Stanford



Michael Ma

Associate Professor of Cardiothoracic Surgery (Pediatric Cardiac Surgery)

CLINICAL OFFICE (PRIMARY)

- **Lucile Packard Children's Hospital**

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Bio

BIO

Michael Ma currently serves as the Chief of the Division of Pediatric Cardiac Surgery in the Stanford Department of Cardiothoracic Surgery and the Betty Irene Moore Children's Heart Center at Lucile Packard Children's Hospital Stanford. His practice encompasses all aspects of congenital heart disease, with a focus on neonates, complex biventricular repair, pulmonary artery reconstruction, and heart failure. He also serves as the Surgical Director of the Pediatric Advanced Cardiac Therapies (PACT) Program (a combined heart failure and heart transplant program), the Biventricular Reconstruction Program, and as a cardiothoracic surgeon for the Pulmonary Artery Reconstruction (PAR) Program at Stanford Children's. He directs the Cardiovascular Engineering Research Laboratory, which applies biomechanical engineering principles to optimize existing surgical approaches and develop new surgical and endovascular therapies for treating complex heart defects.

CLINICAL FOCUS

- Neonatal Cardiac Surgery
- Pediatric Cardiac Surgery
- Thoracic and Cardiac Surgery

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Cardiothoracic Surgery
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Pediatric Cardiac Surgery, (2023- present)
- Surgical Director, Complex Biventricular Reconstruction, (2021- present)
- Surgical Director, Pediatric Advanced Cardiac Therapies, (2020- present)

PROFESSIONAL EDUCATION

- Board Certification: Thoracic and Cardiac Surgery, American Board of Thoracic Surgery (2017)

- Board Certification: Congenital Cardiac Surgery, American Board of Thoracic Surgery (2021)
- Board Certification, American Board of Thoracic Surgery , Congenital Cardiac Surgery (2021)
- Fellowship: Stanford University Dept of Cardiothoracic Surgery (2018) CA
- Residency: Stanford University Dept of Cardiothoracic Surgery (2016) CA
- Medical Education: Columbia University College of Physicians and Surgeons (2010) NY
- BS, Stanford University , Chemical Engineering (2003)

LINKS

- Stanford Pediatric Cardiac Services: http://med.stanford.edu/ctsurgery/clinical-care/pediatric-cardiac-surgery-services.html
- Ma Lab: https://med.stanford.edu/cve.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
- Follow us on Twitter: https://twitter.com/StanfordCTSurg

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our lab aims to understand the biomechanics that govern a wide spectrum of congenital heart defects, and how those biomechanics change with contemporary operative repair strategies. We simulate operations virtually via CFD, and in ex vivo and in vivo animal models, and analyze how the changes we make alter fluid flow, pressure, and stresses throughout the system. We hope that these experiments can impact and optimize existing techniques that translate quickly to the operating room.

CLINICAL TRIALS

- Comparison of Methods of Pulmonary Blood Flow Augmentation in Neonates: Shunt Versus Stent (The COMPASS Trial), Recruiting
- The Medtronic Harmony™ Transcatheter Pulmonary Valve Clinical Study, Recruiting
- Stanford Program to Accelerate Robotic Children's Surgery, Not Specified

Teaching

COURSES

2024-25

- Mending a broken heart: The Anatomy, Physiology and Psychology of congenital heart disease: ANES 74Q (Win)

2023-24

- Mending a broken heart: The Anatomy, Physiology and Psychology of congenital heart disease: ANES 74Q (Win)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Yellappa Palagani

Publications

PUBLICATIONS

- **Simulation-guided outlet valve repair: early integration of computationally-derived principles of free-edge length in bicuspidization repair.** *Frontiers in cardiovascular medicine*
  Choi, P. S., Kaiser, A. D., Nilkant, R., Sharir, A., Siddiqi, U., McMullen, H. L., Marsden, A. L., Ma, M. R.

