Stanford



William Hiesinger, MD

Associate Professor of Cardiothoracic Surgery (Adult Cardiac Surgery)

CLINICAL OFFICE (PRIMARY)

- **Cardiothoracic Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Alyssa Barquin - Administrative Associate

  Email abarquin@stanford.edu

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Bio

BIO

Dr. Hiesinger is a board-certified, fellowship-trained specialist in adult cardiac surgery. He is also an associate professor in the Department of Cardiothoracic Surgery at Stanford University School of Medicine.

Dr. Hiesinger’s clinical focus encompasses the full spectrum of cardiothoracic conditions and treatment approaches, such as heart transplantation, mitral and aortic valve repair, surgical treatment for hypertrophic cardiomyopathy, coronary artery bypass, pulmonary thromboendarterectomy (PTE), and complex thoracic aortic procedures. He serves as Surgical Director of the Stanford Mechanical Circulatory Support Program, where he leads and directs the surgical implantation of ventricular assist devices (VADs) in patients with end-stage heart failure. He also serves as Surgical Director for the Stanford Hypertrophic Cardiomyopathy Center and the Stanford Chronic Thromboembolic Pulmonary Hypertension (CTEPH) Program.

The National Institutes of Health and the Thoracic Surgery Foundation have awarded funds to support Dr. Hiesinger’s research. In the Stanford Cardiothoracic Therapeutics and Surgery Laboratory, Dr. Hiesinger's research spans the disciplines of computer science and cardiovascular biology, and he endeavors to build novel foundational deep learning systems designed to better represent and process high-dimensional inputs and apply these systems towards clinical problems. Additionally, his lab investigates bioengineered devices, tissue engineering, and angiogenic cytokine therapy for the treatment of heart failure.

He has published extensively and his work has appeared in Nature Communications, Nature Machine Intelligence, the Journal of Heart and Lung Transplantation, Circulation Heart Failure, the Journal of Thoracic and Cardiovascular Surgery, Journal of Vascular Surgery, and elsewhere.

He teaches courses on cardiothoracic surgery skills. He also advises surgeons of the future.

Dr. Hiesinger has won awards for his research and scholarship, including the Surgical Resident of the Year Award, Jonathan E. Rhoads Research Award, Clyde F. Baker Research Prize, and I.S. Ravdin Prize, all from his alma mater, the University of Pennsylvania. He was a finalist for the Vivien Thomas Young Investigator Award from the American Heart Association.

Dr. Hiesinger is a member of the American Association for Thoracic Surgery and serves on the Cardiac Surgery Biology Club. He is also a member of the Society of Thoracic Surgeons and serves on the American Heart Association Council for Cardiothoracic and Vascular Surgery.

CLINICAL FOCUS

- Heart Transplantation
- Mechanical Circulatory Support
- Mitral Valve Repair
- Aortic Aneurysm
- Minimally Invasive Cardiac Surgery
- Cardiac Surgery
- Complex Valve Repair Surgery
- Aortic Valve Repair
- Valve Replacement Surgery
- Surgical Treatments of Cardiomyopathy
- Heart Failure
- Ventricular Assist Device
- Heart-Lung Transplantation
- Coronary Artery Bypass
- Coronary Artery Bypass, Off-pump
- Reoperative Cardiac Surgery
- Clinical Device Trials
- Lung Transplantation
- Thoracic and Cardiovascular Surgery
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Cardiothoracic Surgery
- Member, Bio-X
- Member, Cardiovascular Institute

HONORS AND AWARDS

- Leadership Academy, American Association for Thoracic Surgery (AATS) (2025)
- Keith Reemtsma Surgical Resident of the Year Award, Department of Surgery, University of Pennsylvania (2014)
- Jonathan E. Rhoads Research Award, Department of Surgery, University of Pennsylvania (2011)
- Vivien Thomas Young Investigator Award Finalist, American Heart Association (2010)
- Alpha Omega Alpha (AOA) Honor Medical Society, University of Pennsylvania (2007)
- Clyde F. Baker Research Prize, Department of Surgery, University of Pennsylvania (2007)

