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Claudia Algaze

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CLINICAL OFFICE (PRIMARY)

- **Pediatric Cardiology**

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Bio

CLINICAL FOCUS

- Pediatric Cardiology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Cardiology
- Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION

- Board Certification: Pediatrics, American Board of Pediatrics (2024)
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2024)
- Residency: Stanford Health Care at Lucile Packard Children's Hospital (2010) CA
- Fellowship: Stanford University Pediatric Cardiology Fellowship (2014) CA
- Medical Education: Universidad Central Del Caribe School of Medicine (2007) Puerto Rico

Publications

PUBLICATIONS

- **The Use of Inhaled Nitric Oxide After Pediatric Cardiac Surgery.** *Pediatric cardiology*

  Diddle, J. W., Patregnani, J., Algaze, C. A., Banerjee, M., Berger, J., Reichle, G., Louis, J. S., Sasaki, J., Schumacher, K. R., Sinton, J., Stigall, W., Wolovits, J., Zhang, et al

  2026

- **Psychotic Features in Myhre Syndrome: Evidence for Broader Neuropsychiatric Surveillance.** *American journal of medical genetics. Part C, Seminars in medical genetics*

  Ebuen, M., Krishnan, V., Irby, K., Monsberger, R., Hopkin, R. J., Brand, M. R., Friedman, N., Thom, R. P., Reiss, A. L., Algaze, C., Bernstein, J. A., Alexander, S., Cormier-Daire, et al

  2026

- **Gender Dysphoria in Adolescents With Heritable Disorders of Connective Tissue: A Case Series.** *Journal of paediatrics and child health*
  Herrmann, J. E., Algaze, C., Wu, M., Tierney, E. S.
  2026
- **Clinical Effectiveness Strategies to Improve Patient Outcomes After Pectus Excavatum Repair** *JOURNAL FOR HEALTHCARE QUALITY*
  Schwab, M. E., Cohen, S., Bassett, H. K., Michel, D., Algaze, C. A., Esfahanian, M., Good, J., Chao, S. D.
  2026; 48 (2)
- **Diaphragm Dysfunction following Congenital Heart Surgery: Epidemiology and Outcomes.** *The Journal of thoracic and cardiovascular surgery*
  Ruppe, M., DeWitt, A., Schumacher, K. R., Jacobs, J. P., Algaze, C. A., Smith, A., Akins, R., Mikesell, K., Zhang, W., Austin, E., Lasa, J. J.
  2026
- **Middle aortic syndrome in a paediatric patient with Williams syndrome: a case report.** *Cardiology in the young*
  Baccouche, B. M., Salazar, D., Algaze, C.
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- **Generation of two induced pluripotent stem cell lines from patients with Williams syndrome.** *Stem cell research*
  Dai, Y., Zhu, W., Flores Banuelos, A. G., Li, J., Mukherjee, S., Algaze, C., Wu, J. C.
  2024; 78: 103460
- **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
- **Left Ventricular Strain, Arch Angulation, and Velocity-Time Integral Ratio Improve Performance of a Clinical Pathway for Fetal Diagnosis of Neonatal Coarctation of the Aorta.** *Fetal diagnosis and therapy*
  Phillips, A. A., Punn, R., Algaze, C., Blumenfeld, Y. J., Chock, V. Y., Kwiatkowski, D. M., Quirin, A., Tacy, T. A., Thorson, K., Maskatia, S. A.
  2024: 1-15
- **Intraoperative and Postoperative Hemodynamic Predictors of Acute Kidney Injury in Pediatric Heart Transplant Recipients.** *Journal of pediatric intensive care*
  Hollander, S. A., Chung, S., Reddy, S., Zook, N., Yang, J., Vella, T., Navaratnam, M., Price, E., Sutherland, S. M., Algaze, C. A.
  2024; 13 (1): 37-45
- **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
- **Using clinical decision support systems to decrease intravenous acetaminophen use: implementation and lessons learned.** *Applied clinical informatics*
  Tse, G., Algaze, C., Pageler, N., Wood, M., Chadwick, W.
  2023
- **ECGs Do Not Detect Myocardial Ischemia in Patients with Williams Syndrome and Non-Syndromic Elastin Arteriopathy with Coronary Artery Stenosis.** *The American journal of cardiology*
  Algaze, C., Chubb, H., Deitch, A. M., Collins, R. T.
  2023
- **Racial and Ethnic Disparities in Cardiac Reintervention after Pediatric Cardiac Surgery.** *The Annals of thoracic surgery*
  Saha, P., Tjoeng, Y. L., Algaze, C., Kameny, R., Pinto, N., Chan, T.
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- **Intensive Care Unit Analgosedation After Cardiac Surgery in Children with Williams Syndrome : a Matched Case-Control Study.** *Pediatric cardiology*
  Mills, M., Algaze, C., Journel, C., Suarez, G., Lechich, K., Kwiatkowski, M. D., Schmidt, A. R., Collins, R. T.
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- **Development of an Equity, Diversity, and Inclusion Committee for a collaborative quality improvement network: Pediatric Cardiac Critical Care Consortium (PC4) Equity, Diversity and Inclusion (EDI) Committee: white paper 2023.** *Cardiology in the young*

