



William Hiesinger, MD

Associate Professor of Cardiothoracic Surgery (Adult Cardiac Surgery)

CLINICAL OFFICES

- **Cardiothoracic Surgery**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Elizabeth Pope - Administrative Associate

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Bio

BIO

Dr. Hiesinger is a board-certified, fellowship-trained specialist in adult cardiac surgery. He is also an assistant 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, 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.

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 Workforce on Surgical Treatment of End-Stage Cardiopulmonary Disease national committee as well as 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 Professor - University Medical Line, Cardiothoracic Surgery
- Member, Bio-X
- Member, Cardiovascular Institute

HONORS AND AWARDS

- 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 Workforce on Surgical Treatment of End-Stage Cardiopulmonary Disease, National Committee (2017 - present)

- Reviewer, *Circulation* (2017 - present)
- Member, American Heart Association, Council for Cardiothoracic & Vascular Surgery (2017 - present)
- Member, Society of Thoracic Surgeons (2017 - present)

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
- MOMENTUM 3 Continued Access Protocol, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Julian Howland

Postdoctoral Faculty Sponsor

Cyril Zakka

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cardiothoracic Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **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., Henriksen, E., Khush, K., Kim, D. T., Moayed, 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 Francessa, 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., Moayed, Y., Waddell, K., Luikart, H. I., Twigg, J., Lee, R., Zhang, B. M., Hiesinger, W., Khush, K. K., Teuteberg, J. J.
WILEY.2021: 596
- **Long-term survival in patients with post-LVAD right ventricular failure: multi-state modelling with competing outcomes of heart transplant.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Shad, R., Fong, R., Quach, N., Bowles, C., Kasinpila, P., Li, M., Callon, K., Castro, M., Guha, A., Suarez, E. E., Lee, S., Jovinge, S., Boeve, et al
2021
- **The Use of Factor Eight Inhibitor Bypass Activity (FEIBA) for the Treatment of Perioperative Hemorrhage in Left Ventricular Assist Device Implantation.** *Journal of cardiothoracic and vascular anesthesia*

O'Donnell, C., Rodriguez, A. J., Madhok, J., Sharifi, H., Wang, H., O'Brien, C. G., Boyd, J., Hiesinger, W., Hsu, J., Hill, C. C.
2021

