

Cardiology

Division Details

RESEARCH AND TRAINING DETAILS

Faculty	43
Joint Appointment Faculty	2
Research Fellows and Post Docs	2
Total Annual Grant Award Dollars	\$4,702,018
Total Annual Industry Award Dollars	\$814,094

CLINICAL ACTIVITIES AND TRAINING

Staff Physicians	2
Clinical Fellows	22
Inpatient Encounters	18,473
Outpatient Encounters	968

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Division Publications

1. Kaddourah A; Basu RK; Bagshaw SM; Goldstein SL; Investigators AWARE. **Epidemiology of Acute Kidney Injury in Critically Ill Children and Young Adults.** *The New England journal of medicine.* 2017; 376:11-20.
2. Urbina EM; de Ferranti SD. **Lipid Screening in Children and Adolescents.** *Journal of the American Medical Association.* 2016; 316:589-591.
3. Chowdhury D; Gurvitz M; Marelli A; Anderson J; Baker-Smith C; Diab KA; Edwards TC; Hougen T; Jedeikin R; Johnson JN. **Development of Quality Metrics in Ambulatory Pediatric Cardiology.** *Journal of the American College of Cardiology.* 2017; 69:541-555.
4. Taylor MD; Towbin JA. **The Significant Arrhythmia and Cardiomyopathy Burden of Lamin A/C Mutations.** *Journal of the American College of Cardiology.* 2016; 68:2308-2310.
5. Leisner MZ; Madsen NL; Ostergaard JR; Woo JG; Marino BS; Olsen MS. **Congenital Heart Defects and Risk of Epilepsy A Population-Based Cohort Study.** *Circulation.* 2016; 134:1689-1691.

6. Steinberger J; Daniels SR; Hagberg N; Isasi CR; Kelly AS; Lloyd-Jones D; Pate RR; Pratt C; Shay CM; Towbin JA. **Cardiovascular Health Promotion in Children: Challenges and Opportunities for 2020 and Beyond A Scientific Statement From the American Heart Association.** *Circulation.* 2016; 134:e236-e255.
7. Zhang H; Zhang T; Li S; Guo Y; Shen W; Fernandez C; Harville E; Bazzano LA; Urbina EM; He J. **Long-Term Excessive Body Weight and Adult Left Ventricular Hypertrophy Are Linked Through Later-Life Body Size and Blood Pressure The Bogalusa Heart Study.** *Circulation Research.* 2017; 120:1614-1621.
8. Burchill LJ; Huang J; Tretter JT; Khan AM; Crean AM; Veldtman GR; Kaul S; Broberg CS. **Noninvasive Imaging in Adult Congenital Heart Disease.** *Circulation Research.* 2017; 120:995-1014.
9. Kwiatkowski DM; Goldstein SL; Cooper DS; Nelson DP; Morales DLS; Krawczeski CD. **Peritoneal Dialysis vs Furosemide for Prevention of Fluid Overload in Infants After Cardiac Surgery A Randomized Clinical Trial.** *JAMA Pediatrics.* 2017; 171:357-364.
10. Bakeer N; James J; Roy S; Wansapura J; Shanmukhappa SK; Lorenz JN; Osinska H; Backer K; Huby AC; Shrestha A. **Sickle cell anemia mice develop a unique cardiomyopathy with restrictive physiology.** *Proceedings of the National Academy of Sciences of the United States of America.* 2016; 113:E5182-E5191.
11. Westbrook TC; Morales DLS; Khan MS; Bryant R; Castleberry C; Chin C; Zafar F. **Interaction of older donor age and survival after weight-matched pediatric heart transplantation.** *Journal of Heart and Lung Transplantation.* 2017; 36:554-558.
12. Rossano JW; Jefferies JL; Pahl E; Naftel DC; Pruitt E; Lupton K; Dreyer WJ; Chinnock R; Boyle G; Mahle WT. **Use of sirolimus in pediatric heart transplant patients: A multi-institutional study from the Pediatric Heart Transplant Study Group.** *Journal of Heart and Lung Transplantation.* 2017; 36:427-433.
13. Zafar F; Villa CR; Morales DL; Blume ED; Rosenthal DN; Kirklin JK; Lorts A. **Does Small Size Matter With Continuous Flow Devices? Analysis of the INTERMACS Database of Adults With BSA \leq 1.5 m²).** *JACC: Heart Failure.* 2017; 5:123-131.
14. Rusconi P; Wilkinson JD; Sleeper LA; Lu M; Cox GF; Towbin JA; Colan SD; Webber SA; Canter CE; Ware SM. **Differences in Presentation and Outcomes Between Children With Familial Dilated Cardiomyopathy and Children With Idiopathic Dilated Cardiomyopathy A Report From the Pediatric Cardiomyopathy Registry Study Group.** *Circulation: Heart Failure.* 2017; 10:e002637.
15. Brady TM; Townsend K; Schneider MF; Cox C; Kimball T; Madueme P; Warady B; Furth S; Mitsnefes M. **Cystatin C and Cardiac Measures in Children and Adolescents With CKD.** *American Journal of Kidney Diseases.* 2017; 69:247-256.
16. Hausenloy DJ; Barrabes JA; Bøtker HE; Davidson SM; Di Lisa F; Downey J; Engstrom T; Ferdinandy P; Carbrera-Fuentes HA; Heusch G. **Ischaemic conditioning and targeting reperfusion injury: a 30 year voyage of discovery.** *Basic Research in Cardiology.* 2016; 111:70.
17. Bell RM; Bøtker HE; Carr RD; Davidson SM; Downey JM; Dutka DP; Heusch G; Ibanez B; Macallister R; Stoppe C. **9th Hatter Biannual Meeting: position document on ischaemia/reperfusion injury, conditioning and the ten commandments of cardioprotection.** *Basic Research in Cardiology.* 2016; 111:41.
18. Burkett DA; Slorach C; Patel SS; Redington AN; Ivy DD; Mertens L; Younoszai AK; Friedberg MK. **Impact of Pulmonary Hemodynamics and Ventricular Interdependence on Left Ventricular Diastolic Function in Children With Pulmonary Hypertension** **CLINICAL PERSPECTIVE.** *Circulation: Cardiovascular Imaging.* 2016; 9:e004612.
19. Petit CJ; Glatz AC; Qureshi AM; Sachdeva R; Maskatia SA; Justino H; Goldberg DJ; Mozumdar N; Whiteside W; Rogers LS. **Outcomes After Decompression of the Right Ventricle in Infants With Pulmonary Atresia With Intact Ventricular Septum Are Associated With Degree of Tricuspid Regurgitation: Results From the Congenital Catheterization Research Collaborative.** *Circulation: Cardiovascular Interventions.* 2017; 10:e004428.
20. Alsaied T; Bokma JP; Engel ME; Kuijpers JM; Hanke SP; Zuhlke L; Zhang B; Veldtman GR. **Factors associated with long-term mortality after Fontan procedures: a systematic review.** *Heart.* 2017; 103:104-110.

