



## Doff McElhinney

Professor of Cardiothoracic Surgery (Pediatric Cardiac Surgery) and of Pediatrics (Cardiology)

 Curriculum Vitae available Online

### CLINICAL OFFICE (PRIMARY)

- **Heart Center Research**

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Palo Alto, CA 94304

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### ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Tiffany Salinas

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**Tel** (650) 736-9364

## Bio

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### CLINICAL FOCUS

- Pediatric Cardiology

### ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Cardiothoracic Surgery
- Professor - University Medical Line, Pediatrics - Cardiology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

### PROFESSIONAL EDUCATION

- Residency: Children's Hospital of Philadelphia Dept of Pediatrics (2002) PA
- Fellowship: Boston Childrens Hospital Pediatric Cardiology Fellowship (2006) MA
- Fellowship: Boston Childrens Hospital Pediatric Cardiology Fellowship (2005) MA
- Medical Education: University of California at San Francisco School of Medicine (1998) CA
- Board Certification: Adult Congenital Heart Disease, American Board of Internal Medicine (2015)
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2006)
- Board Certification, Adult Congenital Heart Disease , American Board of Internal Medicine (2015)

### LINKS

- Stanford Pediatric Cardiac Services: <http://med.stanford.edu/ctsurgery/clinical-care/pediatric-cardiac-surgery-services.html>
- Make an Appointment: <http://med.stanford.edu/ctsurgery/contact-us.html#division-of-pediatric-cardiac-surgery>
- Get a Second Opinion: <https://www.stanfordchildrens.org/en/landing/second-opinion>

- Clinical & Translational Research Program: <http://med.stanford.edu/ctrp.html>
- Follow us on Twitter: <https://twitter.com/StanfordCTSurg>

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Lorenzo Ferrari

## Publications

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### PUBLICATIONS

- **Postoperative vocal fold immobility in pediatric patients undergoing pulmonary artery reconstruction surgery.** *The Annals of thoracic surgery*  
Stevens, C. G., Asija, R., Zhang, Y., Jaggi, A., Nelson, L., Sidell, D. R., Hanley, F. L., McElhinney, D. B.  
2026
- **Validation of a 2-Gene Blood Test for Kawasaki Disease in Febrile Children.** *JAMA network open*  