- First Place, Medical Student Research Day Basic Science Research, University of Pennsylvania (2007)
- I. S. Ravdin Prize, Department of Surgery, University of Pennsylvania (2007)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Society of Thoracic Surgeons (2017 - present)
- Member, American Heart Association, Council for Cardiothoracic & Vascular Surgery (2017 - present)
- Reviewer, Circulation (2017 - present)
- Member, Society of Thoracic Surgeons Workforce on Surgical Treatment of End-Stage Cardiopulmonary Disease (2017 - 2023)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2017)
- Fellowship: Hospital of the University of Pennsylvania Dept of CTS (2016) PA
- Residency: Hospital of the University of Pennsylvania General Surgery Residency (2014) PA
- Medical Education: Perelman School of Medicine University of Pennsylvania (2007) PA
- Board Certification: General Surgery, American Board of Surgery (2015)
- M.D., University of Pennsylvania (2007)

LINKS

- Stanford Adult Cardiac Services: http://med.stanford.edu/ctsurgery/clinical-care/adult-cardiac-surgery-services.html
- Make an Appointment: http://med.stanford.edu/ctsurgery/contact-us.html#division-of-adult-cardiac-surgery
- Stanford Cardiothoracic Therapeutics and Surgery Laboratory: http://med.stanford.edu/hiesingerlab.html
- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html
- Follow us on Twitter: https://twitter.com/StanfordCTSurg

Research & Scholarship

CLINICAL TRIALS

- Edwards PASCAL CLASP IID/IIF Pivotal Clinical Trial, Recruiting
- Evaluating the Benefit of Concurrent Tricuspid Valve Repair During Mitral Surgery, Recruiting
- Donors After Circulatory Death Heart Trial, Not Recruiting
- MOMENTUM 3 Continued Access Protocol, Not Recruiting

Teaching

COURSES

2025-26

- Reimagining Scientific Visualization with Augmented Reality: BIOS 444 (Spr)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Mrudang Mathur

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiothoracic Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **Pick Your Perfusion: National Outcomes of Normothermic Regional Perfusion versus Direct Procurement and Perfusion in Donation After Circulatory Death Cardiac Transplants**
  Shou, B., Zhou, A., Goerlich, C., Hiesinger, W.
  MOSBY-ELSEVIER.2026: S7-S8

- **Complex Percutaneous Intervention and Intravascular Lithotripsy for Critical Cabrol Anastomotic Stenosis Jeopardizing Global Coronary Circulation.** *JACC. Case reports*
  Meredith, T., Krishnam, M., Woo, J. P., Fearon, W. F., Hiesinger, W., Yeung, A.
  2026: 107768

- **Building foundation models for cardiac MRI** *NATURE BIOMEDICAL ENGINEERING*
  Shad, R., Hiesinger, W.
  2026

- **A generalizable deep learning system for cardiac MRI.** *Nature biomedical engineering*
  Shad, R., Zakka, C., Kaur, D., Mathur, M., Fong, R., Cho, J., Filice, R. W., Mongan, J., Kallianos, K., Khandwala, N., Eng, D., Leipzig, M., Witschey, et al
  2026

- **Lessons Learned from the HVAD Post Approval Study Registry: Implications for Investigating Future VAD Technology.** *Journal of cardiac failure*
  Cowger, J. A., Gregoric, I. D., Klein, L., Pham, D. T., Kiernan, M. S., Lavine, K. J., Rich, J. D., Ananthram, M. G., Ravichandran, A., Shafii, A. E., Hiesinger, W., Lampert, B. C., Aras, et al
  2026

- **Beating heart transplantation: A single center's initial experience and propensity-matched analysis against national registry data.** *JHLT open*
  Choi, A. Y., Kapula, N., He, H., Degife, E., Krishnan, A., Ashrafi, R., Han, B., Pines, K., Henricksen, E., Elde, S., Fawad, M., Teuteberg, J. J., Khush, et al
  2026; 11: 100455

- **Sex disparities in deep learning estimation of ejection fraction from cardiac magnetic resonance imaging.** *NPJ digital medicine*
  Kaur, D., Shad, R., Kumar, A., Mathur, M., Cho, J., Fong, R., Zakka, C., Phillips, C., Hiesinger, W.
  2026

