Lediatric Pediatric



An Update From the Heart Institute at UPMC Children's Hospital of Pittsburgh

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UPMC Children's Hospital of Pittsburgh is affiliated with the University of Pittsburgh School of Medicine and nationally ranked in nine clinical specialties by U.S. News & World Report.



Clinical Trials Update

The Heart Institute at UPMC Children's Hospital of Pittsburgh is engaged in some of the most cutting-edge research and clinical trials in the fields of pediatric cardiology and cardiothoracic surgery. Below are summaries of several important open trials, for which patients are currently being recruited, that hold promise for evolving aspects of cardiac care.

Compassion XT Clinical Trial



Site Principal Investigator: Jacqueline Kreutzer, MD, FAAC, FSCAI

The Heart Institute at UPMC Children's Hospital of Pittsburgh is a participating site in the Edwards Lifesciences SAPIEN XT Transcatheter Heart Valve System clinical trial. This prospective multicenter investigation is designed to examine the safety and efficacy of the valve in patients who have dysfunctional right ventricular outflow tract conduits, and who are in need of treatment for pulmonary regurgitation as

evidenced by positive transthoracic echocardiograph results.

At the time of writing, UPMC Children's was one of the top enrolling sites for the study, with five patients enrolled to date.

As a corollary to the study, UPMC Children's recently reached a procedural milestone with its 100th percutaneous pulmonary valve implant in a young patient in October 2018. "Our ongoing successes with these procedures are a testament to the skills and devotion of our entire staff at the Heart Institute," says Dr. Kreutzer.



HEART SURGER

XPLORE2 Study



Site Principal Investigator: Victor Morell, MD

UPMC Children's Hospital of Pittsburgh is one of eight centers participating in a national, multicenter trial sponsored by Xeltis. The Xeltis Bioabsorbable Pulmonary Valved Conduit Early Feasibility Study (Xplore2) is a single-arm, prospective, open label study designed to determine the efficacy of the Xeltis Bioabsorbable Pulmonary Valved Conduit in patients who are in need of right ventricular outflow tract correction, or those who

are in need of reconstruction due to a congenital heart malformation. Some of the congenital conditions that may be candidates for the device are Tetralogy of Fallot, pulmonary atresia, truncus arteriosus, and others.

Heart Institute News and Notes

- Five faculty members from the Heart Institute's cardiology group received the Department of Pediatrics Chair's Distinction Award: Gaurav Arora, MD; Mousumi Moulik, MBBS; Lan Nguyen, MD; Sara Trucco, MD; Shawn West, MD, Msc.
- Allison Black, MD, pediatric cardiology fellow was appointed as chair-elect for the American Academy of Pediatrics (AAP) Section on Pediatric Trainees.
- On January 18, UPMC Children's and the Heart Institute played host to the 27th American Heart Association Fellows Research Day. Chairing the 2019 event was
 Bernhard Kuhn, MD, Scholar, Richard King Mellon Foundation Institute for Pediatric Research, and associate professor and director of Research in Cardiology, Department of Pediatrics, University of Pittsburgh School of Medicine.
- Gaurav Arora, MD, and Mira Trivedi, MD, published a case report in *Cardiology in the Young* at Cambridge.org/cty under the title "Prophylactic Pacemaker Placement at First Signs of Conduction Disease in Kearns-Sayre Syndrome."
- Pediatric cardiology fellow Defne Magnetta, MD, presented at the AHA Scientific Sessions 2018 on the topic of Waitlist Characteristics and Outcomes Following the 2016 Revision of United States Pediatric Heart Allocation Policy.

CICU Expansion Nears Completion

The Cardiac Intensive Care Unit at UPMC Children's is nearing the completion of a significant expansion. The former 12-bed unit is growing in size to a 33-bed-unit with expected physical renovations to be completed by early 2019. In addition to the physical expansion of beds, the Heart Institute is recruiting a substantial influx of new clinicians to treat and staff the expanded unit. Plans are in progress to add four new CICU physicians, eight CICU advanced practice providers, and three new advanced practice providers with the Heart Institute.

New CICU chief, **Justin Yeh**, **MD**, who joined UPMC Children's and the Heart Institute in August 2018, is overseeing the expansion during its final phases of implementation.