Kuo, H. C., Xue, X., Liu, F., Mortensen, R. D., Chou, C. J., Jin, B., Wei, J., Luo, Q., Weng, K. P., Guo, M. M., Yang, K. D., Su, K. J., Kang, et al  
2026; 9 (5): e2615420
- **Durability of Bioprosthetic and Mechanical Valves Implanted for Aortic Valve Replacement in Pediatric Patients.** *Circulation. Cardiovascular interventions*  
Yokota, R., Zhang, Y., Jaggi, A., Perry, T., Martin, E., Ma, M., Pun, R., Hanley, F. L., McElhinney, D. B.  
2026: e015931
- **Anatomy of the Pulmonary Circulation and Outcomes in Tetralogy of Fallot With Major Systemic-to-Pulmonary Collaterals and Unilateral Pulmonary Artery of Ductal Origin.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Ortega, J., Adamson, G. T., Jaggi, A., Gifford, C. A., Asija, R., Hanley, F. L., McElhinney, D. B.  
2026
- **Expecting the Unexpected: Insights and Uncertainties From the ALTERRA Trial 3-Year Results.** *Circulation. Cardiovascular interventions*  
Han, Q. J., McElhinney, D. B., Stefanescu Schmidt, A. C.  
2026: e016575
- **Early gestational prediction of spontaneous preterm birth using a validated three-protein serum biomarker panel.** *BMC medicine*  
Luo, Q., Wei, J., Ding, Y., Chen, Y., Wu, L., Chou, C. J., Luo, X., Ghafourian, N., Tao, J., Jin, B., Su, K. J., Mortensen, R. D., Schilling, et al  
2026
- **Long-Term Outcomes After Melody Transcatheter Pulmonary Valve Implant in Patients Weighing  $\leq 30$  kg.** *JACC. Cardiovascular interventions*  
McCarthy, E. K., Georgiev, S., Zhang, Y., Boucek, M. E., Johnson, K. C., Jaggi, A., Levi, D. S., Peng, L. F., Martin, M. H., Marray, B. H., Qureshi, A. M., Torres, A. J., Cabalka, et al  
2026; 19 (1): 80-92
- **Transcatheter Closure of a Residual Mid-Leaflet Mitral Valve Cleft With a Siegel Vascular Plug.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Hunter-Adamson, L., Tierney, S., Beach, S., McElhinney, D. B.  
2026
- **AI learning for pediatric right ventricular assessment: development and validation across multiple centers.** *NPJ digital medicine*  
Reddy, C., Yan, Y., Qiu, M., Tang, Y., Jin, B., Han, Z., Li, Y., Zhou, S., Tang, Q., Xiao, H., Yang, S., Wen, Q., Wu, et al  
2025; 8 (1): 752
- **Predictors of Response to Cardiac Resynchronization Therapy in Pediatric Patients and Patients With Congenital Heart Disease.** *Circulation. Arrhythmia and electrophysiology*  
Chubb, H., Mah, D., Shah, M., Lin, K. Y., Peng, D., Hale, B. W., May, L., Etheridge, S., Goodyer, W., Ceresnak, S. R., Motonaga, K. S., Rosenthal, D. N., Almond, et al

