident Perceptions of Technical Skills Education in Modern Cardiothoracic Surgery Training: Results from the 2013 In-Training Examination Survey. In *Press*. *Annals of Thoracic Surgery* (ATS/2014/436998)

Kent MS, Ridge C, Odell DD, Lo P, Whyte R, Gangadharan SP. The accuracy of computed tomography to predict completeness of pulmonary fissures. A prospective study. *Ann Am Thorac Soc*. 2015 May;12(5):696-700. doi: 10.1513/AnnalsATS.201407-343OC.

Nguyen TC, Terwelp MD, Stephens EH, Odell DD, Loor G, LaPar DJ, DeNino WF, Wei B, Aftab M, Macke RA, Nelson JS, Berfield KS, Lazar JF, Stein W, Youssef SJ, Tchanchaleishvili V. Resident Perceptions of 2-Year Versus 3-Year Cardiothoracic Training Programs. *Ann Thorac Surg*. 2015 Jun;99(6):2070-6. doi: 10.1016/j.athoracsur.2015.01.031. Epub 2015 Apr 8.

Tchanchaleishvili V, LaPar DJ, Odell DD, Stein W, Aftab M, Berfield KS, Eilers AL, Groth SS, Lazar JF, Robich MP, Shah AA, Smith DA, Stephens EH, Stock CT, DeNino WF, Nguyen TC. Predictors of Career Choice Among Cardiothoracic Surgery Trainees. *Ann Thorac Surg*. 2015 Jul 7. pii: S0003-4975(15)00700-6. doi: 10.1016/j.athoracsur.2015.04.073.

Stephens EH, Odell DD, Stein W, LaPar DJ, DeNino WF, Aftab M, Berfield K, Eilers AL, Groth S, Lazar JF, Robich MP, Shah AA, Smith DA, Stock C, Tchanchaleishvili V, Mery CM, Turek JW, Salazar J, Nguyen TC. A Decade of Change: Training and Career Paths of Cardiothoracic Surgery Residents 2003 to 2014. *Ann Thorac Surg*. 2015 Jul 11

Macke RA, Schuchert MJ, Odell DD, Wilson DO, Luketich JD, Landreneau RJ. Parenchymal preserving anatomic resections result in less pulmonary function loss in patients with Stage I non-small cell lung cancer. *J Cardiothorac Surg*. 2015 Apr 1;10:49. doi: 10.1186/s13019-015-0253-6.

Tchanchaleishvili V, LaPar DJ, Stephens EH, Berfield KS, Odell DD, DeNino WF. Current Integrated Cardiothoracic Surgery Residents: A Thoracic Surgery Residents Association Survey. *Ann Thorac Surg*. 2015 Mar;99(3):1040-7

William H. Pearce, MD

NU Feinberg School of Medicine Teaching Hall of Fame, 2014

Course director, 39th Annual Northwestern Vascular Symposium, 2014

Presentations

“How Do I Assess a Patient with Suspected Carotid or Vertebral Artery Disease?” ECHO Northwestern 2014, Chicago, IL, September 20-22, 2014.

Moderator, “Current Issues in Vascular Surgery”, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11-13, 2014.

Moderator, “Complex Arterial and Venous Diseases”, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11-13, 2014.

“Diagnosis and Treatment of Popliteal Entrapment”, 39th Annual Northwestern Vascular Symposium, Chicago, IL, December 11-13, 2014.

Publications

Ju MH, Pearce WH. Asymptomatic aortic occlusion secondary to abdominal aortic Aneurysm. *J Vasc Surg* 2014;60:503. (cover article) PMID 25064327

Korman BD, Huang CC, Skamra C, Wu P, Kossler R, Yao D, Huang QQ, Pearce W, Sutton-Tyrrell K, Kondos G, Edmundowicz D, Pope R, Ramsey-Goldman R. Inflammatory expression profiles in monocyte-to-macrophage differentiation in patients with systemic lupus erythematosus and

Faculty Honors/Awards/Publications

relationship with atherosclerosis. *Arthritis Res Ther* 2014;16:R147. PMID 25011540

Duc Thinh Pham, MD

Presentations

Northwestern University VAD Program. 3rd Annual Mid-Summer Chicagoland Perfusion Meeting. Ann & Robert H. Lurie Children's Hospital of Chicago. Chicago, IL. July 2015 (Invited)

Treatment of Advanced Heart Failure and Cardiogenic Shock. American Heart Association Annual Meeting. Chicago, IL. November 2014. (Invited)

Acute management of cardiogenic shock with peripherally implanted devices: TandemHeart. Heart Failure Society of America Annual Meeting. Las Vegas, NV. October 2014. (Invited)

Acute management of cardiogenic shock with peripherally implanted devices: CentriMag. Heart Failure Society of America Annual Meeting. Las Vegas, NV. October 2014. (Invited)

Right ventricular failure in patients with left-ventricular assist device. Heart Failure Society of America. Las Vegas, NV. October 2014 (Session Moderator)

HeartWare HVAS North American Regional Training. Boston, MA. October 2014. (Course Director)

Acute mechanical support in an advanced heart failure program. Abiomed Scientific Advisory Meeting. Andover, MA. October 2014. (Invited)

Publications

Kapur N, Jumean M, Halin N, Kiernan M, Denofrio D, Pham DT. The ventricular square-wave response: a case illustrating the role of invasive hemodynamics in the management of continuous-flow left ventricular assist device dysfunction. Accepted by *Circulation*: Heart Failure March 2015.

Borden M, Kiernan MS, Pham DT, Denofrio D, Sylvia L. Bridging with half-therapeutic dose enoxaparin in outpatients with left ventricular assist devices and sub-therapeutic international normalized ratios. *J Heart Lung Transplant*. Feb 7 2015. S1053-2498(15)01029-3.

