

## **CURRICULUM VITAE**

**Steven J. Kindel MD**

**Associate Professor  
Department of Pediatrics  
Division of Cardiology**

### **OFFICE ADDRESS:**

Children's Wisconsin - Milwaukee Hospital  
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### **EDUCATION:**

08/1995 - 06/1999 Bachelor of Biological & Engineering Sciences, Washington University, St. Louis, MO  
08/1999 - 06/2003 MD, The Ohio State University College of Medicine, Columbus, OH

### **POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

07/2003 - 06/2005 Combined Internal Medicine & Pediatrics Residency, The Ohio State University Medical Center/ Children's Hospital, Columbus, OH  
07/2005 - 06/2007 Pediatrics Residency, Children's Memorial Hospital, Chicago, IL  
07/2007 - 06/2010 Pediatric Cardiology Fellowship, Cincinnati Children's Hospital Medical Center, Cincinnati, OH  
07/2010 - 06/2011 Advanced Fellowship in Heart Failure & Cardiac Transplantation, Children's Memorial Hospital, Chicago, IL

### **FACULTY APPOINTMENTS:**

09/2011 - 07/2013 Assistant Professor of Pediatrics, Division of Pediatric Cardiology, Ann & Robert H. Lurie Children's Hospital / Northwestern University Feinberg School of Medicine, Chicago, IL  
07/2013 - 06/2015 Medical Director, Advanced Heart Failure & Transplantation, Children's Hospital and Medical Center, Omaha, NE  
07/2013 - 06/2015 Assistant Professor of Pediatrics, Pediatric Cardiology, Children's Hospital and Medical Center, University of Nebraska College of Medicine, Omaha, NE  
10/2014 - 06/2015 Assistant Professor of Clinical Pediatrics, Creighton University School of Medicine, Omaha, NE  
07/2015 - 07/2017 Assistant Professor of Pediatrics, Medical College of Wisconsin, Milwaukee, WI  
07/2017 - Present Associate Professor of Pediatrics, The Medical College of Wisconsin, Milwaukee, WI

### **ADMINISTRATIVE APPOINTMENTS:**

06/2013 - 06/2015 Medical Director of Advanced Heart Failure & Cardiac Transplantation, Department of Pediatrics, Pediatric Cardiology, Children's Hospital and Medical Center & University of Nebraska, Omaha, NE  
07/2015 - Present Medical Director of Advanced Heart Failure & Cardiac Transplant Program, Medical College of Wisconsin, Milwaukee, WI

### **HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

07/2015 - Present Medical Director of Advanced Heart Failure & Cardiac Transplant Program, Children's Hospital of Wisconsin, Milwaukee, WI

### **SPECIALTY BOARDS AND CERTIFICATION:**

<u>Board Certified</u>	<u>Issue Date</u>	<u>Expiration</u>
American Board of Pediatrics, Subspecialty Board for Cardiology		12/31/2020
American Board of Pediatrics		12/31/2020

#### **AWARDS AND HONORS:**

03/2009 Becoming a Young Investigator - Travel Grant Award, Pediatric Heart Network  
09/2012 - Present Recognized for Excellence in Teaching, Ann & Robert Lurie Children's Hospital  
05/2013 - Present Excellence in Resident Graduation, Ann & Robert H. Lurie Children's Hospital

#### **MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

International Society of Heart and Lung Transplantation (Member)  
Heart Failure Society of America (Member)  
American Heart Association (Member)

#### **EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

Journal Review  
Pediatric Transplantation  
Circulation  
Journal of Heart and Lung Transplantation  
Pediatric Cardiology

#### **LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

2007 - 2010 Member, Graduate Medical Education Committee Fellow Representative, Cincinnati Children's Hospital Medical Center  
2010 - 2013 Member, PTLD Multidisciplinary Working Group, Ann & Robert Lurie Children's Hospital of Chicago  
2010 - 2013 Member, Heart Center Research Committee, Ann & Robert H. Lurie Children's Hospital of Chicago  
2011 - 2013 Member, Heart Center Marketing Committee, Ann & Robert H. Lurie Children's Hospital of Chicago  
2011 - 2013 Member, NPC-QIC Project Site Leader, Ann & Robert H. Lurie Children's Hospital of Wisconsin  
2011 - 2013 Member, Transplant Outcomes Improvement Committee, Ann & Robert H. Lurie Children's Hospital of Chicago  
2015 Cardiology Program Lead, Multidisciplinary Neuromuscular Disorders, Children's Hospital of Wisconsin  
2016 Co-Program Leader, Multidisciplinary Fontan Survivorship & Advanced Therapies Committee, Children's Hospital of Wisconsin  
2017 - Present Member, Clinical Practice Work Group, Children's Wisconsin