21. Averin K; Hirsch R; Seckeler MD; Whiteside W; III BRH; Goldstein BH. **Diagnosis of occult diastolic dysfunction late after the Fontan procedure using a rapid volume expansion technique.** *Heart*. 2016; 102:1109-1114.
22. Mathew J; Villa CR; Morales D; Chin C; Zafar F; Rossano J; Lake M; Lorts A. **Favorable Waitlist and Posttransplant Outcomes in Children and Adolescent Patients Supported With Durable Continuous-Flow Ventricular Assist Devices.** *American Journal of Transplantation*. 2016; 16:2352-2359.
23. Anderson JB; Willis MW. **Differentiating Between Postural Tachycardia Syndrome and Vasovagal Syncope.** *Pediatrics*. 2017; 139:e20164161.
24. Goldstein BH; Urbina EM; Khoury PR; Gao Z; Amos MA; Mays WA; Redington AN; Marino BS. **Endothelial Function and Arterial Stiffness Relate to Functional Outcomes in Adolescent and Young Adult Fontan Survivors.** *Journal of the American Heart Association : Cardiovascular and Cerebrovascular Disease*. 2016; 5:e004258.
25. Madsen NL; Marino BS; Woo JG; Thomsen RW; Videboek J; Laursen HB; Olsen M. **Congenital Heart Disease With and Without Cyanotic Potential and the Long-term Risk of Diabetes Mellitus: A Population-Based Follow-up Study.** *Journal of the American Heart Association : Cardiovascular and Cerebrovascular Disease*. 2016; 5:e003076.

Grants, Contracts, and Industry Agreements

Annual Grant Award Dollars

Investigator	Title	Sponsor	ID	Dates	Amount
Elaine Urbina, MD	Search Nutrition Ancillary Study 2	National Institutes of Health (University of Cincinnati)	R01 DK077949	04/15/2014 - 03/31/2018	\$17,734
Elaine Urbina, MD	Pediatric HIV/AIDS Cohort Study (PHACS 3)	National Institutes of Health (Tulane University)	U01 HD052104	08/01/2015 - 07/31/2020	\$20,037
John Lynn Jefferies, MD	Cardiac Biomarkers in Pediatric Cardiomyopathy_Per Patient	National Institutes of Health (Wayne State University)	R01 HL109090	07/16/2014 - 06/30/2017	\$15,100
Bryan H Goldstein, MD	Do Serum Biochemical and Hematopoietic and Stool Biomarkers Predict Low Cardiac Index in Patients with Fontan Physiology?	Children's Heart Foundation (Lurie Children's Hospital of Chicago)	925507	01/01/2015 - 12/31/2017	\$6,500
Elaine Urbina, MD	TODAY2 Phase 2 (T2P2): Long-Term Post-Intervention Follow-Up	National Institutes of Health (George Washington University)	U01 DK061230	08/01/2016 - 04/30/2021	\$24,734
James F Cnota, MD	Pediatric Heart Network Prairieland Consortium	National Institutes of Health	UG1 HL135678	01/01/2017 - 12/31/2023	\$357,200
Elaine Urbina, MD	NYU Pediatric Obesity, Metabolism and Kidney Cohort Center	Office of the Director (NYU Sponsored Programs Administration)	UG3 OD023305	09/21/2016 - 08/31/2023	\$9,025
James F Cnota, MD	SVR III: Brain Connectome	Society of Pediatric	SPR PILOT	08/01/2016	\$11,488

