Stanford



Rajesh Punn, M.D.

Clinical Professor, Pediatrics - Cardiology

CLINICAL OFFICE (PRIMARY)

- **Heart Center**

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Bio

BIO

Dr. Rajesh Punn is a pediatric cardiologist and clinical professor at Stanford University with expertise in advanced echocardiography, congenital heart disease imaging, and fetal cardiology. He serves as Director of Ambulatory Cardiology at the Stanford Pediatric Heart Center, where his work focuses on optimizing outpatient care delivery and integrating imaging into clinical decision-making.

His academic interests center on ventricular function, fetal and pediatric echocardiography, and translational imaging applications in congenital heart disease. He is actively involved in multicenter research collaborations and has authored over 80 peer-reviewed publications. Dr. Punn also serves as Associate Editor for the Journal of the American Society of Echocardiography.

In addition to his clinical and research work, he is deeply engaged in mentorship of fellows, residents, and medical students, with a focus on developing the next generation of clinicians and physician-scientists in pediatric cardiology.

CLINICAL FOCUS

- Pediatrics, General
- Pediatric Cardiology

ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Cardiology
- Member, Cardiovascular Institute

ADMINISTRATIVE APPOINTMENTS

- Director, Ambulatory Cardiology, (2021- present)

PROFESSIONAL EDUCATION

- Medical Education: Eastern Virginia Medical School Registrar (1998) VA
- Residency: Children's Hospital of the King's Daughters (2000) VA

- Internship: Children's Hospital of the King's Daughters (1999) VA
- Board Certification: Pediatric Cardiology, American Board of Pediatrics (2008)
- Fellowship: Children's Hospital and Health Center- UC San Diego (2007) CA

Research & Scholarship

CLINICAL TRIALS

- Effects of Different Tidal Volume Ventilation Strategies on Fontan Flow and Hemodynamics, Not Recruiting

Publications

PUBLICATIONS

- **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

- **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

- **Fetal Anatomic and Physiologic Predictors of Neonatal Hypoxia in D-Transposition of the Great Arteries: A Prospective, Multi-Center Study by the Fetal Heart Society Research Collaborative.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Johnson, J. T., Schidlow, D., Shuplock, J., Donofrio, M. T., Morris, S. A., Hornberger, L. K., Palmer, C., Reeder, R., Arya, B., Cuneo, B., Freire, G., Glickstein, J., Howley, et al
  2026

- **Relationship Between Aortic Root Enlargement and Pulmonary Blood Flow in Pulmonary Atresia With Major Aortopulmonary Collateral Arteries.** *Annals of thoracic surgery short reports*
  Mainwaring, R. D., Jacobs, N. M., Punn, R., Punn, P., Arunamata, A., Hanley, F. L.
  2026; 4 (2): 663-669

- **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

- **Diastolic Function Unchanged After Lifestyle Intervention Despite Improved VO2 in Pediatric Heart Transplant Patients.** *Pediatric cardiology*
  Brennan, A., Mardy, C., Punn, R., Tierney, S.
  2026

- **Accuracy of fetal echocardiography in detecting lesions associated with, and predicting surgical plan for, dextro-transposition of the great arteries and double outlet right ventricle with subpulmonary ventricular septal defect and predicted transposition physiology.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
  Chandrasekar, H., Kaplinski, M., Maskatia, S. A., Beattie, M. J., Ho, D. Y., Reddy, C. D., Punn, R.
  2026

- **Immersive Healing: Approach to Easing Anxiety in Pediatric Cardiology Outpatient Procedures through Virtual Reality Distracting Techniques**
  Kohlsaat, K., Punn, R., Jameson, S., Menendez, M., Ceresnak, S., Mederios, P., Barnett, M.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **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

- **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., Punn, R., Kaplinski, et al
  2025

- **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

- **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

- **Suboptimal Inter-Rater Reliability Limits Predictive Value of Fetal Echocardiography for Neonatal Balloon Atrial Septostomy in Fetuses with Dextro-Transposition of the Great Arteries.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Chandrasekar, H., Maskatia, S. A., Beattie, M. J., Kaplinski, M. A., Punn, R., Reddy, C. D., Jensen, A., Tacy, T. A.
  2025