Kapur NK, Paruchuri V, Majithia A, Esposito M, Shih H, Weintraub A, Kiernan MS, Pham DT, Denofrio D, Kimmelstiel C. Hemodynamic effects of standard versus larger-capacity intra-aortic balloon counterpulsation pumps. *J Invasive Cardiol*. April 2015; 27(4):182-8.

Kiernan MS, French AL, Denofrio D, Parmar UJ, Pham DT, Kapur NK, Pandian NG, Patel AR. Preoperative three-dimensional echocardiography to assess risk of right ventricular failure following left ventricular assist device surgery. *J Card Failure*. March 2015;21(3):189-97.

Jumean M, Pham DT, Kapur NK. Percutaneous biatrial extracorporeal membrane oxygenation for acute circulatory support in advanced heart failure. *Catheter Cardiovasc Interv*. Dec 22, 2014 (E-pub ahead of print)

Kapur NK, Paruchuri V, Pham DT, Reyelt L, Murphy B, Beale C, Wiener D, Nilson J, Esposito M, Perkins S, Perides G, Karas RH. Hemodynamic effects of left atrial or left ventricular cannulation for acute circulatory support in a bovine model of left heart injury. *ASAIO J*. Dec 2014 (E-pub ahead of print)

Sheu R, Joshi B, High K, Pham DT, Ferreira R, Cobey F. Perioperative management of patients with left ventricular assist devices undergoing non-cardiac procedures: a survey of current practices. *J Cardiothorac Vasc Anesth*. November 2014.

Sylvia LM, Ordway L, Pham DT, DeNofrio D, Kiernan M. Bivalirudin for treatment of LVAD thrombosis: a case series. *ASAIO J*. Nov-Dec 2014;60(6):74-7.

Milano C, Pagani FD, Slaughter MS, Pham DT, Hathaway DR, Jacoski MV, Najarian KB, Aaronson KD, ADVANCE Investigators. Clinical outcomes after implantation of a centrifugal flow left ventricular assist device and concurrent cardiac valve procedures. *Circulation*. September 2014 9;130(11 Suppl

1):S3-11.

Otto Placik, MD

Presentations

Invited speaker: Northwestern University Grand Rounds May 22, 2015. Chicago, IL. Presentation on the Labiaplasty Procedure

CBS NEWS Chicago. Nov. 2014 "Liposuction of the lower legs – the calf and ankle region".

Publications

International Society for the Study of Women's Sexual Health February 19-22, 2015 Austin, TX

"Body Image and Sexual Considerations of Women Following Genital Plastic/Cosmetic Procedures: THE VULVOVAGINAL AESTHETIC SURGERY EVALUATION ("VASE-2") STUDY 2-YEAR RESULTS" (presentation # 26) –Contributing author-Otto J. Placik, M.D.

Anat Roitberg-Tambur, MD

Honors/Awards

President Elect – ASHI – Sept 2014

Associate Editor, American Journal of Transplantation (AJT) – May 2015

United Network of Organ Sharing (UNOS) - board member – June 2015

Member of advisory board – Astellas – June 2015

Presentations

What is a Virtual Crossmatch and how to use it to facilitate transplantation – World Transplant Congress (WTC) July 2014

Clinical relevance (valorization) of anti-HLA antibodies specificity and strength of reaction (MFI) identified by Single Antigen in the post-transplant Associação Brasileira de Histocompatibilidade – ABH, Brazil August 2014

Virtual crossmatch: how to overcome some of the technical limitations Associação Brasileira de Histocompatibilidade – ABH, Brazil August 2014

HLA epitope matching in clinical transplantation Associação Brasileira de Histocompatibilidade – ABH, Brazil August 2014

Making the most of antibody testing – grand rounds University of Wisconsin, Madison invitation by department of Transplantation, December 2014.

Antibodies in thoracic transplantation – shading new light on the subject - Why do antibodies occur – American Transplant Congress (ATC) May 2015

HLA epitope matching – Is it ready for prime time: pros and cons – American Transplant Congress (ATC) May 2015

HLA epitopes as viewed by antibodies - The Fundación Argentina de Trasplante de Organos y Tejidos, 3er Milenio (Argentine Foundation for Organ and Tissues 3rd Millennium). Argentina July 2015

Publications

Tambur AR and Class FHJ. HLA epitopes as viewed by antibodies: what is it all about? *Am J Transplant* 2015 15:1148-1154

Duquesnoy RJ, Kamoun M, Baxter-Lowe LA, Woodle ES, Bray RA, Claas FHJ, Eckels DD, Friedewald JJ, Fuggle SV, Gebel HM, Gerlach JA, Fung JJ, Middleton D, Nickerson O, Shapiro R, Tambur AR, Taylor CJ, Tinckam K, Zeevi A. Personal Viewpoint: Should HLA Mismatch Acceptability for Sensitized Transplant Candidates Be Determined at the High-Resolution rather than the Antigen Level? *Am J Transplant* 2015, 15:923-930

Frankfurt O, Zitzner J, Tambur AR. Real-time qPCR for chimerism assessment in allogeneic hematopoietic stem cell transplants from unrelated adult and double umbilical cord blood. *Human Immunology* 2015, 76:155-160

Tambur AR, Herrera ND, Haareberg KMK, Cusick MF, Gordon RA, Leventhal JR, Friedewald JJ, Glotz D. Assessing antibody strength: comparison of MFI, C1q, and Titer information. *AJT* 2015; Apr 30 Epub