- **CLASP IID Trial and Registry: 2-Year Outcomes of Transcatheter Repair for Degenerative Mitral Regurgitation.** *JACC. Cardiovascular interventions*
  Makkar, R., Zahr, F., Chakravarty, T., Chadderdon, S., Makar, M., Ruf, T. F., Kipperman, R. M., Rassi, A. N., Hausleiter, J., Smith, R. L., Szerlip, M., Goldman, S., Lim, et al
  2025; 18 (19): 2392-2404

- **Safety and 1-Year Outcomes After Transplanting Hearts From SARS-CoV-2 Positive Donors: Insights From an International Analysis.** *Immunity, inflammation and disease*
  Guenther, S. P., Wadewitz, J., Wayda, B. J., Fox, H., Cheaban, R., Shudo, Y., Hiesinger, W., Costard-Jäckle, A., Morshuis, M., Woo, Y. J., Teuteberg, J. J., Schramm, R., Rahmel, et al
  2025; 13 (9): e70252

- **Comprehensive Analysis of Myocardial Reverse Remodeling Following HeartWare Ventricular Assist Device Implantation** *CLINICAL TRANSPLANTATION*
  Kawai, Y., Farag, J. A., Nishiga, M., Liu, Y., Kawago, K., Koyano, T. K., Fong, R., Bilbao, M., Hiesinger, W., Shin, H., Pfrender, E. M., Dalal, A., Pedroza, et al
  2025; 39 (8)

- **Which Donor and Recipient Risk Factors Matter in Heart Transplantation? Results From a Survey of 53 Centers Across Five Countries.** *Clinical transplantation*
  Guenther, S. P., Schramm, R., Teuteberg, J. J., Shudo, Y., Rogge, A. L., Schaeper, K. E., Fox, H., Hoepner, L., Ruaengsri, C., Costard-Jaeckle, A., Hiesinger, W., Woo, Y. J., Morshuis, et al

2025; 39 (6): e70214

- **Beating Heart Transplant Technique in Donation After Circulatory Death (DCD) Heart Transplantation: A Propensity Matched Analysis of the National Transplant Registry**
  Choi, A. Y., Kapula, N., He, H., Krishnan, A., Ruaengsri, C., Henricksen, E., Elde, S., Fawad, M., Teuteberg, J., Khush, K., Luikart, H., Shudo, Y., MacArthur, et al
  ELSEVIER SCIENCE INC.2025

- **Development and Protocolization of Cardiovascular (CV) Codes, Enhanced System-Based Practices, and Standardized Surgical Techniques at a Tertiary Referral Center to Improve Post-Arrest Outcomes**
  Choi, A. Y., Simmons, J., Wingo, M., Vargas, N., Ashrafi, R., Duda, M. M., Krishnan, A., Elde, S., Fawad, M., Shudo, Y., MacArthur, J. W., Hiesinger, W., Woo, et al
  ELSEVIER SCIENCE INC.2025

- **The Role of Genetic Variants in Patients Undergoing Left Ventricular Assist Device Placement**
  Tapaskar, N., Nair, P., Teuteberg, J., Hiesinger, W., Sallam, K., Parikh, V. N.
  ELSEVIER SCIENCE INC.2025: S447-S448

- **Chemokine (C-C Motif) Ligand 2 Expressing Adventitial Fibroblast Expansion During Loeys-Dietz Syndrome Aortic Aneurysm Formation.** *Arteriosclerosis, thrombosis, and vascular biology*
  Dalal, A. R., Pedroza, A. J., Kim, J., Gilles, C., Gu, W., Kusadokoro, S., Shad, R., Mitchel, O., Jackson, W., Hiesinger, W., Berry, G., Gallo MacFarlane, E., Quertermous, et al
  2025

- **Alteplase Purge Solution for Impella 5.5 Ventricular Assist Device Purge System Occlusion: Case Report and Review of the Literature.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
  Wang, B., Zheng, J., Silva, M. D., Shi, Z., Fong, J., Diep, C., Hiesinger, W., Sallam, K.
  2025