- **Very Temporary Mechanical Support Prior to Heart Transplant: Post-Transplant Outcomes as Status 1-2 versus 3-6 in the Setting of Short Wait Times**
Teuteberg, J., Waddell, K., Henricksen, E., Khush, K., Luikart, H., Resurreccion, C., Marks, P., Packard, H., Woo, J., Jimenez, S., Hiesinger, W.
ELSEVIER SCIENCE INC.2021: S258
- **Longest Storage Period with Static Hypothermic Preservation in Cardiac Transplantation: Initial Experience in the West Coast**
Guenthart, B. A., Alassar, A., Koyano, T., La Francesca, S., Chan, J. L., Krishnan, A., MacArthur, J. W., Shudo, Y., Hiesinger, W., Woo, Y.
ELSEVIER SCIENCE INC.2021: S471
- **Racial Disparities in Advanced Heart Failure Therapies: Are Outcomes the Correct Metric?**
Bowles, C., Shad, R., Fong, R., Quach, N., Kasinpila, P., Lingala, B., Zhu, Y., MacArthur, J. W., Shudo, Y., Hiesinger, W.
ELSEVIER SCIENCE INC.2021: S272
- **An Analysis of Driveline Infections with Left Ventricular Assist Devices Utilizing Carbothane versus Pellethane Driveline Sheaths**
Ravichandran, A. K., Cowger, J. A., Feller, E. D., Mahr, C., Hiesinger, W., Klein, L., Jacoski, M. V., Lampert, B., Moazami, N.
ELSEVIER SCIENCE INC.2021: S434–S435
- **Race by Gender after Mechanical Circulatory Support: Impact on Survival and Adverse Events**
Teuteberg, J. J., Pamboukian, S., Lee, S., Tatoes, A., Hiesinger, W., Milano, C., McGee, E., Cotts, W.
ELSEVIER SCIENCE INC.2021: S424–S425
- **The Utility of Preoperative Nutrition Screenings and Postoperative Nutrition Protocols in Patients with Ventricular Assist Devices and Heart Transplantation**
Modir, R., Teuteberg, J., Hiesinger, W., Hadhazy, E., Wei, J., Tulu, Z., Hill, C.
ELSEVIER SCIENCE INC.2021: S289
- **Thoracic Epidural Analgesia Improves Outcomes after Lung Transplant**
Bowles, C., Keeyapaj, W., Brodt, J., Dhillon, G., Woo, Y. J., Hiesinger, W., MacArthur, J. W.
ELSEVIER SCIENCE INC.2021: S355
- **Donor and Recipient Size Matching in Heart Transplantation with Predicted Heart and Lean Body Mass.** *Seminars in thoracic and cardiovascular surgery*
Miller, R. J., Hedman, K. n., Amsallem, M. n., Tulu, Z. n., Kent, W. n., Fatehi, A. n., Clarke, B. n., Heidenreich, P. n., Hiesinger, W. n., Khush, K. K., Teuteberg, J. n., Haddad, F. n.
2021
- **Impact of using higher-risk donor hearts for candidates with pre-transplant mechanical circulatory support.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Han, J., Moayedi, Y., Yang, W., Henricksen, E. J., Lee, R., Purewal, S., Chang, E., Duclos, S., Lyapin, A., Feng, K., Hiesinger, W., Teuteberg, J. J., Khush, et al
2021
- **First lung and kidney multi-organ transplant following COVID-19 Infection.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Guenthart, B. A., Krishnan, A., Alassar, A., Madhok, J., Kakol, M., Miller, S., Cole, S. P., Rao, V. K., Acero, N. M., Hill, C. C., Cheung, C., Jackson, E. C., Feinstein, et al
2021
- **Predicting post-operative right ventricular failure using video-based deep learning.** *Nature communications*
Shad, R., Quach, N., Fong, R., Kasinpila, P., Bowles, C., Castro, M., Guha, A., Suarez, E. E., Jovinge, S., Lee, S., Boeve, T., Amsallem, M., Tang, et al
2021; 12 (1): 5192
- **Cardiopulmonary Exercise Testing With Echocardiography to Assess Recovery in Patients With Ventricular Assist Devices.** *ASAIO journal (American Society for Artificial Internal Organs : 1992)*
Christle, J. W., Moneghetti, K. J., Duclos, S., Mueller, S., Moayedi, Y., Khush, K. K., Haddad, F., Hiesinger, W., Myers, J., Ashley, E. A., Teuteberg, J. J., Wheeler, M. T., Banerjee, et al
2021; 67 (10): 1134-1138
- **Single-Cell Transcriptomic Profiling of Vascular Smooth Muscle Cell Phenotype Modulation in Marfan Syndrome Aortic Aneurysm.** *Arteriosclerosis, thrombosis, and vascular biology*

