

Heart Institute

Division Details

RESEARCH AND TRAINING DETAILS

Faculty	60
Joint Appointment Faculty	2
Research Fellows and Post Docs	22
Research Graduate Students	11
Total Annual Grant Award Dollars	\$12,706,491
Total Annual Industry Award Dollars	\$719,459
Total Publications	233

CLINICAL ACTIVITIES AND TRAINING

Staff Physicians	2
Clinical Fellows	24
Inpatient Encounters	1,654
Outpatient Encounters	20,626



Row 1: J Robbins, A Redington, J Tweddell

Row 2: H Heydarian, A Divanovic, D Spar, R Moore, J Anderson, A Lorts, E Urbina, E Hahn, J Kwong

Row 3: R Siegel, S Kirk, J Gulick, B Goldstein, C Chin, B Blaxall, J Woo, N Brown

Row 4: W Zhang, W Whiteside, J James, T Knilans, D Millay, M Taylor, R Hirsch, S Hanke, N Madsen, C Statile, T Ryan, A Strauss

Row 5: J Waxman, G Veldtman, I Iliopoulos, I Wilmot, C Villa, C Learn, T Kimball

Division Publications

1. Adachi I, Burki S, Zafar F, Morales DL. [Pediatric Ventricular Assist Devices](#). *J Thorac Dis*. 2015; 7:2194-202.
2. Alsaied T, Alsidawi S, Allen CC, Faircloth J, Palumbo JS, Veldtman GR. [Strategies for Thromboprophylaxis in Fontan Circulation: A Meta-Analysis](#). Editor, M Rothenberg. *Heart*. 2015; 101:1731-7.
3. Alsaied T, Khan MS, Cnota J. [Database Research for Fellows-in-Training and Early-Career Cardiologists](#). *J Am Coll Cardiol*. 2015; 66:1404-7.
4. Alsaied T, Marino B, Esbensen A, Anixt J, Epstein J, Cnota J. [Does Congenital Heart Disease Affect Neurodevelopmental Outcomes in Children with Down Syndrome?](#) *Congenit Heart Dis*. 2016; 11:26-33.