- **Heart-Liver Transplantation Utilizing the En Bloc Technique: A Single-Center Experience Over Two Decades.** *The Journal of thoracic and cardiovascular surgery*
  Mullis, D. M., Garrison, A., Heng, E., Zhu, Y., Elde, S., Nilkant, R., Boyd, J., Hiesinger, W., Lee, A., Shudo, Y., Gallo, A., Bonham, C. A., Woo, et al
  2024

- **Survival, Function, and Immune Profiling after Beating Heart Transplantation.** *The Journal of thoracic and cardiovascular surgery*
  Krishnan, A., Elde, S., Ruaengsri, C., Guenthart, B. A., Zhu, Y., Fawad, M., Lee, A., Currie, M., Ma, M. R., Hiesinger, W., Shudo, Y., MacArthur, J. W., Woo, et al
  2024

- **Use of Hearts from SARS-CoV-2 Positive Donors for Transplantation: An Analysis of Trends, Provider Perceptions, Safety, and Outcomes**
  Guenther, S. P., Wadewitz, J., Wayda, B. J., Rogge, A., Fox, H., Costard-Jaeckle, A., Shudo, Y., Hiesinger, W., Morshuis, M., Woo, J., Teuteberg, J., Schramm, R., Gummert, et al
  ELSEVIER SCIENCE INC.2024: S233-S234

- **Characterizing Patients with Inherited Dilated Cardiomyopathy Requiring Heart Transplantation**
  Elezaby, A., Moscarello, T., Tran, L., Henricksen, E., Parikh, V. N., Haddad, F., Hiesinger, W., Khush, K., Teuteberg, J., Sallam, K.
  ELSEVIER SCIENCE INC.2024: S232-S233

- **An Ocean of Difference? Donor and Recipient Risk Factor Perception from a Cross-National Survey**
  Guenther, S. P., Khush, K. K., Hoepner, L., Schaeper, K., Fox, H., Hiesinger, W., Shudo, Y., Morshuis, M., Woo, J., Teuteberg, J., Gummert, J. F., Schramm, R., Wayda, et al
  ELSEVIER SCIENCE INC.2024: S220

- **Beating Heart Transplant Procedures Using Organs From Donors With Circulatory Death.** *JAMA network open*
  Krishnan, A., Ruaengsri, C., Guenthart, B. A., Shudo, Y., Wang, H., Ma, M. R., MacArthur, J. W., Hiesinger, W., Woo, Y. J.
  2024; 7 (3): e241828

- **Almanac - Retrieval-Augmented Language Models for Clinical Medicine.** *NEJM AI*
  Zakka, C., Shad, R., Chaurasia, A., Dalal, A. R., Kim, J. L., Moor, M., Fong, R., Phillips, C., Alexander, K., Ashley, E., Boyd, J., Boyd, K., Hirsch, et al
  2024; 1 (2)

- **Machine Learning Multicenter Risk Model to Predict Right Ventricular Failure After Mechanical Circulatory Support: The STOP-RVF Score.** *JAMA cardiology*
  Taleb, I., Kyriakopoulos, C. P., Fong, R., Ijaz, N., Demertzis, Z., Sideris, K., Wever-Pinzon, O., Koliopoulou, A. G., Bonios, M. J., Shad, R., Peruri, A., Hanff, T. C., Dranow, et al
  2024

- **One-Year Outcomes From the CLASP IID Randomized Trial for Degenerative Mitral Regurgitation.** *JACC. Cardiovascular interventions*
  Zahr, F., Smith, R. L., Gillam, L. D., Chadderdon, S., Makkar, R., von Bardeleben, R. S., Ruf, T. F., Kipperman, R. M., Rassi, A. N., Szerlip, M., Goldman, S., Inglessis-Azuaje, I., Yadav, et al
  2023

- **One-year Outcomes of Transcatheter Edge-to-Edge Repair in Anatomically Complex Degenerative Mitral Regurgitation Patients.** *JACC. Cardiovascular interventions*
  Smith, R. L., Lim, D. S., Gillam, L. D., Zahr, F., Chadderdon, S., Rassi, A. N., Makkar, R., Goldman, S., Rudolph, V., Hermiller, J., Kipperman, R. M., Dhoble, A., Smalling, et al
  2023

