Guest Editor Maggie Reilly, MD asked DOS faculty:

“What’s your best memory from your ‘residency research years’?”

Ezra Teitelbaum: “I got to teach the lap common bile duct exploration to all my fellow residents!”

KT Weber: “My senior resident offered to make a poster about our QI project and take it to a local meeting. When I got there, there was a whole collection of 8.5x11” papers, lined up with the abstract contents. I was totally embarrassed!”

Vitaliy Poylin: “I taught my colleagues in Ukraine the principles of clinical trials. They had read about them but not actually conducted any before.”

Satish Nadig: “For the first 6 months, every mouse I operated on died, but my mentors encouraged me to persist. This led to a career-defining paper in *Nature*. I am an expert in embracing failure!”

Sam Kim: “I got married during my research years and had to work 20 moonlighting shifts per month to pay for it, but I was still able to publish 6-7 papers.”

Anne Stey: “I gave a talk at ACS and the moderator started talking about his completely unrelated NEJM paper. That’s when I realized that some people go into research to ask questions and other people just want all eyes on them. Now I always try to figure out which group people are in before I start working with them.”

Leah Tatebe: “I gave a presentation on live TV about a trauma first responder class... when I was 10 days postpartum!”

Kevin Bethke: “I worked in Hans Sollinger’s transplant immunology lab at University of Wisconsin and was part of the team that did the first fetal pancreas transplant.”

Cord Sturgeon: “Doing a right hemicolectomy for colon cancer in an elderly monkey and bottle-feeding newborn baboons stand out as the most rewarding memories!”

Karen Ho: “I accidentally cut the tip of my thumb on the sharp blade of the cryostat, which is used to cut frozen tissue sections. It bled profusely. But my labmate Andy Hoel saved the day by performing the perfect digital block and sewing my thumb back up!”

Sue Jordan: “Halfway through my lab year, I brought my 2-month old daughter to the lab. I left her napping with another lab resident while I went to do mouse work. Apparently, my daughter awoke within 5 minutes and her high-pitched screams could be heard throughout the Tarry Building. A messenger was quickly sent to retrieve me.”
INTERN CORNER
Welcome to Northwestern! These interns are also first authors on these recent publications.

Johanna Borst (senior author Allison Berndtson): “You’re never too old for optimal venous thromboembolism prophylaxis: Re-thinking current trauma guidelines”

Alyssa Brown (senior author Gary Sieck): “Mitochondrial adaptations to inactivity in diaphragm muscle fibers”


Adaure Nwaba (senior author Marco Ellis): “Microvascular Reconstruction of the Anterior Skull Base”

Cheresa Smith (mentor Mehul Raval) received a 2022 AAS Fall Courses Travel Award! Great job!

Kudos to these winners at Lurie Children’s 2022 Trainee Research Day!
First place: Kate Ott (mentor Aimen Shaaban)
Second place: Gwyneth Sullivan (mentor Mehul Raval)

Cassie Valukas (senior author Akhil Chawla) performed a review of biomarkers for pathologic response and survival following neoadjuvant therapy for pancreatic adenocarcinoma.

If you are going to the American College of Surgeons Clinical Congress, be sure to support these trainees (and their mentors) from DOS:
Monday, 10/17/22:
Emily Cerier (Chitaru Kurihara), Audra Reiter (Jonah Stulberg), Michael Visenio (Ryan Merkow)
Tuesday, 10/18/22:
Sarah Applebaum (Arun Gosain), Audra Reiter (Mehul Raval), Kayla Giger (Mehul Raval), Joanna Ledwon (Arun Gosain), Dhavan Shah (Hidayatullah Munshi), Suhail Zeineddin (Seth Goldstein), Michael Visenio (Yue-Yung Hu), Casey Silver (Anne Stey), Ashorne Krithiesh (Dave Odell), Emily Cerier (Chitaru Kurihara)
Wednesday, 10/19/22:
Emily Chwa (Arun Gosain), Charles Logan (Dave Bentrem), Egide Abahuje (Julie Johnson)

Congratulations to Jessie Ho and Casey Silver! Jessie (mentor Hasan Alam) won first place in the 2022 CCOT Resident and Fellow Trauma Basic Science Paper Competition for the second year in a row. Casey (mentor Anne Stey) won second place in the Clinical Research Competition.

LISTEN UP!
NQUINES, which stands for Northwestern QUality Improvement, Research, & Education in Surgery, is the new name for the center previously known as SOQIC!
Strong work! Jennie Chen (mentor: Steven Schwulst) received an appointment on the **Mechanisms of Aging and Dementia T32 Training Program** that will start in June 2023.