2026; 13: 1957668

- **A Novel Ex Vivo Model of Unbalanced Common Atrioventricular Valve: Insights into Biomechanics and Hemodynamics During Single Ventricle Palliation.** *The Journal of thoracic and cardiovascular surgery*
  Munshi, S. K., Huber, J. A., Sharir, A., Ono, Y., Choi, P. S., Reed, A. K., Kaiser, A. D., Ma, M. R.
  2026
- **Myocardial Bridge in Children: Do we care about it?** *Seminars in thoracic and cardiovascular surgery*
  Bishnoi, A. K., Ma, M.
  2025
- **Combined simulation and ex vivo assessment of free-edge length in bicuspidization repair for congenital aortic valve disease.** *JTCVS open*
  Choi, P. S., Sharir, A., Ono, Y., Shibata, M., Kaiser, A. D., Palagani, Y., Marsden, A. L., Ma, M. R.
  2024; 22: 395-404
- **Simulation-Based Design of Bicuspidization of the Aortic Valve.** *The Journal of thoracic and cardiovascular surgery*
  Kaiser, A. D., Haidar, M. A., Choi, P. S., Sharir, A., Marsden, A. L., Ma, M. R.
  2024
- **Ex Vivo Modeling of Atrioventricular Valve Mechanics in Single Ventricle Physiology.** *Annals of biomedical engineering*
  Moye, S. C., Kidambi, S., Lee, J. Y., Cowles, T. H., Gilligan-Steinberg, S. D., Bryan, A. Y., Wilkerson, R., Woo, Y. J., Ma, M. R.
  2023
- **Williams Syndrome: Supravalvar Aortic, Aortic Arch, Coronary and Pulmonary Arteries: Is Comprehensive Repair Advisable and Achievable?** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
  Ma, M., Martin, E., Algaze, C., Collins, R. T., McElhinney, D., Mainwaring, R., Hanley, F.
  2023; 26: 2-8
- **Force Profiles of Single Ventricle Atrioventricular Leaflets in Response to Annular Dilation and Leaflet Tethering.** *Seminars in thoracic and cardiovascular surgery*
  Kidambi, S., Moye, S. C., Lee, J., Cowles, T. H., Strong, E. B., Wilkerson, R., Paulsen, M. J., Woo, Y. J., Ma, M. R.
  2022
- **Evaluating predicted heart mass in adolescent heart transplantation.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Lee, J. Y., Zawadzki, R. S., Kidambi, S., Rosenthal, D. N., Dykes, J. C., Nasirov, T., Ma, M.
  2022
- **Weight Matching in Infant Heart Transplantation: A National Registry Analysis.** *The Annals of thoracic surgery*
  Lee, J. Y., Kidambi, S., Zawadzki, R. S., Rosenthal, D. N., Dykes, J. C., Nasirov, T., Ma, M.
  2022
- **Biomechanical Analysis of the Ross Procedure in an Ex Vivo Left Heart Simulator.** *World journal for pediatric & congenital heart surgery*
  Bryan, A. Y., Brandon Strong, E., Kidambi, S., Gilligan-Steinberg, S., Bennett-Kennett, R., Lee, J. Y., Imbrie-Moore, A., Moye, S. C., Hendrickx-Rodriguez, S., Wang, H., Dauskardt, R. H., Joseph Woo, Y., Ma, et al
  2022; 13 (2): 166-174
- **Relation Between Pulmonary Artery Pressures Measured Intraoperatively and at One-Year Catheterization After Unifocalization and Repair of Tetralogy with Major Aortopulmonary Collateral Arteries.** *Seminars in thoracic and cardiovascular surgery*
  Ma, M., Peng, L. F., Zhang, Y., Wise-Faberowski, L., Martin, E., Hanley, F. L., McElhinney, D. B.
  1800
- **Alternative to heart-lung transplantation for end-stage tetralogy of Fallot with major aortopulmonary collaterals: Simultaneous heart transplantation and pulmonary artery reconstruction.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Adamson, G. T., Profita, E. L., Quinonez, Z. A., McElhinney, D. B., Rosenthal, D. N., Ma, M. n.
  2021
- **Longevity of large aortic allograft conduits in Tetralogy with major aortopulmonary collaterals.** *The Annals of thoracic surgery*
  Ma, M. n., Arunamata, A. n., Peng, L. F., Wise-Faberowski, L. n., Hanley, F. L., McElhinney, D. B.
  2021

- **Unifocalization and pulmonary artery reconstruction in patients with tetralogy of Fallot and major aortopulmonary collateral arteries who underwent surgery before referral.** *The Journal of thoracic and cardiovascular surgery*
  Ma, M. n., Zhang, Y. n., Wise-Faberowski, L. n., Lin, A. n., Asija, R. n., Hanley, F. L., McElhinney, D. B.
  2020

