



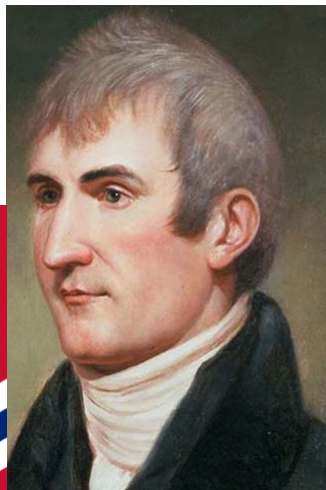
Annual Meeting April 22-24, 2026

WELCOME

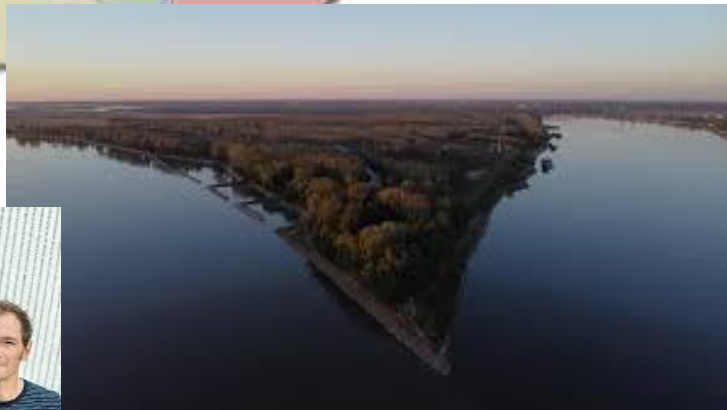
to St. Louis!



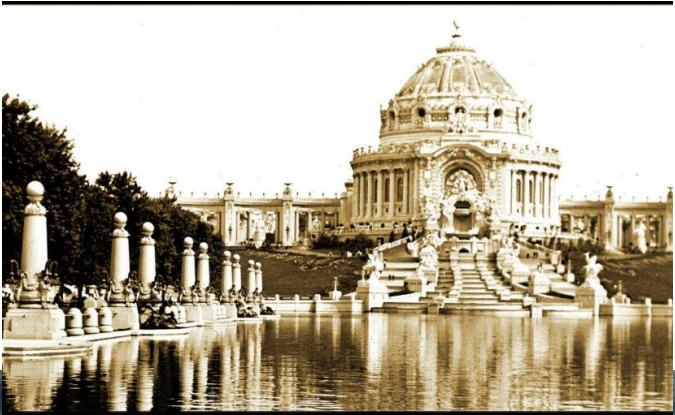
St. Louis



and Clark
-1806)



St. Louis Innovations



BABIES SENT TO THE INCUBATOR FROM ALL PARTS OF THE COUNTRY



SAVED JANE
One of the incubators, built on the plan, was brought from St. Louis, Mo. It is a complete unit, but the incubator of St. Louis, Mo. was built in 1890.

The number of babies for the incubator is not known. It is a complete unit, but the incubator of St. Louis, Mo. was built in 1890.

The incubator is a complete unit, but the incubator of St. Louis, Mo. was built in 1890.



CWE Highlights

Restaurants, bars, shopping



Missouri Botanical Garden



Forest Park



Landmarks & Recreation
– World Chess Hall of Fame

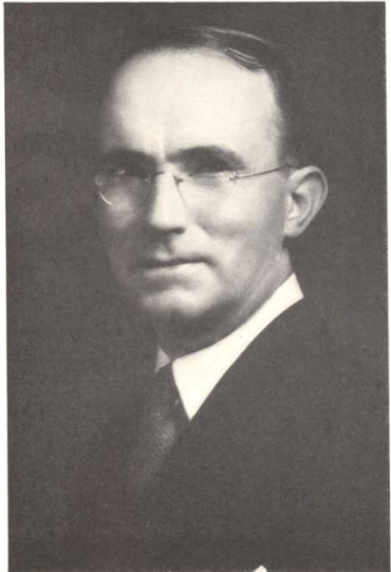


Washington University in St. Louis

SCHOOL OF MEDICINE

- Founded in 1891
- 18 Nobel laureates
- Largest MSTP program in US

The Heart Center



Hugh McCullough, MD

First pediatric cardiologist at SLCH

Co-founded the AHA (1924)

THE TOLERANCE OF CHILDREN
FOR DIGITALIS*†

BY HUGH McCULLOCH, M.D.,
and
WAYNE A. RUPE, M.D.,
St. Louis, Mo.