Tambur AR, Haareberg KMK, Friedewald JJ, Leventhal JR, Cusick MF, Jaramillo A, Abecassis MM, Kaplan B. Unintended consequences of the new national kidney allocation policy in the US. *Am J Transplant*. 2015 Jul 2. [Epub ahead of print] Leventhal JR, Mathew J, Salomon DR, Kurian SM, Friedewald JJ, Gallon L, Konieczna I, Tambur AR, Charette J, Levitsky J, Jie C, Kanwar YS, Abecassis MM, Miller J. Non-Chimeric HLA-Identical Renal Transplant Tolerance: Regulatory Immunophenotypic/Genomic Biomarkers *AJT* 2015, in press

Duquesnoy RJ, Gebel HM, Woodle ES, Nickerson P, Baxter-Lowe LA, Bray RA, Claas FH, Eckels DD, Friedewald JJ, Fuggle SV, Gerlach JA, Fung JJ, Kamoun M, Middleton D, Shapiro R, Tambur AR, Taylor CJ, Tinckam K, Zeevi A. High-Resolution HLA Typing for Sensitized Patients: Advances in Medicine and Science Require Us to Challenge Existing Paradigms. *Am J Transplant*. 2015 Jul 14. [Epub ahead of print]

Glotz D, Tambur A. Stratifying Patients Based on Epitope Mismatching: Ready for Primetime? *Am J Transplant*. 2015 Aug;15(8):2021-2.

Heron Rodriguez, MD

Honors/Awards

2014-2015 Excellence in Teaching in the Surgery Clerkship Award

Presentations

Tomita TM, Rodriguez HE, Hoel AW, Ho KJ, Pearce WH, Eskandari MK. Vascular surgery assistance in the operating room: A crucial hospital asset. Presented at the Vascular Annual Meeting. Chicago, IL, June 17, 2015.

Publications

Morgan CE, Lee CJ, Chin JA, Eskandari MK, Morasch MD, Rodriguez HE, et al. High-risk anatomic variables and plaque characteristics in carotid artery stenting. *Vascular and endovascular surgery*. 2014;48(7-8):452-9.

Kumar HR, Rodriguez HE, Eskandari MK. Mid-term outcomes of self-expanding covered stent grafts for repair of popliteal artery aneurysms. *Surgery*. 2015;157(5):874-80.

Rodriguez-Muela C, Rodriguez HE, Arzola C, Diaz-Plascencia D, Ramirez-Godinez JA, Flores-Marinelarena A, et al. Antioxidant activity in plasma and rumen papillae development in lambs fed fermented apple pomace. *J Anim Sci*. 2015;93(5):2357-62.

Hyde M Russell, MD

Presentations

Transcatheter Aortic Valve Insertion in the Elderly. Grand Rounds Saint Joseph's Hospital, Chicago, IL. May 6, 2015. Invited Speaker

"Del Nido Cardioplegia" Grand Rounds, Loyola Medical Center. Chicago, IL., June 10, 2015. (Invited Speaker)

TAVR: TAVR Experience and Economics. What will TAVR look like in 5 years? Will you be replaced by an interventional Cardiologist? Midwest Valve Symposium. Chicago, IL., June 18, 2015

Mitral Valve Repair in Marfan Syndrome. 2015 Marfan Conference, Northwestern University School of Medicine. Chicago, IL., August 2015

Publications

Duncan BF, McCarthy PM, Kruse J, Andrei AC, Li Z, Russell HM, Abicht TO, Rigolin VH, Thomas JD, Davidson CJ, Bonow RO, Malaisrie SC. Paravalvular regurgitation after conventional aortic and mitral valve replacement: A benchmark for alternative

Faculty Honors/Awards/Publications

approaches. *Thorac Cardiovasc Surg*. 2015 Jun 27.

T Kulat B, Russell HM, Sarwark AE, R Zingle N, Moss ST, Mongé MC, Backer CL. Modified Tandem-Heart ventricular assist device for infant and pediatric circulatory support. *Ann Thorac Surg*. 2014 Oct;98(4):1437-41.

Backer CL, Mongé MC, Russell HM, Popescu AR, Rastatter JC, Costello JM. Reoperation after vascular ring repair. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2014;17(1):48-55.

Malaisrie SC, McDonald E, Kruse J, Li Z, McGee EC Jr, Abicht TO, Russell H, McCarthy PM, Andrei AC. Mortality while waiting for aortic valve replacement. *Ann Thorac Surg*. 2014 Nov;98(5):1564-70.

Joseph Schneider, MD

Publications

Schneider JR, Patel NH, Kim S, Verta MJ. Pre-emptive coil occlusion of major aberrant renal artery to allow endovascular repair of abdominal aortic aneurysm with crossed fused renal ectopia. *Ann Vasc Surg* 2014;28:1318.e1-1318.e6

Schneider JR, Helenowski IB, Jackson CR, Verta MJ, Zamor KC, Kim S, Hoel AW. A comparison of results with eversion vs. conventional carotid endarterectomy from the Vascular Quality Initiative and the Mid-America Vascular Study Group. *J Vasc Surg* 2015;61:1216-1222.

Perkowski DJ, Wagner S, Muller K, Schneider JR, St. Cyr JA. Ten year experience of using a novel metabolic protocol in 'off pump' coronary artery bypass revascularization. *Ther Adv Cardiovasc Dis* 2015; DOI 10.1177/1753944715587166

Steven Schwulst, MD

Honors/Awards

July 2015 American College of Surgeons C. James Carrico Faculty Research Fellowship Award Winner

Feb 2015 Central Surgical Association Foundation Turcotte Award

July 2014 Shock Society Research Fellowship for Early Career Investigators Award Winner

Presentations

Invited Speaker. The Role of Macrophage Polarization in Brain Injury Repair and Regeneration after Traumatic Brain Injury. Shock Society, 38th Annual Conference on Shock. Denver, CO. June 6-9, 2015.