New Quality Initiative

UPMC Children's is a participating member of PAC3, the Pediatric Acute Care Cardiology Collaborative. (**Evonne Morell, DO**, from the Heart Institute currently sits on the PAC3 executive committee). UPMC Children's recently took part in the collaborative's QI project on reducing chest tube duration in pediatric patients after cardiothoracic surgery. This project examined how long chest tubes were left on patients at each partner institution, and what parameters were used to determine when to discontinue their use.

"It became clear that we were quite conservative in our criteria, using a 2mL/ kg/24-hour period of chest tube output

Save the Date: Master Class in Congenital Cardiac Morphology

The 12th Master Class in Congenital Cardiac Morphology will be held on October 9-11, 2019, at UPMC Children's Hospital of Pittsburgh. World-renowned morphologist Robert H. Anderson, MD, PhD, FRCPath, visiting professor, pediatrics, Medical University of South Carolina, will again be one of the course directors alongside Heart Institute Executive Director **Vivek Allada, MD**.

compared to other partner sites that were using a 10mL/kg/24hr). By changing our practice and adopting this alternative criterion, we saw a significant reduction in the time to removal — 2.3 days versus 3.5 days and our patients are able to be discharged sooner, four days using the new criteria versus eight days under our old standard of care," says **Vivek Allada, MD**, executive director of the Heart Institute at UPMC Children's.

UPMC Children's Receives Cardiomyopathy Accreditation

The Heart Institute at UPMC Children's Hospital of Pittsburgh was named an accredited center of care by the Children's Cardiomyopathy Foundation (CCF), a national nonprofit organization committed to improving the health outcomes and quality of life for children with cardiomyopathy, a chronic heart disease that affects how the heart pumps blood through the body.

UPMC Children's received this recognition for consistently providing high-quality cardiac care and specialized disease management to children with the disease.

"Cardiomyopathies are a variety of serious conditions that can lead to heart failure and death," said **Brian Feingold, MD, MS**, medical director, Heart Failure and Transplantation Programs, UPMC Children's. "We have a strong tradition of excellence in care for all forms of this complex disease at UPMC Children's. Accreditation by the CCF is welcome recognition of our world-class pediatric cardiomyopathy program, including our success in caring for infants, children and adolescents across the entire spectrum of cardiomyopathies."

Research Update From the Heart Institute

Faculty and staff from the Heart Institute at UPMC Children's are engaged in a continual effort to advance the basic science understandings of the cardiovascular system, and to develop new and novel clinical and translational investigations to improve patient care. Below is a sample of recent manuscripts, book chapters, reviews, and scientific statements authored by Heart Institute faculty members.

Manuscripts

Soriano BD, Fleishman CE, Van Hoever AM, Wright B, Printz B, Tacy TA, Allada V, Lai WW, Buddhe S, Srivastava S. Determinants of Physician, Sonographer, and Laboratory Productivity: Analysis of the Third Survey From the American Society of Echocardiography Committee on Pediatric Echocardiography Laboratory Productivity. *S J Am Soc Echocardiogr.* 2018 May 16. pii: S0894-7317(18)30130-5.doi: 10.1016/j. echo.2018.03.001. [Epub ahead of print]

Fleishman C, Banka P, Sachdeva R, Fogel M, Ferguson ME, Allada V, Drant S. ACC/ACPC Comprehensive Pediatric Echocardiographic Examination. 2017.

Beach C, Follansbee CW, Beerman L, Mazzocco S, Wang L, Arora G. Automated QT Analysis on Holter Monitors in Pediatric Patients Can Differentiate Long QT Syndrome From Controls. *Pacing Clin Electrophysiol.* 2018 Jan; 41(1): 35-41.

Follansbee CW, Beerman L, Arora G. Paroxysmal Complete Atrioventricular Block in Pediatric Heart Transplant Recipients Following Cardiac Catheterization: A Case Series. *Pacing Clin Electrophysiol.* 2018 Jan; 41(1): 50-56.

Law YM, Plonka CM, Feingold B. Norepinephrine Levels in Children With Single Ventricle Circulation. *Prog Pediatr Cardiol.* 2017 Dec; 47: 58-63.