- **Corrected Transposition: Anatomic Repair Using the Hemi-Mustard Atrial Baffle and Bidirectional Superior Cavopulmonary Connection.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
  Ma, M. n., Mainwaring, R. D., Hanley, F. L.
  2019; 22: 51–56

- **Comprehensive Management of Major Aortopulmonary Collaterals in the Repair of Tetralogy of Fallot.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
  Ma, M., Mainwaring, R. D., Hanley, F. L.
  2018; 21: 75–82

- **A novel inflow cannulation strategy for pediatric mechanical circulatory support in small left ventricles.** *journal of thoracic and cardiovascular surgery*
  Ma, M., Yarlagadda, V. V., Rosenthal, D. N., Maeda, K.
  2017

- **Semi-automated Generation and Hemodynamic Assessment of Surgical Baffle Geometry for Biventricular Repair.** *Annals of biomedical engineering*
  Martinez, E. S., Kaiser, A. D., Reed, A. K., Stocker, S. W., Sharir, A., Choi, P. S., Maskatia, S. A., Ma, M. R., Marsden, A. L.
  2026

- **Illuminode: Bringing Fluorescence-Guided Surgery to the Heart to Prevent Conduction System Injury**
  Perelli, R., Singh, S., Costa, A., Bonin, C., Saini, G., Armbrust, M., Cowan, J., Sharir, A., Boulos, G., Choi, P., Ma, M., Smedley, J., Hugenmatter, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A14104

- **Sleep-Disordered Breathing in Pediatric Patients with Congenital Heart Disease**
  Wesley, B., Tierney, S., Kushida, C., Ma, M.
  LIPPINCOTT WILLIAMS & WILKINS.2026: A16195

- **Prognostic Factors Associated with Poor Clinical Outcomes Following Pulmonary Arterial Banding for Anatomic Repair in Patients with Isolated Congenitally Corrected Transposition of the Great Arteries**
  Kochanski, J., Moreno Rojas, A. F., Shen, S., Maskatia, S. A., Punn, R., Buddhe, S., Hanley, F. L., Lee, K., Ma, M., Ho, D.
  LIPPINCOTT WILLIAMS & WILKINS.2026: A11026

- **Regionalization and Joint Reporting: A Counterpoint Perspective.** *The Annals of thoracic surgery*
  Dearani, J. A., Jaquiss, R. D., Backer, C. L., Ma, M., Anagnostopoulos, P. V., van Arsdell, G., Bacha, E., Overman, D. M.
  2026

- **Progression of Aortic Dilation in Patients with Tetralogy of Fallot with Pulmonary Atresia and Major Aortopulmonary Collateral Arteries.** *Pediatric cardiology*
  Punn, P., Mainwaring, R. D., Yang, J. K., Olson, I., Jacobs, N. M., Ma, M., Punn, R., Arunamata, A.
  2026

- **Simulations Predict Improved Valve Performance Without Direct Leaflet Intervention After Neonatal Truncus Arteriosus Repair.** *The Journal of thoracic and cardiovascular surgery*
  Bornemann, K. M., Choi, P. S., Huber, J., Reed, A. K., Sharir, A., Maskatia, S. A., Marsden, A. L., Ma, M. R., Kaiser, A. D.
  2026

- **2026 American Association for Thoracic Surgery (AATS) Expert Consensus Statement: Antithrombotic Management of Neonates/Infants Undergoing Cardiac Interventions.** *The Journal of thoracic and cardiovascular surgery*
  Nathan, M., Kiskaddon, A., Emani, S., Bigelow, A., Callahan, R., Cleveland, J., Federman, M., Ma, M., McMullan, M., Mir, A., Branstetter, J., VanderPluym, C., Yerebakan, et al
  2026

- **A Novel Perioperative Mortality Calculator for Newborn Surgery: An American Association for Thoracic Surgery Quality Gateway Congenital Initiative**

Chiu, P., Goldstone, A., Nathan, M., Gaynor, J., Van Arsdell, G., Galantowicz, M., Ma, M., Cleveland, J., Eghtesady, P., Vanderlaan, R., Bacha, E., Del Nido, P.
MOSBY-ELSEVIER.2026: S29