- **A Rare Septal Hamartoma of Mature Cardiac Myocytes Manifesting With Cardiac Cachexia in a Teenager.** *Annals of thoracic surgery short reports*
  Kang, A., Wang, H., Hiesinger, W., Berry, G. J., Boyd, J. H.
  2023; 1 (3): 447-450

- **Early clinical outcomes and molecular smooth muscle cell phenotyping using a prophylactic aortic arch replacement strategy in Loeys-Dietz syndrome.** *The Journal of thoracic and cardiovascular surgery*
  Pedroza, A. J., Cheng, P., Dalal, A. R., Baeumler, K., Kino, A., Tognozzi, E., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Hiesinger, W., MacFarlane, E. G., Fleischmann, et al
  2023

- **Effect of a Multidisciplinary Team to Reduce Post Heart Transplant Dialysis and Length of Stay**
  Lam, M., Tulu, Z., Henricksen, E., Duclos, S., Yates, S., Deng, J., Packard, H., Cote, N., Hiesinger, W., Rao, V., Teuteberg, J.
  ELSEVIER SCIENCE INC.2023: S434

- **Almanac: Retrieval-Augmented Language Models for Clinical Medicine.** *Research square*
  Zakka, C., Chaurasia, A., Shad, R., Dalal, A. R., Kim, J. L., Moor, M., Alexander, K., Ashley, E., Boyd, J., Boyd, K., Hirsch, K., Langlotz, C., Nelson, et al
  2023

- **Smooth Muscle Cell Klf4 Expression Is Not Required for Phenotype Modulation or Aneurysm Formation in Marfan Syndrome Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
  Pedroza, A. J., Dalal, A. R., Shad, R., Yokoyama, N., Nakamura, K., Mitchel, O., Gilles, C., Hiesinger, W., Fischbein, M. P.
  2023

- **Lineage-Specific Induced Pluripotent Stem Cell-Derived Smooth Muscle Cell Modeling Predicts Integrin Alpha-V Antagonism Reduces Aortic Root Aneurysm Formation in Marfan Syndrome Mice.** *Arteriosclerosis, thrombosis, and vascular biology*
  Nakamura, K., Dalal, A. R., Yokoyama, N., Pedroza, A. J., Kusadokoro, S., Mitchel, O., Gilles, C., Masoudian, B., Leipzig, M., Casey, K. M., Hiesinger, W., Uchida, T., Fischbein, et al
  2023

- **Successful Heart Transplantation Using a Portable Normothermic Ex-Vivo Donor Heart Preservation System for Extended Criteria Donor after Circulatory Death: A Case Series with Extended Perfusion Times**
  Ruaengsri, C., Shudo, Y., Malki, A., Neto, D., Chen, R., Bethencourt, D., Hiesinger, W., MacArthur, J., Currie, M., Boyd, J., Guenthart, B., Lee, A., Woo, et al
  ELSEVIER SCIENCE INC.2023: S467-S468

- **Electrohydraulic Vascular Compression Device (e-VaC) with Integrated Sensing and Controls** *ADVANCED MATERIALS TECHNOLOGIES*
  Pirozzi, I., Kight, A., Liang, X., Han, A., Ennis, D. B., Hiesinger, W., Dual, S. A., Cutkosky, M. R.
  2022

- **A value-based approach to optimize red blood cell transfusion in patients receiving extracorporeal membrane oxygenation.** *Perfusion*
  Shudo, Y., Cheng, N., He, H., Rosenberg, C., Hiesinger, W., Hadhazy, E., Shepard, J., Krishna, P., Resnik, J., Fong, R., Hill, C., Hsu, J. L., Maggio, et al

2022: 2676591221128138

- **A flexible electronic strain sensor for the real-time monitoring of tumor regression.** *Science advances*
  Abramson, A., Chan, C. T., Khan, Y., Mermin-Bunnell, A., Matsuhisa, N., Fong, R., Shad, R., Hiesinger, W., Mallick, P., Gambhir, S. S., Bao, Z.
  2022; 8 (37): eabn6550