#### **NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

06/2011 - Present Member, Junior Faculty and Trainee Committee, International Society of Heart & Lung Transplantation  
06/2011 - Present Member, Standards and Guidelines Committee, International Society of Heart & Lung Transplantation  
06/2013 - 06/2015 Committee Representative, Region 7 Representative, United Network for Organ Sharing  
06/2013 - Present Program Committee Representative, Pediatric Heart Failure Work Group, International Society for Heart and Lung Transplantation  
07/2015 - Present Member, Research Committee ~ Gabrielle Geddes, M.D., The Medical College of Wisconsin  
07/2015 - Present Appointed Member, Research Committee, Pediatric Heart Transplant Study Foundation  
07/2015 - Present Member, Scholarship Oversight Committee ~ Nikki Singh, Medical College of Wisconsin  
07/2015 - Present Member, At Large Pediatric Transplant, United Network for Organ Sharing  
07/2016 - Present Elected Member, Pediatric Council, International Society for Heart and Lung

Transplantation  
07/2016 - Present Appointed Member, Standards & Guidelines Committee, International Society for Heart and Lung Transplantation  
04/2017 - Present Program Chair, Further Down the Fontan Pathway, International Heart Lung Transplant Society

## **RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

### **Active**

#### **Peer Review**

Title:	Comparison of Exercise Stress Test in Children with Congenital Heart Disease and Cardiomyopathies after Heart Transplantation
Role:	Research Mentor
PI:	Nikki Singh
Title:	Quantitative Detection of Circulating Donor-Specific DNA in Heart Transplant Recipients
Source:	RO1
Role:	Site Principal Investigator
PI:	Michael Mitchell
Title:	Implantation of EXCOR Pediatric Ventricular Assist Device, Humanitarian Use Device
Role:	Co-Principal Investigator
PI:	Rob Niebler
Title:	Entresto Trial in Pediatrics
Source:	Novartis Pharmaceuticals
Role:	Cite Principal Investigator
PI:	Charlie Cantor
Title:	SynCardiac 50cc Temporary Total Artificial Heart (TAH-t) for Bridge to Transplant (BTT)
Role:	Co-Investigator
PI:	Ronald Woods
Title:	Grading of Coronary Vasculopathy in Patients AFTER Cardiac Transplantation using ISHLT Guidelines and its Impact on Morbidity and Mortality
Role:	Research Mentor
PI:	Nikki Singh
Title:	Pediatric Heart Transplant Study
Role:	Site Principal Investigator
PI:	Kindel, Steven

#### **Non-Peer Review**

Title:	TEAMMATE Trial
Source:	US Department of Defense
Role:	Site Principle Investigator
PI:	Kevin Daly (Boston Children's/Chris

Almond (Stanford

**Pending**

**Peer Review**

Title: International Pediatric Heart Failure Registry (iPHFR)  
Role: Principal Investigator  
PI: Steven Kindel

**Prior**

**Peer Review**

Title: Genetic Diagnostic Rates in Children in a Cardiomyopathy Clinic  
Role: Principal Investigator  
PI: Steven Kindel (mentored by Stephanie Ware)  
Dates: 12/2008 - 06/2010

Title: Genetic Assessment of Children with Cardiomyopathy Utilizing Massively Parallel Sequencing  
Source: RO1  
Role: Principal Investigator  
PI: Steven Kindel (mentored by Stephanie Ware)  
Dates: 12/2008 - 06/2010

Title: Echocardiographic Indicators of Diastolic Dysfunction do not Correlate to Degree of Restriction in Children with Familial Restrictive Cardiomyopathy  
Role: Principal Investigator  
PI: Steven Kindel (mentored by Erik Michelfelder)  
Dates: 06/2009 - 12/2010

Title: Magnetic Resonance Imaging in Children with Cardiomyopathy  
Role: Principal Investigator  
PI: Steven Kindel  
Dates: 06/2010 - 05/2013

Title: Hemodynamics in the Assessment of Cardiac Allograft Vasculopathy in Children  
Role: Principal Investigator  
PI: Steven Kindel  
Dates: 06/2011 - 07/2014

Title: Eosinophilic Complications in children Following Heart Transplantation  
Role: Principal Investigator  
PI: Steven Kindel (mentored by Eric Wald)  
Dates: 06/2011 - 12/2013

Title: Pediatric Registry of Mechanically Assisted Circulatory Support  
Source: PediMACS  
Role: Site Principal Investigator  
PI: Kindel, Steven  
Dates: 06/2013 - 06/2015

Title: Assessment of Tricuspid Valve Failure Mechanisms, Right Heart Volumes and Function Post Orthotopic Heart Transplantation  
Role: Co-Investigator  
Dates: 12/2013 - 06/2015

**Non-Peer Review**

Title: Genetic Diagnostic Rates in Children in a Cardiomyopathy clinic  
Role: Principal Investigator  
PI: Steven Kindel (mentored by Stephanie Ware)  
Dates: 12/2008 - 06/2010

**INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

**Local**

Kindel, Steven, Special Challenges and Considerations in Pediatric Heart Transplantation, NU-ACT Quarterly Conference, Chicago, IL, 11/2010  
Kindel, Steven, Pediatric Cardiomyopathies and Heart Failure - 3 Cases to Show the Spectrum of Disease, Advanced Pediatric Education Series, Children's Memorial Hospital, 12/2010 - Present  
Kindel, Steven, Newer Technologies in the Assessment of Cardiomyopathy, Gasul Club of Pediatric Cardiology Hekoten Institute of Medicine, Chicago, IL, 05/2011  
Kindel, Steven, Pediatric Heart Transplantation for the Primary Care Practitioner, Pediatric Pearls: Cardiology, Sponsored by Children's Memorial Hospital, Chicago, IL, 03/2012  
Kindel, Steven, Pediatric Heart Transplant: Success and Challenges, NU-ACT Quarterly Conference, Chicago, IL, 06/2013  
Kindel, Steven, Pediatric Mechanical Circulatory Support: What an ECMO Specialist Should Know, New ECMO Specialist Training, Children's Hospital & Medical Center, Omaha, NE, 05/2015 - Present  
Kindel, Steven, Pediatric Heart Transplantation: The Search for Better Results, 10th Annual Burt Litwin Lecture, Children's Hospital of Wisconsin, 10/2015  
Kindel, Steven, Pediatric Heart Transplantation: The Role of Biopsy and Emerging Technologies, Cardiac Catheterization Education Series, Children's Hospital of Wisconsin, 02/2016 - Present  
Kindel, Steven, Heart Transplantation: Non-Invasive Assessment of Rejection, Annual Gallen Lecture, Children's Hospital of Wisconsin, 05/2016 - Present  
Kindel S, What to do with a Broken Heart? Shick, Myocarditis, and Whit it's so Difficult to be a Pediatrician, Grand Rounds ~ Children's Hospital of Wisconsin, Milwaukee, WI, 03/09/2018  
Kindel, Steven, Heart Transplantation in the Fontan Patient, Heart Summit, Milwaukee, WI, 10/2019 - Present

**Regional**

Kindel, Steven, Pediatric Heart Transplantation for the Primary Care Practitioner, Pediatric Pearls: Community CME Series, Children's Memorial Hospital, Oak Brook, IL, 03/2012 - Present  
Kindel, Steven, Heart Transplant in Children: Indications, Complications, and Pearls for the Pediatric Practitioner, Upper Midwest Pediatric Conference, Sioux City, NE, 09/2014  
Kindel, Steven, Progress in Pediatric MCS, Wisconsin Perfusion society, Madison, WI, 06/2019 - Present

**National**

Kindel, Steven, Cardiac Allograft Vasculopathy in Children: a PHTS study of 3200 children over 18 years,

Pediatric Heart Transplant Study Foundation Annual Meeting, Orlando, FL, 11/2011

Kindel, Steven, Perioperative Management of Ventricular Assist Devices in Children, Pediatric Cardiac Intensive Care Society, Miami, FL, 12/2014

Kindel, Steven, Workshop on Practice Variation in Pediatric Heart Transplantation Care, Pediatric Heart Transplantation Annual Meeting, Washington, DC, 04/2016 - Present

Kindel, Steven, Workshop on the Development and Next Steps for Molecular Non-Invasive Testing for Rejection in Heart Transplantation, ISHLT Annual Meeting, Washington, DC, 04/2016 - Present

Kindel, Steven, Workshop on New United Network of Organ Sharing Proposed Update to Adult Heart Allocation Policy, ISHLT Annual Meeting, Washington, DC, 04/2016 - Present

Kindel, Steven, Parent Project Muscular Dystrophy Collaborative Session on Acute Myocardial Ischemia in Children with Muscular Dystrophy, Columbus, Ohio, 05/2016 - Present

Kindel, Steven, To Extubate or Not to Extubate on ECMO, American Society for Artificial Internal Organs, 62nd Annual Meeting, San Francisco, CA, 06/2016 - Present

Kindel, Steven, Further Down the Fontan Pathway: Where do we go now?, International Society of Heart & Lung Transplantation - Annual Meeting, San Diego, CA, 04/2017 - Present

Kindel, Steven, Who, When & Why to Re transplant for Cardiac Allograft Vasculopathy, Pediatric Heart Transplant Summit, Seattle, WA, 09/2017 - Present

Kindel, Steven, Invited Panel Discussant - Heart Failure Simulator Session, AHA Scientific Sessions, Anaheim, CA, 2017 - Present

Kindel, Steven, Invited Speaker-Challenges of MCS in the Patient with a single Ventricle, STS INTERMACS Annual Meeting, Chicago, IL, 05/12/2018 - Present

Kindel, Steven, Invited Speaker-the Good, the Bad and the Ugly-when All Organs Fail, What Do We Do?, ASAIO Annual Meeting, Washington DC, 06/14/2018 - Present