5. Alsaied T, Vasili Y, Moore R, McPhaul J, Javarayee P, Beekman R. **Asymmetric Pulses in a 5-Year-Old Asian Female: Is It Worth Further Investigations?** *Clin Pediatr (Phila)*. 2016; 55:192-95.
6. Alten JA, Rhodes LA, Tabbutt S, Cooper DS, Graham EM, Ghanayem N, Marino BS, Figueroa MI, Chanani NK, Jacobs JP, Donohue JE, Yu S, Gaies M. **Perioperative Feeding Management of Neonates with Chd: Analysis of the Pediatric Cardiac Critical Care Consortium (Pc4) Registry.** *Cardiol Young*. 2015; 25:1593-601.
7. Anand V, Kwiatkowski DM, Ghanayem NS, Axelrod DM, DiNardo J, Klugman D, Krishnamurthy G, Siehr S, Stromberg D, Yates AR, Roth SJ, Cooper DS. **Training Pathways in Pediatric Cardiac Intensive Care: Proceedings from the 10th International Conference of the Pediatric Cardiac Intensive Care Society.** *World J Pediatr Congenit Heart Surg*. 2016; 7:81-8.
8. Anderson J, Beekman R, Martin G, Lannon C. **Quality Improvement in Pediatric Cardiology: The National Pediatric Cardiology Quality Improvement Collaborative.** In: PR Barach, JP Jacobs, SE Lipshultz, PC Laussen, eds. *Pediatric and Congenital Cardiac Care: Volume 2: Quality Improvement and Patient Safety*. New York: Springer; 2015.
9. Anderson JB, Beekman RH. **Addressing Nutrition and Growth in Children with Congenital Heart Disease.** In: PR Barach, JP Jacobs, SE Lipshultz, PC Laussen, eds. *Pediatric and Congenital Cardiac Care: Volume 2: Quality Improvement and Patient Safety*. New York: Springer; 2015:153-64.
10. Anderson JB, Beekman RH, 3rd, Kugler JD, Rosenthal GL, Jenkins KJ, Klitzner TS, Martin GR, Neish SR, Brown DW, Mangeot C, King E, Peterson LE, Provost L, Lannon C, National Pediatric Cardiology Quality Improvement C. **Improvement in Interstage Survival in a National Pediatric Cardiology Learning Network.** *Circ Cardiovasc Qual Outcomes*. 2015; 8:428-36.
11. Anderson JB, Willis M, Lancaster H, Leonard K, Thomas C. **The Evaluation and Management of Pediatric Syncope.** *Pediatr Neurol*. 2016; 55:6-13.
12. Apers S, Kovacs AH, Luyckx K, Thomet C, Budts W, Enomoto J, Sluman MA, Wang JK, Jackson JL, Khairy P, Cook SC, Chidambarathanu S, Alday L, Eriksen K, Dellborg M, Berghammer M, Mattsson E, Mackie AS, Menahem S, Caruana M, et al. **Quality of Life of Adults with Congenital Heart Disease in 15 Countries: Evaluating Country-Specific Characteristics.** *J Am Coll Cardiol*. 2016; 67:2237-45.
13. Averin K, Michelfelder E, Sticka J, Cash M, Hirsch R. **Changes in Ventricular Geometry Predict Severity of Right Ventricular Hypertension.** *Pediatr Cardiol*. 2016; 37:575-81.
14. Averin K, Villa C, Krawczeski CD, Pratt J, King E, Jefferies JL, Nelson DP, Cooper DS, Ryan TD, Sawyer J, Towbin JA, Lorts A. **Initial Observations of the Effects of Calcium Chloride Infusions in Pediatric Patients with Low Cardiac Output.** *Pediatr Cardiol*. 2016; 37:610-7.
15. Bainbridge MN, Davis EE, Choi WY, Dickson A, Martinez HR, Wang M, Dinh H, Muzny DM, Pignatelli R, Katsanis N, Boerwinkle E, Gibbs RA, Jefferies JL. **Loss of Function Mutations in Nnt Are Associated with Left Ventricular Noncompaction.** *Circ Cardiovasc Genet*. 2015; 8:544-52.
16. Banerjee R, D'Souza G, Lee N, Taylor M. **Comparison of Pulmonary Arterial Wall Properties between a Congenital Heart Disease Patient and a Normal Subject Using in Vivo Pressure-Diameter Measurements: A Feasibility Study.** *Prog Pediatr Cardiol* 2016; 41:97-102.
17. Beekman III RH, Goldstein BH, Hirsch R, Whiteside W, Zampi J. **Transcatheter Therapies for Congenital Heart Disease.** In: EJ Topol, PS Teirstein, eds. *Textbook of Interventional Cardiology, Seventh Edition*. Philadelphia, PA: Elsevier Health Sciences; 2015:874-900.
18. Bernardo BC, Blaxall BC. **From Bench to Bedside: New Approaches to Therapeutic Discovery for Heart Failure.** *Heart Lung Circ*. 2016; 25:425-34.
19. Bhandary B, Robbins J. **Giving Credence to Controls: Avoiding the False Phenotype.** *J Mol Cell Cardiol*. 2015; 86:136-7.

