



## Jack Boyd

Clinical Associate Professor, Cardiothoracic Surgery

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Dept of Cardiothoracic Surgery**

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Mel Rosete - Administrative Associate

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## Bio

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### CLINICAL FOCUS

- Coronary Specialist
- Thoracic and Cardiac Surgery

### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Cardiothoracic Surgery
- Member, Cardiovascular Institute

### HONORS AND AWARDS

- Co-Principal Investigator, Mechanism of Coronary Microvascular Dysfunction in Metabolic Syndrome (September 2013)
- Grand Rounds, Krannert Institute of Cardiology (October 2013)
- Moderator, AHA Coronary Artery Disease (November 2012)
- Moderator, AHA Thoracic Aortic Disease I (November 2010)
- Delegate, 2010 STS Legislative Advocacy Workshop (June 2010)
- Recipient, Young Physician Scholarship (August 2010)
- Top Doctor, US News & World Report (2013, 2012)
- Top Doctor, Castle Connolly (2013)
- Teaching Resident of the Year, Department of General Surgery Indiana University School of Medicine (2006)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, The American Board of Thoracic Surgery (2011 - present)
- Member, Society of Thoracic Surgeons (2010 - present)
- Member, International Society of Minimally Invasive Of Cardiac Surgeons (2009 - present)
- Member, American Heart Association (2009 - present)

- Member, The American Board of Surgery (2007 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2011)
- Fellowship: University of Pennsylvania Dept of GME (2009) PA
- Fellowship: Indiana University Thoracic Surgery Fellowship (2009) IN
- Residency: Indiana University Dept of Surgery (2006) IN
- Medical Education: Indiana University School of Medicine Registrar (2000) IN
- Board Certification: General Surgery, American Board of Surgery (2007)
- Fellowship, Good Samaritan Hospital , Robotic Cardiac Surgery (2009)
- Fellowship, University of Pennsylvania , Minimally Invasive Cardiac Surgery (2009)
- Resident, Indiana University School of Medicine , Thoracic Surgery (2009)
- Resident, Indiana University School of Medicine , General Surgery (2006)
- Faculty of Health Sciences, Moi University, Eldoret, Kenya , Health Care in a Third World Country (2004)
- Intern, Indiana University School of Medicine , General Surgery (2001)
- Doctorate, Indiana University School of Medicine , Medicine (2000)
- Bachelor of Arts, University of Notre Dame , Government (1996)

## 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>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

## Research & Scholarship

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### CLINICAL TRIALS

- Anticoagulation for New-Onset Post-Operative Atrial Fibrillation After CABG, Recruiting
- APOLLO ICMJE Transcatheter Mitral Valve Replacement With the Medtronic Intrepid TMVR Sys, Recruiting
- Experiences With Automated Surgical Drainage in Cardiac Surgery, Not Recruiting
- PRIMARY, Not Specified
- RECHARGE, Not Specified

## Publications

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### PUBLICATIONS

- **Time-varying comparative effectiveness of surgical or percutaneous revascularization on patient-centred outcomes.** *CMAJ : Canadian Medical Association journal = journal de l'Association medicale canadienne*  
Fielding-Singh, V., O'Donnell, C., Boyd, J. H., Tuna, M., Mamas, M. A., Ruel, M., Sun, L. Y.  
2025; 197 (42): E1436-E1448
- **Single Cell and Spatial Transcriptomics Identify Novel Immune-Stromal Interactions in Cardiac Allograft Vasculopathy.** *Research square*  
Owen, M. C., Li, D. Y., Shin, H., Gu, W., Parvathaneni, A., Kadyrov, F. F., Wang, X., Sticco-Ivins, M., Bonnici, G., Nelson, S. L., Dun, H., Hyacinth, S., Cain, et al  
2025