- **Systolic Performance of the Single Ventricle, Exercise Capacity, and Endothelial Function in Pediatric Fontan Patients.** *American heart journal*
  Gallegos, F. N., Bernstein, D., Punn, R., Long, J., Stauffer, K. J., Thorson, K., Chen, S., Lui, M. C., Olson, I., Myers, J., Palaniappan, L., Tierney, S.
  2025

- **Hemodynamic Effects of Altering Tidal Volume During Positive Pressure Ventilation in the Fontan Circulation: A Randomized Crossover Trial.** *Paediatric anaesthesia*
  Navaratnam, M., Schmidt, A. R., Kaplinski, M., De Souza, E., Beattie, M. J., Rowe, E. V., Punn, R., Ramamoorthy, C.
  2025

- **The Elusive Nature of "Simple" D-transposition During Perinatal Transition.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Punn, R., Moon-Grady, A. J.
  2025

- **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

- **Normal Fetal Ventricular Strain Pilot Study.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  McFarland, C., Pruitt, C., Donofrio, M. T., Freud, L. R., Lopez, L., Minich, L. L., Moon-Grady, A. J., Ou, Z., Punn, R., Tacy, T. A., Fatusin, O., Pinto, N.
  2024

- **Abstracts of the 34th World Congress on Ultrasound in Obstetrics and Gynecology, 15-18 September 2024, Budapest, Hungary.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
  Lam-Rachlin, J., Punn, R., Lachaud, M., David, N., Garmel, S., Bessis, R., Heiligenstein, M., Sylvester-Armstrong, K. R., Kennedy, J. P., Rebarber, A., Fox, N., Chelli, D., Boukobza, et al
  2024; 64 Suppl 1: 63

- **Abstracts of the 34th World Congress on Ultrasound in Obstetrics and Gynecology, 15-18 September 2024, Budapest, Hungary.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
  Chen, R., Di, M., Cai, Q., Ma, M., Tian, Y., Chen, Y., Zhao, B. W.
  2024; 64 Suppl 1: 63-64

- **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

- **A Prospective Randomized Controlled Trial Using Virtual Reality in Pediatric Pre-intervention Echocardiograms to Decrease Child Anxiety and Fear.** *Pediatric cardiology*
  Behera, S. K., Punn, R., Menendez, M., Be, C., Moon, S., Zuniga, M., Stauffer, K. J., Thorson, K., Asi, N., Lopez, 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

- **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

- **Cannula Positioning in an Infant on Venoarterial Extracorporeal Membrane Oxygenation: A Rare Cause of Reverse Differential Cyanosis.** *CASE (Philadelphia, Pa.)*
  Ramachandra, R., Ellison, G. A., Su, F., Punn, R.
  2024; 8 (1): 21-24

- **Retroaortic Innominate Vein in Association With Pulmonary Atresia/Major Aortopulmonary Collaterals.** *Annals of thoracic surgery short reports*
  Mainwaring, R. D., Desai, M., Punn, R., Felmly, L. M., Hanley, F. L.
  2023; 1 (3): 436-440

- **Tricuspid valve annular tilt for assessment of pre- and post-intervention right ventricular volume in patients undergoing transcatheter pulmonary valve replacement.** *Cardiology in the young*
  Reddy, C. D., Yokota, R., Punn, R.
  2023: 1-7

- **Is Our Assessment of Ventricular Function Now Twisted?** *JACC. Advances*
  Punn, R.
  2023; 2 (4): 100395

- **Design and Rationale of RE-ENERGIZE FONTAN: RandomizEd Exercise iNtERvention desiGned to maximIZE fitness in FONTAN patients.** *American heart journal*
  Tierney, E. S., Palaniappan, L., Leonard, M., Long, J., Myers, J., Dávila, T., Lui, M. C., Kogan, F., Olson, I., Punn, R., Desai, M., Schneider, L. M., Wang, et al
  2023

- **Echocardiographic Predictors of Early Myocardial Dysfunction in Duchenne Muscular Dystrophy**
  Sanchez, J., Kaufman, B., Maskatia, S. A., Punn, R.
  LIPPINCOTT WILLIAMS & WILKINS.2022: A15539