Tjoeng, Y. L., Werho, D. K., Algaze, C., Nawathe, P., Benjamin, S., Schumacher, K. R., Chan, T.
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- **The Leadership/Management Concept Scale: differentiating between actions constituting leadership and management** *LEADERSHIP & ORGANIZATION DEVELOPMENT JOURNAL*
  Collins II, R., Algaze, C., Posner, B. Z.
  2023

- **Arrhythmias in Williams Syndrome.** *The American journal of cardiology*
  Deitch, A. M., Giacone, H. M., Chubb, H., Algaze, C. A., Lechich, K. M., Collins, R. T.
  2023; 195: 91-97

- **Analysis of risk factors associated with extracorporeal membrane oxygenation after surgical repair of peripheral pulmonary artery stenoses.** *JTCVS open*
  Felmly, L. M., Mainwaring, R. D., Algaze, C., Martin, E., Ma, M., Hanley, F. L.
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- **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

- **Team Communication and Expectations Following Pediatric Cardiac Surgery: A Multi-Disciplinary Survey.** *Pediatric cardiology*
  Bushnell, J., Connelly, C., Algaze, C. A., Bailly, D. K., Koth, A., Mafla, M., Presnell, L., Shin, A. Y., McCammond, A. N.
  2022

- **Impact of Abnormal Potassium on Arrhythmia Risk During Pediatric Digoxin Therapy.** *Pediatric cardiology*
  Mlambo, V. C., Algaze, C. A., Mak, K., Collins, R. T.
  2022

- **Criteria for Early Pacemaker Implantation in Patients With Postoperative Heart Block After Congenital Heart Surgery.** *Circulation. Arrhythmia and electrophysiology*
  Duong, S. Q., Shi, Y., Giacone, H., Navarre, B., Gal, D., Han, B., Sganga, D., Ma, M., Reddy, C. D., Shin, A., Kwiatkowski, D. M., Dubin, A. M., Scheinker, et al
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- **Importance of Formula-Specific Centile Thresholds for Evaluation of Heart Rate-Corrected QT Prolongation in Williams Syndrome.** *The American journal of cardiology*
  Algaze, C. A., Deitch, A. M., Chubb, H., Aziz, P. F., Collins, R. T.
  2022

