



Stanford MEDICINE | Department of Cardiothoracic Surgery

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Welcome to the first 2023 issue of the Stanford Department of Cardiothoracic Surgery Quarterly Newsletter.

In March, we were pleased with the announcement of three new residents joining our department: Edgar Aranda-Michel, Jon Hochstein, and Gabe Weininger. We look forward to welcoming them over the summer.

Earlier this year, several of our faculty and trainees [participated](#) in the STS 59th Annual Meeting in San Diego, CA. Congratulations to Dr. Leah Backhus for [receiving](#) the inaugural 2023 Extraordinary Women of Cardiothoracic Surgery Award from STS and WTS.

Please also join me in congratulating Dr. William Hiesinger who was recently promoted to Associate Professor, and to Dr. Jack Boyd for his [acceptance](#) into the American Association for Thoracic Surgery membership. We thank them for their hard work and contributions to the field.

Thank you for all that you do for our community.

Sincerely,

Joseph Woo, MD

Norman E. Shumway Professor and Chair
Stanford Department of Cardiothoracic Surgery

In the News



Stanford is first in the western U.S. to complete transapical off-pump mitral valve

"The NeoChord system offers the optimal surgical repair approach of replacing the chords but without cardiopulmonary bypass," said Jack Boyd, MD, on the first to use a minimally invasive, off-pump surgical technique to treat degenerative mitral valve regurgitation due to prolapse. [Read more.](#)



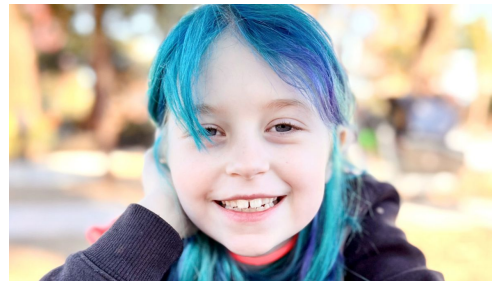
Highly specialized: Stanford leads in en-bloc heart-liver transplantations

"Patients come from all over the United States for our specialized care and expertise in transplantation, especially when they require multi-organ transplantation to address complex adult congenital heart disease," said John W. MacArthur, MD, cardiothoracic surgeon on Christopher's transplant team. [Read more.](#)



Video: Kapiolani's new pediatric heart center in Hawaii

On Feb. 14, the only full-service children's hospital in Hawaii celebrated the opening of the new Pediatric Heart Center. Louis Capecci, MD, Kapiolani's first full-time pediatric cardiothoracic surgeon, talks about his role in cardiac care and the new center. [Watch video.](#)



Three innovations shorten heart transplant patient's wait time

At Stanford Medicine Children's Health, three innovations helped shorten wait times for pediatric heart transplant patients: creating the hepatitis C donor heart program, streamlining the donor heart matching program, and using the "heart in a box." [Read more.](#)



Leah Backhus, MD, MPH, receives inaugural Extraordinary Women of Cardiothoracic Surgery Award

The Society of Thoracic Surgeons and Women in Thoracic Surgery awarded its inaugural 2023 Extraordinary Women of Cardiothoracic Surgery Award to Leah Backhus, MD, MPH. [Read more.](#)



Jack Boyd, MD, accepted into American Association for Thoracic Surgery membership

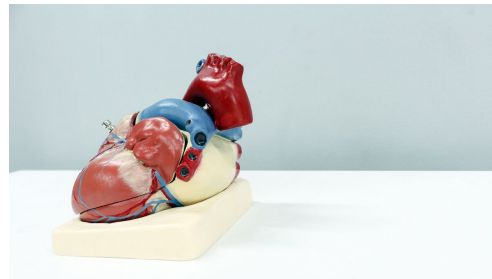
Jack Boyd, MD, was accepted into membership for the American Association for Thoracic Surgery, one of the premier associations for cardiothoracic surgeons. [Read more.](#)

Hospital Highlights



Stanford Health Care named among the Best Hospitals for Patient Experience

The Women's Choice Award released its 2023 hospital rankings, spotlighting thousands of hospitals nationwide for exceptional women's healthcare and patient experience. [Read more.](#)



Beckers Report: Stanford among list of hospitals and health systems with heart programs