*Read in Section on Pediatrics, Southern Medical Association, Fifteenth Annual Meeting, Hot Springs, Ark., Nov. 14-17, 1921.
†From the Department of Pediatrics, Washington University School of Medicine.

2008: Formation of the HC



George van Hare, MD



Now & Then

1958 - 1964

- CBP cases: 253 (42 cases/yr)
- Survival:
 - VSD (81 cases) 69%
 - TOF (38 cases) 40%
- No option for heart transplant (adult or pediatric)
- Nearly 90% of babies born with severe CHD died before 1 yr of life

2019 – Present (V3)

- CBP cases: 150-210 cases/yr
- Survival:
 - VSD 100%
 - TOF 100%
- Our program has performed 670 pediatric heart transplants over 40 yrs
- Over 70% with critical, complex heart disease live to adulthood
 - ACHD

HEART LUNG PUMP CASES ACCORDING TO DIAGNOSIS
(MARCH 13, 1958 to DECEMBER 31, 1964)

	Operated	Living	Died	%Living
Interventricular septal defect	81	56	25	69
IVSD, IASD & PDA	1	0	1	0
IVSD, PDA + Coarctation of the aorta	1	0	1	0
IVSD + double outflow right ventricle	1	0	1	0
Interatrial septal defect, secundum	49	46	3	94
IASD, primum with mitral valve	12	8	4	67
A-V Communis	4	0	4	0
Aortic Stenosis	11	11	0	100
Mitral Stenosis	2	2	0	100
Mitral Insufficiency	5	1	4	20
Pulmonary atresia + IASD	1	0	1	0
Pulmonary Stenosis	9	9	0	100
Pulmonary Stenosis + IASD	13	9	4	69
Sub-aortic Stenosis	5	2	3	40
Supra-aortic Stenosis	1	1	0	100
Tetralogy of Fallot	38	15	23	40
Two-Chambered Right Ventricle	14	12	2	86
Total anomalous pulmonary venous drainage	1	0	1	0
Truncus arteriosus	1	0	1	0
Traumatic tricuspid insufficiency	1	1	0	100
Miscellaneous (AS + subAS + fibro) (MI + Fibro)	2	0	2	0
	253	173	80	68

The SLCH Heart Center Today



Providing care at 10 centers across the region

- Close partnerships with SIU in Springfield, IL and Cox Health in Springfield, MO

More than 1000 fetal echos/yr

More than 750 cardiac cath procedures/yr

670 Heart transplants in 40 years – and counting!

1st Heart-kidney transplant in Missouri

2 “Domino” valve transplants

Join Us!

PC⁴ Social Event
Wednesday, April 22



Wednesday, April 22
5:00 – 7:00PM

405 N Euclid Ave

Just a short walk through the CWE!

Joint PC⁴/PAC³ Social Event
Thursday, April 23

PC⁴/PAC³ Joint Social Event at the St. Louis Zoo!
Stroll through the Animals Aglow Lantern Festival

Thursday, April 23, 6:30-9:30PM



Rideshare drop-offs: North Lot entrance.
Appetizers and refreshments will be served

Generously sponsored by Nuwellis



Housekeeping Items

- WiFi Access: WUSM-Guest
- Continuing Education credits:
 - CME
 - CNE
 - IPCE
 - ABP MOC
- Facilities



Planning Committee

- Jamie David
- Ezinwanne Emelue
- Jennifer Epstein
- Mayte Figueroa
- Irene Garza Lazo
- Andrew Glatz
- Brittany Havel
- Lauren Hunt
- Christine Jochim
- Tara Neumayr
- Jordan Novack
- Brenna Slavens
- June Smith
- Julie Stumpf
- Jana Vogler
- Larissa Wenren





We Hope You ❤️ StL!

Welcome to Day One!



Introduction

- Year in review
 - Transitions
 - Publications
 - New sites
 - New things
- What's next
 - Version 4



