



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.”



**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.”



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



**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!”



**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!”



**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.”



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



**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](#)"  



**Adwaiy Manerikar** (senior author Ankit Bharat): "[Characteristics and Outcomes of Patients with COVID-19-Associated ARDS Who Underwent Lung Transplant-REPLY](#)" 



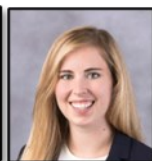
**Adaure Nwaba** (senior author Marco Ellis): "[Microvascular Reconstruction of the Anterior Skull Base](#)" 



**Cheresa Smith** (mentor Meहुल 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 Meहुल Raval)

 Ann & Robert H. Lurie Children's Hospital of Chicago



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

**CCO CHINESE CLINICAL ONCOLOGY**  
AN OPEN ACCESS JOURNAL FOR CLINICAL CANCER RESEARCH WITH CURRENT AND PRACTICAL INFORMATION

# 40

First- and second-author [publications](#) of DOS residents and fellows from June to September 2022. **STRONG WORK!**

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)

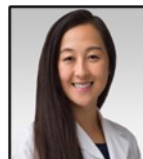
Wednesday, 10/19/22:

**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**.



**NQIRES**, which stands for **Northwestern Quality Improvement, Research, & Education in Surgery**, is the new name for the center previously known as SOQC!





**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.



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**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.



These were the poster presenters from DOS (and their mentors) at **Feinberg’s 16<sup>th</sup> 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 Posluszny), 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)**



**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.**

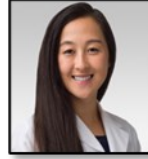
Their **study** concluded that “As segmentectomy is increasingly established as a valid oncological option for the treatment of non-small cell lung cancer, it is important that quality remains high. This study demonstrates that continued improvement is needed.”



**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 **Me-hul 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.



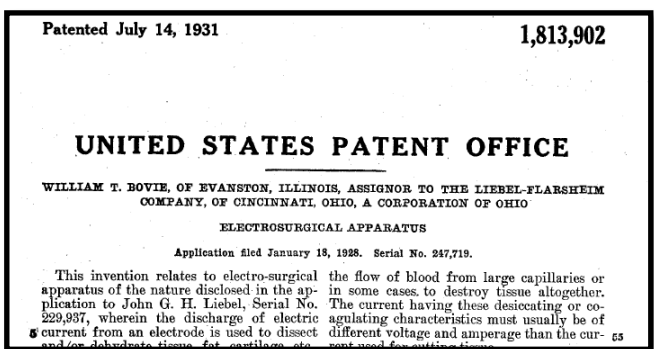
**Aaron Kearney and Jenny Bai** (senior author Lucia Petito) studied a prescribing tool for postop pain that was designed for hand, orthopedic, plastic, and spine surgeons and implemented into electronic discharge order sets in a 10-hospital health care system. They [found](#) that the prescribing tool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

The Journal of Hand Surgery

## CHICAGO SURGICAL HISTORY

### Did you know?

Biophysicist William T. Bovie (1882-1958), who invented the electrocautery device that is named after him, was Chairman of the Department of Biophysics at Northwestern University in the later stages of his career. Though he was a brilliant innovator, he was not business-minded. When he patented his apparatus in 1931 (US Patent No 1,813,902, which lists him as the sole inventor; see below), he conveyed his patent rights to the manufacturer for only \$1!



Sources: O'Connor, JL and Bloom, DA. Surgery. 1996. Carter, P. Am J Surg. 2013.



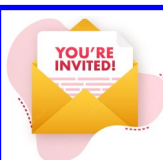
**Dan Dolan** (senior author Abby White) performed a single center retrospective [review](#) of NSCLC cases in 2019-2020 and found that surgical wait time, pathological tumor size, and complications were not different among patients undergoing surgery before vs. during the pandemic. “The significant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



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