Rachel Joung (senior author: Jeff Wayne) published a review of neoadjuvant and adjuvant therapies for the treatment of resectable primary retroperitoneal sarcomas. Rachel also gave oral presentations on “What is a ‘Responsive’ Residency program?” (mentor Yue-Yung Hu) at the Association of Program Directors in Surgery Meeting and at the Society of Asian Academic Surgeons Plenary Session.

Taylor Brown (mentor: Bin Jiang) gave a talk on “Sympathetic Innervation as a Strategy for Vascular Remodeling” at the CARE Symposium on Regenerative Engineering in May. Taylor will also present a poster at the American Heart Association Scientific Sessions in November on “Development of Femoral Artery Denervation Models for Vascular Remodeling.”

Andy Lee (senior author Mark Ferguson) reported that between 2008 and 2018, there has been an increase in applicants for thoracic surgery training from general surgery trainees in residency programs not affiliated with a comprehensive cancer center or a thoracic surgery fellowship. The increased interest in thoracic surgery training was accompanied by overall enhanced scholarship production among the applicants and matriculants regardless of their residency characteristics. Andy will also give a talk on “The Risk Analysis Index is an Independent Predictor of Outcomes after Lung Cancer Resection” at the Society of Thoracic Surgeons meeting in January.

Charles Logan and Ryan Jacobs (senior author Dave Odell) used the National Cancer Database to identify 250,000 patients with clinical stage I to IIA non–small cell lung cancer surgically treated between 2004 and 2018 and found that of these, 4.4% were treated with segmentectomy. Their study concluded that “As segmentectomy is increasingly established as a valid oncological option for the treatment of non–small cell lung cancer, it is important that quality remains high. This study demonstrates that continued improvement is needed.”

These were the poster presenters from DOS (and their mentors) at Feinberg’s 16th Annual Lewis Landsberg Research Day in September:

- Anitesh Bajaj (Robert Galiano), Conor Broderick (Anne Stey), Taylor Brown (Bin Jiang), Jennie Chen (Steven Schwulst), Maria Bustamente (Sue Clare), Sahil Doshi (Akhil Chawla), Kacie Ford (Steven Schwulst), Stuti Garg (Robert Galiano), Michelle Guo (Karen Ho), Shuling Han (Jenny Zhang), Atieh Hajirahimkhan (Seema Khan), Alexander Huang (Daniela Ladner), Mecca Islam (Steven Schwulst), Jonathan Jung (Karen Ho), Faraz Longi (Mehul Raval), Skylar Nahi (Joe Posluszy), Nikita Nangia (Cord Sturgeon), Sarbjeet Niraula (Karen Ho), Steven Papastefan (Amir Alhajjat), Praneet Polineni (Daniela Ladner), Audra Reiter (Mehul Raval), Gwyneth Sullivan (Mehul Raval), Katia Valdez (Karen Ho), Max Wilberding (Julie Johnson), Tingqing Wu (Kathy Grady), Selcen Yuksel (Arun Gosain), Grant Zhao (Mehul Raval), Xin Zheng (Jenny Zhang)

Browse through faculty research descriptions here! Learn about research funding opportunities for residents and students here! Find other research resources here!
Emily Cerier and Andrew Hu (senior author Swati Kulkarni) reported that didactic teaching and personalized posture coaching improve ergonomics knowledge and reduce MSK symptom severity. “Surgical residencies should consider implementing similar interventions to improve resident wellbeing.”

Jesse Ho and Calvin Chao (senior author Tad Tomita) published a retrospective study on upper and lower extremity venous duplex studies and found that a modified COVID-19 venous duplex ultrasound protocol reduced sonographers' potential exposure time to COVID-19 without compromising clinical efficacy.

Andrew Hu and Audra Reiter (senior author Mehul Raval) utilized a multi-center retrospective cohort study at 14 children’s hospitals and found that COVID-19 elective surgery cancellations did not appear to increase the likelihood of incarceration or emergency department encounters despite delays in inguinal hernia repair, suggesting that cancellations are safe in children with inguinal hernias.

Aaron Kearney and Jenny Bai (senior author Lucia Petito) studied a prescribing tool for postop pain that was designed for hand, orthopedic, plastic, and spine surgeons and implemented into electronic discharge order sets in a 10-hospital health care system. They found that the prescribing tool had a negligible impact on system-wide compliance with suggested opioid pill quantities and morphine mg equivalents.

Dan Dolan (senior author Abby White) performed a single center retrospective review of NSCLC cases in 2019-2020 and found that surgical wait time, pathologic tumor size, and complications were not different among patients undergoing surgery before vs. during the pandemic. “The significant decrease in surgical cases is concerning for untreated cancers that may progress without proper treatment.”