Publications

July 2015 American College of Surgeons C. James Carrico Faculty Research Fellowship Award Winner

Feb 2015 Central Surgical Association Foundation Turcotte Award

July 2014 Shock Society Research Fellowship for Early Career Investigators Award Winner

Anton Skaro, MD

Presentations

Invited Speaker, Resurrection Health Care Saint Joseph Hospital. Grand Rounds. Risk-Adjusted Transplant Outcomes - Effect on Center Behavior, February 11, 2015.

Invited Speaker, American Transplant Congress (ATC), Philadelphia, Pennsylvania. Do DCD Liver Transplants in the United States Cause Distributive Good or Harm? May 5, 2015

Publications

Parikh ND, Skaro AI, Ladner DP, Lyuksemburg V, Cahan JG, Daud A, Butt Z. Clinical outcomes and quality of life in recipients of livers donated after cardiac death. *Gastroenterol Res Pract*. 2015 Feb;2015:680316. doi: 10.1155/2015/680316.

VanWagner LB, Lapin B, Skaro AI, Lloyd-Jones DM, Rinella ME. Impact of Renal Impairment on Cardiovascular Disease Mortality After Liver Transplantation for Nonalcoholic Steatohepatitis Cirrhosis. *Liver Int*. 2015 May 15. doi: 10.1111/liv.12872.

Gordon EJ, Rodde J, Skaro A, Baker T. Informed Consent for Live Liver Donors: A Qualitative, Pro-

spective Study. *J Hepatol*. 2015 May 20. pii: S0168-8278(15)00325-6. doi:10.1016/j.jhep.2015.05.003.

Margo Shoup, MD

Honors/Awards

Chair, Diplomats Committee, American Board of Surgery.

President-Elect, Midwest Surgical Association

Nathaniel J. Soper, MD

Honors/Awards

Named in Top Surgeons in Chicago Magazine Society of Surgery of the Alimentary Tract Foundation's 2015 recipient of the Andrew L. Warsaw Master Educator Award
Named President-Elect, 2015-2016 of Society for Surgery of the Alimentary Tract

Presentations

Invited Speaker: Antireflux Surgery in 2014, "Dor-Toupet-Nissen: How Much Should We Wrap?", The International Society for Diseases of the Esophagus, Vancouver, Canada, September 23, 2014

Invited Speaker: "New Procedural Treatments for GERD", XXXVIII Mexican Association of Surgery, Leon Gto. Mexico, October 16, 2014

Invited Speaker: "Surgical Education and Surgical Competence in the XXI century", XXXVIII Mexican Association of Surgery, Leon Gto. Mexico, October 16, 2014

Invited Speaker: "Management of PEH", XXXVIII Mexican Association of Surgery, Leon Gto. Mexico, October 17, 2014

Invited Speaker: "Treatment for Achalasia in 2014", XXXVIII Mexican Association of Surgery, Leon Gto. Mexico, October 17, 2014

Invited Speaker: "A Nickel and Dime Operation with a Million Dollar Complication", 100th American College of Surgeons Clinical Congress, San Francisco, CA, October 27, 2014

Invited Speaker for Panel Session: PS113; Operative Access: What's Proven, What's Not. "Multi-port approach", 100th American College of Surgeons Clinical Congress, San Francisco, CA, October 27, 2014

Invited Lecturer: "The Re-Do Lap Nissen", 85th Argentine Congress of Surgery, Buenos Aires, Argentina, November 3, 2014

Invited Lecturer: "Management of the post Heller patient with dysphagia", 85th Argentine Congress of Surgery, Buenos Aires, Argentina, November 3, 2014

Invited Lecturer: "Controversies in the surgical management of paraesophageal hiatal hernias", 85th Argentine Congress of Surgery, Buenos Aires, Argentina, November 3, 2014

Invited Lecturer: "Engendering Autonomy in Surgical Training", University of New Mexico, Albuquerque, New Mexico, January 23, 2015

Invited Lecturer for SAGES Panel on Complex Paraesophageal Hernias: "The hiatus won't close - now what?", SAGES Annual Meeting, Nashville, TN, April 17, 2015

Invited Lecturer: Post Graduate Course Presentation: "Gigantic hiatal hernia: classification and treatment", XXVI AMCE Congress 2015, Puerto Vallarta, MX, May 5, 2015

Invited Speaker: Symposium Presentation: "Laparoscopic treatment of the complicated gallbladder", XXVI AMCE Congress 2015, Puerto Vallarta, MX, May 5, 2015

Invited Speaker: Post Graduate Course Presentation: "New anti-reflux procedures" XXVI AMCE Congress 2015, Puerto Vallarta, MX, May 6, 2015

Invited State of the Art Lecturer: "Current management of achalasia", XXVI AMCE Congress 2015, Puerto Vallarta, MX, May 6, 2015

Invited Speaker: "Minimally Invasive GI Surgery: Past, Present and Future", Ogden Surgical-Medical Society Meeting, Ogden, Utah, May 14, 2015

Invited Lecturer: Surgeons as Leaders Course, American College of Surgeons, Chicago, IL, June 7-10, 2015

Publications

Fischella PM, DeMeester SR, Hungness E, Perretta S, Soper NJ, Rosemurgy A, Torquati A, Sachdeva AK, Patti MG. Emerging Techniques in Minimally Invasive Surgery. *Pros and Cons*. *J Gastrointest Surg*. 2015 Feb 13. PubMed PMID: 25678255.

Jorge AM, Keswani RN, Veerappan A, Soper NJ, Gawron AJ. Non-operative Management of Symptomatic Cholelithiasis in Pregnancy is Associated with Frequent Hospitalizations. *J Gastrointest Surg*. 2015 Apr;19(4):598-603. PubMed PMID: 25650166.