2025: e013600

- **Postoperative vocal cord paralysis in pediatric patients undergoing pulmonary artery reconstruction or unifocalization**  
Stevens, C., Asija, R., Hanley, F., McElhinney, D.  
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Postoperative Outcomes for Patients with Single Ventricle and Major Aortopulmonary Collaterals**  
Cho, I., Asija, R., McElhinney, D., Blinder, J., Ma, M., Maskatia, S.  
LIPPINCOTT WILLIAMS & WILKINS.2025
- **Real-world risk stratification for coronary heart disease: a one-year prediction model using health information exchange data.** *BMC public health*  
Zhang, Y., Mo, Y., Ozawa, N., Ichikawa, T., Huang, C. J., Han, Z., Tian, L., Alfreds, S. T., Sylvester, K. G., McElhinney, D. B., Ling, X. B.  
2025; 25 (1): 3218
- **Outcomes of Fetuses with Mild Aortic Stenosis: A Multicenter Study.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*  
Papneja, K., Tworetzky, W., Rychik, J., Natarajan, S., Tian, Z., Madriago, E., Zhang, A., Beattie, M., McElhinney, D., Maskatia, S. A., Tacy, T. A., Pun, R., Kaplinski, et al  
2025
- **Device-Related Findings on Computed Tomography After Transcatheter Pulmonary Valve Replacement With the Harmony Valve.** *Circulation. Cardiovascular interventions*  
Buddhe, S., Maskatia, S. A., Jaggi, A., Haeffele, C., Chan, F. P., McElhinney, D. B.  
2025: e015186
- **Midterm Outcomes in a Pooled Cohort of Harmony Transcatheter Pulmonary Valve Recipients.** *Circulation. Cardiovascular interventions*  
Murray, B. H., Gillespie, M. J., Cheatham, J. P., Salavitarab, A., Peng, L., Jones, T. K., Levi, D. S., Gray, R. G., Asnes, J., Cabalka, A. K., Fujimoto, K., Qureshi, A. M., Bergersen, et al  
2025: e015196
- **Pharmacologic Management of Segmental Pulmonary Hypertension in Children After Unifocalization and Pulmonary Artery Reconstruction: Initial Experience.** *Pulmonary circulation*  
Cameron, J. E., McElhinney, D. B., Liu, E., Hopper, R. K., Asija, R., Navaratnam, M., Hanley, F. L., Feinstein, J. A.  
2025; 15 (3): e70134
- **Comparison Between Gated Cardiac Magnetic Resonance Angiography and Computed Tomography Angiography for Harmony Valve Anatomic Fit Analysis.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Long, Z. B., McElhinney, D. B., Jaggi, A., Syed, A. B., Chan, F. P., Maskatia, S. A.  
2025
- **Metabolic pathway alterations in cerebrospinal fluid as diagnostic biomarkers for primary central nervous system lymphoma.** *Clinica chimica acta; international journal of clinical chemistry*  
Ma, J., Wang, D., Li, X., Zhang, Y., Tang, Q., Ding, Y., Li, X., Jin, B., Luo, R. Y., Thyparambil, S., Han, Z., Chou, C. J., Zhou, et al  
2025: 120377
- **Experiments and Simulations to Assess Exercise-Induced Pressure Drop Across Aortic Coarctations.** *Journal of biomechanical engineering*  
Nair, P. J., Perra, E., McElhinney, D. B., Marsden, A., Ennis, D. B., Dual, S.  
2025: 1-16
- **VITALS: an implantable sensor network for postoperative cardiac monitoring in heart failure patients.** *npj biomedical innovations*  
Kight, A., Haidar, M., Shibata, M., Ono, Y., Ikeda, G., Sharir, A., Semproni, F., Palagani, Y., Taheri, S., Han, A. K., Ma, M., Riemer, K., McElhinney, et al  
2025; 2 (1)
- **Intravenous Immunoglobulin Alone for Coronary Artery Lesion Treatment of Kawasaki Disease: A Randomized Clinical Trial.** *JAMA network open*  
Kuo, H. C., Lin, M. C., Kao, C. C., Weng, K. P., Ding, Y., Han, Z., Chen, C. J., Jan, S. L., Chien, K. J., Ko, C. H., Lin, C. Y., Lei, W. T., Guo, et al  
2025; 8 (4): e253063
- **Midterm Outcomes in a Pooled Cohort of Harmony Transcatheter Pulmonary Valve Recipients**