20. Blume ED, Rosenthal DN, Rossano JW, Baldwin JT, Eghtesady P, Morales DL, Cantor RS, Conway J, Lorts A, Almond CS, Naftel DC, Kirklin JK, PediMACS Investigators. **Outcomes of Children Implanted with Ventricular Assist Devices in the United States: First Analysis of the Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs).** *J Heart Lung Transplant.* 2016; 35:578-84.
21. Bokma JP, Burchill LJ, Kovacs AH, Oechslin EN, Khairy P, Mulder BJ, Veldtman GR. **Fellows' Perspectives on Training in Adult Congenital Heart Disease: Results of a Survey from the International Society for Adult Congenital Heart Disease (Isachd).** *Int J Cardiol.* 2016; 202:253-5.
22. Brody M, Schips T, Vanhoutte D, Kanisicak O, Karch J, Maliken B, Blair N, Sargent M, Prasad V, Molkentin J. **Dissection of Thrombospondin-4 Domains Involved in Intracellular Adaptive Endoplasmic Reticulum Stress-Responsive Signaling.** *Mol Cell Biol.* 2016; 36:2-12.
23. Brown DW, Mangeot C, Anderson JB, Peterson LE, King EC, Lihn SL, Neish SR, Fleishman C, Phelps C, Hanke S, Beekman RH, Lannon CM, National Pediatric Cardiology Quality Improvement Collaborative. **Digoxin Use Is Associated with Reduced Interstage Mortality in Patients with No History of Arrhythmia after Stage I Palliation for Single Ventricle Heart Disease.** *J Am Heart Assoc.* 2016; 5.
24. Buelow MW, Earing MG, Hill GD, Cohen SB, Bartz PJ, Tweddell JS, Ginde S. **The Impact of Obesity on Postoperative Outcomes in Adults with Congenital Heart Disease Undergoing Pulmonary Valve Replacement.** *Congenit Heart Dis.* 2015; 10:E197-202.
25. Burchill LJ, Redington AN, Silversides CK, Ross HJ, Jimenez-Juan L, Mital S, Oechslin EN, Dragulescu A, Slorach C, Mertens L, Wald RM. **Renin-Angiotensin-Aldosterone System Genotype and Serum Bnp in a Contemporary Cohort of Adults Late after Fontan Palliation.** *Int J Cardiol.* 2015; 197:209-15.
26. Burkett DA, Slorach C, Patel SS, Redington AN, Ivy DD, Mertens L, Younoszai AK, Friedberg MK. **Left Ventricular Myocardial Function in Children with Pulmonary Hypertension: Relation to Right Ventricular Performance and Hemodynamics.** *Circ Cardiovasc Imaging.* 2015; 8.
27. Burr AR, Molkentin JD. **Genetic Evidence in the Mouse Solidifies the Calcium Hypothesis of Myofiber Death in Muscular Dystrophy.** *Cell Death Differ.* 2015; 22:1402-12.
28. Cai S, Rohailla S, Peng J, Zeng C, Li J, Redington A. **Loss of Tlr4 in a Murine Model of Left Anterior Descending Myocardial Infarction Modifies Early Remodeling, but Does Not Provide Long-Term Benefit.** *Int J Cardiol.* 2016; 212:118-20.
29. Campbell MJ, Czosek RJ, Hinton RB, Miller EM. **Exon 3 Deletion of Ryanodine Receptor Causes Left Ventricular Noncompaction, Worsening Catecholaminergic Polymorphic Ventricular Tachycardia, and Sudden Cardiac Arrest.** *Am J Med Genet A.* 2015; 167A:2197-200.
30. Campbell MJ, Zhou X, Han C, Abrishami H, Webster G, Miyake CY, Knilans TK, Czosek RJ. **Electrocardiography Screening for Hypertrophic Cardiomyopathy.** *Pacing Clin Electrophysiol.* 2016; 39:944-50.
31. Castleberry C, Zafar F, Thomas T, Khan M, Bryant R, Chin C, Morales D, Lorts A. **Allosensitization Does Not Alter Post-Transplant Outcomes in Pediatric Patients Bridged to Transplant with a Ventricular Assist Device.** *Pediatr Transplant.* 2016; 20:559-64.
32. Castleberry CD, Zafar F, Dipchand AI, Edwards L, Chin C. **Early Initiation of Mtor Inhibitors in Children with Heart Transplantation: A Propensity-Based Registry Analysis.** *J Heart Lung Transplant.* 2016; 35:253-5.
33. Chaouki AS, Czosek RJ, Spar DS. **Missing Link: Extrusion of a New-Generation Implantable Loop Recorder in a Child.** *Cardiol Young.* 2016; 26:1445-7.
34. Chen CK, Cifra B, Morgan GJ, Sarkola T, Slorach C, Wei H, Bradley TJ, Manlhiot C, McCrindle BW, Redington AN, Benson LN, Mertens L. **Left Ventricular Myocardial and Hemodynamic Response to Exercise in Young Patients after Endovascular Stenting for Aortic Coarctation.** *J Am Soc Echocardiogr.* 2016; 29:237-46.