- Pedroza, A. J., Tashima, Y., Shad, R., Cheng, P., Wirka, R., Churovich, S., Nakamura, K., Yokoyama, N., Cui, J. Z., Iosef, C., Hiesinger, W., Quertermous, T., Fischbein, et al
2020: ATVB AHA120314670
- **Donors after circulatory death heart trial.** *Future cardiology*
Shudo, Y., Benjamin-Addy, R., Koyano, T. K., Hiesinger, W., MacArthur, J. W., Woo, Y. J.
2020
 - **Open-Chest Ablation of Incessant Ventricular Tachycardia During Left Ventricular Assist Device Implantation.** *JACC. Clinical electrophysiology*
Shah, R. L., Hiesinger, W., Badhwar, N.
2020; 6 (7): 901–2
 - **Relation of Length of Survival After Orthotopic Heart Transplantation to Age of the Donor.** *The American journal of cardiology*
Shudo, Y., Guenther, S. P., Lingala, B., He, H., Hiesinger, W., MacArthur, J. W., Currie, M. E., Lee, A. M., Boyd, J. H., Woo, Y. J.
2020
 - **Novel Methods for Donor and Recipient Size Matching in Heart Transplantation**
Miller, R. J., Hedman, K., Vrotec, B., Ingelsson, E., Heidenreich, P., Hiesinger, W., Oyer, P., Teuteberg, J., Haddad, F.
ELSEVIER SCIENCE INC.2020: S50
 - **Thoracotomy Approach is Associated with Less Right Ventricular Failure and Shorter Length of Stay: An Intermacs Analysis of Nearly 1000 Implants via Thoracotomy**
Lampert, B. C., Teuteberg, J. J., Mokadam, N. A., Myers, S., Hiesinger, W., Woo, Y., Kirklin, J. K., Whitson, B. A.
ELSEVIER SCIENCE INC.2020: S121–S122
 - **Severe Primary Graft Dysfunction: Impact of the New UNOS Heart Allocation System**
Han, J., Moayed, Y., Yang, W., Henricksen, E. J., Lee, R., Purewal, S., Chang, E., Duclos, S., Lyapin, A., Tremblay-Gravel, M., Alexander, K. M., Kawana, M., Hiesinger, et al
ELSEVIER SCIENCE INC.2020: S173–S174
 - **To SIPAT or Not to SIPAT: The Stanford Integrated Psychosocial Assessment for Transplant**
Moayed, Y., Yang, W. A., Mueller, B., Fan, C. S., Purewal, S., Ramirez, N., Han, J., Henricksen, E. J., Lee, R., Duclos, S., Lyapin, A., Wainwright, R., Hiesinger, et al
ELSEVIER SCIENCE INC.2020: S39–S40
 - **Take the First Available Heart: Use of Higher-Risk Donors in Recipients with Pre-Transplant Mechanical Circulatory Support**
Han, J., Moayed, Y., Yang, W., Henricksen, E. J., Lee, R., Purewal, S., Chang, E., Duclos, S., Lyapin, A., Feng, K. Y., Hiesinger, W., Teuteberg, J. J., Khush, et al
ELSEVIER SCIENCE INC.2020: S42
 - **More Money and More Miles: The Hidden Costs of Donor Procurement with the New Heart Allocation System**
Lampert, B. C., Ravichandran, A. K., Teuteberg, J. J., Patel, C., Shah, P., Hiesinger, W., Campbell, D. A., Slivnick, J., Hasan, A. K., Salerno, C., Thomas, J., Seator, E., Schroder, et al
ELSEVIER SCIENCE INC.2020: S175
 - **Moving towards an Induction-Free Era: Short-Term Renal and Infectious Outcomes**
Moayed, Y., Henricksen, E. J., Lafreniere-Roula, M., Fan, C. S., Multani, A., Puing, A., Couture-Cosette, A., Quintero, O., Han, J., Feng, K. Y., Lee, R., Duclos, S., Lyapin, et al
ELSEVIER SCIENCE INC.2020: S274–S275
 - **More Frequent Hospitalizations and Worse Quality of Life with Late Right Heart Failure Compared to Early Right Heart Failure after Left Ventricular Assist as Destination Therapy**
Teuteberg, J., Hiesinger, W., Cowger, J. A., Rich, J., Najjar, S. S., Jacoski, M., Markham, D., Rogers, J.
ELSEVIER SCIENCE INC.2020: S91–S92
 - **A Decade of Single Center HeartWare (TM) HVAD (TM) Experience**
Guenther, S. P., Fong, R., Abovwe, N., Shad, R., MacArthur, J. W., Teuteberg, J., Woo, Y., Shudo, Y., Hiesinger, W.
ELSEVIER SCIENCE INC.2020: S339
 - **Use of direct oral anticoagulants after heart transplantation.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
Henricksen, E. J., Tremblay-Gravel, M., Moayed, Y., Yang, W., Lee, R., Ross, H. J., Hiesinger, W., Teuteberg, J. J., Khush, K. K.