Hunter JG, Kahrilas PJ, Bell RC, Wilson EB, Trad KS, Dolan JP, Perry KA, Oelschlagel BK, Soper NJ, Snyder BE, Burch MA, Melvin WS, Reavis KM, Turgeon DG, Hungness ES, Diggs BS. Efficacy of transoral fundoplication vs omeprazole for treatment of regurgitation in a randomized controlled trial. *Gastroenterology*. 2015 Feb;148(2):324-333.e5. PubMed PMID: 25448925.

Teitelbaum EN, Soper NJ, Santos BF, Rooney DM, Patel P, Nagle AP, Hungness ES. A simulator-based resident curriculum for laparoscopic common bile duct exploration. *Surgery*. 2014 Oct;156(4):880-7, 890-3. PubMed PMID: 25239339.

Soper NJ, DaRosa DA. Presidential address: Engendering operative autonomy in surgical training. *Surgery*. 2014 Oct;156(4):745-51. PubMed PMID: 25239310.

Nicodème F, Soper NJ, Lin Z, Pandolfino JE, Kahrilas PJ. Calculation of esophagogastric junction vector volume using three-dimensional high-resolution manometry. *Dis Esophagus*. 2014 Aug 1. PubMed PMID: 25082444.

Teitelbaum EN, Soper NJ, Pandolfino JE, Kahrilas PJ, Hirano I, Boris L, Nicodème F, Lin Z, Hungness ES. Esophagogastric junction distensibility measurements during Heller myotomy and POEM for achalasia predict postoperative symptomatic outcomes. *Surg Endosc*. 2015 Mar;29(3):522-8. PubMed PMID: 25055891.

Teitelbaum EN, Soper NJ, Santos BF, Arafat FO, Pandolfino JE, Kahrilas PJ, Hirano I, Hungness ES. Symptomatic and physiologic outcomes one year after peroral esophageal myotomy (POEM) for treatment of achalasia. *Surg Endosc*. 2014 Dec;28(12):3359-65. PubMed PMID: 24939164.

Teitelbaum EN, Soper NJ, Pandolfino JE, Kahrilas PJ, Boris L, Nicodème F, Lin Z, Hungness ES. An extended proximal esophageal myotomy is necessary to normalize EGJ distensibility during Heller myotomy for achalasia, but not POEM. *Surg Endosc*. 2014 Oct;28(10):2840-7. PubMed PMID: 24853854.

Editorial

Keswani RN, Soper NJ. (2015) Peer-reviewed Editorial: Endoscopes and the "Superbug" Outbreak. *JAMA Network*, published online July 1, 2015.

Scott Strong, MD

Presentations

Strong SA. Colorectal cancer complicating inflammatory bowel disease. Shanghai International Colorectal Cancer Symposium. Shanghai, China; June 2015.

Strong SA. Emergent management of acute diverticulitis. American Society of Colon and Rectal Surgeons. Boston, Massachusetts; June 2015.

Strong SA. Complex fistula. American Society of Colon and Rectal Surgeons. Boston, Massachusetts; June 2015.

Strong SA. Watch and wait: we can always intervene if symptoms recur. Society for Surgery of the Alimentary Tract. Washington, DC; May 2015.

Faculty Honors/Awards/Publications

Strong SA. Open and laparoscopic approaches to total mesorectal excision. Society for Surgery of the Alimentary Tract. Washington, DC; May 2015.

Strong SA. Crohn's disease. Eastern Surgical Society. Cleveland, Ohio; May 2015.

Strong SA. Management of severe colitis. Illinois Surgical Society. Chicago, Illinois; May 2015.

Strong SA. Challenging surgical decisions in Crohn's disease. Chicago Colorectal Symposium. Chicago, Illinois; March 2015.

Strong SA. Perineal wound healing following proctectomy for Crohn's disease. Society of Pelvic Surgeons. Tampa, Florida; October 2014.

Strong SA. Strictureing small bowel Crohn's disease: resection. American College of Surgeons. San Francisco, California; October 2014.

Strong SA. The management of IBD complications: American experiences. Shanghai International Conference of Gastroenterology. Shanghai, China; August 2014.

Visiting Professor: Mayo Clinic, Division of Colorectal Surgery. Rochester, Minnesota; December 2014.

Publications

Strong SA. Laparoscopic surgery for inflammatory bowel disease. In: Bernstein CN, ed. The Inflammatory Bowel Disease Yearbook; Volume 7; pp.67-82.

Steven Stryker, MD

Presentations

Invited Speaker. Northwestern Integrative Medicine Grand Rounds. Steps to Decrease the Risks of Colorectal Cancer. Chicago, IL. February 19, 2014.
Invited Speaker. 2nd Annual Chicago Colon and Rectal Surgery Resident Symposium. Salvaging the Complicated J-Pouch. Evanston, IL. February 22, 2014.

Invited Speaker. Department of Colorectal Surgery, VGH-TP Medical Center. Preventing Adhesions in Colorectal Surgery. Taipei, Taiwan. July 14, 2014.
Invited Speaker. 7th Biennial Congress of ASEAN Society of Colorectal Surgeons. The Use of Seprafilim Adhesion Barrier in Abdominal Surgery, Singapore.

Cord Sturgeon, MD, MS

Honors/Awards

Named Recorder of American Association of Endocrine Surgeons April 2014-April 2017

Presentations

Invited Speaker: Society of Surgical Oncology Cancer Symposium. The Growing Incidence and Cost of Thyroid Cancer. 3/26/2015. Houston, TX.

American College of Surgeon Clinical Congress. Advanced thyroid and parathyroid ultrasound. 27 Oct 2014. San Francisco, CA Scientific Sessions Moderated:

Journal of Internal Medicine Symposium. New genetics with impact on treatment of endocrine tumor disease. Papers 8-10. June 4, 2015. Uppsala, Sweden.

Multiple Endocrine Neoplasia Patient and Family Seminar. "My primary hyperparathyroidism came back... now what do I do?" July 25, 2015. Northwestern Memorial Hospital. Chicago, IL.