35. Chen W, Li S, Fernandez C, Sun D, Lai C-C, Zhang T, Bazzano L, Urbina E, Deng H-W. **Temporal Relationship between Elevated Blood Pressure and Arterial Stiffening among Middle-Aged Black and White Adults.** *Am J Epidemiol.* 2016; 183:599-608.
36. Clauss S, Anderson J, Lannon C, Lihn S, Beekman R, Kugler J, Martin G. **Quality Improvement through Collaboration: The National Pediatric Quality Improvement Collaborative Initiative.** *Curr Opin Pediatr.* 2015; 27:555-62.
37. Conway J, VanderPluym C, Jeewa A, Sinnadurai S, Schubert A, Lorts A. **Now How Do We Get Them Home? Outpatient Care of Pediatric Patients on Mechanical Circulatory Support.** *Pediatr Transplant.* 2016; 20:194-202.
38. Cooper D, Morales D, Corral M, Paden M, Thiagarajan R. **Databases for Extracorporeal Membrane Oxygenation and Ventricular Assist Devices.** In: PR Barach, JP Jacobs, SE Lipshultz, PC Laussen, eds. *Pediatric and Congenital Cardiac Care: Volume 1: Outcomes Analysis.* New York: Springer; 2015:211-18.
39. Cooper DS, Basu RK, Price JF, Goldstein SL, Krawczeski CD. **The Kidney in Critical Cardiac Disease: Proceedings from the 10th International Conference of the Pediatric Cardiac Intensive Care Society.** *World J Pediatr Congenit Heart Surg.* 2016; 7:152-63.
40. Cooper DS, Claes D, Goldstein SL, Bennett MR, Ma Q, Devarajan P, Krawczeski CD. **Follow-up Renal Assessment of Injury Long-Term after Acute Kidney Injury (Frail-Aki).** *Clin J Am Soc Nephrol.* 2016; 11:21-9.
41. Cooper DS, Jacobs ML. **The Art and Science of Pediatric Cardiac Care: A Team Sport.** *World J Pediatr Congenit Heart Surg.* 2015; 6:495.
42. Cooper DS, Klugman D, Kinstler AJ, Nelson DP, Muething S. **The Cardiac Intensive Care Unit and Operating Room Continuum: Quality and Safety in the Cardiac Intensive Care Unit.** In: PR Barach, JP Jacobs, SE Lipshultz, PC Laussen, eds. *Pediatric and Congenital Cardiac Care: Volume 2: Quality Improvement and Patient Safety.* New York: Springer; 2015:91-104.
43. Correll R, Goonasekera S, van Berlo J, Burr A, Accornero F, Zhang H, Makarewich C, York A, Sargent M, Chen X. **Stim1 Elevation in the Heart Results in Aberrant Ca²⁺ Handling and Cardiomyopathy.** *J Mol Cell Cardiol.* 2015; 87:38-47.
44. Czosek RJ, Anderson JB. **Congenital Heart Disease and the Cost of Mortality.** *Open Heart.* 2016; 3:e000448.
45. Czosek RJ, Jefferies JL, Khoury PR, Anderson JB, Wilmot I, Knilans TK, Spar DS. **Arrhythmic Burden and Ambulatory Monitoring of Pediatric Patients with Cardiomyopathy.** *Pacing Clin Electrophysiol.* 2016; 39:443-51.
46. Czosek RJ, Kaltman JR, Cassidy AE, Shah MJ, Vetter VL, Tanel RE, Wernovksy G, Wray J, Marino BS. **Quality of Life of Pediatric Patients with Long Qt Syndrome.** *Am J Cardiol.* 2016; 117:605-10.
47. Czosek RJ, Spar DS, Anderson JB, Knilans TK, Marino BS. **Cardiac Conduction, Dysrhythmias, and Pacing.** In: DH Shaffner, DG Nichols, eds. *Rogers' Textbook of Pediatric Intensive Care, Fifth Edition.* Lippincott Williams & Wilkins: Philadelphia PA; 2015:1214-40.
48. D'Aniello E, Ravisankar P, Waxman JS. **Rdh10a Provides a Conserved Critical Step in the Synthesis of Retinoic Acid During Zebrafish Embryogenesis.** *PLoS One.* 2015; 10:e0138588.
49. Danon S, Gray R, Crystal M, Morgan G, Gruenstein D, Goldstein B, Gordon B. **Expansion Characteristics of Stents Used in Congenital Heart Disease: Serial Dilation Offers Improved Expansion Potential Compared to Direct Dilation: Results from a Pediatric Interventional Cardiology Early Career Society (Pices) Investigation.** *Congenit Heart Dis.* 2016.
50. Davis J, Davis LC, Correll RN, Makarewich CA, Schwanekamp JA, Moussavi-Harami F, Wang D, York AJ, Wu H, Houser SR, Seidman CE, Seidman JG, Regnier M, Metzger JM, Wu JC, Molkenin JD. **A Tension-Based Model Distinguishes Hypertrophic Versus Dilated Cardiomyopathy.** *Cell.* 2016; 165:1147-59.
51. Davis J, Salomonis N, Ghearing N, Lin SC, Kwong JQ, Mohan A, Swanson MS, Molkenin JD. **Mbnl1-Mediated Regulation of Differentiation Rnas Promotes Myofibroblast Transformation and the Fibrotic Response.** *Nat Commun.* 2015; 6:10084.