Becker's Healthcare released its list of hospitals and health systems with heart care programs to watch in 2023, including Stanford Health Care. [Read more.](#)

Research & Awards



Ngan F. Huang, PhD, receives Veteran Affairs Research Career Scientist Award

Ngan F. Huang, PhD, associate professor of cardiothoracic surgery, was recently awarded the Research Career Scientist Award from the Department of Veterans Affairs. [Read more.](#)



William Hiesinger, MD, receives Stanford HAI Seed Research Grant award

William Hiesinger, MD, was awarded the Stanford Human-Centered Artificial Intelligence (HAI) Seed Research Grant to develop a foundational model for artificial intelligence in surgery. [Read more.](#)

Richard E. Clark Memorial Paper for General Thoracic Surgery: The Impact of Age and Need for Emergent Surgery in Paraesophageal Hernia Repair Outcomes



Lye-Yeng Wong, MD
Postdoctoral Fellow, Department of Cardiothoracic Surgery
Stanford University School of Medicine

Richard E. Clark Memorial Paper for General Thoracic Surgery awarded to Lye-Yeng Wong, MD

Lye-Yeng Wong's [abstract](#) for the 2023 Society of Thoracic Surgeons Annual Meeting, "The Impact of Age and Need for Emergent Surgery in Paraesophageal Hernia Repair Outcomes," was awarded the Richard E. Clark Memorial Paper for General Thoracic Surgery. [Read more.](#)



Society of Thoracic Surgery Research Award given to Shin Yajima, MD, PhD

Shin Yajima, MD, PhD, received the Society of Thoracic Surgery Research Award, a designation given to the highest-ranking Thoracic Surgery Foundation Research Award to support research efforts and the work of early-career cardiothoracic surgeons. [Read more.](#)

Education



Tomi Obafemi, MD, establishes Cardiothoracic Surgery Diversifying Pipeline Award

Tomi Obafemi, MD, received departmental funding to establish the Cardiothoracic Surgery Diversifying Pipeline Award program to support three Stanford Cardiovascular Institute Research Program interns. Jack Boyd, MD, was the faculty lead for the project. [Read more.](#)



Yihan Lin, MD, MPH, on addressing global health and surgical care disparities

Yihan Lin, MD, MPH, who joined the Department in August of 2022, has devoted much of her career to addressing global health equity and surgical disparities. [Read more.](#)

Podcast: The role of the thoracic surgeon in lung cancer care starring Leah Backhus, MD, MPH

On Consultant 360, Leah Backhus, MD, MPH, talks about the role of the thoracic surgeon in lung cancer care, including how the screening environment and the advances in surgical techniques have impacted patient outcomes. [Listen here.](#)



Department research and prestigious awards presented at 2023 STS Meeting

The Department presented the latest research and received awards at the Society of Thoracic Surgeons 59th Annual Meeting from Jan. 21 to 23 in San Diego, Calif. [Read more.](#)

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Match Day 2023

Congratulations!



Edgar Aranda-Michel
University of Pittsburgh
School of Medicine



Jon Hochstein
Harvard Medical
School



Gabe Weininger
Yale School of
Medicine

Congrats to our incoming
16 [@StanfordCTSurg](#) residents!

We're excited to
have [@EdgarArandaMic1](#),
Jon Hochstein,
and [@GabeWeininger](#) join our
program - welcome to the
farm! [#WeAreStanford](#) [#Match2023](#)

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Featured Publications

The Department of Cardiothoracic Surgery is dedicated to conducting cutting-edge research. Check out more of our [faculty publications.](#)

[Positron emission tomography/computed tomography differentiates resectable thymoma from anterior mediastinal lymphoma.](#)

Byrd CT, Trope WL, Bhandari P, Konsker HB, Moradi F, Lui NS, Liou DZ, Backhus LM, Berry MF, Shrager JB. J Thorac Cardiovasc Surg. 2023 Jan;165(1):371-381.e1. doi: 10.1016/j.jtcvs.2022.02.055. Epub 2022 Apr 1. PMID: 35568521

[Midterm Outcomes in Type A Aortic Dissection Repair with and without Malperfusion in a Hybrid Operating Room.](#)