- **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)
- **Single cell RNA sequencing of hematopoietic cells in fresh and frozen human atheroma tissue.** *Cardiovascular research*  
Ahmad, H., Gopakumar, J. K., Nachun, D. C., Ma, L., D'Addabbo, J., Huang, X., Koyano, T., Boyd, J., Woo, Y. J., Fong, R., Aalami, O., Nguyen, P. K., Jaiswal, et al  
2025
- **International Medical Graduates in Academic Cardiothoracic Surgery.** *Annals of surgery*  
Bajaj, S. S., Wang, H., Williams, K. M., Boyd, J. H.  
2025
- **Windssock mitral valve after prior aortic valve endocarditis.** *Journal of cardiothoracic surgery*  
Kang, A. W., Wang, H., Libert, D. M., Berry, G. J., Boyd, J. H.  
2024; 19 (1): 700
- **Automated line-clearing chest tubes reduce postoperative pain and atrial fibrillation after cardiac surgery.** *JTCVS open*  
Heng, E. E., Obafemi, O., Mullis, D., Garrison, A., Wang, H., Boyd, J. H.  
2024; 22: 85-94
- **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
- **Impact of American Heart Association Awards on the Academic Careers of Cardiac Surgeons.** *Journal of the American Heart Association*  
Bajaj, S. S., Wang, H., Kumar, S. S., Williams, K. M., Boyd, J. H.  
2024: e034541
- **Personalized coronary and myocardial blood flow models incorporating CT perfusion imaging and synthetic vascular trees.** *Npj imaging*  
Menon, K., Khan, M. O., Sexton, Z. A., Richter, J., Nguyen, P. K., Malik, S. B., Boyd, J., Nieman, K., Marsden, A. L.  
2024; 2 (1): 9
- **Hemodynamics and Wall Mechanics of Vascular Graft Failure.** *Arteriosclerosis, thrombosis, and vascular biology*  
Szafron, J. M., Heng, E. E., Boyd, J., Humphrey, J. D., Marsden, A. L.  
2024
- **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)
- **The biomechanics and prevention of vein graft failure in coronary revascularization.** *Vessel plus*  
Heng, E. E., Wang, H., Obafemi, O., Marsden, A., Woo, Y. J., Boyd, J. H.  
2023; 7
- **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
- **Results following implementation of a cardiac surgery ERAS protocol.** *PloS one*  
Obafemi, T., Mullis, D., Bajaj, S., Krishna, P., Boyd, J.  
2023; 18 (7): e0277868
- **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

