



Alisa Arunamata

Clinical Associate Professor, Pediatrics - Cardiology

CLINICAL OFFICE (PRIMARY)

- **Pediatric Cardiology**

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Bio

BIO

Dr. Alisa Arunamata is a pediatric cardiologist and Clinical Associate Professor in the Department of Pediatrics at Stanford University School of Medicine. She specializes in cardiac imaging of the fetus through adulthood and provides comprehensive care to families and patients from the time of fetal diagnosis to post-operative management after cardiac surgery. She holds a number of leadership positions in education and hospital administration. She leads the pediatric cardiology fellowship training program as the Director, and was previously the Program Director of the Advanced Non-Invasive Imaging Fellowship as well as the Medical Director of Acute Cardiac Care at Lucile Packard Children's Hospital at Stanford.

Dr. Arunamata has a deep interest in improving clinical outcomes for children with congenital and acquired heart disease, with a primary focus on refining the assessment and contribution of the right ventricle in disease and health.

She graduated early with a degree in Molecular and Cell Biology (Biochemistry) from the University of California, Berkeley, obtained her medical degree at New York University School of Medicine and completed pediatric residency and cardiology fellowship training at Stanford. She was elected to the Alpha Omega Alpha Medical Honor Society in 2019 and is a Fellow of the American College of Cardiology (FACC) and American Society of Echocardiography (FASE).

CLINICAL FOCUS

- Pediatric Cardiology
- Echocardiography
- Fetal Cardiology
- Acute Care Cardiology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Cardiology

ADMINISTRATIVE APPOINTMENTS

- Program Director, Pediatric Cardiology Advanced Imaging Fellowship, (2018-2021)
- Associate Program Director, Pediatric Cardiology Fellowship, (2018-2022)
- Associate Medical Director, Acute Cardiac Care Unit, (2021-2022)
- Interim Medical Director, Acute Cardiac Care Unit, (2022-2023)
- Program Director, Pediatric Cardiology Fellowship, (2022- present)

HONORS AND AWARDS

- Pediatrics Fellowship Honor Roll for Teaching, Department of Pediatrics, Stanford University School of Medicine (2025)
- Stole Award for Mentorship and Teaching, Division of Pediatric Cardiology, Department of Pediatrics, Stanford University School of Medicine (2024)
- Pediatrics Fellowship Honor Roll for Teaching, Department of Pediatrics, Stanford University School of Medicine (2024)
- Pediatrics Fellowship Honor Roll for Teaching, Department of Pediatrics, Stanford University School of Medicine (2023)
- Grant Recipient, American Heart Association Second Century of Science Clinical Fellow Research Education (2023)
- Elected Member, Alpha Omega Alpha (AOA) Medical Honor Society (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Career Development Committee, Society of Pediatric Echocardiography (SOPE) (2025 - present)
- Member, Public Relations Committee, American Society of Echocardiography (ASE) (2024 - present)
- Fellow, American Society of Echocardiography (FASE) (2023 - present)
- Fellow, American College of Cardiology (FACC) (2019 - present)

PROFESSIONAL EDUCATION

- Medical Education: New York University School of Medicine (2009) NY
- Board Certification, Pediatric Cardiology , American Board of Pediatrics (2016)
- Board Certification: Pediatrics, American Board of Pediatrics (2012)
- Fellowship: Stanford University Pediatric Cardiology Fellowship (2016) CA
- Fellowship: Stanford University Pediatric Cardiology Fellowship (2015) CA
- Residency: Lucile Packard Children's Hospital at Stanford (2012) CA
- B.A., University of California, Berkeley (2005)

Publications

PUBLICATIONS

- **Treprostinil Is Associated With Early and Sustained Improvement in Group 3 Pulmonary Hypertension and Right Ventricular Function in Children.** *Pulmonary circulation*
Parvathaneni, K., Kochanski, J. J., Tandel, M. D., Liu, E., Arunamata, A., Feinstein, J. A., Hopper, R. K.
2026; 16 (2): e70304
- **Results of a pulmonary hypertension screening program for premature infants with bronchopulmonary dysplasia.** *Journal of perinatology : official journal of the California Perinatal Association*
Ramachandra, R., Arunamata, A., Moy, A., Tracy, M. C., Ji, Y., Boothroyd, D., Hopper, R. K.
2026
- **Use of Artificial Intelligence-Based Software to Aid in the Identification of Ultrasound Findings Associated With Fetal Congenital Heart Defects.** *Obstetrics and gynecology*
Lam-Rachlin, J., Punn, R., Behera, S. K., Geiger, M., Lachaud, M., David, N., Garmel, S., Fox, N. S., Rebarber, A., DeVore, G. R., Zelop, C. M., Janssen, M. K., Sylvester-Armstrong, et al