Dalal AR, Dossabhoy S, Heng E, Yasin A, Leipzig MM, Bonham SA, Fischbein MP, Lee JT, Woo YJ, Watkins AC. Semin Thorac Cardiovasc Surg. 2022 Dec 22:S1043-0679(22)00280-5. doi: 10.1053/j.semtcvs.2022.12.003. Online ahead of print. PMID: 36567047

[Surgical management of severe mitral annular calcification.](#)

Elde S, Zhu Y, MacArthur JW, Woo YJ. Asian Cardiovasc Thorac Ann. 2022 Dec 20:2184923221136935. doi: 10.1177/02184923221136935. Online ahead of print. PMID: 36537728

[Biomedical Applications of Collagen.](#)

Huang NF, Zaitseva TS, Pauksho MV. Bioengineering (Basel). 2023 Jan 10;10(1):90. doi: 10.3390/bioengineering10010090. PMID: 36671662

[Single-port robotic transcervical long-segment thoracic tracheal reconstruction: Cadaveric proof-of-concept study.](#)

Lui NS, Holsinger FC, Ma MR, Janus JR, Balakrishnan K. JTCVS Tech. 2022 Sep 20;16:231-236. doi: 10.1016/j.jtc.2022.08.025. eCollection 2022 Dec. PMID: 36510525

[Impact of liver dysfunction on outcomes in children with Alagille syndrome undergoing congenital heart surgery.](#)

Mainwaring RD, Felmly LM, Collins RT, Hanley FL. Eur J Cardiothorac Surg. 2022 Dec 2;63(1):ezac553. doi: 10.1093/ejcts/ezac553. PMID: 36458925

[Too many Achilles heels.](#)

Martin E. Ann Thorac Surg. 2022 Dec 2:S0003-4975(22)01531-4. doi: 10.1016/j.athoracsur.2022.11.031. Online ahead of print. PMID: 36470570

[Resection of a synovial cell sarcoma by cardiac autotransplantation: A case report.](#)

Mullis DM, Zhu Y, Guenthart BA, Bonham SA, Trope WL, Berry GJ, Woo YJ, MacArthur JW. JTCVS Tech. 2022 Sep 20;16:123-127. doi: 10.1016/j.jtc.2022.09.009. eCollection 2022 Dec. PMID: 36510550

[Native and Post-Repair Residual Mitral Valve Prolapse Increases Forces Exerted on the Papillary Muscles: A Possible Mechanism for Localized Fibrosis?](#)

Park MH, van Kampen A, Melnitchouk S, Wilkerson RJ, Nagata Y, Zhu Y, Wang H, Pandya PK, Morningstar JE, Borger MA, Levine RA, Woo YJ. Circ Cardiovasc Interv. 2022 Dec;15(12):e011928. doi: 10.1161/CIRCINTERVENTIONS.122.011928. Epub 2022 Dec 20. PMID: 36538583

[Outcomes of Reoperative Aortic Root Replacement After Previous Acute Type A Dissection Repair.](#)

Pedroza AJ, Dalal AR, Krishnan A, Yokoyama N, Nakamura K, Tognozzi E, Woo YJ, MacArthur JW, Fischbein MP. Semin Thorac Cardiovasc Surg. 2023 Feb 8:S1043-0679(23)00016-3. doi: 10.1053/j.semtcvs.2023.02.001. Online ahead of

[Elastin-like protein hydrogels with controllable stress relaxation rate and stiffness modulate endothelial cell function.](#)

Shayan M, Huang MS, Navarro R, Chiang G, Hu C, Oropeza BP, Johansson PK, Suhar RA, Foster AA, LeSavage BL, Zamani M, Enejder A, Roth JG, Heilshorn SC, Huang NF. J Biomed Mater Res A. 2023 Mar 2. doi: 10.1002/jbm.a.37520. Online ahead of print. PMID: 36861665

[Trimmed central venous catheters do not increase endothelial injury in an ovine model.](#)

Wang H, Williams KM, Elde S, Bulterys PL, Thakore AD, Lucian HJ, Farry JM, Mullis DM, Zhu Y, Paulsen MJ, Woo YJ. J Vasc Access. 2023 Feb 10:11297298231153716. doi: 10.1177/11297298231153716. Online ahead of print. PMID: 36765464

[ASO Author Reflections: Timing of Surgery and Chemoradiation for Esophageal Squamous Cell Carcinoma.](#)

Wong LY, Berry MF. Ann Surg Oncol. 2023 Jan 6. doi: 10.1245/s10434-022-13048-0. Online ahead of print. PMID: 36607525 No abstract available.