Godown J, Thurm C, Dodd DA, Soslow JH, Feingold B, Smith AH, Mettler BA, Thompson B, Hall M. A Unique Linkage of Administrative and Clinical Registry Databases to Expand Analytic Possibilities in Pediatric Heart Transplantation Research. *Am Heart J.* 2017 Dec; 194: 9-15. Feingold B, Picarsic J, Lesniak A, Popp BA, Wood-Trageser MA, Demetris AJ. Late Graft Dysfunction After Pediatric Heart Transplantation Is Associated With Fibrosis and Microvasculopathy by Automated, Digital Whole-Slide Analysis. *J Heart Lung Transplant*. 2017 Dec; 36(12): 1336-1343.

Adams PS, Zahid M, Khalifa O, Feingold B, Lo CW. Low Nasal NO in Congenital Heart Disease With Systemic Right Ventricle and Postcardiac Transplantation. *J Am Heart Assoc*. 2017 Dec 6; 6(12). PubMed PMID: 29212650.

Hart SA, Arora G, Feingold B. Resource Utilization at the Time of Prostacyclin Initiation in Children in Pulmonary Arterial Hypertension: A Multicenter Analysis. *Pulm Circ*. 2018 Jan-Mar; 8(1): 2045893217753357. PubMed PMID: 29313743.

West SC, Webber SA, Zeevi A, Miller SA, Morell VO, Feingold B. Charges and Resource Utilization for Pediatric Heart Transplantation Across a Positive Virtual and/or Cytotoxicity Crossmatch. *Pediatr Transplant*. 2018 Feb; 22(1): e13095.

Feingold B. The Challenges of Donor-Derived Risk, Donor Shortage and Waitlist Mortality in Children: Time for a New Measuring Stick? *J Heart Lung Transplant.* 2018 Mar; 37(3): 317-318.

Green DJ, Duong SQ, Burckart GJ, Sissung T, Price DK, Figg Jr WD, Brooks MM, Chinnock R, Canter C, Addonizio L, Bernstein D, Naftel DC, Zeevi A, Kirklin JK, Webber SA, Feingold B. Association Between Thiopurine S-Methyltransferase (TPMT) Genetic Variants and Infection in Pediatric Heart Transplant Recipients Treated With Azathioprine: A Multi-Institutional Analysis. J Pediatr Pharmacol Ther. 2018 Mar-Apr; 23(2): 106-110. Chew JD, Soslow JH, Thurm C, Hall M, Dodd DA, Feingold B, Simmons J, Godown J. Heart Transplantation in Children With Turner Syndrome: Analysis of a Linked Dataset. *Pediatr Cardiol.* 2018 Mar; 39(3): 610-616.

Godown J, Thurm C, Hall M, Soslow JH, Feingold B, Mettler BA, Smith AH, Bearl DW, Dodd DA. Changes in Pediatric Heart Transplant Hospitalization Costs Over Time. *Transplantation*. 2018 Apr 19. Epub ahead of print.

Godown J, Smith AH, Thurm C, Hall M, Dodd DA, Soslow JH, Mettler BA, Bearl D, Feingold B. Mechanical Circulatory Support Costs in Children Bridged to Heart Transplantation — Analysis of a Linked Database. *Am Heart J.* 2018 Jul; 201: 77-85.

Magnetta DA, Feingold B, Beerman LB, Blasiole B, Arora G. Paroxysmal Complete Atrioventricular Block in Pediatric Heart Transplant Recipients Following Cardiac Catheterization: A Case Series. *Pediatr Transplant*. 2018 Aug; 22(5): e13206.

Follansbee CW, Beerman L, Arora G. Adenosine-Sensitive Wolff-Parkinson-White: Longer Time Across the Atrioventricular Groove. *Pediatr Cardiol.* 2018 Mar; 39(3): 637-639. doi: 10.1007/ s00246-018- 1829-4. Epub 2018 Feb 12.

Liu R, Lee J, Kim BS, Wang Q, Buxton SK, Balasubramanyam N, Kim JJ, Dong J, Zhang A, Li S, Gupte AA, Hamilton DJ, Martin JF, Rodney GG, Coarfa C, Wehrens XH, Yechoor VK, Moulik M. Tead1 Is Required to Maintain Adult Cardiomyocyte Function, and Its Loss Results in Lethal Dilated Cardiomyopathy. *JCI Insight*. 2017 Sep 7; 2917.