- **Enhanced Recovery After Cleft Palate Repair: A Quality Improvement Project.** *Paediatric anaesthesia*
  Esfahanian, M., Marcott, S. C., Hopkins, E., Burkart, B., Khosla, R., Lorenz, H. P., Wang, E., De Souza, E., Algaze-Yojay, C., Caruso, T. J.
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- **Prevalence and Outcomes of Primary Left Ventricular Dysfunction in Marfan Syndrome.** *The American journal of cardiology*
  Connor, B. S., Algaze, C. A., Narkeviciute, A., Anguiano, B., Pariani, M., Zarate, Y. A., Collins, R. T.
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- **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.
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- **A clinical scoring system for early onset (neonatal) Marfan syndrome.** *Genetics in medicine : official journal of the American College of Medical Genetics*
  Zarate, Y. A., Morris, S. A., Blackshare, A., Algaze, C. A., Connor, B. S., Kim, A. J., Yutzey, K. E., Miller, E. M., Weaver, K. N., Collins, R. T.
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- **A clinical scoring system for early onset (neonatal) Marfan syndrome**
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- **Impact of a clinical pathway on acute kidney injury in patients undergoing heart transplant.** *Pediatric transplantation*
  Algaze, C. A., Margetson, T. D., Sutherland, S. M., Kwiatkowski, D. M., Maeda, K., Navaratnam, M., Samreth, S. P., Price, E. P., Zook, N. B., Yang, J. K., Hollander, S. A.
  2021: e14166

- **Intraoperative and Postoperative Hemodynamic Predictors of Acute Kidney Injury in Pediatric Heart Transplant Recipients** *JOURNAL OF PEDIATRIC INTENSIVE CARE*
  Hollander, S. A., Chung, S., Reddy, S., Zook, N., Yang, J., Vella, T., Navaratnam, M., Price, E., Sutherland, S. M., Algaze, C. A.
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- **Bedside Benchmarks: Transparent Data to Reduce Variation in Postoperative Care** *NEJM CATALYST INNOVATIONS IN CARE DELIVERY*
  Hummel, K., White, B. R., Algaze, C. A., Marrone, T., Sinnott, J. A., Wawrzynski, S., Winder, M., Bailly, D.
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- **A Fetal Risk Stratification Pathway for Neonatal Aortic Coarctation Reduces Medical Exposure.** *The Journal of pediatrics*
  Maskatia, S. A., Kwiatkowski, D., Bhombal, S., Davis, A. S., McElhinney, D. B., Tacy, T. A., Algaze, C., Blumenfeld, Y., Quirin, A., Punn, R.
  2021

- **Target Based Care: An Intervention to Reduce Variation in Postoperative Length of Stay.** *The Journal of pediatrics*
  Shin, A. Y., Rao, I. J., Bassett, H. K., Chadwick, W., Kim, J., Kipps, A. K., Komra, K., Loh, L., Maeda, K., Mafla, M., Presnell, L., Sharek, P. J., Steffen, et al
  2020

- **The Natural and Unnatural History of Ventricular Septal Defects Presenting in Infancy: An Echocardiography-Based Review.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Cox, K., Algaze-Yojay, C., Punn, R., Silverman, N.
  2020

- **Angiographic Anatomy of Major Aortopulmonary Collateral Arteries and Association With Early Surgical Outcomes in Tetralogy of Fallot.** *Journal of the American Heart Association*
  Adamson, G. T., McElhinney, D. B., Zhang, Y. n., Feinstein, J. A., Peng, L. F., Ma, M. n., Algaze, C. A., Hanley, F. L., Perry, S. B.
  2020: e017981

- **Younger age remains a risk factor for prolonged length of stay after bidirectional cavopulmonary anastomosis** *CARDIOLOGY IN THE YOUNG*
  Koth, A. M., Algaze, C. A., Sakarovitch, C., Long, J., Kamra, K., Wright, G. E., Alexander-Banys, B., Maeda, K., Shin, A. Y.
  2019; 29 (3): 369–74