[Impact of Delaying Surgery After Chemoradiation on Outcomes for Locally Advanced Esophageal Squamous Cell Carcinoma.](#)

Wong LY, Liou DZ, Vitzthum LK, Backhus LM, Lui NS, Chang D, Shrager JB, Berry MF. Ann Surg Oncol. 2022 Dec 26. doi: 10.1245/s10434-022-12980-5. Online ahead of print. PMID: 36572807

[ASO Visual Abstract: Impact of Delaying Surgery After Chemoradiation on Outcomes for Locally Advanced Esophageal Squamous Cell Carcinoma.](#)

Wong LY, Liou DZ, Vitzthum LK, Backhus LM, Lui NS, Chang D, Shrager JB, Berry MF. Ann Surg Oncol. 2023 Feb 9. doi: 10.1245/s10434-023-13156-5. Online ahead of print. PMID: 36759429 No abstract available.

[The Impact of Age and Need for Emergent Surgery in Paraesophageal Hernia Repair Outcomes.](#)

Wong LY, Parsons N, David EA, Burfeind W, Berry MF. Ann Thorac Surg. 2023 Jan 19:S0003-4975(23)00035-8. doi: 10.1016/j.athoracsur.2023.01.017. Online ahead of print. PMID: 36702291

[Optimization of FRESH Microspheres for Substantially Improved 3D Bioprinting Capabilities.](#)

Wu CA, Zhu Y, Venkatesh A, Stark CJ, Lee SH, Woo YJ. Tissue Eng Part C Methods. 2023 Jan 31. doi: 10.1089/ten.TEC.2022.0214. Online ahead of print. PMID: 36719778

[Biomechanical evaluation of aortic regurgitation from cusp prolapse using an ex vivo 3D-printed commissure geometric alignment device.](#)

Zhu Y, Park MH, Imbrie-Moore A, Wilkerson R, Madira S, Woo YJ. J Cardiothorac Surg. 2022 Dec 10;17(1):303. doi: 10.1186/s13019-022-02049-5. PMID: 36496476

[Outcomes of Heart Transplantation Using a Temperature-controlled Hypothermic Storage System.](#)

Zhu Y, Shudo Y, He H, Kim JY, Elde S, Williams KM, Walsh SK, Koyano TK, Guenthart B, Woo YJ. Transplantation. 2022 Dec 13. doi: 10.1097/TP.0000000000004416. Online ahead of print. PMID: 36510359

[Three-Dimensional Bioprinting with Alginate by Freeform Reversible Embedding of Suspended Hydrogels with Tunable Physical Properties and Cell Proliferation.](#)

print. PMID: 36758660

[High-resolution spatiotemporal changes in dominant frequency and structural organization during persistent atrial fibrillation.](#)

Pong T, Aparicio-Valenzuela J, Obafemi O, Cyr K, Carlton C, Taylor C, Lee A. PLoS One. 2023 Feb 14;18(2):e0271846. doi: 10.1371/journal.pone.0271846. eCollection 2023. PMID: 36787287

[Risk of adenocarcinoma in patients with a suspicious ground-glass opacity: a retrospective review.](#)

Roy E, Shrager J, Benson J, Trope WL, Bhandari P, Lui N, Liou D, Backhus L, Berry MF. J Thorac Dis. 2022 Nov;14(11):4236-4245. doi: 10.21037/jtd-22-583. PMID: 36524073

Zhu Y, Stark CJ, Madira S, Ethiraj S, Venkatesh A, Anilkumar S, Jung J, Lee S, Wu CA, Walsh SK, Stankovich GA, Woo YJ. Bioengineering (Basel). 2022 Dec 15;9(12):807. doi: 10.3390/bioengineering9120807. PMID: 36551013

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