2020

- **Type A Aortic Dissection-Experience Over 5 Decades: JACC Historical Breakthroughs in Perspective.** *Journal of the American College of Cardiology*
Zhu, Y. n., Lingala, B. n., Baiocchi, M. n., Tao, J. J., Toro Arana, V. n., Khoo, J. W., Williams, K. M., Traboulsi, A. A., Hammond, H. C., Lee, A. M., Hiesinger, W. n., Boyd, J. n., Oyer, et al
2020; 76 (14): 1703–13
- **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy vs Clamshell Thoracotomy.** *Transplantation proceedings*
Shudo, Y. n., Rinewalt, D. n., Lingala, B. n., Kim, F. Y., He, H. n., Boyd, J. H., Lee, A. M., Hiesinger, W. n., Currie, M. E., MacArthur, J. W., Woo, Y. J.
2020
- **Use of patient-specific computational models for optimization of aortic insufficiency after implantation of left ventricular assist device.** *The Journal of thoracic and cardiovascular surgery*
Kasinpila, P. n., Kong, S. n., Fong, R. n., Shad, R. n., Kaiser, A. D., Marsden, A. L., Woo, Y. J., Hiesinger, W. n.
2020
- **OUTCOMES OF PATIENTS WITH INFECTION RELATED TO VENTRICULAR ASSIST DEVICE AFTER HEART TRANSPLANTATION**
Moayed, Y., Multani, A., Bunce, P., Tremblay-Gravel, M., Gomez, C., Garvert, D., Duclos, S., Hiesinger, W., Ross, H., Khush, K., Montoya, J., Teuteberg, J.
WILEY.2019: 55
- **"Cheese Wire" Fenestration of Dissection Intimal Flap to Facilitate Thoracic Endovascular Aortic Repair in Chronic Dissection.** *Journal of vascular and interventional radiology : JVIR*
Iwakoshi, S., Watkins, C. A., Ogawa, Y., Fischbein, M., Lee, A., Lee, J. T., Hiesinger, W., Dake, M. D.
2019
- **Outcomes of patients with infection related to a ventricular assist device after Heart Transplantation.** *Clinical transplantation*
Moayed, Y., Multani, A., Bunce, P. E., Henriksen, E., Lee, R., Yang, W., Gomez, C. A., Garvert, D. W., Tremblay-Gravel, M., Duclos, S., Hiesinger, W., Ross, H. J., Khush, et al
2019: e13692
- **A modified implantation technique for temporary right ventricular assist device: Enabling ambulation and less invasive decannulation.** *Journal of cardiac surgery*
Rinewalt, D., Shudo, Y., MacArthur, J. W., Woo, Y. J., Hiesinger, W.
2019
- **Risk of reoperative valve surgery for endocarditis associated with drug use.** *The Journal of thoracic and cardiovascular surgery*
Mori, M., Bin Mahmood, S. U., Schranz, A. J., Sultan, I., Axtell, A. L., Sarsour, N., Hiesinger, W., Boskovski, M. T., Hirji, S., Kaneko, T., Woo, J., Tang, P., Jassar, et al
2019
- **Predicting Transfusions During Left Ventricular Assist Device Implant: Peri-Operative Transfusions with LVAD Implantation.** *Seminars in thoracic and cardiovascular surgery*
Miller, R. J., Gregory, A. J., Kent, W., Banerjee, D., Hiesinger, W., Clarke, B.
2019
- **Contemporary Use of Glycoprotein IIb/IIIa Inhibitors in Patients with Left Ventricular Assist Devices**
Duclos, S., Matsuda, K., Jimenez, S., Wheeler, M., Sallam, K., Hiesinger, W., Banerjee, D.
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- **Impact of Concomitant Valvular Surgery on Patients Undergoing LVAD Implantation**
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