Transitions: Executive Director



Sarah Tabbutt



Nikhil Chanani



Jen Schuette

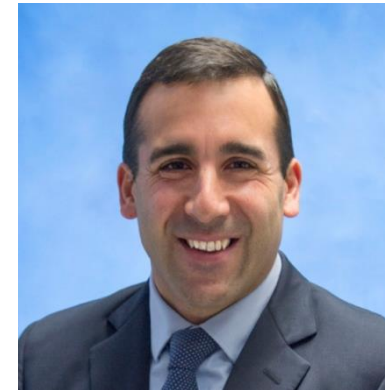
Transitions: DCC Director



Kurt Schumacher



Tara Karamlou



Nate Sznycer-Taub

Transitions: SRC Chair



Nancy Ghanayem



Nancy Ghanayem

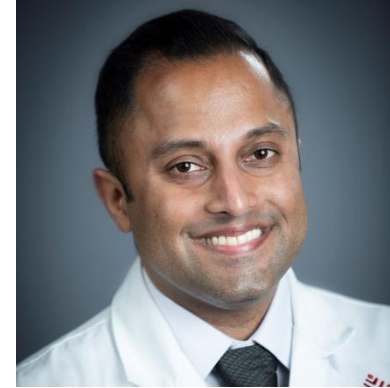


Sarah Tabbutt

Transitions: Program Chair



Sarah Tabbutt

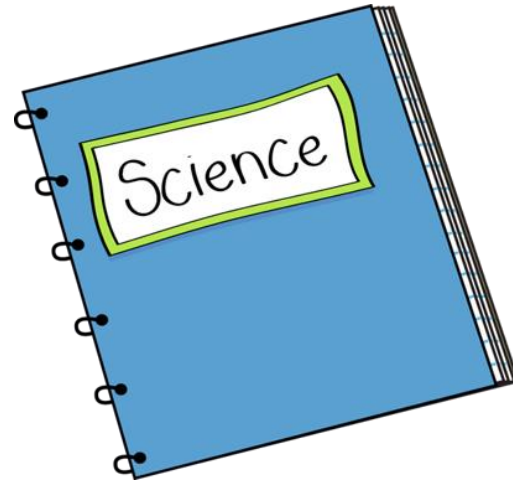


Ashish Ankola



Sarah Tabbutt

Publications



Publications

Unplanned reinterventions after congenital cardiac surgery and hospital mortality: A report from the Pediatric Cardiac Critical Care Consortium (PC⁴)

Reshma K. Reddy, MD, MS,^a Kurt R. Schumacher, MD, MS,^b Nancy S. Ghanayem, MD, MS,^c Wenying Zhang, MS,^d Katherine Mikesell, BS,^d Jeffrey A. Alten, MD,^e David K. Bailly, DO,^f Rebecca A. Bertrandt, MD,^g Joshua J. Blinder, MD,^h Jason R. Buckley, MD,^a Titus Chan, MD, MS, MPP,ⁱ Nikhil K. Chanani, MD,^j Aaron G. DeWitt, MD,^k J. Wesley Diddle, MD,^k Jennifer Gauntt, MD,^l William G. Harmon, MD,^m Jeffrey P. Jacobs, MD,ⁿ Robert B. Kelly, MD,^{o,p} Jiuann-Huey I. Lin, MD,^q Richard P. Lion, DO,^r Tia T. Raymond, MD, MBA,^s Christine M. Riley, PhD, CPNP-AC,^t Steven M. Schwartz, MD,^u Andrew Y. Shin, MD,^h Janet M. Simsic, MD,^m Anjali Sinha, MD,^h Andrew H. Smith, MD, MSCI, MMHC,^v Sarah Tabbutt, MD, PhD,^w David K. Werho, MD,^x Hayden J. Zaccagni, MD,^y and John M. Costello, MD, MPH^a

JTCVS, Nov 2025

Unplanned reinterventions after congenital cardiac surgery and hospital mortality: A report from the Pediatric Cardiac Critical Care Consortium (PC⁴)

- Consortium-wide data
- Nearly 35K patients
- Unplanned re-intervention rate = 7.6%
- Hospital mortality
 - 16% in the re-intervention group
 - 1.3% in the non-intervention group

Publications

Diaphragm dysfunction following congenital heart surgery: Epidemiology and outcomes

Michael Ruppe, MD,^a Aaron DeWitt, MD,^b Kurt R. Schumacher, MD,^c Jeffrey P. Jacobs, MD,^d Claudia A. Algaze, MD,^e Andrew Smith, MD,^f Renae Akins, RN,^a Katherine Mikesell, BS,^c Wenying Zhang, MS,^g Erle Austin, MD,^h and Javier J. Lasa, MDⁱ

JTCVS, Feb 2026 (online ahead of print)

Diaphragm dysfunction following congenital heart surgery: Epidemiology and outcomes

- Consortium-wide data
- 77K patients undergoing an index operation
- Diaphragm dysfunction rate = 1.5%
- 45% underwent plication

Publications

Early Diuretic Administration After Neonatal Cardiac Surgery and Association with Clinical Outcomes: A Report from NEPHRON