Organized and moderated the 2nd annual Multiple Endocrine Neoplasia Patient and Family Seminar on July 25, 2015 at Northwestern Memorial Hospital, Chicago, IL.

Publications

STURGEON C. All cervical sonography is not created equal. *Ann Surg Oncol.* Feb;22(2):355-7. 2015.

Tuttle RM, Haddad RI, Ball DW, Byrd D, Dickson P, Duh QY, Ehya H, Haymart M, Hoh C, Hunt JP, Jagaru A, Kandeel F, Kopp P, Lamonica DM, Lydiatt WM, McCaffrey J, Moley JF, Parks L, Raeburn CD, Ridge JA, Ringel MD, Scheri RP, Shah JP, Sherman SI, STURGEON C, Waguespack SG, Wang TN, Wirth LJ, Hoffmann KG, Hughes M. Thyroid Carcinoma, Version 2.2014. *J. Natl. Compr. Canc. Netw.* 2014 Dec;12(12):1671-80.

Zanocco K, Butt Z, Kaltman D, Elaraj D, Cella D, Holl JL, STURGEON C. Improvement in patient-reported physical and mental health after parathyroidectomy for primary hyperparathyroidism. *Surgery.* 2015 Sep;158(3):837-45.

Asare EA, STURGEON C, Winchester DJ, Liu L, Palis B, Perrier ND, Evans DB, Winchester DP, Wang TS. Parathyroid Carcinoma: An Update on Treatment Outcomes and Prognostic Factors from the National Cancer Data Base (NCDB). *Ann Surg Oncol.* 2015 Jun 16. [Epub ahead of print]

Mamta Swaroop, MD

Honors/Awards

October 2014. AAS Representative to the G4 Alliance Board (Global Alliance for Surgical, Obstetrics, Trauma, and Anesthesia Care)

December 2014 Chair, Membership Committee, G4 Alliance (Global Alliance for Surgical, Obstetric, Trauma and Anesthesia Care)

January 2015 Clinical Emergency and Trauma Systems, INDO-US Advisory Council for the 11th Annual INDO-EM Summit. New Delhi, India.

April 2015 Scientific Forum Committee, Ad Hoc Member, American College of Surgeons

April 2015 Organizing Committee, World Trauma Congress, 3rd annual Congress for the World Coalition for Trauma Care and 8th annual Congress of the Indian Society of Trauma and Acute Care, August 17-20, New Delhi, India

May 2015 Section Editor Global Medicine and Outreach International Journal of Academic Medicine

Presentations

M Swaroop, E. Yang, C. T. Richards, M. Schuller, S. Krishnaswami. Utilizing Technology to Connect Educational Initiatives across the World. Quickshot Oral Presentation by E Yang at ASC February 2015, Las Vegas, NV

S. Devkota, S. Gupta, S. Ghimire, A. Ranjit, M Swaroop, A. L. Kushner, B. C. Nwomeh Prevalence of injuries due to falls in Nepal: A countrywide population based survey. Quickshot Oral Presentation by S Devkota at ASC February 2015, Las Vegas, NV

DH Rothstein, AL Halverson, M Swaroop Humanitarian Skill Set Acquisition Trends Among Graduating U.S. Surgical Residents, 2003-2013. Quickshot Oral Presentation by DH Rothstein at ASC February 2015, Las Vegas, NV

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

MA Boeck, N Nagarajan, S Gupta, RS Groen, S Shrestha, S Gurung, AL Kushner, B Nwomeh, M

Swaroop. Assessing Access to Surgical Care in Nepal via a Countrywide Survey. ORAL PRESENTATION by MA Boeck. Bethune Round Table 2015, June 4-7, 2015, Calgary, Canada

Publications

Issa N, Bauer R, Khan S, Whitehead J, Biehl J, Salzman D, Swaroop M. ICU Preparedness Course. *MedEdPORTAL Publications*; 2014. <https://www.mededportal.org/publication/9962>

Pal R, Agarwal A, Galwanker S, Swaroop M, Stawicki SP, Rajaram L, Paladino L, Aggarwal P, Bhoi S, Dwivedi S, Menon G, Misra MC, Kalra OP, Singh A, Radjou AN, Joshi A. The 2014 Academic College of Emergency Experts in India's INDO-US Joint Working Group (JWG) White Paper on "Developing Trauma Science and Injury Care in India. *International Journal of Critical Illness and Injury Science.* Vol 4:2, 114-131, April-June 2014.

Stawicki SP, Swaroop M, Galwanker SC, Papadimos TJ. What's new in critical illness and injury science? State of the art in management of ARDS. *International Journal of Critical Illness and Injury Science.* Vol 4:2, 95-98, April-June 2014.

Swaroop M, deVries C. Are we there yet? The Conundrum of Training in Global Surgery... Accepted June 2015, *JAMA Surgery* Editorial.
Rothstein, DH, Swaroop M. Put down the bullet, pick up a scalpel. Accepted June 2015, *General Surgery News.*

Boeck MA, Nagarajan N, Swaroop M. The Role of Public Health in a Global Surgery Fellowship. *J Surg Ed.* Accepted June 2015 Sep; 72(5).

Tarbox, A, Swaroop M. Patient Safety: Medicolegal Considerations. In: Stawicki SP, Galwanker SC, Papadimos TJ, Moffatt-Bruce SD(eds): *Fundamentals of Patient Safety in Medicine and Surgery.* Wolters-Kluwer, 2015.

Gale J, Stanislaw Stawicki, Swaroop M Chapter: Patient-centered Clinical Transformation: Case Examples. In: Stawicki SP, Galwanker SC, Papadimos TJ, Moffatt-Bruce SD(eds): *Fundamentals of Patient Safety in Medicine and Surgery.* Wolters-Kluwer, 2015.