- **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
- **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
- **SARS-CoV-2 infection drives an inflammatory response in human adipose tissue through infection of adipocytes and macrophages.** *Science translational medicine*  
Martínez-Colón, G. J., Ratnasiri, K., Chen, H., Jiang, S., Zanley, E., Rustagi, A., Verma, R., Chen, H., Andrews, J. R., Mertz, K. D., Tzankov, A., Azagury, D., Boyd, et al  
2022: eabm9151
- **Biodegradable external wrapping promotes favorable adaptation in an ovine vein graft model.** *Acta biomaterialia*  
Ramachandra, A. B., Wang, H., Wnorowski, A., Schwarz, E. L., Pickering, J., Heiler, J. C., Lucian, H. J., Hironaka, C. E., Tran, N. A., Liu, Y., Khan, M. O., Obafemi, O., Tada, et al  
2022
- **Impact of PhD Degree Versus Non-PhD Research Fellowship on Future Research Productivity Among Academic Cardiothoracic Surgeons.** *World journal of surgery*  
Bajaj, S. S., Wang, H., Williams, K. M., Heiler, J. C., Pickering, J. M., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2022
- **Diminishing Basic Science Research Experience Among United States Cardiothoracic Surgery Trainees.** *The Journal of surgical research*  
Wang, H., Bajaj, S. S., Manjunatha, K., Yu, M. M., Obafemi, O. O., Williams, K. M., Boyd, J. H.  
2022; 279: 312-322
- **An automated line-clearing chest tube system after cardiac surgery.** *JTCVS open*  
Obafemi, O. O., Wang, H., Bajaj, S. S., O'Donnell, C. T., Elde, S., Boyd, J. H.  
2022; 10: 246-253
- **Career Progression and Research Productivity of Women in Academic Cardiothoracic Surgery.** *The Annals of thoracic surgery*  
Williams, K. M., Wang, H., Bajaj, S. S., Hironaka, C. E., Kasinpila, P., O'Donnell, C. T., Sanchez, M., Watkins, A. C., Lui, N. S., Backhus, L. M., Boyd, J.  
2022
- **Integration of Reinforcement Learning in a Virtual Robotic Surgical Simulation.** *Surgical innovation*  
Bourdillon, A. T., Garg, A., Wang, H., Woo, Y. J., Pavone, M., Boyd, J.  
2022: 15533506221095298
- **Human Coronary Plaque T Cells Are Clonal and Cross-React to Virus and Self.** *Circulation research*  
Roy Chowdhury, R., D'Addabbo, J., Huang, X., Veizades, S., Sasagawa, K., Louis, D. M., Cheng, P., Sokol, J., Jensen, A., Tso, A., Shankar, V., Wendel, B. S., Bakerman, et al  
2022: 101161CIRCRESAHA121320090
- **Analyzing the Scholarly Impact of Cardiothoracic Surgery Research Using the Relative Citation Ratio.** *The Journal of surgical research*  
Wang, H., Bajaj, S. S., Williams, K. M., O'Donnell, C. T., Heiler, J. C., Krishnan, A., Pickering, J. M., Sanchez, M., Manjunatha, K., Kumar, S. S., Yu, M. M., Boyd, J. H.  
2022; 275: 265-272
- **Colocalization of Coronary Plaque with Wall Shear Stress in Myocardial Bridge Patients.** *Cardiovascular engineering and technology*  
Khan, M. O., Nishi, T., Imura, S., Seo, J., Wang, H., Honda, Y., Nieman, K., Rogers, I. S., Tremmel, J. A., Boyd, J., Schnittger, I., Marsden, A.  
2022
- **Quantitative goals for research output and scholarly impact to enhance basic science R01 grant renewal for cardiothoracic surgeons.** *JTCVS open*