2025

- **Artificial Intelligence for the Detection of Fetal Ultrasound Findings Concerning for Major Congenital Heart Defects.** *Obstetrics and gynecology*
Zelop, C. M., Lam-Rachlin, J., Arunamata, A., Punn, R., Behera, S. K., Lachaud, M., David, N., DeVore, G. R., Rebarber, A., Fox, N. S., Gayanilo, M., Garmel, S., Boukobza, et al
2025
- **Randomized, Placebo-Controlled Trial of Peri-Operative Treprostinil in Pediatric Patients Undergoing the Fontan Operation.** *Pulmonary circulation*
Sullivan, R. T., Handler, S. S., Arunamata, A. A., Ogawa, M. T., Liu, E., Lu, D., Martin, E., Ramamoorthy, C., Kameny, R., Feinstein, J. A.
2025; 15 (3): e70122
- **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
- **SURGICAL OUTCOMES IN PATIENTS UNDERGOING A DOUBLE SWITCH OPERATION FOR CORRECTED TRANSPOSITION.** *The Annals of thoracic surgery*
Mainwaring, R. D., Felmly, L. M., Ho, D. Y., Arunamata, A., Algaze, C., Ma, M., Hanley, F. L.
2024
- **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
- **Results of the Double Switch Operation in Patients Who Previously Underwent Left Ventricular Retraining.** *World journal for pediatric & congenital heart surgery*
Mac Felmly, L., Mainwaring, R. D., Ho, D. Y., Arunamata, A., Algaze, C., Hanley, F. L.
2024: 21501351231224329
- **AI-enhanced detection of congenital heart disease suspicion in second trimester ultrasound exams by OBGYN and MFM** *Ultrasound in Obstetrics and Gynecology*
Lam-Rachlin, J., Punn, R., Lachaud, M., Garmel, D., Bessis, R., Heiligenstein, M., Sylvester-Armstrong, K., Levy, M., Stos, B., De Boisredon, M., Thorey, V., Askinazi, E., Gardella, et al
2024; 64 (S1): 63
- **Maternal Diabetes and Cardiovascular Health in the Offspring.** *Pediatric cardiology*
Jodah, R., Arunamata, A., Kipps, A. K., Chen, S., Stauffer, K. J., Selamet Tierney, E. S.
2023
- **The development and efficacy of a paediatric cardiology fellowship online preparatory course.** *Cardiology in the young*
Motonaga, K. S., Sacks, L., Olson, I., Balasubramanian, S., Chen, S., Peng, L., Feinstein, J. A., Silverman, N. H., Hanley, F. L., Axelrod, D. M., Krawczeski, C. D., Arunamata, A., Kwiatkowski, et al
2022: 1-6
- **Elucidating tricuspid Doppler signal interpolation and its implication for assessing pulmonary hypertension** *PULMONARY CIRCULATION*
Dual, S. A., Verdonk, C., Amsallem, M., Pham, J., Obasohan, C., Nataf, P., McElhinney, D. B., Arunamata, A., Kuznetsova, T., Zamanian, R., Feinstein, J. A., Marsden, A., Haddad, et al
2022; 12 (3): e12125
- **Surgical Repair of Supravalvar Aortic Stenosis in Association With Transverse and Proximal Descending Aortic Abnormalities.** *World journal for pediatric & congenital heart surgery*
Mainwaring, R. D., Collins, R. T., Ma, M., Martin, E., Arunamata, A., Algaze-Yojay, C., Hanley, F. L.
2022; 13 (3): 353-360
- **Right ventricular outflow tract anomalies: Neonatal interventions and outcomes.** *Seminars in perinatology*
Arunamata, A., Goldstein, B. H.
2022: 151583