Ranked #6 in the Nation and Best in Pennsylvania for Cardiology and Heart Surgery by U.S. News & World Report Nwankwo U, Morell E, Trucco SM, Morell V, Kreutzer J. Hybrid Strategy for Neonates with Ductal-dependent Systemic Circulation at High Risk for Norwood. *Ann Thorac Surg.* 2018 Apr 6. Epub ahead of print.

West SC, Webber SA, Zeevi A, Miller SA, Morell VO, Feingold B. Charges and Resource Utilization for Pediatric Heart Transplantation Across a Positive Virtual and/or Cytotoxicity Crossmatch. *Pediatr Transplant*. 2018 Feb; 22(1).

Mistry MS, Trucco SM, Maul T, Sharma MS, Wang L, West S. Predictors of Poor Outcomes in Pediatric Venoarterial Extracorporeal Membrane Oxygenation. *World J Pediatr Congenit Heart Surg.* 2018 May; 9(3): 297-304.

Harris TH, Adler M, Unti SM, McBride ME. Pediatric Heart Disease Simulation Curriculum: Educating the Pediatrician. *Congenit Heart Dis.* 2017; 00: 1–8.

Zinn MD, Wallendorf MJ, Simpson KE, Osborne AD, Kirklin JK, Canter CE. Impact of Routine Surveillance Biopsy Intensity on the Diagnosis of Moderate to Severe Cellular Rejection and Survival After Pediatric Heart Transplantation. *Pediatr Transplant*. 2018; 22:e13131.

Butts RJ, Boyle GJ, Deshpande SR, Gambetta K, Knecht KR, Prada-Ruiz CA, Richmond ME, West SC, Lal AK. Characteristics of Clinically Diagnosed Pediatric Myocarditis in a Contemporary Multi-Center Cohort. *Pediatr Cardiol.* 2017 Aug; 38(6): 1175-1182. Epub 2017 May 23.

Mercer CW, West SC, Sharma MS, Yoshida M, Morell VO. Polytetrafluoroethylene Conduits Versus Homografts for Right Ventricular Outflow Tract Reconstruction in Infants and Young Children: An Institutional Experience. *J Thorac Cardiovasc Surg.* 2018 May; 155(5): 2082-2091.

Cevallos PC, Armstrong AK, Glatz AC, Goldstein BH, Gudausky TM, Leahy RA, Petit CJ, Shahanavaz S, Trucco SM, Bergersen LJ. Radiation Dose Benchmarks in Pediatric Cardiac Catheterization: A Prospective Multi-Center C3PO-QI study. *Catheter Cardiovasc Interv.* 2017 Aug 1; 90(2): 269-280.

Gray RG, Menon SC, Johnson JT, Armstrong AK, Bingler MA, Breinholt JP, Kenny D, Lozier J, Murphy J, Sathanandam SK, Taggert NW, Trucco SM, Goldstein BH, Gordon BM. Acute and Midterm Results Following Perventricular Device Closure of Muscular Ventricular Septal Defects: A Multicenter PICES Investigation. *Catheter Cardiovasc Interv.* 2017 Aug 1; 90(2): 281-289.

Nwankwo U, Goldstein J, Trucco SM, Kreutzer J. Transcatheter Closure of a Mitral Valve Paravalvular Leak in an Infant. *J of Struct Heart Dis.* 2017; 3 (5).

UPMC Physician Resources

For the latest CME courses, videos, news, and events for physicians, visit **UPMCPhysicianResources.com/Pediatrics**.

Current CME Courses in Cardiology and Cardiothoracic Surgery

Frontiers in Cardiac Intensive Care: Critical Illness and Neurodevelopment

Presented by Justin Yeh, MD In this presentation, CICU Chief and Heart Institute Co-Director Justin Yeh, MD, discusses neurodevelopment outcomes in pediatric patients with congenital heart disease, and he provides insights on interventions in the CICU that may improve outcomes.

Video Rounds

Norwood Procedure to Correct Hypoplastic Left Heart Syndrome Presented by Victor Morell, MD

The Latest in Pediatric Heart Transplant Research Presented by Brian Feingold, MD, MS

Tague L, Wiggs J, Li Q, McCarter R, Sherwin E, Weinberg J, Sable C. Comparison of Left Ventricular Hypertrophy by Electrocardiography and Echocardiography in Children Using Analytics Tool. *Pediatr Cardiol.* 2018. Epub ahead of print.