- **Improved Hemodynamic Performance with a 3-Dimensional Reinforced Ringed-Graft for Valve-Sparing Aortic Root Replacement in Bicuspid Aortic Valve**
  Shibata, M., Choi, P., Sharir, A., Huynh, C., Nilkant, R., Park, M., Chen, S., Ma, M., Woo, Y., Kim, J.
  MOSBY-ELSEVIER.2026: s275-s276
- **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., Punn, R., Hanley, F. L., McElhinney, D. B.
  2026: e015931
- **Gradient Multinozzle 3D Printing.** *bioRxiv : the preprint server for biology*
  Rosalia, L., Sinha, S., Weiss, J. D., Hsia, S., Solberg, F. S., Sharir, A., Shibata, M., Du, J., Mosle, K., Rutsche, D., Rao, Z. C., Tam, T., Rankin, et al
  2026
- **Impact of leaflet stiffness in aortic valve neocuspidization in ex vivo biomechanical simulation.** *JTCVS open*
  Shibata, M., Lee, J. Y., Sharir, A., Nilkant, R., Kim, J. B., Mullis, D. M., Okamura, K., Choi, P., Ono, Y., Zhu, Y., Park, M., Woo, J., Ma, et al
  2026; 29: 101558
- **In vivo growing leporine model of pulmonary artery banding induces inflammation and vascular remodeling via pathways conserved across species** *JTCVS OPEN*
  Mullis, D. M., Lee, J. Y., Shibata, M., Arana, V., Kidambi, S., Sharir, A., Choi, P. S., Ikeda, G., Nilkant, R., Takashima, H., Ueyama, T., Huber, J. A., Woo, et al
  2026; 29
- **In vivo growing leporine model of pulmonary artery banding induces inflammation and vascular remodeling via pathways conserved across species.** *JTCVS open*
  Mullis, D. M., Lee, J. Y., Shibata, M., Arana, V. T., Kidambi, S., Sharir, A., Choi, P. S., Ikeda, G., Nilkant, R., Takashima, H., Ueyama, T., Huber, J. A., Woo, et al
  2026; 29: 101560
- **Impact of leaflet stiffness in aortic valve neocuspidization in ex vivo biomechanical simulation** *JTCVS Open*
  Shibata, M., Lee, J. Y., Sharir, A., Nilkant, R., Kim, J., Nullis, D. M., Okamura, K., Choi, P., Ono, Y., Zhu, Y., Park, M., Woo, Y., Ma, et al
  2026
- **Simulation-guided design of leaflet height in bicuspidization of the aortic valve.** *JTCVS open*
  Kaiser, A. D., Choi, P. S., Sharir, A., Marsden, A. L., Ma, M. R.
  2025; 28: 434-443
- **Simulation-guided design of leaflet height in bicuspidization of the aortic valve** *JTCVS OPEN*
  Kaiser, A. D., Choi, P. S., Sharir, A., Marsden, A. L., Ma, M. R.
  2025; 28: 434-443
- **Fifty-Year Pediatric Heart Transplant Outcomes: A Pediatric-Adult Center Linked Analysis.** *The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation*
  Hollander, S. A., Hsiao, S., Varshney, A. S., Luikart, H., Raissadati, A., Bernstein, D., Ma, M., Wujcik, K., Barkoff, L., Dykes, J., Lee, D., Rosenthal, D. N.
  2025
- **Clinical Deterioration in Stage 1 and 2 Single Ventricle Patients Awaiting Heart Transplant: A Single Center Experience.** *Pediatric cardiology*
  Tolani, D., Kaufman, B., Murray, J., Dykes, J., Chen, C. Y., Nair, A., Sinha, A., Catton, K., Blinder, J., Martin, E., Ma, M., Rosenthal, D. N., Chen, et al
  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
- **Histologic changes in systemically loaded right ventricles at time of transplantation.** *Frontiers in cardiovascular medicine*

Nilkant, R., Choi, P. S., Mullis, D. M., Chang, R., Sharir, A., Reddy, S., Pelletier, G. J., Ma, M.
2025; 12: 1640561