- **Targeted Neonatal Echocardiography in Patients With Hemodynamic Instability.** *Pediatrics*
  Rahde Bischoff, A., Bhombal, S., Altman, C. A., Fraga, M. V., Punn, R., Rohatgi, R. K., Lopez, L., McNamara, P. J.
  2022; 150 (Suppl 2)

- **Hemodynamic and Echocardiographic Predictors of Mortality in Pediatric Patients on Venoarterial Extracorporeal Membrane Oxygenation - A Multicenter Investigation.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Punn, R., Falkensammer, C. B., Blinder, J. J., Fifer, C. G., Thorsson, T., Perens, G., Federman, M., Gupta, P., Best, T., Arya, B., Chan, T., Sherman-Levine, S., Smith, et al
  2022

- **Minute Stroke Distance is a More Reproducible Measurement Than Cardiac Output in the Assessment of Fetal Ventricular Systolic Function.** *Journal of the American Society of Echocardiography : official publication of the American Society of Echocardiography*
  Sun, H. Y., Selamet Tierney, E. S., Tacy, T. A., Punn, R.
  2022
- **Intraoperative epicardial echocardiography or transoesophageal echocardiography in CHD: how much does it matter?** *Cardiology in the young*
  Stauffer, K. J., Brabender, J., Reddy, C. D., Selamet Tierney, E. S., Lopez, L., Maeda, K., Navaratnam, M., Punn, R.
  2022: 1-8
- **Left Subclavian Artery Isolation with Right Aortic Arch and D-Transposition of the Great Arteries.** *CASE (Philadelphia, Pa.)*
  Hansen, K., Dhillon, G., Ma, M., Maskatia, S. A., Su, L., Vasanawala, S., Punn, R.
  1800; 5 (6): 392-398
- **Prenatally diagnosed pseudoaneurysms of the mitral-aortic intervalvular fibrous area.** *Ultrasound in obstetrics & gynecology : the official journal of the International Society of Ultrasound in Obstetrics and Gynecology*
  Hogan, W. J., Punn, R., Dean, P., Strainic, J., Rychik, J., Williams, R. V., Moon-Grady, A. J., Silverman, N. H.
  2021
- **Longitudinal Assessment of Right Ventricular Function in Hypoplastic Left Heart Syndrome.** *Pediatric cardiology*
  Balasubramanian, S., Smith, S. N., Srinivasan, P., Tacy, T. A., Hanley, F. L., Chen, S., Wright, G. E., Peng, L. F., Punn, R.
  2021
- **Tele-Clinic Visits in Pediatric Patients with Marfan Syndrome using Parentally-Acquired Echo.** *The Journal of pediatrics*
  Chen, A. n., Punn, R. n., Collins, R. T., Chen, J. H., Stauffer, K. J., Wang, R. n., Alexander, S. n., MacMillen Lechich, K. n., Murphy, D. J., Chung, S. n., Selamet Tierney, E. S.
  2021
- **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
- **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., Punn, 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., Punn, R.
  2020; 13 (3): 186-193
- **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
- **UTILIZATION OF FUNCTIONAL ECHOCARDIOGRAPHY AND NEAR-INFRARED SPECTROSCOPY TO CHARACTERIZE DUCTAL HEMODYNAMICS IN THE PREMATURE NEONATE**
  Ringle, M., Chock, V. Y., Stauffer, K., Lopez, L., Punn, R., Bhombal, S.
  BMJ PUBLISHING GROUP.2020: A49
- **Cardiac Dysfunction Identified by Strain Echocardiography Is Associated With Illness Severity in Pediatric Sepsis.** *Pediatric critical care medicine : a journal of the Society of Critical Care Medicine and the World Federation of Pediatric Intensive and Critical Care Societies*
  Patel, M. D., Mariano, K. n., Dunbar, T. n., Cornell, T. T., Punn, R. n., Haileselassie, B. n.
  2020
- **Circulating whole genome miRNA expression corresponds to progressive right ventricle enlargement and systolic dysfunction in adults with tetralogy of Fallot.** *PloS one*
  Weldy, C. S., Syed, S. A., Amsallem, M., Hu, D., Ji, X., Punn, R., Taylor, A., Navarre, B., Reddy, S.
  2020; 15 (11): e0241476