- **Randomized Comparison of Transcatheter Edge-to-Edge Repair for Degenerative Mitral Regurgitation in Prohibitive Surgical Risk Patients.** *JACC. Cardiovascular interventions*
  Lim, D. S., Smith, R. L., Gillam, L. D., Zahr, F., Chadderdon, S., Makkar, R., Stephan von Bardeleben, R., Kipperman, R. M., Rassi, A. N., Szerlip, M., Goldman, S., Inglessis-Azuaje, I., Yadav, et al
  2022

- **Type A Aortic Dissection With Concurrent Aortic Valve Endocarditis, Subarachnoid Hemorrhage, and Disseminated Intravascular Coagulation.** *JACC. Case reports*
  Elde, S. F., Guenthart, B. A., de Biasi, A., Dalal, A. R., Casselman, K. G., Hiesinger, W., Burton, E. C.
  2022; 4 (14): 839-843

- **Embryologic Origin Influences Smooth Muscle Cell Phenotypic Modulation Signatures in Murine Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*
  Pedroza, A. J., Dalal, A. R., Shad, R., Yokoyama, N., Nakamura, K., Cheng, P., Wirka, R. C., Mitchel, O., Baiocchi, M., Hiesinger, W., Quertermous, T., Fischbein, M. P.
  2022: 101161ATVBAHA122317381

- **Controlled Comparison of Simulated Hemodynamics Across Tricuspid and Bicuspid Aortic Valves.** *Annals of biomedical engineering*
  Kaiser, A. D., Shad, R., Schiavone, N., Hiesinger, W., Marsden, A. L.
  2022

- **Deep Learning Preoperative Risk Stratification.** *The Annals of thoracic surgery*
  Ouyang, D., Hiesinger, W., Langlotz, C.
  2022

- **Improving nutrition practices for postoperative high-risk heart transplant and ventricular assist device implant patients in circulatory compromise: A quality improvement pre- and post-protocol intervention outcome study.** *Nutrition in clinical practice : official publication of the American Society for Parenteral and Enteral Nutrition*
  Modir, R., Hadhazy, E., Teuteberg, J., Hiesinger, W., Tulu, Z., Hill, C.
  2022

- **Modeling Effects of Immunosuppressive Drugs on Human Hearts Using Induced Pluripotent Stem Cell-Derived Cardiac Organoids and Single-Cell RNA Sequencing.** *Circulation*
  Sallam, K., Thomas, D., Gaddam, S., Lopez, N., Beck, A., Beach, L., Rogers, A. J., Zhang, H., Chen, I. Y., Ameen, M., Hiesinger, W., Teuteberg, J. J., Rhee, et al
  2022; 145 (17): 1367-1369

- **Keep Your Cool! One Year Outcomes with Use of a Hypothermic Preservation System Compared to Standard Storage with Ice During Heart Procurement**
  Teuteberg, J., Henricksen, E., Khush, K., Kim, D. T., Moayedi, Y., Luikart, H., Wainwright, R., Woo, J. Y., Hiesinger, W., Koyano, T., Shudo, Y.
  ELSEVIER SCIENCE INC.2022: S201

- **RVEX: Right Ventricular External Device for Biomimetic Support and Monitoring of the Right Heart** *ADVANCED MATERIALS TECHNOLOGIES*
  Pirozzi, I., Kight, A., Shad, R. A., Han, A., Dual, S. A., Fong, R., Jia, A., Hiesinger, W., Yock, P., Cutkosky, M.
  2022

- **Acute Induced Pressure Overload Rapidly Incites Thoracic Aortic Aneurysmal Smooth Muscle Cell Phenotype.** *Hypertension (Dallas, Tex. : 1979)*
  Pedroza, A. J., Shad, R., Dalal, A. R., Yokoyama, N., Nakamura, K., Hiesinger, W., Fischbein, M. P.
  2022: HYPERTENSIONAHA12118640

- **Twelfth Interagency Registry for Mechanically Assisted Circulatory Support Report: Readmissions after LVAD.** *The Annals of thoracic surgery*
  Shah, P., Yuzefpolskaya, M., Hickey, G. W., Breathett, K., Wever-Pinzon, O., Khue-Ton, V., Hiesinger, W., Koehl, D., Kirklin, J. K., Cantor, R. S., Jacobs, J. P., Habib, R. H., Pagani, et al