Menon S, Al-Dulaimi R, McCrindle B, Goldberg D, Sachdeva R, Goldstein B, Seery T, Uzark K, Chelliah A, Butts R, Henderson H, Johnson T, Williams W. Delayed Puberty and Abnormal Anthropometry and its Associations With Quality of Life in Young Fontan Survivors: A Multicenter Cross-Sectional Study. *Congenit Heart Dis.* 2018; 00: 1-7.

Cabalka AK, Hellenbrand WE, Eicken A, Kreutzer J, Gray RG, Bergersen L, Berger F, Armstrong AK, Cheatham JP, Zahn EM, McElhinney DB. Relationships Among Conduit Type, Pre-Stenting, and Outcomes in Patients Undergoing Transcatheter Pulmonary Valve Replacement in the Prospective North American and European Melody Valve Trials. *JACC Cardiovasc Interv.* 2017 Sep 11; 10(17): 1746-1759.

Christopher A, Kreutzer J, Ezon D. DVHTi is Associated with Aortic Coarctation Gradient at Catheterization Independent of Echocardiographic and Clinical Blood Pressure Gradients. Accepted for publication *Congenit Heart Dis.* 2018.

Scientific Statements and Editorials

Feingold B, Mahle WT, Auerbach S, Clemens P, Domenighetti AA, Jefferies JL, Judge DP, Lal AK, Markham LW, Parks J, Tsuda T, Wang PK, Yoo S. Management of Cardiac Involvement Associated With Neuromuscular Diseases: A Scientific Statement From the American Heart Association. Circulation. 2017; 136: e200-31.

Yester JW, Kühn B. Mechanisms of Cardiomyocyte Proliferation and Differentiation in Development and Regeneration. *Curr Cardiol Rep.* 2017 Feb; 19(2): 13. Review.

Kreutzer J, Kreutzer C. Lymphodynamics in Congenital Heart Disease: The Forgotten Circulation. J Am Coll Cardiol. 2017; 69(19): 2423-2427.

Books and Book Chapters

Kreutzer J, Porras D. Cateterismo Intervencionista En Niños. In: Diaz Gongora G, Sandoval N, Velez JFM, editors. Cardiología Pediátrica. Distribuna Editorial 2017. 2da Edición; p 287-313.

Kreutzer C, Kreutzer J, Kreutzer G. Evolución Histórica Del Bypass Total De Ventrículo Venoso (Operación Fontan-Kreutzer). In: Diaz Gongora G, Sandoval N, Velez JFM, editors. Cardiología Pediátrica. Distribuna Editorial 2017. 2da Edición; p 653-663.

Beerman L, Kreutzer J, Allada V: Chapter: Cardiology in Atlas of Pediatric Physical Diagnosis, Sixth Edition. Ed. Zitelli BJ, McIntyre S, Nowalk A, Philadelphia PA, Elsevier, 2018. In Press.

Heart Institute Attains STS Three-Star Rating

The Heart Institute at UPMC Children's Hospital of Pittsburgh attained a Society of Thoracic Surgeons (STS) overall **three-star rating** for its congenital heart surgery program in the latest rankings that analyzed program data from participating health care systems for the four-year period from January 1, 2014 to December 31, 2017.

UPMC Children's was one of 41 high-volume centers out of the 129 reporting institutions during the latest reporting period. Only 12 programs in North America received a threestar designation in the latest survey period, and this is the fourth consecutive reporting period in which UPMC Children's has received the three-star designation. UPMC Children's overall non-risk adjusted mortality rate of **1.9 percent** was lower than all but six of the 41 high-volume centers, with the overall mortality rate for the 129 STS institutions being 2.94 percent.

With respect to the observed-to-expected mortality ratio, the UPMC Children's program's overall ratio was 0.56, with an adjusted mortality rate of **1.6 percent**.

In the highest-risk congenital heart disease neonatal surgical cases, UPMC Children's mortality rate was **five percent** compared to the national average of 16.1 percent. The UPMC Children's program specializes in treating the highest-risk cases. In the last three years, the program has experienced **no mortalities** in any of its Norwood procedure cases. In heart transplant outcomes, UPMC Children's ranks **first** in the United States with a 100 percent three-year pediatric graft and patient survival rate.