- **Younger age remains a risk factor for prolonged length of stay after bidirectional cavopulmonary anastomosis.** *Cardiology in the young*
  Koth, A. M., Algaze, C. A., Sakarovitch, C., Long, J., Kamra, K., Wright, G. E., Alexander-Banys, B., Maeda, K., Shin, A. Y.
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- **LEVERAGING AGGREGATE DATA AT THE POINT OF CARE REDUCES VARIATION FOR PEDIATRIC NEUROSURGERY PATIENTS**
  Steffen, K., Su, F., Algaze, C., Duethman, L., Jacobs, K., Casazza, M., Chantra, J., Loh, L., Shin, A., Grant, G.
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- **Applying Lessons from an Inaugural Clinical Pathway to Establish a Clinical Effectiveness Program.** *Pediatric quality & safety*
  Algaze, C. A., Shin, A. Y., Nather, C., Elgin, K. H., Ramamoorthy, C., Kamra, K., Kipps, A. K., Yarlagadda, V. V., Mafla, M. M., Vashist, T., Krawczeski, C. D., Sharek, P. J.
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- **Diagnostic errors in paediatric cardiac intensive care** *CARDIOLOGY IN THE YOUNG*
  Bhat, P. N., Costello, J. M., Aiyagari, R., Sharek, P. J., Algaze, C. A., Mazwi, M. L., Roth, S. J., Shin, A. Y.
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- **Pulmonary reinterventions after complete unifocalization and repair in infants and young children with tetralogy of Fallot with major aortopulmonary collaterals** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Bauser-Heaton, H., Borquez, A., Asija, R., Wise-Faberowski, L., Zhang, Y., Downey, L., Perry, S. B., Koth, A., Peng, L. F., Algaze, C. A., Hanley, F. L., McElhinney, D. B.

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- **Programmatic Approach to Management of Tetralogy of Fallot With Major Aortopulmonary Collateral Arteries A 15-Year Experience With 458 Patients** *CIRCULATION-CARDIOVASCULAR INTERVENTIONS*
  Bauser-Heaton, H., Borquez, A., Han, B., Ladd, M., Asija, R., Downey, L., Koth, A., Algaze, C. A., Wise-Faberowski, L., Perry, S. B., Shin, A., Peng, L. F., Hanley, et al
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- **INSURANCE TYPE IS ASSOCIATED WITH LONGER HOSPITAL DURATION BUT SIMILAR MORTALITY AMONG CHILDREN UNDERGOING CONGENITAL HEART SURGERY**
  Ryan, K., Algaze, C., Sakarovitch, C., Do, T., Yarlagadda, V., Fernandes, S., McElhinney, D., Roth, S., Krawczeski, C., Shin, A.
  ELSEVIER SCIENCE INC.2017: 569

- **Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Operation With and Without the Use of Cardiopulmonary Bypass** *PEDIATRIC CRITICAL CARE MEDICINE*
  Algaze, C. A., Koth, A. M., Faberowski, L. W., Hanley, F. L., Krawczeski, C. D., Axelrod, D. M.
  2017; 18 (1): 34-43

- **Acute Kidney Injury in Patients Undergoing the Extracardiac Fontan Operation With and Without the Use of Cardiopulmonary Bypass.** *Pediatric critical care medicine*
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- **Use of a Checklist and Clinical Decision Support Tool Reduces Laboratory Use and Improves Cost.** *Pediatrics*
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- **Expanding the Phenotype of Cardiovascular Malformations in Adams-Oliver Syndrome** *AMERICAN JOURNAL OF MEDICAL GENETICS PART A*
  Algaze, C., Esplin, E. D., Lowenthal, A., Hudgins, L., Tacy, T. A., Tierney, E. S.
  2013; 161A (6): 1386-1389

- **EXTRACARDIAC CONDUIT FONTAN PROCEDURE WITHOUT THE USE OF CARDIOPULMONARY BYPASS: EARLY OUTCOMES** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Algaze, C. A., Reddy, V. M., Hanley, F. L., Perry, S. B.
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- **MAJOR AORTOPULMONARY COLLATERAL ARTERY NOMENCLATURE** *62nd Annual Scientific Session of the American-College-of-Cardiology*
  Algaze, C. A., Peng, L. F., Feinstein, J. A., Reddy, V. M., Hanley, F. L., Perry, S. B.
  ELSEVIER SCIENCE INC.2013: E543–E543