52. Devarajan P, Jefferies JL. **Progression of Chronic Kidney Disease after Acute Kidney Injury.** *Prog Pediatr Cardiol.* 2016; 41:33-40.
53. Divanovic A, Bowers K, Michelfelder E, Jaekle R, Newman T, Marcotte M, Habli M, Cnota JF. **Intrauterine Fetal Demise after Prenatal Diagnosis of Congenital Heart Disease: Assessment of Risk.** *Prenat Diagn.* 2016; 36:142-7.
54. Djouadi F, Habarou F, Le Bachelier C, Ferdinandusse S, Schlemmer D, Benoist JF, Boutron A, Andresen BS, Visser G, de Lonlay P, Olpin S, Fukao T, Yamaguchi S, Strauss AW, Wanders RJ, Bastin J. **Mitochondrial Trifunctional Protein Deficiency in Human Cultured Fibroblasts: Effects of Bezafibrate.** *J Inherit Metab Dis.* 2016; 39:47-58.
55. Drogalis-Kim D, Jefferies J, Wilmot I, Alejos J. **Right Sided Heart Failure and Pulmonary Hypertension: New Insights into Disease Mechanisms and Treatment Modalities.** *Prog Pediatr Cardiol.* 2016.
56. Elderie A, Reddy A, Zafar F, Hirsch R, Morales DL. **Ventricular Septal Defect Creation: A Viable Option to Decompress a Large Nonsystemic Left Ventricle in a Fontan Patient.** *World J Pediatr Congenit Heart Surg.* 2016.
57. Fang M, Xiang FL, Braitsch CM, Yutzey KE. **Epicardium-Derived Fibroblasts in Heart Development and Disease.** *J Mol Cell Cardiol.* 2016; 91:23-7.
58. Floh AA, Manlihot C, Redington AN, McCrindle BW, Clarizia NA, Caldarone CA, Schwartz SM. **Insulin Resistance and Inflammation Are a Cause of Hyperglycemia after Pediatric Cardiopulmonary Bypass Surgery.** *J Thorac Cardiovasc Surg.* 2015; 150:498-504 e1.
59. Flores S, Daily J, Pratap JN, Cash MC, Hirsch R. **Management of a Child with Pulmonary Arterial Hypertension Presenting with Systemic Hypertension.** *Cardiol Young.* 2016; 26:378-81.
60. Flores S, Moore RA, Statile CJ, Michelfelder EC, Wanstrath SG, Knilans TK, Morales DL, Cooper DS. **Critical Care for Patients with Congenital Abnormalities of the Coronary Arteries.** *Cardiol Young.* 2015; 25:1561-6.
