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Surgery Research Growth and Engagement Newsletter, Inaugural Edition (Winter 2021)



CONGRATULATIONS! to the residents and students who presented at the 2020 ACS Clinical Congress in October!

Marc Altimari, Brian Brajcich, Emily Cerier, Matt Chia, Chelsea Fischer, Rhami Khorfan, Daniel Kim, Kate Ott, Cary Schlick, Daniel Sasson, Benjamin Stocker, Nikhil Shah, Tarik Yuce, and Selcen Yuksel



KUDOS! To the presenters at the Academic Surgical Congress, Feb 2-4, 2021!

Brian Brajcich, Megan Bouchard, Alex Byskosh, Nina Byskosh, Matt Chia, Christopher De Boer, Chelsea Fischer, Miles Grunvald, JR Guitart, Aakash Gupta, Andrew Hu, Martha Ingram, Caitlin Jacobs, Svivarshini Mohan, Monica Nagalla, Tanaz Naterwala, Kate Ott, Vivek Pamulapati, Nikita Shah, and Ryan Tang. **It's not too late to [register](#) and support our speakers!**

Ryan Campagna (senior author: Ezra Teitelbaum) [reports](#) in *Surgical Endoscopy* that a common bile duct exploration simulator course improves surgeon ability and attitudes, but does not change surgical volume.



Ava Chappell (mentor: Sue Jordan) gave talks on morbidity due to female genital mutilation (FGM) and surgical management of FGM in a webinar series at King's College London in December 2020.



Surgery Fun Fact: DID YOU KNOW?

Stents are implanted every day in GI surgery, urology, and vascular surgery. **But what is the origin of the word STENT? See answer on page 3!**



Do you have **research news**? Do you know someone who's done something great? **SHARE THE BUZZ!** Email Karen Ho (kho1@nm.org)

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First- and second-author [publications](#) from DOS trainees between July and December 2020.

Congratulations to all and keep up the good work! See some highlights below.

JAMA Surgery

Video-Based Feedback for the Improvement of Surgical Technique

A Platform for Remote Review and Improvement of Surgical Technique

Cary Schlick (senior author: Jonah Stulberg) [reports](#) on Video-Based Feedback for the Improvement of Surgical Technique (VISTA) as a remote, secure, deidentified platform for operative review and feedback. *"The potential benefits of operative video review are far reaching and can include improvement in operative performance, development of introspection skills in the participant, and the fostering of an ability to identify areas for improvement within the operating surgeon themselves, even without a dedicated coach's input."*



Andre Son (senior author: Chris Malaisrie) reports in *Journal of Cardiac Surgery* that discharge 3 days after open heart surgery is safe.

He also presented this work at The Society of Thoracic Surgeons meeting in January 2020. *"This information paves the way for a cardiac enhanced recovery after surgery program."*

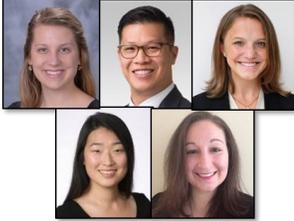


Rachel Joung (senior author: Jeff Wayne) found in an institutional case [series](#) that surgical resection of primary leiomyosarcoma of the IVC has 1- and 3-year survival of 85.7 and 64.3%, respectively.



THANK YOU

to everyone who submitted news and helped put this together. **SPECIAL THANKS** to Lynnette Dangerfield, Melanie Mkrdichian, Matt Chia, Vivek Pamulapati, and Rachel Wankel.



HEY! CONGRATULATIONS to these award winners!

Megan Bouchard: Northwestern Institute of Global Health Day Best Presenter for Clinical Session, Academic Merit Scholarship for Master’s in Public Health (mentor: **Fizan Abdullah**)

Matt Chia: Best Poster Award, Midwestern Vascular Surgical Society (mentor: **Ashley Vavra**)

Martha Ingram: NIH NCATS TL1 (mentor: **Mehul Raval**)

Bona Ko: AHRQ F32 (mentor: **Karl Bilimoria**)

Kate Ott: NIH Loan Repayment Program, ACS Leadership and Advocacy Summit Research Scholarship (mentor: **Aimen Shaaban**)



Good luck on your grant applications!



Sonj Aronson: American Society of Maxillofacial Surgeons and Plastic Surgery Foundation (mentor: **Sue Jordan**)

Emily Cerier: Thoracic Surgery Foundation Resident Research Fellowship (mentor: **Ankit Bharat**)

Charles Logan: NU Minority Health and Health Disparities T37 (mentor: **Dave Odell**)

Audra Reiter: NIH F32 (mentor: **Mehul Raval**)

JAMA

Association of State Certificate of Need Regulation With Procedural Volume, Market Share, and Outcomes Among Medicare Beneficiaries

Tarik Yuce (senior author: **Karl Bilimoria**) performed a cross-sectional [study](#) of Medicare beneficiaries and found no significant differences between states with and without certificate of need regulation in terms of overall hospital procedural volume, hospital market share, county-level procedure volume, or risk-adjusted post-operative mortality, surgical site infection, or readmission. “Policy makers should consider reevaluating whether certificate of need regulations are having their intended effect.”



Amy Holmstrom (senior author: **Amy Halverson**) [reports](#) in *Journal of Surgical Education* that integration of “entrustable professional activities” for use in clinical performance assessment of medical students is feasible within a surgery clerkship and is better than global clinical performance assessment.



Courtney Furlough (mentors: **Jacky Kruser** and **Andy Hoel**) spoke about “Clinician Evaluation of the Ethical Decision-Making Climate among Subspecialty ICU at an Academic Medical Center” at the American Society for Bioethics + Humanities meeting in October.