- Cabalka, A. K., Morray, B. H., Gillespie, M. J., Cheatham, J. P., Salavitarab, A., Peng, L., Jones, T. K., Levi, D. S., Gray, R. G., Asnes, J., Fujimoto, K., Qureshi, A. M., Bergersen, et al  
SPRINGER.2025: 1044
- **ECG-Gated MRA vs CTA for Evaluation of the Right Ventricular Outflow Tract prior to Harmony Valve Placement in patients with Chronic Pulmonary Regurgitation**  
Long, Z., McElhinney, D., Syed, A., Maskatia, S.  
SPRINGER.2025: 1111
  - **Complications From Transcatheter Pulmonary Valve Replacement With Self-Expanding Preseptal.** *JACC. Case reports*  
Ligon, R. A., Nageotte, S. J., Kheiwa, A., Gray, R. J., Ghez, O., Hijazi, Z. M., McElhinney, D. B., Babaliaros, V. C., Kim, D. W., Boucek, D. M., Gordon, B. M.  
2025; 30 (6 Pt 1): 102836
  - **Covered Stent Treatment for Sinus Venosus Atrial Septal Defects: Early Promise and Potential Limitations.** *Circulation*  
Van Arsdell, G., McElhinney, D. B.  
2025; 151 (11): 757-759
  - **Long-Term Outcomes After Pulmonary Valve Repair for Regurgitation Secondary to Prior Intervention.** *World journal for pediatric & congenital heart surgery*  
Ragheb, D. K., Zhang, Y., Jaggi, A., Maskatia, S. A., Adamson, G. T., Lui, G. K., Martin, E., Ma, M., Hanley, F. L., McElhinney, D. B.  
2025: 21501351241305134
  - **Single-Stage Midline Unifocalization Is Associated With Excellent Outcomes in Infants of All Ages.** *World journal for pediatric & congenital heart surgery*  
Martin, E., Ma, M., Zhang, Y., Asija, R., Shek, J., Ramamoorthy, C., Hanley, F. L., McElhinney, D. B.  
2025: 21501351241293708
  - **VITALS: an implantable sensor network for postoperative cardiac monitoring in heart failure patients** *npj Biomedical Innovations*  
Kight, A., Haidar, M., Shibata, M., Ono, Y., Ikeda, G., Sharir, A., Semproni, F., Palagani, Y., Taheri, S., Han, A., Ma, M., Riemer, K., McElhinney, et al  
2025; 2 (15)
  - **Extended Rhythm Monitoring to Assess for Ventricular Arrhythmias After Transcatheter Pulmonary Valve Replacement With the Harmony Valve.** *Circulation. Cardiovascular interventions*  
Yang, J. K., Wattenbarger, L., Taylor, A. C., Chubb, H., Romfh, A. W., Peng, L. F., Ceresnak, S. R., Dubin, A. M., McElhinney, D. B.  
2024: e014381
  - **Long-Term Management of Right Ventricular Outflow Tract Dysfunction in Repaired Tetralogy of Fallot: A Scientific Statement From the American Heart Association** *CIRCULATION*  
Geva, T., Wald, R. M., Bucholz, E., Cnota, J. F., Mcelhinney, D. B., Mercer-Rosa, L. M., Mery, C. M., Miles, A., Moore, J., American Heart Association Council Lifelong Congenital Heart Disease Heart Health Young, Council Cardiovascular Surgery Anesthesia, Council Clinical Cardiology, Council Cardiovascular Stroke Nursing  
2024; 150 (25): e689-e707
  - **Association Between Location of Pulmonary Outflow Obstruction and Right Ventricular Size and Function After Repair of Tetralogy of Fallot, Pulmonary Atresia, and Major Aortopulmonary Collaterals.** *Pediatric cardiology*  
Brennan, A., Punn, R., Lopez, L., Long, Z., McElhinney, D. B., Mainwaring, R. D., Ma, M., Friedberg, M. K., Hanley, F. L., Arunamata, A. A.  
2024
  - **Challenges in the Development and Evaluation of Pediatric Heart Valve Technologies.** *The Annals of thoracic surgery*  
Hofferberth, S. C., Kelley, T., Armstrong, A. K., Heyninck-Jantz, C., Maiorano, A., Colson, M., Schoen, F. J., Wu, C., Ibrahim, N., Tretter, J. T., Mueller, M. D., Bianco, R. W., Carney, et al  
2024
  - **Assessing the Impact of Cardiac Output and Valve Orientation on Bioprosthetic Pulmonary Valve Hemodynamics Using In Vitro 4D-Flow MRI and High-Speed Imaging.** *Cardiovascular engineering and technology*  
Schiafone, N. K., Nair, P. J., Elkins, C. J., McElhinney, D. B., Ennis, D. B., Eaton, J. K., Marsden, A. L.  
2024
  - **Prediction of risk for early or very early preterm births using high-resolution urinary metabolomic profiling.** *BMC pregnancy and childbirth*  
Zhang, Y., Sylvester, K. G., Wong, R. J., Blumenfeld, Y. J., Hwa, K. Y., Chou, C. J., Thyparambil, S., Liao, W., Han, Z., Schilling, J., Jin, B., Marić, I., Aghaepour, et al