61. Ford MA, Gauvreau K, McMullan DM, Almodovar MC, Cooper DS, Rycus PT, Thiagarajan R. **Factors Associated with Mortality in Neonates Requiring Extracorporeal Membrane Oxygenation for Cardiac Indications: Analysis of the Extracorporeal Life Support Organization Registry Data.** *Pediatr Crit Care Med.* 2016; 17:860-70.
62. Foster BJ, Khoury PR, Kimball TR, Mackie AS, Mitsnefes M. **New Reference Centiles for Left Ventricular Mass Relative to Lean Body Mass in Children.** *J Am Soc Echocardiogr.* 2016; 29:441-47 e2.
63. Gaies M, Tabbutt S, Schwartz SM, Bird GL, Alten JA, Shekerdemian LS, Klugman D, Thiagarajan RR, Gaynor JW, Jacobs JP, Nicolson SC, Donohue JE, Yu S, Pasquali SK, Cooper DS. **Clinical Epidemiology of Extubation Failure in the Pediatric Cardiac Icu: A Report from the Pediatric Cardiac Critical Care Consortium.** *Pediatr Crit Care Med.* 2015; 16:837-45.
64. Gainutdinov T, Molkentin JD, Siemen D, Ziemer M, Debska-Vielhaber G, Vielhaber S, Gizatullina Z, Orynbayeva Z, Gellerich FN. **Knockout of Cyclophilin D in Ppif(-)/(-) Mice Increases Stability of Brain Mitochondria against Ca(2)(+) Stress.** *Arch Biochem Biophys.* 2015; 579:40-6.
65. Gamliel A, Ziv-Baran T, Siegel R, Fogelman Y, Dubnov-Raz G. **Using Weight-for-Age Percentiles to Screen for Overweight and Obese Children and Adolescents.** *Prev Med.* 2015; 81:174-79.
66. Gao Z, Khoury P, Mccoy C, Shah A, Kimball T, Dolan L, Urbina E. **Adiposity Has No Direct Effect on Carotid Intima-Media Thickness in Adolescents and Young Adults: Use of Structural Equation Modeling to Elucidate Indirect & Direct Pathways.** *Atherosclerosis.* 2016; 246:29-35.
67. Giglia TM, Witmer C, Procaccini DE, Byrnes JW. **Pediatric Cardiac Intensive Care Society 2014 Consensus Statement: Pharmacotherapies in Cardiac Critical Care Anticoagulation and Thrombolysis.** *Pediatr Crit Care Med.* 2016; 17:S77-88.
68. Gilliland J, Donnellan A, Justice L, Moake L, Mauney J, Steadman P, Drapjuch D, Tucker D, Storey J, Roth SJ, Koch J, Checchia P, Cooper DS, Staveski SL. **Establishment of Pediatric Cardiac Intensive Care Advanced Practice Provider Services.** *World J*