Kindel, Steven, What to know about your child with muscular dystrophy's heart, Break out session, Parent Project Muscular Dystrophy Annual Meeting, Orlando, FL, 12/2019 - Present

#### **International**

Kindel, Steven, Highlights from the Journal: End Stage Pediatric Cardiopulmonary Disease, International Society for Heart & Lung Transplantation Annual Meeting, San Diego, CA, 04/2013

Kindel, Steven, Cardiac Allograft Vasculopathy, the Unsolved Problem: Registry Experience and Clinical Correlations, International Society for Heart & Lung Transplantation Annual Meeting, Nice, France, 04/2015

#### **MEDICAL COLLEGE TEACHING ACTIVITIES:**

##### **Medical Student Education**

10/2015 M2 Core Curriculum, Cardiovascular Unit Modules: Aortic Stenosis and Left Ventricular Outflow Tract Obstruction

#### **EXTRAMURAL TEACHING:**

##### **Resident and Fellow Education**

08/2009 Cincinnati Children's Heart Institute Lecture Series, The Genotype-Phenotype Associations of Left Ventricular Non-Compaction

11/2010 Children's Memorial ICU: Interactive Continuing Education Conference, Lecture: Cardiopulmonary Interactions in the Heart Failure Patient

11/2010 Children's Memorial Residency Core Curriculum Series, Lecture: Key Concepts in Congenital Heart Disease for the Pediatrician

02/2012 Children's Memorial, Lecture: Shunts, Murmurs and Cyanosis in Congenital Heart Disease

11/2012 Ann & Robert H Lurie Children's Hospital Core Curriculum, Murmurs, Shunts, Cyanosis and Obstruction: Basics for the Pediatric Resident

05/2013 Ann & Robert H Lurie Children's Hospital Core Curriculum, Heart Failure in Pediatrics

08/2013 Children's Hospital and Medical Center & University of Nebraska, Cardiology Fellowship Core Lecture: Pediatric Heart Transplant & the Cardiologist

10/2013 Children's Hospital and Medical Center & University of Nebraska, Residency Core Curriculum: What is Pediatric Heart Failure?

11/2013 Children's Hospital and Medical Center & University of Nebraska, Cardiology Fellowship Core

Curriculum: Moss & Adams Chapter Review: Chapter 24: Molecular Determinants of Cardiac Development and Function  
01/2014 Children's Hospital and Medical Center & University of Nebraska, Pediatric Cardiology Fellowship Core Lecture: Pediatric Heart Failure in the ICU and Clinic  
02/2014 Children's Hospital and Medical Center & University of Nebraska, Cardiology Fellowship Core Curriculum: Moss & Adams Chapter Review - Chapter 57: Dilated Congestive Cardiomyopathy  
04/2015 Children's Hospital and Medical Center & University of Nebraska, Cardiology Fellowship Core Curriculum: Heart Failure 2: Rise of the Machines - Mechanical Support in Pediatric Heart Failure  
10/2015 The Medical College of Wisconsin - Pediatric Cardiology Fellowship Program, Fellow Noon Lecture: Dilated Cardiomyopathy & Myocarditis  
11/2015 The Medical College of Wisconsin - Pediatric Critical Care Fellowship Program, Core Lecture: Heart Transplant in Children: ICU Management  
06/2016 The Medical College of Wisconsin - Pediatric Cardiology Fellowship Program, Restrictive and Left Ventricular Non-Compaction Cardiomyopathy

**Continuing Medical Education**

06/2007 Children's Memorial Hospital Grand Rounds, Lecture: Occlusion of accessory vessels and aorto-pulmonary collateral vessels in patients with congenital heart disease  
03/2013 Children's Memorial Cardiovascular Surgery Advanced Practice Nursing Education Conference, Lecture: Core Concepts in Pediatric Heart Transplantation

**MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:**

**Clinical/Research Fellows**

Alex Raskin, Medical College of Wisconsin, Mentor

**EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:**

**Medical Students**

Craig Grossheusch, The Medical College of Wisconsin, - 05/2016 Mentor, Summer Student Research Program

**Clinical/Research Fellows**

Brian F Joy, M.D., Lurie Children's Hospital, Mentor  
Tarif Choudhury, Ann & Robert H Lurie Children's Hospital, Mentor  
Nikki Singh, M.D., The Medical College of Wisconsin, Mentor  
Ashwin Lal, M.D., Children's Memorial, Mentor  
Chesney Castleberry, M.D., Mentor  
Philip Thrush, M.D., Ann & Robert H Lurie Children's Hospital, Mentor

**Residents**

Tyler Harris, M.D., Ann & Robert H Lurie Children's Hospital, Mentor  
Sara Medwid, M.D., Ann & Robert H Lurie Children's Hospital, Mentor  
Austin Kane, M.D., Lurie Children's Hospital, Mentor