- **Recurrent fibrovascular granulation on PhotoFix® bovine pericardium causing systemic and pulmonary venous obstruction after repair of scimitar syndrome** *Cardiology in the Young*
Taylor, N., Long, Z., Ma, M., Arunamata, A.
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
- **Recent outcomes of the extracardiac Fontan procedure in patients with hypoplastic left heart syndrome** *ANNALS OF PEDIATRIC CARDIOLOGY*
Arunamata, A., Tacy, T. A., Kache, S., Mainwaring, R. D., Ma, M., Maeda, K., Pun, R.
2020; 13 (3): 186–93
- **Recent outcomes of the extracardiac Fontan procedure in patients with hypoplastic left heart syndrome.** *Annals of pediatric cardiology*
Arunamata, A., Tacy, T. A., Kache, S., Mainwaring, R. D., Ma, M., Maeda, K., Pun, R.
2020; 13 (3): 186-193
- **Impact of Cardiac Resynchronization Therapy on Heart Transplant-Free Survival in Pediatric and Congenital Heart Disease Patients.** *Circulation. Arrhythmia and electrophysiology*
Chubb, H., Rosenthal, D. N., Almond, C. S., Ceresnak, S. R., Motonaga, K. S., Arunamata, A. A., Long, J., Trela, A. V., Hanisch, D., McElhinney, D. B., Dubin, A. M.
2020
- **Postoperative Recovery of Left Ventricular Function following Repair of Large Ventricular Septal Defects in Infants.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Adamson, G. T., Arunamata, A., Tacy, T. A., Silverman, N. H., Ma, M., Maskatia, S. A., Pun, R.
2019
- **In fetuses with congenital lung masses, decreased ventricular and atrioventricular valve dimensions are associated with lesion size and clinical outcome.** *Prenatal diagnosis*
Mardy, C., Blumenfeld, Y. J., Arunamata, A. A., Girsan, A. I., Sylvester, K. G., Halabi, S., Rubesova, E., Hintz, S. R., Tacy, T. A., Maskatia, S. A.
2019
- **Left ventricular retraining in corrected transposition: Relationship between pressure and mass.** *The Journal of thoracic and cardiovascular surgery*
Mainwaring, R. D., Patrick, W. L., Arunamata, A., Chan, F., Newman, B., Rosenblatt, T. R., Kamra, K., Hanley, F. L.
2019
- **"Echo pause" for postoperative transthoracic echocardiographic surveillance.** *Echocardiography (Mount Kisco, N.Y.)*
Cox, K., Arunamata, A., Krawczeski, C. D., Reddy, C., Kipps, A. K., Long, J., Roth, S. J., Axelrod, D. M., Hanley, F., Shin, A., Selamet Tierney, E. S.
2019
- **Surgical results of unifocalization revision**
Mainwaring, R. D., Patrick, W. L., Rosenblatt, T. R., Ma, M., Kamra, K., Arunamata, A., Hanley, F. L.
MOSBY-ELSEVIER.2019: 534–44
- **Cardiac Segmental Strain Analysis in Pediatric Left Ventricular Noncompaction Cardiomyopathy** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Arunamata, A., Stringer, J., Balasubramanian, S., Tacy, T. A., Silverman, N. H., Pun, R.
2019; 32 (6): 763–+
- **Cardiac Segmental Strain Analysis in Pediatric Left Ventricular Noncompaction Cardiomyopathy.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
Arunamata, A. n., Stringer, J. n., Balasubramanian, S. n., Tacy, T. A., Silverman, N. H., Pun, R. n.
2019
- **Fetal Echocardiographic Parameters and Surgical Outcomes in Congenital Left-Sided Cardiac Lesions.** *Pediatric cardiology*
Edwards, L. A., Arunamata, A. n., Maskatia, S. A., Quirin, A. n., Bhombal, S. n., Maeda, K. n., Tacy, T. A., Pun, R. n.
2019