Lindsay Janes (senior author: **Arun Gosain**) used tissue expanders in Yucatan minipigs to [study](#) keratinocyte proliferation and skin growth and stretch in order understand the optimal expansion regimen.

Plastic and Reconstructive Surgery



Katie Hekman (mentor: **Jason Wertheim**) gave a talk entitled “Autophagy Remodels Mitochondria During Differentiation and Enhances Longevity Through Ulk1 Kinase Signaling of Induced Pluripotent Stem Cell-derived Endothelial Cells” at the 2020 Vascular Research Initiatives Conference (VRIC) in October. **She was also awarded a VRIC Trainee Award from the Society for Vascular Surgery Foundation. Congrats!**



Aaron Kearney (senior author: **Greg Dumanian**) [describes](#) in *Plast Reconstr Surg Glob Open* the use of mesh strips for traumatic flank hernias.



Sounds good!

Check out these podcasts!

Matt Chia: [“SECOND Trial”](#)

Martha Ingram: [“COVID-19 Response in Pediatric Surgery”](#)

Ben Many
(senior author:
Mehul Raval)

Journal of
Pediatric Surgery

performed a retrospective [review](#) of circumcisions and found that wrap dressings are linked to fewer postop bleeding events. In a separate [study](#) (using the Pediatric Health Information Study (senior author: **Seth Goldstein**), he found that circumcision in neonates increased from 39% to 58% between 2010 and 2017, that obstetricians and pediatricians are performing proportionally more circumcisions, and that circumcision during the birth hospitalization is more resource-effective than postponing until later in infancy.



Courtney Harris (senior author: **Timothy Lautz**) [re-ports](#) on a multi-

institutional review of 175 children with chest wall sarcoma treated at Pediatric Surgical Oncology Research Collaborative institutions. Local recurrence is independent of tumor type, 13 developed scoliosis, and patient-reported quality of life is excellent.

**ANNALS OF
SURGERY**

A MONTHLY REVIEW OF SURGICAL SCIENCE SINCE 1885



JAMA Oncology

Association Between Surgical Technical Skill and Long-term Survival for Colon Cancer

Brian Brajcich (senior author: **Karl Bilimoria**)

performed a [study](#) on patient survival and surgeon technical skill based on video review of surgeons from the IL Surgical Quality Improvement Collaborative. Adjusting for patient characteristics, patient survival after lap right hemicolectomy was improved for the high-skill vs. low-skill surgeon tertiles (HR .31; 95% CI, .18-.54; P<.001)



SAVE THE DATES: UPCOMING DEADLINES

Meeting abstracts:

[Central Surgical Association](#), 2/5/21
[American Transplant Congress](#) (late breaking abstracts), 2/12/21
[Vascular & Endovascular Surgery Society \(Spring\)](#) and [Society for Vascular Surgery VAM](#), 2/17/21
[American Society of Plastic Surgeons](#), 2/25/21
[American Association for the Surgery of Trauma](#), 3/1/21
[ACS Clinical Congress](#), 3/1/21
[SAGES Emerging Technology Session](#), 3/31/21
[New England Society for Vascular Surgery](#), 4/1/21
[Southern Surgical Association](#), 6/30/21
[Vascular Biology](#), 8/1/21
[Find schedule of other meetings here.](#)

Funding and training opportunities:

[Vascular T32](#), 3/1/21
Steve J. Stryker, MD endowment for GI research, 3/29/21 (email Melanie Mkrdichian for application)
[NIH F32](#), 4/8/21, 8/8/21, and 12/2/21
[Transplant T32](#), 4/15/21
[FSM Masters of Science in HSOR](#), 5/7/21
[SUS Resident Scholar Research Award](#), ~May 2021
[AAS/AASF Research Fellowships](#), ~Aug-Sept 2021
[ACS Resident Research Fellowship](#), ~Sept 2021
[SOQIC Research Fellowship, Joint ACS-SOQIC T32, SOQIC -NCI R38, Surg Onc T32](#), see website [here](#), ~Sept 2021
[Thoracic Surgery Foundation Research Fellowship](#), ~Sept 2021
[VESS Resident Research Award](#), ~Oct 2021
[ACS Clinical Scholars in Residence Program](#), ~Nov 2021
[Find other opportunities here.](#)



Mark Erfe (senior author: **Pat McCarthy**)

used the Society of Thoracic Surgery Adult Cardiac Surgery Database and [found](#) that sutureless/rapid-deployment valves for AVR is associated with reduced OR time, smaller incisions, and similar 30-day mortality.

THE ANNALS OF
THORACIC SURGERY



Ryan Ellis (senior author: **Ryan**

Merkow) performed a retrospective cohort [study](#) of patients following hepatectomy from the ACS NSQIP Hepatectomy Targeted Dataset and found that 42% of patients had prophylactic drain placement.

There was notable hospital variability in drain use, and 77.5% of measured variation was at the hospital level.

HPB



Surgery Fun Fact: THE ANSWER

You should be asking **WHO (not what) is a stent!**

Charles Thomas STENT (right) was an English dentist (b. 1807) who created a latex-based material ("Stent's Compound") for making dental impressions. It was later used to stabilize skin grafts used in oral surgical repair during WWI. In the 1950s, when skin grafts were used as tubular conduits for biliary reconstructions, Stent's compound was used to prevent contraction of the grafts. By the 1970s, a "stent" had evolved into "an intraluminal device to maintain patency until healing has taken place."



Source: Roguin A., *Circ Cardiovasc Interv.* 2011