**Faculty**

Ann Punnoose, M.D., The Medical College of Wisconsin, 08/2015 - Present Faculty Advisor  
Gabrielle Geddes, M.D., The Medical College of Wisconsin, Faculty Advisor

**PROGRAMMATIC DEVELOPMENTS:**

**Clinical Programs**

2013 - 2015 Development of Advanced Heart Failure Program at Children's Hospital & Medical Center, Omaha. Including development of Ventricular Assist Device Program, Neuromuscular Program and

Cardio-oncology  
 2013 - 2015 Development of new Heart Transplant Program at Children's Hospital and Medical Center, Omaha, Nebraska  
 2015 - Present Development of Advanced Heart Failure Program at Children's Hospital of WI. New program to recruit care for children with advanced heart failure  
 2015 - Present Consolidation of Neuromuscular Care to the Heart Failure Team consisting of physicians and APN's to provide collaborative cardiac care in a multidisciplinary neuromuscular clinic  
 2015 - Present Reorganization and direction of Pediatric Heart Transplant Team and Children's Hospital of WI permitting team to come off continuing Review by UNOS for Adult and Pediatric components  
 2016 - Present Co-Program Director of Fontan Survivorship & Advanced Therapies Clinic  
 2018 - Present Cardiac Lead for Collaborative Cardio-oncology Program at Herma Heart Institute and MACC Fund Oncology Program

## BIBLIOGRAPHY

### Refereed Journal Publications/Original Papers

1. Kindel SJ, Pahl E. "Cardiac allograft vasculopathy in children - Treatment challenges"; Progress in Pediatric Cardiology Vol. 32(1) August 2011: 37-42.
2. Tariq M, Le T, Putnam P, Kindel S, Keddache M, Ware SM. "Targeted capture and massively parallel sequencing in pediatric cardiomyopathy: development of novel diagnostics" Cardiogenetics. Vol 2, No 1 (2012)
3. Kindel SJ, Miller EM, Gupta R, Cripe LC, Hinton RB, Spicer RL, Towbin JA, Ware SM. "Pediatric cardiomyopathy: importance of genetic and metabolic evaluation"; J Card Failure. May 2012; 18(5): 396-403
4. Kindel SJ, Pahl E. "Current therapies for cardiac allograft vasculopathy in children." Congenital Heart Disease. 2012 Jul-Aug;7(4):324-35
5. Richmond ME, Zangwill SD, Kindel SJ, Deshpande SR, Schroder JN, Bichell DP, Knecht KR, Mahle WT, Wigger MA, Gaglianella NA, Pahl E, Simpson PM, Dasgupta M, North PE, Hidestrand M, Tomita-Mitchell A, Mitchell ME. Donor fraction cell-free DNA and rejection in adult and pediatric heart transplantation. J Heart Lung Transplant. 2020 May;39(5):454-463. doi: 10.1016/j.healun.2019.11.015. Epub 2019 Nov 29. PMID: 31983667
6. Backer CL, Russell HM, Pahl E, Gambetta K, Kindel SJ, Gossett JG, Hardy C, Costello JM, Deal BJ. Heart transplantation for the failing Fontan. Ann Thorac Surg. 2013 Oct;96(4):1413-9
7. Kindel SJ, Joy BF, Pahl E, Wald EL. Eosinophilic esophagitis in children following cardiac transplantation: association with post-transplant lymphoproliferative disorder and other transplant outcomes. Pediatric Transplantation 2014 Aug;18(5):491-6.
8. Kindel SJ, Law Y, Chin C, Burch M, Kirklin J, Naftel D, Pruitt E, Carboni M, Arens A, Atz A, Dreyer J, Mahle W, Pahl E. Assessment of functional parameters improves detection of significant cardiac allograft vasculopathy in children following heart transplant: A multi-institutional analysis of 3120 pediatric heart transplant recipients. JACC Vol 66, No 5 4Aug15; 547-557
9. Parthiban A, Li L, Kindel SJ, Shirali G, Roessner B, Marshall J, Schuster A, Klas B, Danford DA, Kutty S. Mechanical Dyssynchrony and Abnormal Regional Strain Promote Erroneous Measurement of Systolic Function in Pediatric Heart Transplantation. J Am Soc Echocardiogr. 2015 Jun 26. doi: 10.1016/j.echo.2015.05.013. PMID: 26123011
10. Kindel SJ, Everitt MD: Cardiol Young. 2016 Jun; 26(5):851-9. doi: 10.1017/S1047951116000184. Epub 2016 Mar 16. PMID 26979140
11. Woods RK, Ghanayem NS, Mitchell ME, Kindel S, Niebler RA. Mechanical Circulatory Support of the Fontan Patient. Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu. 2017 Jan; 20:20-27. doi: 10.1053/j.pcsu.2016.09.009
12. Imielski BR, Niebler RA, Kindel SJ, Woods RK. HeartWare Ventricular Assist Device Implantation in Patients With Fontan Physiology. Artif Organs. 2017 Jan;41(1):40-46. doi: 10.1111/aor.12852.
13. Kindel SJ. Striking a balance between equity and exceptionality in pediatric heart transplantation. Pediatr Transplant. 2017 Feb;21(1). doi: 10.1111/petr.12827. Invited Editorial
14. Kindel TL, Foster T, Goldspink P, Kindel SJ, Corbett J, Widlansky M, Strande J. Early Weight Loss Independent Effects of Sleeve Gastrectomy on Diet-Induced Cardiac Dysfunction in Obese, Wistar