- **Left Atrial Mechanics in Isolated Total Anomalous Pulmonary Venous Connection After Repair.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Brennan, A., Tierney, S., Thorson, K., Ma, M., Ho, D. Y., Martin, E., Punn, R.
  2025
- **Left Ventricular Assist Device Implantation and Heart Transplantation in a Young Man With Duchenne Muscular Dystrophy.** *Pediatric transplantation*
  Hollander, S. A., Dykes, J., Dayan, J., Morales, E., Steffes, L., Klotz, J. M., Murray, J. M., Ma, M., Martin, E., Rosenthal, D. N., Kaufman, B. D.
  2025; 29 (6): e70162
- **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)
- **Distinct type I and II interferon responses direct cortical and medullary thymic epithelial cell development.** *Science immunology*
  Mohammed, A., Wang, W., Arreola, M., Solomon, B. D., Slepicka, P. F., Hubka, K. M., Nguyen, H. D., Zheng, Z., Chavez, M. G., Yeh, C. Y., Kim, D. K., Ma, M. R., Martin, et al
  2025; 10 (107): eado4720
- **Use of Organ Care System (OCS) in Pediatric Recipients Offer Excellent Outcomes**
  Ma, M., Schroder, J., Villavicencio, M., Fraser, C., Skipper, E., Esmailian, F., Morales, D., Scholl, F., Gruber, P., Pretorius, V., Davies, R.
  ELSEVIER SCIENCE INC.2025
- **Fifty Year Outcomes After Pediatric Heart Transplantation: A Pediatric-Adult Center Linked Analysis**
  Hollander, S. A., Hsiao, S., Varshney, A., Luikart, H., Bernstein, D., Chen, C., Martin, E., Ma, M., Profita, E., Wujcik, K., Barkoff, L., Rosenthal, D. N.
  ELSEVIER SCIENCE INC.2025
- **Outcomes After Transition from Pediatric to Adult Heart Transplant Care: A Pediatric-Adult Center Linked Analysis**
  Barkoff, L., Hsiao, S., Varshney, A., Bernstein, D., Wujcik, K., Ma, M., Martin, E., Profita, E. L., Rosenthal, D. N., Hollander, S. A.
  ELSEVIER SCIENCE INC.2025
- **Hemodynamic Effects of Ventricular Assist Devices in Patients with Cardiomyopathy and Fontan Circulation**
  Jose, J. T., Dykes, J., Murray, J., Hollander, S. A., Feinstein, J., Almond, C., Peng, L., Rosenthal, D., Ma, M., Chen, S., Chen, C.
  ELSEVIER SCIENCE INC.2025
- **State of the Art: Complex Peripheral Pulmonary Artery Reconstruction Techniques.** *Seminars in thoracic and cardiovascular surgery. Pediatric cardiac surgery annual*
  Martin, E., Ma, M., Hanley, F. L.
  2025; 28: 101-106
- **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
- **Outcomes of 230 Patients Undergoing Surgical Repair of Anomalous Aortic Origin of a Coronary Artery.** *The Annals of thoracic surgery*
  Mainwaring, R. D., Ma, M., Maskatia, S., Petrossian, E., Reinhartz, O., Lee, J., Hanley, F. L.
  2025
- **Decisions Using Intra-Operative Gross Assessment of Fontan-Associated Liver Disease: Implications for Heart-Only Transplantation** *PEDIATRIC TRANSPLANTATION*
  Rivera, D., Zhang, K., Ebel, N., Bensen, R., Martin, E., Ma, M., Esquivel, C. O., Navaratnam, M., Hollander, S. A., Rosenthal, D. N., Chen, S.
  2025; 29 (1)
- **Decisions Using Intra-Operative Gross Assessment of Fontan-Associated Liver Disease: Implications for Heart-Only Transplantation.** *Pediatric transplantation*

Torpoco Rivera, D. M., Zhang, K. Y., Ebel, N., Bensen, R., Martin, E., Ma, M., Esquivel, C. O., Navaratnam, M., Hollander, S. A., Rosenthal, D. N., Chen, S.
2025; 29 (1): e70036

- **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

- **A Low-Cost, Open-Source 3D Printer for Multimaterial and High-Throughput Direct Ink Writing of Soft and Living Materials.** *Advanced materials (Deerfield Beach, Fla.)*
  Weiss, J. D., Mermin-Bunnell, A., Solberg, F. S., Tam, T., Rosalia, L., Sharir, A., Rütsche, D., Sinha, S., Choi, P. S., Shibata, M., Palagani, Y., Nilkant, R., Paulvannan, et al
  2025: e2414971