Pediatr Congenit Heart Surg. 2016; 7:72-80.

69. Goldstein BH, Holzer RJ, Trucco SM, Porras D, Murphy J, Foerster SR, El-Said HG, Beekman RH, 3rd, Bergersen L. **Practice Variation in Single-Ventricle Patients Undergoing Elective Cardiac Catheterization: A Report from the Congenital Cardiac Catheterization Project on Outcomes (C3po).** *Congenit Heart Dis.* 2016; 11:122-35.
70. Gomez-Stallons MV, Wirrig-Schwendeman EE, Hassel KR, Conway SJ, Yutzey KE. **Bone Morphogenetic Protein Signaling Is Required for Aortic Valve Calcification.** *Arterioscler Thromb Vasc Biol.* 2016; 36:1398-405.
71. Guerrier K, Kwiatkowski D, Czosek RJ, Spar DS, Anderson JB, Knilans TK. **Short Qt Interval Prevalence and Clinical Outcomes in a Pediatric Population.** *Circ Arrhythm Electrophysiol.* 2015; 8:1460-4.
72. Guerrier K, Madueme PC, Jefferies JL, Anderson JB, Spar DS, Knilans TK, Czosek RJ. **Unexpectedly Low Left Ventricular Voltage on Ecg in Hypertrophic Cardiomyopathy.** *Heart.* 2016; 102:292-7.
73. Guerrier K, Mitan L, Wang Y, Czosek RJ. **Risk for Prolonged Qt Interval and Associated Outcomes in Children with Early Restrictive Eating Patterns.** *Cardiol Young.* 2016; 26:644-9.
74. Guerrier K, Shamszad P, Czosek RJ, Spar DS, Knilans TK, Anderson JB. **Variation in Antiarrhythmic Management of Infants Hospitalized with Supraventricular Tachycardia: A Multi-Institutional Analysis.** *Pediatr Cardiol.* 2016; 37:946-52.
75. Gupta MK, McLendon PM, Gulick J, James J, Khalili K, Robbins J. **Ubc9-Mediated Sumoylation Favorably Impacts Cardiac Function in Compromised Hearts.** *Circ Res.* 2016; 118:1894-905.
76. Guzman-Pruneda FA, Orr Y, Trost JG, Zhang W, Das S, Melicoff E, Maddox J, Nugent M, Mery CM, Adachi I, Schechter MG, Mallory GB, Morales DL, Heinle JS, McKenzie ED. **Bronchial Artery Revascularization and En Bloc Lung Transplant in Children.** *J Heart Lung Transplant.* 2016; 35:122-9.
77. Hahn E, Szawast A, Li J, Levine J, Fifer C, Jaeggi E, Andrews H, Williams I. **Association between Fetal Growth, Cerebral Blood Flow and Neurodevelopmental Outcome in Univentricular Fetuses.** *Ultrasound Obst Gyn.* 2016; 47:460-65.
78. Hehir DA, Easley RB, Byrnes J. **Noncardiac Challenges in the Cardiac Icu: Feeding, Growth and Gastrointestinal Complications, Anticoagulation, and Analgesia.** *World J Pediatr Congenit Heart Surg.* 2016; 7:199-209.
79. Heiberg J, Redington A, Hjortdal V. **Exercise Capacity and Cardiac Function after Surgical Closure of Ventricular Septal Defect - Is There Unrecognized Long-Term Morbidity?** *Int J Cardiol.* 2015; 201:590-94.
80. Heiberg J, Redington A, Hjortdal VE. **Postoperative Right Bundle Branch Block after Closure of Ventricular Septal Defect Predicts Lower Peak Heart Rate in Adulthood.** *Int J Cardiol.* 2016; 204:40-1.
81. Heydarian H, Kimball T. **Echocardiography: Basic Principles and Imaging.** In: H Allen, Shaddy, RE, D Penny, T Feltes, F Cetta, eds. *Moss and Adams' Heart Disease in Infants, Children, and Adolescents: Including the Fetus and Young Adult: Ninth Edition.* Philadelphia PA: Lippincott Williams & Wilkins; 2016:303-38.
82. Hoffman GM, Brosig CL, Bear LM, Tweddell JS, Mussatto KA. **Effect of Intercurrent Operation and Cerebral Oxygenation on Developmental Trajectory in Congenital Heart Disease.** *Ann Thorac Surg.* 2016; 101:708-16.
83. Hopkin RJ, Jefferies JL, Laney DA, Lawson VH, Mauer M, Taylor MR, Wilcox WR, Fabry Pediatric Expert Panel. **The Management and Treatment of Children with Fabry Disease: A United States-Based Perspective.** *Mol Genet Metab.* 2016; 117:104-13.
84. Huby AC, Turdi S, James J, Towbin JA, Purevjav E. **Fasl Expression in Cardiomyocytes Activates the Erk1/2 Pathway, Leading to Dilated Cardiomyopathy and Advanced Heart Failure.** *Clin Sci (Lond).* 2016; 130:289-99.
85. Iliopoulos I, Branco RG, Brinkhuis N, Furck A, LaRovere J, Cooper DS, Pathan N. **Mesenteric near-Infrared Spectroscopy and Risk of Gastrointestinal Complications in Infants Undergoing Surgery for Congenital Heart Disease.** *Cardiol Young.* 2016; 26:772-80.