2024; 24 (1): 783

- **Targeted Multiplex Proteomics for the Development and Validation of Biomarkers in Primary Aldosteronism Subtyping.** *European journal of endocrinology*  
Zhou, F., Ding, Y., Chen, T., Tang, Q., Zhang, J., Thyparambil, S., Jin, B., Han, Z., Chou, C. J., Schilling, J., Luo, R. Y., Tian, H., Sylvester, et al  
2024
- **Don't Blame Balloon Atrial Septostomy!** *World journal for pediatric & congenital heart surgery*  
McElhinney, D. B.  
2024: 21501351241287129
- **Durability of Aortic Homografts in Pulmonary Atresia and Major Aortopulmonary Collateral Arteries.** *World journal for pediatric & congenital heart surgery*  
Ragheb, D. K., Martin, E., Zhang, Y., Jaggi, A., Asija, R., Peng, L. F., Ma, M., Hanley, F. L., McElhinney, D. B.  
2024: 21501351241263752
- **Targeted multiplex validation of CSF proteomic biomarkers: implications for differentiation of PCNSL from tumor-free controls and other brain tumors.** *Frontiers in immunology*  
Ma, J., Lin, Z., Zhang, Y., Ding, Y., Tang, Q., Qian, Y., Jin, B., Luo, R. Y., Liao, W. L., Thyparambil, S., Han, Z., Chou, C. J., Schilling, et al  
2024; 15: 1343109
- **Transcatheter pulmonary valve replacement after arterial switch operation.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Nageotte, S., Salavitarbar, A., Zablah, J. E., Ligon, R. A., Turner, M. E., El-Said, H., Guyon, P., Boucek, D., Alvarez-Fuente, M., McElhinney, D. B., Balzer, D., Shahanavaz, S.  
2024
- **Extravascular protrusion of the Alterra adaptive prenent identified on surveillance computed tomography imaging.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Gillespie, M. J., Maschietto, N., Aboulhosn, J. A., Balzer, D. T., Qureshi, A. M., McElhinney, D. B.  
2024
- **Transcatheter Pulmonary Valve Replacement With the Harmony Valve in Patients Who Do Not Meet Recommended Oversizing Criteria on the Screening Perimeter Plot.** *Circulation. Cardiovascular interventions*  
McElhinney, D. B., Gillespie, M. J., Aboulhosn, J. A., Cabalka, A. K., Marray, B. H., Balzer, D. T., Qureshi, A. M., Hoskoppal, A. K., Goldstein, B. H.  
2024: e013889
- **Early Outcomes From a Multicenter Transcatheter Self-Expanding Pulmonary Valve Replacement Registry.** *Journal of the American College of Cardiology*  
Goldstein, B. H., McElhinney, D. B., Gillespie, M. J., Aboulhosn, J. A., Levi, D. S., Marray, B. H., Cabalka, A. K., Love, B. A., Zampi, J. D., Balzer, D. T., Law, M. A., Schiff, M. D., Hoskoppal, et al  
2024; 83 (14): 1310-1321
- **Percutaneous Closure of a Ruptured Sinus of Valsalva Aneurysm under Transesophageal Echocardiography Guidance.** *CASE (Philadelphia, Pa.)*  
Li, X. E., McElhinney, D. B., Lui, G. K., Clark, D. E., Woo, J. P.  
2024; 8 (3Part A): 186-192
- **Right Ventricular and Outflow Tract Functional Characteristics After Repair of Tetralogy of Fallot with Major Aortopulmonary Collaterals.** *Pediatric cardiology*  
Long, Z. B., Punn, R., Zhang, Y., Arunamata, A. A., Asija, R., Ma, M., Hanley, F. L., McElhinney, D. B.  
2024
- **Non-invasive Estimation of Pressure Drop Across Aortic Coarctations: Validation of 0D and 3D Computational Models with In Vivo Measurements.** *Annals of biomedical engineering*  
Nair, P. J., Pfaller, M. R., Dual, S. A., McElhinney, D. B., Ennis, D. B., Marsden, A. L.  
2024
- **Global metabolomics revealed deviations from the metabolic aging clock in colorectal cancer patients.** *Theranostics*  
Zhang, L., Mo, S., Zhu, X., Chou, C. J., Jin, B., Han, Z., Schilling, J., Liao, W., Thyparambil, S., Luo, R. Y., Whitin, J. C., Tian, L., Nagpal, et al  
2024; 14 (4): 1602-1614