- **Long#Distance Heart Transplantation With Ex Vivo Preservation Systems in a Pediatric Center: An Early Case Series** *Pediatric Transplantation*
  Choi, P. S., Pong, S., Hochstein, J., Ruaengsri, C., Shibata, M., Sharir, A., Nasirov, T., Dykes, J., Hollander, S. A., Rosenthal, D. N., Martin, E., Ma, M. R.
  2025

- **Clinical Practice Guidelines for the Management of Basal Cell Carcinoma in Gorlin Syndrome** *Journal of the American Academy of Dermatology*
  Cahn, B. A., et al
  2025; In press

- **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)

- **Real-Time Pressure-Volume Loop Assessment of Left Ventricular Performance to Evaluate Suitability for Repair in Congenitally Corrected Transposition of the Great Arteries.** *Circulation. Heart failure*
  Lee, K. J., Flannery, K., Ma, M., Ho, D.
  2024: e012609

- **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

- **Commentator Discussion: Combined simulation and ex-vivo assessment of free-edge length in bicuspidization repair for congenital aortic valve disease** *JTCVS OPEN*
  Choi, P., Hsia, T., Ma, M.
  2024; 22: 405-406

- **Utilization of Hepatitis C Virus-Infected Donor Hearts in Two Children and Two Young Adults: Initial Experience at a Pediatric Transplant Center.** *Pediatric transplantation*
  Kushner, L. E., Puckett, L., Lee, J., Gans, H. A., Nadimpalli, S., Chen, S., Ma, M., Chen, S. F., Profita, E. L.
  2024; 28 (7): e14879

- **Challenges and Priorities for Children With Congenital Valvar Heart Disease: The Heart Valve Collaboratory.** *JACC. Advances*
  Bauser-Heaton, H., Barry, O. M., Hofferberth, S. C., Tretter, J. T., Ma, M., Goldstone, A., Armstrong, A., Jones, T. K., Yoganathan, A., Del Nido, P.
  2024; 3 (10): 101191

- **Minimally invasive 2-patch repair technique for sinus venosus atrial septal defects.** *JTCVS techniques*
  Reed, A. K., Nilkant, R., Hochstein, J., Choi, P. S., Ma, M., Woo, Y. J.
  2024; 27: 116-118

- **Pediatric Combined Heart-liver Transplantation: A Single-center Long-term Experience.** *Transplantation direct*
  Levitte, S., Nilkant, R., Chen, S., Beadles, A., Lee, J., Bonham, C. A., Rosenthal, D., Gallo, A., Hollander, S., Esquivel, C., Ma, M., Zhang, K. Y.
  2024; 10 (9): e1696

- **Echocardiographic Predictors of Readiness for Double Switch Operation and Postoperative Ejection Fraction in Patients with Congenitally Corrected Transposition of the Great Arteries Undergoing Left Ventricular Retraining.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Duong, S. Q., Ho, D., Punn, R., Sganga, D., Mainwaring, R., Ma, M., Hanley, F. L., Lee, K. J., Maskatia, S. A.
  2024
- **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
- **Contemporary Pediatric Heart Transplant Waitlist Mortality.** *Journal of the American College of Cardiology*
  Power, A., Sweat, K. R., Roth, A., Dykes, J. C., Kaufman, B., Ma, M., Chen, S., Hollander, S. A., Profita, E., Rosenthal, D. N., Barkoff, L., Chen, C. Y., Davies, et al
  2024; 84 (7): 620-632
- **Perioperative Management of Pediatric Combined Heart and Liver Transplantation: A 17 year single center experience.** *Paediatric anaesthesia*
  Navaratnam, M., Li, E. X., Chen, S., Margetson, T., Wolke, O., Ma, M., Ebel, N. H., Bonham, C. A., Ramamoorthy, C.
  2024
- **SDF4CHD: Generative modeling of cardiac anatomies with congenital heart defects.** *Medical image analysis*
  Kong, F., Stocker, S., Choi, P. S., Ma, M., Ennis, D. B., Marsden, A. L.
  2024; 97: 103293
- **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
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