	and Neurodevelopmental Outcomes	Radiology (University of Pittsburgh)	GRANT	-	07/31/2017	
Jeffrey A Towbin, MD	Genetics, Mechanisms and Clinical Phenotypes of Arrhythmogenic Cardiomyopathy	National Institutes of Health	R01 HL116906	07/01/2016	\$2,356,223	- 06/30/2018
Gruschen Veldtman, MD	TRPV2 Agonism for Improved Cardiac Function in Patients with Single Ventricle Physiology	American Heart Association - National (University of Cincinnati)	17GRNT33400014	01/01/2017	\$70,154	- 12/31/2018
Bryan H Goldstein, MD	Fontan Udenafil Exercise Longitudinal Assessment Trial	National Institutes of Health (New England Research Institutes)	U10 HL068270	07/05/2016	\$153,500	- 07/04/2017
Bryan H Goldstein, MD	Fontan Udenafil Exercise Longitudinal Assessment Trial (FUEL)	National Institutes of Health (New England Research Institutes)	U10 HL068270	07/05/2016	\$14,687	- 07/04/2017
Hunter C Wilson, MD	Characterization of the Early Cardiac Phenotype in Anderson-Fabry Disease	American Academy of Pediatrics	Wilson, Hunter - AAP	07/01/2016	\$3,000	- 06/30/2017
Richard J Czosek, MD	Defibrillation Testing at the Time of Cardioverter Defibrillation Implantation in Pediatric and Congenital Heart Disease Patients	The Hospital for Sick Children	Czosek, Rich, HSC	01/30/2016	\$650	- 11/01/2017
Elaine Urbina, MD	Fontan Udenafil Exercise Longitudinal Assessment Trial (FUEL) and FUEL Open Label Extension (FUEL OLE)	National Institutes of Health (New England Research Institutes)	U10 HL068270	09/01/2015	\$25,029	- 06/30/2017
Bryan H Goldstein, MD	A Phase III Safety Extension Study of Udenafil in Adolescents with Single Ventricle Physiology after Fontan Palliation (FUEL Extension)	National Institutes of Health (New England Research Institutes)	Goldstein_FUEL Exten	01/27/2017	\$277,063	- 01/26/2018
Bryan H Goldstein, MD	A Phase III Safety Extension Study of Udenafil in Adolescents with Single Ventricle Physiology after Fontan Palliation (FUEL Extension)	National Institutes of Health (New England Research Institutes)	Goldstein_FUEL Exten	01/27/2017	\$14,687	- 01/26/2018
Kathleen E Ash	Perceptions of Participation in a Pediatric Research Study The FUEL and FUEL OLE Trials	National Institutes of Health (New England Research Institutes)	Ash-FUEL OLE	01/27/2017	\$4,250	- 01/26/2018

Jessica G Woo, PhD	Childhood CV Risk and Adult	National Institutes of Health	R01 HL121230	12/01/2014	\$1,320,957
Elaine Urbina, MD	CVD Outcomes: an International Long-term Follow- up			- 11/30/2019	

Total Annual Grant Award Dollars

\$4,702,018

Annual Industry Award Dollars

Investigator	Industry Sponsor	Amount
Bryan H Goldstein, MD	Edwards Lifesciences Corp.	\$100,575
Bryan H Goldstein, MD	W. L. Gore & Associates, Inc.	\$21,700
David Seth Cooper, MD, MPH	Prolacta Bioscience Inc.	\$65,570
Gruschen Veldtman, MD	United Therapeutics Corporation	\$30,000
Haleh C Heydarian, MD	Janssen Research & Development, LLC	\$55,021
James F Cnota, MD	Bristol -Myers Squibb	\$65,784
John Lynn Jefferies, MD	Novartis Pharmaceuticals	\$14,592
John Lynn Jefferies, MD	Sarepta Therapeutics Headquarters	\$386,427
Russel Hirsch, MD	GE Healthcare	\$68,400
Russel Hirsch, MD	St Jude Medical Inc (MN)	\$6,025
Total Annual Industry Award Dollars		\$814,094