- **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., Punn, R.
  2019
- **Serial assessment of postoperative ventricular mechanics in young children with tetralogy of Fallot: Comparison of transannular patch and valve-sparing repair** *CONGENITAL HEART DISEASE*
  Annavajjhala, V., Punn, R., Tacy, T. A., Hanley, F. L., McElhinney, D. B.
  2019; 14 (5): 691–99
- **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., Punn, R.
  2019; 32 (6): 763-+
- **Role of echocardiography in the assessment of right ventricular function in the pediatric population** *PEDIATRIC ANESTHESIA*
  Kamra, K., Punn, R.
  2019; 29 (5): 530–38
- **Role of echocardiography in the assessment of right ventricular function in the pediatric population.** *Paediatric anaesthesia*
  Kamra, K., Punn, R.
  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., Punn, R. n.
  2019
- **Cerebrovascular Blood Flow in Patients with Tetralogy of Fallot: Prediction for Early Surgical Intervention.** *Prenatal diagnosis*
  Campbell, M. n., Ronai, C. n., Punn, R. n., Tacy, T. n., Tworetzky, W. n., Madriago, E. n.
  2019
- **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., Punn, R. n.
  2019
- **A Retrospective Evaluation of Echocardiograms to Establish Normative Inferior Vena Cava and Aortic Measurements for Children Younger Than 6 Years** *JOURNAL OF ULTRASOUND IN MEDICINE*
  Stenson, E. K., Punn, R., Ramsi, M., Kache, S.
  2018; 37 (9): 2225–32
- **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., Balasubramanian, S., Punn, R., Quirin, A., Tacy, T. A.
  2018; 39 (6): 1181–87
- **Interstage evaluation of homograft-valved right ventricle to pulmonary artery conduits for palliation of hypoplastic left heart syndrome** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Sandeep, N., Punn, R., Balasubramanian, S., Smith, S. N., Reinhartz, O., Zhang, Y., Wright, G. E., Peng, L. F., Wise-Faberowski, L., Hanley, F. L., McElhinney, D. B.
  2018; 155 (4): 1747-+
- **High human herpesvirus 6 viral load in pediatric allogeneic hematopoietic stem cell transplant patients is associated with detection in end organs and high mortality** *PEDIATRIC TRANSPLANTATION*
  Winestone, L. E., Punn, R., Tamaresis, J. S., Buckingham, J., Pinsky, B. A., Waggoner, J. J., Kharbanda, S.
  2018; 22 (2)
- **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

- **Left Ventricular Systolic Myocardial Deformation: A Comparison of Two- and Three-Dimensional Echocardiography in Children** *JOURNAL OF THE AMERICAN SOCIETY OF ECHOCARDIOGRAPHY*
  Balasubramanian, S., Punn, R., Smith, S. N., Houle, H., Tacy, T. A.
  2017; 30 (10): 974–83

- **Echocardiography-Derived Left Ventricular Outflow Tract Gradient and Left Ventricular Posterior Wall Thickening Are Associated with Outcomes for Anatomic Repair in Congenitally Corrected Transposition of the Great Arteries.** *Journal of the American Society of Echocardiography*
  Moodley, S., Balasubramanian, S., Tacy, T. A., Chan, F., Hanley, F. L., Punn, R.
  2017

- **LVOT-VTI is a Useful Indicator of Low Ventricular Function in Young Patients.** *Pediatric cardiology*
  Navaratnam, M., Punn, R., Ramamoorthy, C., Tacy, T. A.
  2017

- **Major Aortopulmonary Collateral Arteries With Anatomy Other Than Pulmonary Atresia/Ventricular Septal Defect.** *Annals of thoracic surgery*
  Patrick, W. L., Mainwaring, R. D., Reinhartz, O., Punn, R., Tacy, T., Hanley, F. L.
  2017

- **Pericardial Effusion Following Hematopoietic Cell Transplantation in Children and Young Adults Is Associated with Increased Risk of Mortality.** *Biology of blood and marrow transplantation*
  Cox, K., Punn, R., Weiskopf, E., Pinsky, B. A., Kharbanda, S.
  2017