- **Transcatheter Pulmonary Valve Replacement With Balloon-Expandable Valves: Utilization and Procedural Outcomes From the IMPACT Registry.** *JACC. Cardiovascular interventions*  
Stefanescu Schmidt, A. C., Armstrong, A. K., Aboulhosn, J. A., Kennedy, K. F., Jones, T. K., Levi, D. S., McElhinney, D. B., Bhatt, A. B.  
2024; 17 (2): 231-244
- **Multicenter Study of Survival Benefit of Cardiac Resynchronization Therapy in Pediatric and Congenital Heart Disease.** *JACC. Clinical electrophysiology*  
Chubb, H., Mah, D. Y., Shah, M., Lin, K. Y., Peng, D. M., Hale, B. W., May, L., Etheridge, S., Goodyer, W., Ceresnak, S. R., Motonaga, K. S., Rosenthal, D. N., Almond, et al  
2023
- **Unusual Case of Anomalous Coronary Origin and Myocardial Bridge to Right Ventricle Communication.** *Annals of thoracic surgery short reports*  
Jacobs, N., Reddy, C. D., Maskatia, S. A., McElhinney, D. B., Hanley, F. L.  
2023; 1 (4): 670-673
- **Correction: Exploring the feasibility of using long-term stored newborn dried blood spots to identify metabolic features for congenital heart disease screening.** *Biomarker research*  
Ceresnak, S. R., Zhang, Y., Ling, X. B., Su, K. J., Tang, Q., Jin, B., Schilling, J., Chou, C. J., Han, Z., Floyd, B. J., Whitin, J. C., Hwa, K. Y., Sylvester, et al  
2023; 11 (1): 101
- **Retrieval of Large Balloon Fragments During Transcatheter Pulmonary Valve Implantation Using a Novel Retrieval System.** *JACC. Case reports*  
Taylor, A. C., Ghandour, M. A., Khan, A., Gowda, S. T., Nunez-Gallegos, F., Peng, L. F., Aboulhosn, J. A., Levi, D. S., McElhinney, D. B., Qureshi, A. M.  
2023; 26: 102058
- **Exploring the feasibility of using long-term stored newborn dried blood spots to identify metabolic features for congenital heart disease screening.** *Biomarker research*  
Ceresnak, S. R., Zhang, Y., Ling, X. B., Su, K. J., Tang, Q., Jin, B., Schilling, J., Chou, C. J., Han, Z., Floyd, B. J., Whitin, J. C., Hwa, K. Y., Sylvester, et al  
2023; 11 (1): 97
- **Right ventricular outflow tract obstruction associated with neointimal tissue accumulation and distortion of the Harmony TPV25 stent frame: Potential mechanisms and treatment.** *Catheterization and cardiovascular interventions : official journal of the Society for Cardiac Angiography & Interventions*  
Steinberg, Z. L., Cabalka, A. K., Balzer, D. T., Asnes, J. D., Marray, B. H., Gillespie, M. J., McElhinney, D. B.  
2023
- **High-throughput quantitation of amino acids and acylcarnitine in cerebrospinal fluid: identification of PCNSL biomarkers and potential metabolic messengers** *FRONTIERS IN MOLECULAR BIOSCIENCES*  
Ma, J., Chen, K., Ding, Y., Li, X., Tang, Q., Jin, B., Luo, R. Y., Thyparambil, S., Han, Z., Chou, C., Zhou, A., Schilling, J., Lin, et al  
2023; 10
- **High-throughput quantitation of amino acids and acylcarnitine in cerebrospinal fluid: identification of PCNSL biomarkers and potential metabolic messengers.** *Frontiers in molecular biosciences*  
Ma, J., Chen, K., Ding, Y., Li, X., Tang, Q., Jin, B., Luo, R. Y., Thyparambil, S., Han, Z., Chou, C. J., Zhou, A., Schilling, J., Lin, et al  
2023; 10: 1257079
- **Fontan Associated Liver Disease: Canary in the Coal Mine or Silent Killer?** *Journal of the American Heart Association*  
Haeffele, C., McElhinney, D. B.  
2023: e031597
- **Recommendations for centers performing pediatric heart surgery in the United States.** *The Journal of thoracic and cardiovascular surgery*  
Backer, C. L., Overman, D. M., Dearani, J. A., Romano, J. C., Tweddell, J. S., Kumar, S. R., Marino, B. S., Bacha, E. A., Jaquiss, R. D., Zaidi, A. N., Gurvitz, M., Costello, J. M., Pierick, et al  
2023
- **Recommendations for Centers Performing Pediatric Heart Surgery in the United States.** *The Annals of thoracic surgery*  
Backer, C. L., Overman, D. M., Dearani, J. A., Romano, J. C., Tweddell, J. S., Kumar, S. R., Marino, B. S., Bacha, E. A., Jaquiss, R. D., Zaidi, A. N., Gurvitz, M., Costello, J. M., Pierick, et al