- Wang, H., Bajaj, S. S., Heiler, J. C., Krishnan, A., Williams, K. M., Woo, Y. J., Boyd, J. H.  
2022; 9: 162-175
- **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
  - **Relationship Between Coronary Atheroma, Epicardial Adipose Tissue Inflammation, and Adipocyte Differentiation Across the Human Myocardial Bridge.** *Journal of the American Heart Association*  
McLaughlin, T., Schnittger, I., Nagy, A., Zanley, E., Xu, Y., Song, Y., Nieman, K., Tremmel, J. A., Dey, D., Boyd, J., Sacks, H.  
2021: e021003
  - **The Academic Impact of Advanced Clinical Fellowship Training among General Thoracic Surgeons.** *Journal of surgical education*  
Patel, D. C., Wang, H., Bajaj, S. S., Williams, K. M., Pickering, J. M., Heiler, J. C., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H., Backhus, L. M.  
2021
  - **Impact of Diastolic Vessel Restriction on Quality of Life in Symptomatic Myocardial Bridging Patients Treated With Surgical Unroofing: Preoperative Assessments With Intravascular Ultrasound and Coronary Computed Tomography Angiography.** *Circulation. Cardiovascular interventions*  
Hashikata, T., Honda, Y., Wang, H., Pargaonkar, V. S., Nishi, T., Hollak, M. B., Rogers, I. S., Nieman, K., Yock, P. G., Fitzgerald, P. J., Schnittger, I., Boyd, J. H., Tremmel, et al  
2021; 14 (10): e011062
  - **Characterization of academic cardiothoracic surgeons who started as attendings in private or community practice.** *Surgery*  
Bajaj, S. S., Wang, H., Williams, K. M., Krishnan, A., Heiler, J. C., Pickering, J. M., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2021
  - **IMPACT OF DIASTOLIC VESSEL RESTRICTION ON CLINICAL SYMPTOMS IN PATIENTS WITH SYMPTOMATIC MYOCARDIAL BRIDGING**  
Hashikata, T., Honda, Y., Wang, H., Pargaonkar, V., Hollak, M., Rogers, I. S., Yock, P., Fitzgerald, P., Schnittger, I., Boyd, J., Tremmel, J.  
ELSEVIER SCIENCE INC.2021: 165
  - **INTRAOPERATIVE INDUCIBILITY OF ATRIAL FIBRILLATION IMPROVES RISK STRATIFICATION AND REDUCES POST-OPERATIVE ATRIAL FIBRILLATION**  
Pong, T., Cyr, K., Carlton, C., Niesen, J., Aparicio-Valenzuela, J., Fischbein, M., Woo, Y., Boyd, J., Lee, A.  
ELSEVIER SCIENCE INC.2021: 1592
  - **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
  - **Career Research Productivity Correlates With Medical School Ranking Among Cardiothoracic Surgeons.** *The Journal of surgical research*  
Bajaj, S. S., Wang, H., Williams, K. M., Pickering, J. M., Heiler, J. C., Manjunatha, K., Sanchez, M., O'Donnell, C. T., Boyd, J. H.  
2021; 264: 99-106
  - **Computational evaluation of venous graft geometries in coronary artery bypass surgery.** *Seminars in thoracic and cardiovascular surgery*  
Seo, J. n., Ramachandra, A. B., Boyd, J. n., Marsden, A. L., Kahn, A. M.  
2021
  - **Characterization of Cardiothoracic Surgeons Actively Leading Basic Science Research.** *The Journal of surgical research*  
Wang, H., Bajaj, S. S., Krishnan, A., Heiler, J. C., Williams, K. M., Pickering, J. M., Manjunatha, K., Sanchez, M., O'Donnell, C. T., Boyd, J. H.  
2021; 268: 371-380
  - **THE SAFETY AND EFFICACY OF PERIOPERATIVE FEIBA AFTER LEFT VENTRICULAR ASSIST DEVICE IMPLANTATION**  
O'Donnell, C., Rodriguez, A., Madhok, J., Wang, H., Shad, R., Sharifi, H., Boyd, J., William, H., Hsu, J., Hill, C.  
LIPPINCOTT WILLIAMS & WILKINS.2021: 168
  - **National Institutes of Health R01 Grant Funding Is Associated with Enhanced Research Productivity and Career Advancement Among Academic Cardiothoracic Surgeons.** *Seminars in thoracic and cardiovascular surgery*