- **Changing Management of the Patent Ductus Arteriosus: Effect on Neonatal Outcomes and Resource Utilization.** *American journal of perinatology*
  Chock, V. Y., Goel, V. V., Palma, J. P., Luh, T. M., Wang, N. A., Gaskari, S., Punn, R., Silverman, N. H., Benitz, W. E.
  2017

- **Institution of Veno-arterial Extracorporeal Membrane Oxygenation Does Not Lead to Increased Wall Stress in Patients with Impaired Myocardial Function** *PEDIATRIC CARDIOLOGY*
  Koth, A. M., Axelrod, D. M., Reddy, S., Roth, S. J., Tacy, T. A., Punn, R.
  2017; 38 (3): 539-546

- **Institution of Veno-arterial Extracorporeal Membrane Oxygenation Does Not Lead to Increased Wall Stress in Patients with Impaired Myocardial Function.** *Pediatric cardiology*
  Koth, A. M., Axelrod, D. M., Reddy, S., Roth, S. J., Tacy, T. A., Punn, R.
  2016

- **Near-infrared spectroscopy for detection of a significant patent ductus arteriosus.** *Pediatric research*
  Chock, V. Y., Rose, L. A., Mante, J. V., Punn, R.
  2016; 80 (5): 675-680

- **Diagnosing Neonatal Aortic Coarctation in the Setting of Patent Ductus Arteriosus** *ANNALS OF THORACIC SURGERY*
  Peng, D. M., Punn, R., Maeda, K., Tierney, E. S.
  2016; 101 (3): 1005-1011

- **Pericardial Effusion Following Hematopoietic Cell Transplantation in Children Is Associated with Increased Risk of Mortality**
  Cox, K., Punn, R., Schnorr, E., Kharbanda, S.
  ELSEVIER SCIENCE INC.2016: S240

- **Double-Switch Repair of Corrected Transposition in Association With Criss-Cross Atrial Morphology** *ANNALS OF THORACIC SURGERY*
  Zeigler, S., Mainwaring, R. D., Punn, R., Petrossian, E., Hanley, F. L.
  2016; 101 (3): 1208–10

- **Diagnosing Neonatal Aortic Coarctation in the Setting of Patent Ductus Arteriosus.** *Annals of thoracic surgery*
  Peng, D. M., Punn, R., Maeda, K., Selamet Tierney, E. S.
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- **Assessment of Speckle-Tracking Echocardiography-Derived Global Deformation Parameters During Supine Exercise in Children** *PEDIATRIC CARDIOLOGY*

Liu, M. Y., Tacy, T., Chin, C., Obayashi, D. Y., Punn, R.
2016; 37 (3): 519-527

- **Assessment of Speckle-Tracking Echocardiography-Derived Global Deformation Parameters During Supine Exercise in Children.** *Pediatric cardiology*
  Liu, M. Y., Tacy, T., Chin, C., Obayashi, D. Y., Punn, R.
  2016; 37 (3): 519-527
- **A Pilot Study Assessing ECG versus ECHO Ventriculoventricular Optimization in Pediatric Resynchronization Patients.** *Journal of cardiovascular electrophysiology*
  Punn, R., Hanisch, D., Motonaga, K. S., Rosenthal, D. N., Ceresnak, S. R., Dubin, A. M.
  2016; 27 (2): 210-216
- **Cardioplegia Dose Effect on Immediate Postoperative Alterations in Coronary Artery Flow Velocities After Congenital Cardiac Surgery.** *Pediatric cardiology*
  Davidson, H., Punn, R., Tacy, T. A.
  2016; 37 (2): 364-371
- **Routine intra-operative trans-oesophageal echocardiography yields better outcomes in surgical repair of CHD.** *Cardiology in the young*
  Madriago, E. J., Punn, R., Geeter, N., Silverman, N. H.
  2016; 26 (2): 263-268
- **Hemoptysis as a rare presentation of cor triatriatum sinister** *JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY*
  Said, S. M., Ibrahimiye, A. N., Punn, R., Hanley, F. L.
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