2023

- **20-Year Experience With Repair of Pulmonary Atresia or Stenosis and Major Aortopulmonary Collateral Arteries.** *Journal of the American College of Cardiology*  
McElhinney, D. B., Asija, R., Zhang, Y., Jaggi, A., Shek, J., Peng, L. F., Boltz, M. G., Ma, M., Martin, E., Hanley, F. L.  
2023; 82 (12): 1206-1222
- **Altered expression of the L-arginine/nitric oxide pathway in ovarian cancer: metabolic biomarkers and biological implications.** *BMC cancer*  
Chen, L., Tang, Q., Zhang, K., Huang, Q., Ding, Y., Jin, B., Liu, S., Hwa, K., Chou, C. J., Zhang, Y., Thyparambil, S., Liao, W., Han, et al  
2023; 23 (1): 844
- **Non-invasive estimation of pressure drop across aortic coarctations: validation of 0D and 3D computational models with in vivo measurements.** *medRxiv : the preprint server for health sciences*  
Nair, P. J., Pfaller, M. R., Dual, S. A., McElhinney, D. B., Ennis, D. B., Marsden, A. L.  
2023
- **Recommendations for Centers Performing Pediatric Heart Surgery in the United States.** *World journal for pediatric & congenital heart surgery*  
Backer, C. L., Overman, D. M., Dearani, J. A., Romano, J. C., Tweddell, J. S., Ram Kumar, S., Marino, B. S., Bacha, E. A., Jaquiss, R. D., Zaidi, A. N., Gurvitz, M., Costello, J. M., Pierick, et al  
2023; 14 (5): 642-679
- **Short- and Mid-Term Results of Pulmonary Valve Replacement with the Inspiris Valve.** *The Annals of thoracic surgery*  
Ragheb, D. K., Martin, E., Jaggi, A., Lui, G. K., Maskatia, S. A., Ma, M., Hanley, F. L., McElhinney, D. B.  
2023
- **Evolving Utilization of Covered Stents for Treatment of Aortic Coarctation: Report From the IMPACT Registry.** *Circulation. Cardiovascular interventions*  
Murray, B. H., Kennedy, K. F., McElhinney, D. B.  
2023: e012697
- **Comparison of Immersed Boundary Simulations of Heart Valve Hemodynamics Against In Vitro 4D Flow MRI Data.** *Annals of biomedical engineering*  
Kaiser, A. D., Schiavone, N. K., Elkins, C. J., McElhinney, D. B., Eaton, J. K., Marsden, A. L.  
2023
- **Development of a Urine Metabolomics Biomarker-Based Prediction Model for Preeclampsia during Early Pregnancy.** *Metabolites*  
Zhang, Y., Sylvester, K. G., Jin, B., Wong, R. J., Schilling, J., Chou, C. J., Han, Z., Luo, R. Y., Tian, L., Ladella, S., Mo, L., Maric, I., Blumenfeld, et al  
2023; 13 (6)
- **Outcomes After Development of Ventricular Arrhythmias in Single Ventricular Heart Disease Patients With Fontan Palliation.** *Circulation. Arrhythmia and electrophysiology*  
Giacone, H. M., Chubb, H., Dubin, A. M., Motonaga, K. S., Ceresnak, S. R., Goodyer, W. R., Hanish, D., Trela, A. V., Boramanand, N., Lencioni, E., Boothroyd, D., Graber-Naidich, A., Wright, et al  
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