- **Surgical results of unifocalization revision.** *The Journal of thoracic and cardiovascular surgery*
Mainwaring, R. D., Patrick, W. L., Rosenblatt, T. R., Ma, M., Kamra, K., Arunamata, A., Hanley, F. L.
2018
- **Utility of serial 12-lead electrocardiograms in children with Marfan syndrome.** *Cardiology in the young*
Arunamata, A. A., Nguyen, C. T., Ceresnak, S. R., Dubin, A. M., Olson, I. L., Murphy, D. J., Selamet Tierney, E. S.
2018: 1–5
- **Impact of Fetal Somatic Growth on Pulmonary Valve Annulus Z-Scores During Gestation and Through Birth in Patients with Tetralogy of Fallot.** *Pediatric cardiology*
Arunamata, A. n., Balasubramanian, S. n., Punn, R. n., Quirin, A. n., Tacy, T. A.
2018
- **Maternal Arterial Stiffness and Fetal Cardiovascular Physiology in Diabetic Pregnancies.** *Ultrasound in obstetrics & gynecology*
Moodley, S., Arunamata, A., Stauffer, K. J., Nourse, S. E., Chen, A., Quirin, A., Selamet Tierney, E. S.
2017
- **Right-Dominant Unbalanced Atrioventricular Septal Defect: Echocardiography in Surgical Decision Making.** *Journal of the American Society of Echocardiography*
Arunamata, A., Balasubramanian, S., Mainwaring, R., Maeda, K., Selamet Tierney, E. S.
2017; 30 (3): 216-226
- **Practice Patterns in Postoperative Echocardiographic Surveillance after Congenital Heart Surgery in Children: A Single Center Experience** *JOURNAL OF PEDIATRICS*
Arunamata, A., Axelrod, D. M., Kipps, A. K., McElhinney, D. B., Shin, A. Y., Hanley, F. L., Olson, I. L., Roth, S. J., Tierney, E. S.
2017; 180: 87-?
- **Decompressing vein and bilateral superior venae cavae in a patient with hypoplastic left heart syndrome.** *Echocardiography (Mount Kisco, N.Y.)*
Stauffer, K. J., Arunamata, A., Vasanawala, S. S., Behera, S. K., Kipps, A. K., Silverman, N. H.
2016; 33 (9): 1428-1431
- **Diagnosis of Anomalous Aortic Origin of the Left Coronary Artery in a Pediatric Patient.** *World journal for pediatric & congenital heart surgery*
Arunamata, A., Buccola Stauffer, K. J., Punn, R., Chan, F. P., Maeda, K., Balasubramanian, S.
2015; 6 (3): 470-473
- **Isolation of the right subclavian artery in a patient with d-transposition of the great arteries.** *Annals of pediatric cardiology*
Arunamata, A., Perry, S. B., Kipps, A. K., Vasanawala, S. S., Axelrod, D. M.
2015; 8 (2): 161-163
- **Echocardiographic Measures Associated With Early Postsurgical Myocardial Dysfunction in Pediatric Patients With Mitral Valve Regurgitation** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Arunamata, A., Tierney, E. S., Tacy, T. A., Punn, R.
2015; 28 (3): 284-293
- **Echocardiographic Diagnosis and Prognosis of Fetal Left Ventricular Noncompaction** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
Arunamata, A., Punn, R., Cuneo, B., Bharati, S., Silverman, N. H.
2012; 25 (1): 112-120
- **Endometrial Osseous Metaplasia Mimicking Retained Intrauterine Device A Case Report** *JOURNAL OF REPRODUCTIVE MEDICINE*
Tsai, M. C., Arunamata, A., Tristan, S., Randall, H. W.
2008; 53 (11): 877-880
- **Chronic antepartum maternal hyperoxygenation in a case of severe fetal Ebstein's anomaly with circular shunt physiology.** *Annals of pediatric cardiology*
Arunamata, A. n., Axelrod, D. M., Bianco, K. n., Balasubramanian, S. n., Quirin, A. n., Tacy, T. A.
; 10 (3): 284–87

PRESENTATIONS

- AI-enhanced detection of congenital heart disease suspicion in second trimester ultrasound exams by OBGYN and MFM - 34th ISUOG World Congress on Ultrasound in Obstetrics and Gynecology (September 2024)
- AI Significantly Improves Detection of Prenatal Ultrasounds Suspicious for Major Congenital Heart Defects by OBGYN/MFMs. - Society for Maternal-Fetal Medicine Meeting (January 2025)
- Assessment of right ventricular function in children after complete repair of tetralogy of Fallot, pulmonary atresia with major aortopulmonary collaterals - 33rd Annual American Society of Echocardiography (ASE) Scientific Sessions (June 2022)
- Evaluation of a deep neural network for detection of d-transposition of the great arteries on fetal echocardiograms - American Heart Association Scientific Sessions (November 2023)