1800

- **Post-Transplant Extracorporeal Membrane Oxygenation for Severe Primary Graft Dysfunction to Support the Use of Marginal Donor Hearts.** *Transplant international : official journal of the European Society for Organ Transplantation*
  Shudo, Y., Alassar, A., Wang, H., Lingala, B., He, H., Zhu, Y., Hiesinger, W., MacArthur, J. W., Boyd, J. H., Lee, A. M., Currie, M., Woo, Y. J.
  2022; 35: 10176
- **Analysis of the revised heart allocation policy and the influence of increased mechanical circulatory support on survival.** *The Journal of thoracic and cardiovascular surgery*
  Elde, S., He, H., Lingala, B., Baiocchi, M., Wang, H., Hiesinger, W., MacArthur, J. W., Shudo, Y., Woo, Y. J.
  1800
- **Commentary: Bespoke tricuspid tailoring-bringing patient-specific valve repair to the forgotten valve.** *JTCVS techniques*
  Shad, R., Hiesinger, W.
  2021; 10: 296-297
- **Commentary: Evidence-based management of infections on patients requiring left ventricular assist device support-a pipe dream?** *JTCVS open*
  Shad, R., Hiesinger, W.
  2021; 8: 412-413
- **Postcardiotomy shock extracorporeal membrane oxygenation: Peripheral or central?** *JTCVS open*
  Bowles, C., Hiesinger, W.
  2021; 8: 66-69
- **Commentary: Bespoke tricuspid tailoring-bringing patient-specific valve repair to the forgotten valve** *JTCVS TECHNIQUES*
  Shad, R., Hiesinger, W.
  2021; 10: 296-297
- **Designing clinically translatable artificial intelligence systems for high-dimensional medical imaging** *NATURE MACHINE INTELLIGENCE*
  Shad, R., Cunningham, J. P., Ashley, E. A., Langlotz, C. P., Hiesinger, W.
  2021; 3 (11): 929-935
- **A design-based model of the aortic valve for fluid-structure interaction.** *Biomechanics and modeling in mechanobiology*
  Kaiser, A. D., Shad, R., Hiesinger, W., Marsden, A. L.
  2021
- **Extended Static Hypothermic Preservation In Cardiac Transplantation: A Case Report.** *Transplantation proceedings*
  Guenthart, B. A., Krishnan, A., Koyano, T., La Francessca, S., Chan, J., Alassar, A., Macarthur, J. W., Shudo, Y., Hiesinger, W., Woo, Y. J.
  2021
- **Patient-Specific Computational Fluid Dynamics Reveal Localized Flow Patterns Predictive of Post-Left Ventricular Assist Device Aortic Incompetence.** *Circulation. Heart failure*
  Shad, R., Kaiser, A. D., Kong, S., Fong, R., Quach, N., Bowles, C., Kasinpila, P., Shudo, Y., Teuteberg, J., Woo, Y. J., Marsden, A. L., Hiesinger, W.
  2021: CIRCHEARTFAILURE120008034
- **Impact of thoracotomy approach on right ventricular failure and length of stay in left ventricular assist device implants: an intermacs registry analysis.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Lampert, B. C., Teuteberg, J. J., Cowger, J., Mokadam, N. A., Cantor, R. S., Benza, R. L., Ganapathi, A. M., Myers, S. L., Hiesinger, W., Woo, J., Pagani, F., Kirklin, J. K., Whitson, et al
  2021
- **Computational fluid dynamics simulations to predict false lumen enlargement after surgical repair of Type-A aortic dissection.** *Seminars in thoracic and cardiovascular surgery*
  Shad, R., Kong, S., Fong, R., Quach, N., Kasinpila, P., Bowles, C., Lee, A., Hiesinger, W.
  2021
- **The Perfect Candidate? The Stanford Integrated Psychosocial Assessment for Transplant**
  Henricksen, E. J., Stott, K., Ilango, S., Moayedi, Y., Waddell, K., Luikart, H. I., Twiggs, J., Lee, R., Zhang, B. M., Hiesinger, W., Khush, K. K., Teuteberg, J. J.
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