- Bajaj, S. S., Wang, H., Williams, K. M., Pickering, J. M., Heiler, J. C., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2020
- **Comparison of Postoperative Pain From Catheter Over the Needle (CON) Versus Catheter Through Needle (CTN) Techniques for Erector Spinae Plane Blockade in Patients Undergoing Open Heart Surgery: A Single-Center Retrospective Review.** *Journal of cardiothoracic and vascular anesthesia*  
Pfaff, K., Brodt, J., Basireddy, S., Boyd, J., Boublik, J., Horn, J., Tsui, B. C.  
2020
  - **Early Engagement in Cardiothoracic Surgery Research Enhances Future Academic Productivity.** *The Annals of thoracic surgery*  
Wang, H., Bajaj, S. S., Williams, K. M., Heiler, J. C., Pickering, J. M., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2020
  - **New Attending Surgeons Hired by Their Training Institution Exhibit Greater Research Productivity.** *The Annals of thoracic surgery*  
Bajaj, S. S., Wang, H., Williams, K. M., Pickering, J. M., Heiler, J. C., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2020
  - **Commentary: Keep your friends close.** *The Journal of thoracic and cardiovascular surgery*  
Boyd, J. H.  
2020
  - **Impact of advanced clinical fellowship training on future research productivity and career advancement in adult cardiac surgery.** *Surgery*  
Wang, H., Bajaj, S. S., Williams, K. M., Pickering, J. M., Heiler, J. C., Manjunatha, K., O'Donnell, C. T., Sanchez, M., Boyd, J. H.  
2020
  - **Clinical trial in a dish using iPSCs shows lovastatin improves endothelial dysfunction and cellular cross-talk in LMNA cardiomyopathy.** *Science translational medicine*  
Sayed, N., Liu, C., Ameen, M., Himmati, F., Zhang, J. Z., Khanamiri, S., Moonen, J., Wnorowski, A., Cheng, L., Rhee, J., Gaddam, S., Wang, K. C., Sallam, et al  
2020; 12 (554)
  - **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
  - **Screening and Prophylactic Amiodarone Reduces Post-Operative Atrial Fibrillation in At-Risk Patients** *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*  
Pong, T., Cyr, K., Niesen, J., Aparicio-Valenzuela, J., Carlton, C., Fischbein, M. P., Woo, Y., Boyd, J. H., Lee, A. M.  
2020; 75 (11): 1361–63
  - **Fractional Flow Reserve to Guide Coronary Artery Bypass Graft Surgery.** *JACC. Cardiovascular interventions*  
Fearon, W. F., Boyd, J. H.  
2020
  - **Endoscopic Radial Artery Harvesting During Anesthesia Line Placement Reduces the Time and Cost of Multivessel Coronary Artery Bypass Grafting.** *Innovations (Philadelphia, Pa.)*  
Wang, H., Bilbao, M. S., Miller, S. L., O'Donnell, C. T., Boyd, J. H.  
2020: 1556984519882014
  - **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
  - **Off-Pump Mini Thoracotomy Versus Sternotomy for Left Anterior Descending Myocardial Bridge Unroofing.** *The Annals of thoracic surgery*