S Siddiqui, KR Moran, T J Papadimos, M Swaroop Chapter: Creating and Sustaining a Culture of Safety in Health Care. In: Stawicki SP, Galwanker SC, Papadimos TJ, Moffatt-Bruce SD(eds): *Fundamentals of Patient Safety in Medicine and Surgery.* Wolters-Kluwer, 2015.

TE Callese, CT Richards, P Shaw, SJ Schuetz, N Issa, L Paladino, M Swaroop: Development and Implementation of Layperson First Responder Trauma Education Programs in Low- and Middle- Income Countries: A Systemic Review. *Journal of Surgical Research,* Vol 190:1, 104-110. July 2014.

TE Callese, CT Richards, P Shaw, SJ Schuetz, N Issa, L Paladino, M Swaroop: Trauma System Development in Low and Middle Income Countries: A Review. *Online Oct 2014. Journal of Surgical Research,* Col 193:1. 300-307. January 2015.

Contributing Author, GBD Collaborators, Global, regional and national age-sex specific all-cause and cause-specific mortality for 240 causes of death, 1990-2013: a systematic analysis for the Global Burden of Disease Study 2013. *The Lancet* Volume 385, No. 9963, 1117-171, January 10, 2015
MW Wandling, AW Hoel, SL Meyerson, HE Rodriguez, MB Shapiro, M Swaroop, A Bharat: Complex Intrathoracic Tracheal Injury following Blunt Chest Trauma. Accepted to *American Journal of Respiratory and Critical Care Medicine,* Vol 192, issue 2. July 15, 2015.

S Cherukupalli, A Singh, C Pathak, J Ji, S Agarwal, A Aggarwal, M Hockstein, I Helenowski, A Bhalla, M Shapiro, A Loharikar, M Swaroop: A Needs Assessment of Charnia, Haryana in Rural India Reveals Significant Socioeconomic and Health Disparities in a Local Geographical Area. In Press: *the Journal of Global Health,* February 2015.

Faculty Honors/Awards/Publications

T Kindel, N Latchana, M Swaroop, UI Chaudhry, SF Noria, RL Choron, MJ Seamon, MJ Lin, M Mao, J Cipolla, M El Chaar, D Scantling, ND Martin, DC Evans, TJ Papadimos, SP Stawicki. Laparoscopy in Trauma: An Overview of Complications and Related Topics. In Press: IJCIIS Symposium, Procedural Complications in Trauma and Critical Care.

S. Devkota, S. Gupta, S. Ghimire, A. Ranjit, M. Swaroop, A. L. Kushner, B. C. Nwomeh Prevalence of injuries due to falls in Nepal: A countrywide population based survey. In press: Annals of Global Health.

Swaroop M, deVries C. Are we there yet? The Conundrum of Training in Global Surgery... In Press: JAMA Surgery Editorial.

Rothstein, DH, Swaroop M. Put down the bullet, pick up a scalpel. July 2015, General Surgery News.

Academic Global Surgery, Success in Academic Surgery Series. Swaroop M and Krishnaswami S (eds). In press Springer.

Nick Tsihlis, MD

Publications

Rodriguez, M.P., Tsihlis, N.D., Emond, Z.M., Wang, Z., Varu, V.N., Jiang, Q., Vercammen, J.M., and Kibbe, M.R. Nitric oxide affects UbcH10 levels differently in type 1 and type 2 diabetic rats. *J. Surg. Res.* 15, 124-9 (2015). PMID: 25801975; PMCID: PMC4430355.

Michael Verta, MD

Publications

Verta MJ. Chronic Venous Disease. Vascular Imaging and Intervention. D Kim, DE Orron, N Patel, A Farber, editors. Jaypee Bros., New Delhi. In Press.

Verta MJ, Singh M, Heldenberg E, Kolbvenbach R, Orron DE. Thoracic Endovascular Aortic Repair. Vascular Imaging and Intervention. D Kim, DE Orron, N Patel, A Farber, editors. Jaypee Bros., New Delhi. In Press.

Patel PJ, Scheidt MJ, Lam CH, Benenati JF, and Verta MJ. Endovascular Aortic Aneurysm Repair. Vascular Imaging and Intervention. D Kim, DE Orron, N Patel, A Farber, editors. Jaypee Bros., New Delhi. In Press

Jeffrey Wayne, MD

Honors/Awards

Elected Secretary-Treasurer, Illinois Surgical Society.

Re-elected Recorder, Chicago Surgical Society.

Promotion to Professor of Surgery and Dermatology.

Elected Vice Chief of Staff, NMH.

Appointed Associate Director for Clinical Affairs, Robert H. Lurie Comprehensive Cancer Center.

Appointed Medical Director for Oncology, NMG.

Publications

von Mehren Randall RL, M, Benjamin RS, Boles S, Bui MM, Casper ES, Conrad EU, DeLaney TF, Ganjoo KN, George S, Gonzalez R, Heslin MJ, Kane JM, Mayerson J, McGarry SV, Meyer C, O'Donnell RJ, Pappo AS, Paz IB, Pfeifer JD, Riedel RF, Schuetze S, Schupak KD, Schwartz HS, Van Tine B, Wayne JD, Bergman MA, Sundar H. Soft Tissue Sarcoma, Version 2.2014. *J Natl Compr Canc Netw.* 2014;12(4):473-83.