- Rats. *Obes Surg*. 2017 Sep;27(9):2370-2377. doi: 10.1007/s11695-017-2632-7.
15. Kindel SJ, Hsu HH, Hussain T, Johnson JN, McMahon CJ, Kuttly S. Multimodality Noninvasive Imaging in the Monitoring of Pediatric Heart Transplantation. *J Am Soc Echocardiogr*. 2017 Sep;30(9):859-870. doi: 10.1016/j.echo.2017.06.003. Review.
  16. Chen S, Dykes JC, McElhinney DB, Gajarski RJ, Shin AY, Hollander SA, Everitt ME, Price JF, Thiagarajan RR, Kindel SJ, Rossano JW, Kaufman BD, May LJ, Pruitt E, Rosenthal DN, Almond CS. Haemodynamic profiles of children with end-stage heart failure. *Eur Heart J*. 2017 Oct 7;38(38):2900-2909. doi: 10.1093/eurheartj/ehx456.
  17. Woods RK, Neibler RA, Kindel SJ, Mitchell ME, Tweddell JS, Hraska V. Multiple mechanical support modalities and cardiac transplantation in a young child with corrected transposition. *J Thorac Cardiovasc Surg*. 2018 May;155(5):e161-e163. doi: 10.1016/j.jtcvs.2017.11.080. Epub 2017 Dec 13.
  18. Woods RK, Kindel SJ, Mitchell ME, Hraska V, Niebler RA. Total Artificial Heart Using Bilateral Paracorporeal Pulsatile Ventricular Assist Devices in an 8.2-kg Child. *Ann Thorac Surg*. 2018 Jun;105(6):e255-e257. doi: 10.1016/j.athoracsur.2017.12.023. Epub 2018 Jan 31.
  19. Mahle WT, Hu C, Trachtenberg F, Mentzer J, Kindel SJ, Dipchand AI, Richmond ME, Daly KP, Henderson HT, Lin KY, McCulloch M, Lal AK, Schumacher KR, Jacobs JP, Atz AM, Villa CR, Burns KM, Newburger JW; Pediatric Heart Network Investigators. Heart failure after the Norwood procedure: An analysis of the Single Ventricle Reconstruction Trial. *J Heart Lung Transplant*. 2018 Jul;37(7):879-885. doi: 10.1016/j.healun.2018.02.009. Epub 2018 Feb 16.
  20. Ragalie WS, Stamm K, Mahnke D, Liang HL, Simpson P, Katz R, Tomita-Mitchell A, Kindel SJ, Zangwill S, Mitchell ME. Noninvasive Assay for Donor Fraction of Cell-Free DNA in Pediatric Heart Transplant Recipients. *J Am Coll Cardiol*. 2018 Jun 26;71(25):2982-2983. doi: 10.1016/j.jacc.2018.04.026.
  21. Landis JL, Hyland H, Kindel SJ, Punnoose A, Geddes GC. Pompe disease treatment with twice a week high dose alglucoside alfa in a patient with severe dilated cardiomyopathy. *Mol Genet Metab Rep*. 2018 May 21;16:1-4. doi: 10.1016/j.ymgmr.2018.05.002. eCollection 2018 Sep.
  22. Chen JM, Canter CE, Hsu DT, Kindel SJ, Law YM, McKeever JE, Pahl E, Schumacher KR. Current Topics and Controversies in Pediatric Heart Transplantation: Proceedings of the Pediatric Heart Transplantation Summit 2017. *World J Pediatr Congenit Heart Surg*. 2018 Sep;9(5):575-581. doi: 10.1177/2150135118782895. Review.
  23. Schubert J, Tariq M, Geddes G, Kindel S, Miller EM, Ware SM. Novel pathogenic variants in filamin C identified in pediatric restrictive cardiomyopathy. *Hum Mutat*. 2018 Dec;39(12):2083-2096. doi: 10.1002/humu.23661. Epub 2018 Oct 22.
  24. Friedland-Little JM, Hong BJ, Gossett JG, Deshpande SR, Law S, Hollifield KA, Cantor RS, Koehl D, Kindel SJ, Turrentine MW, Davies RR. Changes in renal function after left ventricular assist device placement in pediatric patients: A Pedimacs analysis. *J Heart Lung Transplant*. 2018 Oct;37(10):1218-1225. doi: 10.1016/j.healun.2018.06.016. Epub 2018 Jul 24.
  25. Peng DM, Koehl DA, Cantor RS, McMillan KN, Barnes AP, McConnell PI, Jordan J, Andersen ND, St Louis JD, Maeda K, Kirklin JK, Kindel SJ. Outcomes of children with congenital heart disease implanted with ventricular assist devices: An analysis of the Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs). *J Heart Lung Transplant*. 2019 Apr;38(4):420-430. doi: 10.1016/j.healun.2018.10.008. Epub 2018 Oct 31.
  26. Grosshuesch C, Johnson WK, DeVogel N, Yin Z, Wang T, Kindel SJ, Woods RK. Brain death interval and relationship to outcomes of pediatric cardiac transplantation. *Pediatr Transplant*. 2019 Jun;23(4):e13426. doi: 10.1111/petr.13426. Epub 2019 May 7.
  27. Sparks JD, Cantor RS, Pruitt E, Kirklin JK, Carboni M, Dreyer W, Kindel S, Ryan TD, Morrow WR. New-onset diabetes after pediatric heart transplantation: A review of the Pediatric Heart Transplant Study. *Pediatr Transplant*. 2019 Aug;23(5):e13476. doi: 10.1111/petr.13476. Epub 2019 May 24.
  28. Singh NM, Loomba RS, Kovach JR, Kindel SJ. Chronotropic incompetence in paediatric heart transplant recipients with prior congenital heart disease. *Cardiol Young*. 2019 May;29(5):667-671. doi: 10.1017/S1047951119000714. Epub 2019 Jun 6.
  29. Spearman AD, Kindel SJ, Woods RK, Ginde S. Arteriovenous fistula creation for hypoxia after single ventricle palliation: A single-institution experience and literature review. *Congenit Heart Dis*. 2019 Aug 1. doi: 10.1111/chd.12828. [Epub ahead of print]
  30. Zangwill SD, Kindel SJ, Ragalie WS, North PE, Pollow A, Hidestrand M, Tomita-Mitchell A, Stamm KD, Mitchell ME. Early changes in cell-free DNA levels in newly transplanted heart transplant patients. *Pediatr Transplant*. 2020 Feb;24(1):e13622. doi: 10.1111/petr.13622. Epub 2019 Dec 11. PMID:

31. Phillips KA, Thrush PT, Lal AK, Kindel SJ, Castleberry C, Sparks J, Daly KP, Johnson JN Marijuana in pediatric and adult congenital heart disease heart transplant listing: A survey of provider practices and attitudes. *Pediatr Transplant*. 2020 Mar;24(2):e13640. doi: 10.1111/petr.13640. Epub 2020 Jan 20. PMID: 31960528
32. Brosbe MS, Wright LK, Cantor R, Dreyer WJ, Kirmani S, Knight M, Nakano SJ, Kindel SJ, Ryan TD, Kirklin JK, Deshpande SR. Educational and learning morbidity in pediatric heart transplant recipients: A pediatric heart transplant society study. *Pediatr Transplant*. 2020 Jun;24(4):e13711. doi: 10.1111/petr.13711. Epub 2020 Apr 22. PMID: 32320118
33. Hraska V, Mitchell ME, Woods RK, Hoffman GM, Kindel SJ, Ginde S. Semin Innominate Vein Turn-down Procedure for Failing Fontan Circulation. *Thorac Cardiovasc Surg Pediatr Card Surg Annu*. 2020;23:34-40. doi: 10.1053/j.pcsu.2020.01.002. PMID: 32354545

### **Books, Chapters, and Reviews**

1. Etiology and Pathophysiology of Heart Failure. In: Kirk R, Dipchand I, Rosenthal D ISHLT Monograph Series Volume 8: ISHLT Guidelines for the Management of Pediatric Heart Failure. University of Alabama, Birmingham. Birmingham, AL 4/2014
2. Heart Failure. In: Stockwell JA, Preissig CM, Kane JM, eds. *Comprehensive Critical Care Review: Pediatric Society of Critical Care Medicine*. Mount Prospect, IL 8/2012
3. Heart Failure and Cardiac Medications. In Stockwell JA, Preissig CM, Kane JM, eds: *Comprehensive Critical Care Review: Pediatric Society of Critical Care Medicine*. Mount Prospect IL. 8/2016