- Wang, H. n., Pargaonkar, V. S., Hironaka, C. E., Bajaj, S. S., Abbot, C. J., O'Donnell, C. T., Miller, S. L., Honda, Y. n., Rogers, I. S., Tremmel, J. A., Fischbein, M. P., Mitchell, R. S., Schnittger, et al  
2020
- **Low Wall Shear Stress Is Associated with Saphenous Vein Graft Stenosis in Patients with Coronary Artery Bypass Grafting.** *Journal of cardiovascular translational research*  
Khan, M. O., Tran, J. S., Zhu, H. n., Boyd, J. n., Packard, R. R., Karlsberg, R. P., Kahn, A. M., Marsden, A. L.  
2020
  - **Women in Thoracic Surgery Scholarship: Impact on Career Path and Interest in Cardiothoracic Surgery.** *The Annals of thoracic surgery*  
Williams, K. M., Hironaka, C. E., Wang, H. n., Bajaj, S. S., O'Donnell, C. T., Sanchez, M. n., Boyd, J. n., Kane, L. n., Backhus, L. n.  
2020
  - **A Step Back in the Diagnosis and Management of Myocardial Bridging.** *The Annals of thoracic surgery*  
Schnittger, I., Boyd, J. H., Tremmel, J. A.  
2019
  - **Opioid-Free Ultra-Fast-Track On-Pump Coronary Artery Bypass Grafting Using Erector Spinae Plane Catheters** *JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA*  
Chanowski, E. J. P., Horn, J., Boyd, J. H., Tsui, B. C. H., Brodt, J. L.  
2019; 33 (7): 1988–90
  - **Impact of Surgical Approach in Double Lung Transplantation: Median Sternotomy Decreases Operative and Cardiopulmonary Bypass Time Compared to Clamshell Thoracotomy**  
Shudo, Y., Rinewalt, D., Lingala, B., Kim, F. Y., He, H., Boyd, J. H., Lee, A. M., Hiesinger, W., Currie, M. E., MacArthur, J. W., Woo, J.  
ELSEVIER SCIENCE INC.2019: S414
  - **Utilization of Del Nido Cardioplegia in Adult Coronary Artery Bypass Grafting - A Retrospective Analysis -** *CIRCULATION JOURNAL*  
O'Donnell, C., Wang, H., Phat Tran, Miller, S., Shuttleworth, P., Boyd, J. H.  
2019; 83 (2): 342–46
  - **Evaluation of Risk Factors for Heart-Lung Transplant Recipient Outcome: An Analysis of the United Network for Organ Sharing Database.** *Circulation*  
Shudo, Y. n., Wang, H. n., Lingala, B. n., He, H. n., Kim, F. Y., Hiesinger, W. n., Lee, A. M., Boyd, J. H., Currie, M. n., Woo, Y. J.  
2019; 140 (15): 1261–72
  - **Opioid-Free Ultra-Fast-Track On-Pump Coronary Artery Bypass Grafting Using Erector Spinae Plane Catheters.** *Journal of cardiothoracic and vascular anesthesia*  
Chanowski, E. J., Horn, J., Boyd, J. H., Tsui, B. C., Brodt, J. L.  
2018
  - **Yellow nail syndrome with chylothorax after coronary artery bypass grafting** *JOURNAL OF CARDIOTHORACIC SURGERY*  
Waliany, S., Chandler, J., Hovsepian, D., Boyd, J., Lui, N.  
2018; 13
  - **Surgical unroofing of hemodynamically significant myocardial bridges in a pediatric population.** *The Journal of thoracic and cardiovascular surgery*  
Maeda, K., Schnittger, I., Murphy, D. J., Tremmel, J. A., Boyd, J. H., Peng, L., Okada, K., Pargaonkar, V. S., Hanley, F. L., Mitchell, R. S., Rogers, I. S.  
2018
  - **Impact of load variations on systolic function of failed left ventricle under extracorporeal membrane oxygenation assessed by strain and tissue doppler imaging**  
Ouazani, N., Shudo, Y., Sallam, K., Lee, A., Boyd, J., Teuteberg, J.  
WILEY.2018: 114–15
  - **How to start a successful robotic mitral surgery program: It's not just about the surgery!** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
Wang, H., Boyd, J. H.  
2018; 155 (4): 1472–73

- **MYOCARDIAL BRIDGE MUSCLE INDEX (MMI): A MARKER OF DISEASE SEVERITY AND ITS RELATIONSHIP WITH ENDOTHELIAL DYSFUNCTION AND SYMPTOMATIC OUTCOME IN PATIENTS WITH ANGINA AND A HEMODYNAMICALLY SIGNIFICANT MYOCARDIAL BRIDGE**  
Pargaonkar, V., Schnittger, I., Rogers, I., Tanaka, S., Yamada, R., Kimura, T., Boyd, J., Tremmel, J.  
ELSEVIER SCIENCE INC.2018: 160
- **Atrial Septal Defect as Unexpected Cause of Pulmonary Artery Hypertension** *TEXAS HEART INSTITUTE JOURNAL*  
Parikh, R., Boyd, J., Lee, D. P., Witteles, R.  
2018; 45 (1): 42–44
- **Second Arterial Versus Venous Conduits for Multivessel Coronary Artery Bypass Surgery in California.** *Circulation*  
Goldstone, A. B., Chiu, P. n., Baiocchi, M. n., Wang, H. n., Lingala, B. n., Boyd, J. H., Woo, Y. J.  
2018; 137 (16): 1698–1707
- **The tip of the iceberg: Evaluating the mechanism behind dehiscence of mitral annuloplasty rings** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*  
MacArthur, J. W., Boyd, J.  
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