Sherman KL, Kinnier CV, Farina DA, Wayne JD, Laskin WB, Agulnik M, Attar S, Hayes JP, Peabody T, Bilimoria KY. Examination of national lymph node evaluation practices for adult soft tissue extremity sarcoma. *J Surg Oncol.* 2014 Nov; 110 (6): 682-688.

von Mehren Randall RL, M, Benjamin RS, Boles S, Bui MM, Casper ES, Conrad EU, DeLaney TF, Ganjoo KN, George S, Gonzalez R, Heslin MJ, Kane JM, Mayerson J, McGarry SV, Meyer C, O'Donnell RJ, Pappo AS, Paz IB, Pfeifer JD, Riedel RF, Schuetze S, Schupak KD, Schwartz HS, Van Tine B, Wayne JD, Bergman MA, Sundar H. Gastrointestinal stromal tumors, Version 2.2014. *J Natl Compr Canc Netw.* 2014;12(6):853-62.

Rawlani R, Rawlani V, Qureshi HA, Kim JYS, and Wayne JD. Reducing margins of wide local excision in head and neck melanoma for function and cosmesis: 5-year local recurrence free survival. *Journal of Surgical Oncology*, 2015 Jun; 111 (7): 795-799.

Gerami P, Cook RW, Russell MC, Wilkinson J, Amaria RN, Gonzalez R, Lyle S, Jackson GL, Greisinger AJ, Johnson CE, Oelschlagel KM, Stone JF, Maetzold DJ, Ferris LK, Wayne JD, Cooper C, Obregon R, Delman KA, Lawson D. Gene expression profiling for molecular staging of cutaneous melanoma in patients undergoing sentinel lymph node biopsy. *J Am Acad Dermatol*, 2015 May; 72(5): 780-785.

Klingensmith ME, Awad M, Delman KA, Deveney K, Fahey TJ 3rd, Lees JS, Lipsett P, Mullen JT, Smink DS, Wayne J. Early Results from the Flexibility in Surgical Training Research Consortium: Resident and Program Director Attitudes Toward Flexible Rotations in Senior Residency. *J Surg Educ.* 2015 (15)00138-5.[Epub ahead of print]

Jason Wertheim, MD, PhD

Publications

Investigating the Potential of Amnion-Based Scaffolds as a Barrier Membrane for Guided Bone Regeneration.

Li W, Ma G, Brazile B, Li N, Dai W, Butler JR, Claude AA, Wertheim JA, Liao J, Wang B. *Langmuir.* 2015 Aug 11;31(31):8642-53. doi: 10.1021/acs.langmuir.5b02362. Epub 2015 Jul 27.

Dual-Purpose Bioreactors to Monitor Noninvasive Physical and Biochemical Markers of Kidney and Liver Scaffold Recellularization.

Uzarski JS, Bijonowski BM, Wang B, Ward HH, Wandinger-Ness A, Miller WM, Wertheim JA. *Tissue Eng Part C Methods.* 2015 Jun 26. [Epub ahead of print]

Initiation of puberty in mice following decellularized ovary transplant.

Laronda MM, Jakus AE, Whelan KA, Wertheim JA, Shah RN, Woodruff TK. *Biomaterials.* 2015 May;50:20-9. doi: 10.1016/j.biomaterials.2015.01.051. Epub 2015 Feb 14.

A polymer-extracellular matrix composite with improved thromboresistance and recellularization properties.

Jiang B, Akgun B, Lam RC, Ameer GA, Wertheim JA. *Acta Biomater.* 2015 May;18:50-8. doi: 10.1016/j.actbio.2015.02.015. Epub 2015 Feb 21.





UPCOMING EVENTS

Surgical Grand Rounds 2015-2016

Thursday 7:00 A.M. — 8:00 A.M.

10/8/2015

Gerald Ujiki Education Grand Rounds & Teaching Awards
Olle Ten Cate, MD
Canning Auditorium—Prentice Building

10/15/2015

Research Presentations
TBD
6th floor, VC Room—Arkes Building

10/29/2015

Steve Ondra
TBD
6th floor, VC Room—Arkes Building

11/5/2015

War Trauma in the Syrian Civil War: Humanitarian Surgery in the Hostile, Low Resource Environment
Samar Attar, MD
6th floor, VC Room—Arkes Building

11/12/15

Surgical Outcomes and Quality Improvement Lectureship
Dorry Segev
6th floor, VC Room—Arkes Building

11/19/2015

TBD
Mark Callery, MD
6th floor, VC Room—Arkes Building

12/17/15

Stephen Evans, MD
Harold Method Lectureship
6th floor, VC Room—Arkes Building

1/14/2016

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

1/21/2016

Education Grand Rounds
Jonathan Fryer, MD
6th floor, VC Room—Arkes Building

2/11/2016

Department of Breast Surgery
TBD
6th floor, VC Room—Arkes Building

2/18/2016

TBD
William Bowler, Jennifer Benton, Scott Stanley
6th floor, VC Room—Arkes Building

3/3/2016

Bergan Lectureship
Juan Parodi, MD
251 E. Huron 2nd floor—Pritzker Auditorium

3/24/2016

Loyal Davis Lectureship
Sam Finlayson, MD
6th floor, VC Room—Arkes Building

3/31/2016

TBD
David Hoyt, MD
6th floor, VC Room—Arkes Building

4/14/2016

Mayo Lectureship
David Larson, MD
6th floor, VC Room—Arkes Building

4/21/2016

Faculty Meeting
Nathaniel Soper, MD
6th floor, VC Room—Arkes Building

4/28/2016

Quality Improvement Presentations
TBD
6th floor, VC Room—Arkes Building

5/5/16

Quality Improvement Presentations
TBD
6th floor, VC Room—Arkes Building

5/12/2016

Education Grand Rounds
Jonathan Fryer, MD
6th floor, VC Room—Arkes Building

6/9/2016

Shields Lectureship
Mark Allen, MD
6th floor, VC Room—Arkes Building

6/17/2016

Edelstone-Bendix Lectureship
Elliot Chaikof, MD
Pritzker Auditorium—Feinberg Building

SAVE THE DATE:

**Edelstone-Bendix Resident Research Day and Faculty Retreat
will be held on June 17, 2016**