86. Iliopoulos I, Nelson D. **Cardiopulmonary Interactions in Adults and Children with Congenital Heart Disease.** *Prog Pediatr Cardiol.* 2015; 39:151-56.
87. Jacobs J, Wernovsky G, Cooper D, Karl T. **Principles of Shared Decision-Making within Teams.** *Cardiol Young.* 2015; 25:1631-36.
88. Jacobs JP, Mayer JE, Jr., Mavroudis C, O'Brien SM, Austin EH, 3rd, Pasquali SK, Hill KD, He X, Overman DM, St Louis JD, Karamlou T, Pizarro C, Hirsch-Romano JC, McDonald D, Han JM, Dokholyan RS, Tchervenkov CI, Lacour-Gayet F, Backer CL, Fraser CD, et al. **The Society of Thoracic Surgeons Congenital Heart Surgery Database: 2016 Update on Outcomes and Quality.** *Ann Thorac Surg.* 2016; 101:850-62.
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90. James J, Robbins J. **Healing a Heart through Genetic Intervention.** *Circ Res.* 2016; 118:920-2.
91. James J, Robbins J. **Bringing It All Together: Bedside to Bench and Back Again.** *Circ Res.* 2015; 117:987-9.
92. Jeewa A, Chin C, Pahl E, Atz AM, Carboni MP, Pruitt E, Naftel DC, Rodriguez R, Dipchand AI, Pediatric Heart Transplant Study Investigators. **Outcomes after Percutaneous Coronary Artery Revascularization Procedures for Cardiac Allograft Vasculopathy in Pediatric Heart Transplant Recipients: A Multi-Institutional Study.** *J Heart Lung Transplant.* 2015; 34:1163-8.
93. Jefferies JL, Devarajan P. **Early Detection of Acute Kidney Injury after Pediatric Cardiac Surgery.** *Prog Pediatr Cardiol.* 2016; 41:9-16.
94. Jefferies JL, Webb GD, Towbin JA. **Heart Failure in Achd Patients.** In: CJ Daniels, AN Zaidi, eds. *Pediatric and Congenital Cardiac Care: Volume 2: Quality Improvement and Patient Safety.* New York: McGraw Hill Professional; 2015:51-68.
95. Jefferies JL, Wilkinson JD, Sleeper LA, Colan SD, Lu M, Pahl E, Kantor PF, Everitt MD, Webber SA, Kaufman BD, Lamour JM, Canter CE, Hsu DT, Addonizio LJ, Lipshultz SE, Towbin JA, Pediatric Cardiomyopathy Registry Investigators. **Cardiomyopathy Phenotypes and Outcomes for Children with Left Ventricular Myocardial Noncompaction: Results from the Pediatric Cardiomyopathy Registry.** *J Card Fail.* 2015; 21:877-84.
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97. Jin S, Orabi AI, Le T, Javed TA, Sah S, Eisses JF, Bottino R, Molkentin JD, Husain SZ. **Exposure to Radiocontrast Agents Induces Pancreatic Inflammation by Activation of Nuclear Factor-Kappab, Calcium Signaling, and Calcineurin.** *Gastroenterology.* 2015; 149:753-64 e11.
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