### **Abstracts**

1. Kindel SJ, Le T, Schrand B, Ware SM. "High Rates of Variant Identification in Pediatric Cardiomyopathy Patients Utilizing a Massively Parallel Sequencing Approach"; Oral Platform presentation; E-PAS2010: Abstract # 2730.7 (4/2010)
2. Kindel SJ, Miller EM, Gupta R, Cripe LC, Hinton RB, Spicer RL, Towbin JA, Ware SM. "Etiology of Pediatric Cardiomyopathy: Diagnostic Yield in a Multidisciplinary Outpatient Setting"; Oral Platform Presentation; E-PAS2010: Abstract # 2135.5 (4/2010)
3. Kindel SJ, Grenier M, Ware SW, Michelfelder EM. "Diastolic Evaluation of Pediatric Patients with Familial Restrictive Cardiomyopathy: Do the Accepted Doppler Patterns of Restrictive Physiology Apply?"; Poster Presentation; *Journal of the American Society of Echocardiography* (5/2010) Vol. 24 (5)
4. Tariq M, Le T, Kindel SJ, Schrand B, Putnam P, Keddache M, Towbin JA, Ware SM "High-throughput Genetic Screening of Pediatric Cardiomyopathies using Next-generation Sequencing." Poster Presentation; Weinstein Cardiovascular Conference, 5/2011
5. Kindel SJ, Rigsby CK, DeFreitas RA, Matthews KL, Pahl E. "Cardiac MRI Improves Diagnostic Accuracy and Characterization in Children with Hypertrophic Cardiomyopathy." Poster Presentation; 4/2011
6. Kindel SJ, Joy B, Pahl E, Wald E "Eosinophilic Esophagitis (EoE) Is a Cause of Morbidity after Pediatric Heart Transplant and Is Associated with Increased Rates of Post-Transplant Lymphoproliferative Disease (PTLD)" ISHLT Annual Meeting Poster Presentation 4/2012
7. Kindel SJ, Chin C, Law Y, Burch M, Kirklin J, Naftel D, Carboni M, Arens A, Atz A, Dreyer J, Pahl E "A multi-institutional study of CAV in children from 1993-2009: Incidence, era effects and impact of the new ISHLT nomenclature." ISHLT Annual Meeting Platform Presentation 4/2012
8. Pahl E, Thrush PT, Kindel SJ, Gambetta K, Gossett JG, Costello JM, Russell H, Backer CL. Early and Intermediate-Term Outcomes After Transplantation for Restrictive Cardiomyopathy in Children (RCM). Poster presentation at The World Congress, Cape Town, South Africa, 2/2013.
9. Thrush PT, Kindel SJ, Gambetta KE, Gossett JG, Costello JM, Russell HM, Backer CL, Pahl E. Importance of Genetic Evaluation in Pediatric Restrictive Cardiomyopathy. Poster presentation at the International Society of Heart and Lung Transplantation 34rd Annual Meeting and Scientific Sessions, San Diego, CA, April 2014.
10. Davies RR, Kindel SJ, McCulloch MA, Pizarro C, Mahle WT, Morales DL: Heart Transplantation in Adolescents: Does Pediatric Experience Improve Outcomes? Oral Presentation at the International Society of Heart and Lung Transplantation. 36th Annual Meeting & Scientific Sessions, Washington DC, April 2016
11. Herma K, Ruehl C, Kinney A, Kindel S, Brosig C: School Intervention: Encouraging a New Standard of Cardiac Follow-up Care. Cardiac Neurodevelopmental Outcomes Collaborative. Ann Arbor, MI 6/2017

12. Singh N, Loomba RS, Kovach RJ, Kindel SJ: The Primary Diagnosis for Pediatric Heart Transplantation Impacts Heart Rate Response. International Society for Heart and Lung Transplantation 37th Annual Meeting
13. Ghavam, A, Ghanayem N, Woods RK, Kindel SJ, Thompson N: Incidence and Risk Factors for Failed Recovery of Pediatric Donor Hearts. International Society for Heart and Lung Transplantation 37th Annual Meeting
14. Woods RK, Kindel SJ, Punnoose A, Johnson WK, Tweddell JS, Niebler RA, Mitchell, ME: HVAD and other Modes of Mechanical Support in a 13 kg Patient Before and After Transplantation for Atrial Situs Inversus and Corrected Transposition. Pediatric Heart Transplant Summit, Seattle WA. 2017
15. Gordon A, Goot B, Punnoose A, Ke, Y, Cava JR, Krolikowski M, Kindel SJ, Samyn MM: Evaluation of Myocardial T1 Mapping and Extracellular Volume (EVC) After Pediatric Heart Transplantation: A Pilot Study. Midwest Pediatric Cardiology Society Meeting. St, Louis MO, 2017
16. Grosshuesch C, Johnson W, DeVogel N, Wang T, Kindel SJ, Woods RK: Brain Injury to Cardiac Procurement Interval and Relationship to Outcomes of Pediatric Cardiac Transplantation
17. Gordon A, Goot B, Punnoose A, Yan K, Cava JR, Krolikowski M, Kindel S, Samyn MM: Evaluation of Myocardial T1 Mapping and Extracellular Volume (ECV) After Pediatric Heart Transplantation: A Pilot Study. Joing Euro CMR/SCMR, Barcelona Spain.