"The STS rating our cardiothoracic surgery program has achieved is a real tribute to the leadership of Victor Morell and the entire UPMC Children's team," says Vivek Allada, MD, executive director of the Heart Institute.

For complete ratings details and methodology, visit the STS website at https://publicreporting.sts.org.

UPMC Children's Hospital of Pittsburgh Launches New Pediatric Research Podcast Series

UPMC Children's Hospital of Pittsburgh has launched a new medical podcast series for physicians, scientists and other health care professionals featuring the hospital's leading researchers and clinicians.



Episodes of "That's Pediatrics" will include compelling interviews with scientists at UPMC Children's Hospital who are performing innovative

basic, translational and clinical research. New episodes will be released every two weeks.

"Going back to the polio vaccine, Pittsburgh has always been a hub of very innovative research, and in recent years has really become a nexus for some groundbreaking research in pediatric medicine," said **John Williams, MD**, chief of the Division of Pediatric Infectious Diseases at UPMC Children's and one of the podcast hosts. "There is a spirit of collaboration here in Pittsburgh that makes it somewhat unique nationally and we really want to explore the research that is happening here and how we have a real opportunity to change the way pediatric medicine is practiced around the world."

Current episodes of "That's Pediatrics" include:

"Gene Therapy" with **George Gittes, MD**, director of the Richard King Mellon Foundation Institute for Pediatric Research and coscientific director, UPMC Children's Hospital

"Don't Rule Out Brain Injuries" with **Rachel Berger, MD**, chief, Child Advocacy Center, UPMC Children's Hospital



"All About Acute Flaccid Myelitis" with **John Williams**, **MD**, chief, Division of Pediatric Infectious Diseases, UPMC Children's Hospital

In addition to Dr. Williams, "That's Pediatrics" hosts are:

Carolyn Coyne, PhD, director of the Center for Microbial Pathogenesis, UPMC Children's Hospital

Stephanie Dewar, MD, director of Pediatric Residency Training Program, UPMC Children's Hospital

Brian Martin, DMD, vice president, Medical Affairs, UPMC Children's Hospital

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Clinical Trials Update

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The study seeks to enroll a total of 10 patients in the trial and will follow patients for a total of 60 months to assess primary outcomes measures of device failure and associated mortality events or the need for another surgery or intervention at six- and 12-month intervals. Patients between the ages of 2 and 21 years are eligible for the study who meet the other inclusion/exclusion criteria.

Victor Morell, MD, division chief of Pediatric Cardiothoracic Surgery and co-director of the Heart Institute is serving as the site principal investigator for the study at UPMC Children's.

Other Cardiology Clinical Trials In Progress at UPMC Children's

Tacrolimus/Everolimus vs. Tacrolimus/MMF in Pediatric Heart Transplant Recipients Using the MATE Score (TEAMMATE) Site PI: Brian Feingold, MD, MS

Melody[®] Transcatheter Pulmonary Valve Post-Approval Study: Implantation of the Medtronic Melody[®] Transcatheter Pulmonary Valve Using the Ensemble[®] Transcatheter Delivery System in Patients With Dysfunctional RVOT Conduits. *Site PI: Jacqueline Kreutzer, MD*

Study to Evaluate Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of LCZ696 Followed by a 52-week Study of LCZ696 Compared With Enalapril in Pediatric Patients With Heart Failure. Site PI: Brian Feingold, MD, MS

UPPMC CHILDREN'S HOSPITAL OF PITTSBURGH

About UPMC Children's Hospital of Pittsburgh

Regionally, nationally, and globally, UPMC Children's Hospital of Pittsburgh is a leader in the treatment of childhood conditions and diseases, a pioneer in the development of new and improved therapies, and a top educator of the next generation of pediatricians and pediatric subspecialists. With generous community support, UPMC Children's Hospital has fulfilled this mission since its founding in 1890. UPMC Children's is recognized consistently for its clinical, research, educational, and advocacy-related accomplishments, including ranking 13th among children's hospitals and schools of medicine in funding for pediatric research provided by the National Institutes of Health (FY2017).