Nicole Stegmeier, MD¹ , Jeffrey Alten, MD²,
Santiago Borasino, MD³, Michael (Adam) Carlisle, MD² ,
Abhishek Chakraborty, MBBS⁴, Katja M Gist, DO, MSCS⁵ ,
Garrett Reichle, MS⁶, David Selewski, MD, MS⁷, Huaiyu Zang, PhD^{2,#},
Jill Zender, APRN, CPNP-AC⁸, and Rebecca Bertrandt, MD⁹ 

J Int Care Med, Nov 2025

Publications

RESEARCH

Exploring Racial and Ethnic Disparities in Outcomes Following Pediatric Cardiac Surgery: A NEPHRON Study Analysis

Jiaxin Huang¹ · Huaiyu Zang² · Garrett Reichle³ · Elaine Ku⁴ · Natasha Afonso⁵ · Aaron G. DeWitt⁶ · Aparna Kulkarni⁷ · Sarah Plummer⁸ · Kimberly DiMaria¹² · Jessica Thielen⁹ · David T. Selewski¹⁰ · Jeffrey Alten⁹ · Titus Chan¹¹

Ped Card, Oct 2025 online ahead of print

Publications

Pleural Drainage, Clinical Characteristics, and Management Strategies in the Perioperative Fontan Patient: A Multicenter Report

Silvestre R. Duran¹ · Melissa Winder² · Ron W. Reeder³ · Sarah T. Plummer¹ · Nathaniel Sznycer-Taub⁴ · Melanie Savoca⁵ · Michael V. DiMaria⁴ · Erin E. Gordon⁶ · Priya Bhaskar⁶ · Tia T. Raymond⁷ · Ashima Das⁷ · Alisa Tortorich⁸ · Alissa Lyman⁸ · Rebecca A. Bertrand⁹ · Benjamin W. Kozyak⁵ · Deborah U. Frank¹⁰ · Lawrence E. Greiten¹¹ · David K. Bailly² · Amy S. Lay¹²

Ped Card, Jan 2026

Publications

Central Venous Catheter Selection, Management, and Treatment of Catheter-Associated Deep Vein Thrombosis in Children Undergoing Cardiac Surgery: A Survey of Pediatric Cardiac Critical Care Consortium Centers

John S. Kim, MD¹ , Jason T. Patregnani, MD² , Ashish A. Ankola, MD³, Kurt Schumacher, MD⁴, Darren Klugman, MD⁵ , Therese M. Giglia, MD⁶, Sirine A. Baltagi, MD⁷ , Jennifer G. Baylor, MSN, CPNP-AC/PC⁸, Erin Bressler, MD⁹, Laura A. Downey, MD¹⁰, Jarrett Linder, MD¹¹, Brian S. Marcus, MD¹² , Justin Yeh, MD¹³, Wenying Zhang, MS⁴ , David K. Werho, MD¹⁴ , and on behalf of the PC⁴ Thrombosis Working Group

WJPCHS, Dec 2025

Publications




Risk Factors Associated With Central Venous Catheter-Associated Deep Vein Thrombosis After Pediatric Congenital Heart Surgery: An Analysis of the Pediatric Cardiac Critical Care Consortium Registry

**Jason T. Patregnani, MD, MBA^{1,*} , Ashish A. Ankola, MD^{2,*}, John S. Kim, MD³ ,
Laura Downey, MD⁴, Darren Klugman, MD⁵, Sirine Baltagi, MD⁶ , Jarrett Linder, MD⁷ ,
Mousumi Banerjee, PhD⁸, Wenying Zhang, MS⁹, Kate Mikesell, MS⁹,
Kurt Schumacher, MD, MS⁹, Therese Giglia, MD¹⁰, and David K. Werho, MD¹¹ **

WJPCHS, Feb 2026

Publications

Development of a High-Performing Congenital Heart Program in Vietnam



**Chau P. Nguyen, MD¹ , Huu Nhat Nguyen, MD²,
Sarah Tabbutt, MD, PhD³, Shunji Sano, MD, PhD⁴, Mark Cocalis, MD⁵,
Hung Nguyen, MD⁶, Helen Busch, RN⁷, Adriana Dobrzycka, MPH⁸,
Kathy J. Jenkins, MD⁹, Kimberlee Gauvreau, ScD⁹,
Hanh Luu Nguyen Duc¹⁰ , and Truong N. Ly Thinh, MD² **

WJPCHS, Nov 2025

Publications

QUALITY IMPROVEMENT ARTICLE


Improving preoperative enteral feeding for newborns with congenital heart disease

Paul B. Brandfonbrener ¹✉, Katharine G. Gorsky¹, Catherine Marks², Maria Hetherton ², Katelin P. Kramer¹ and Martina A. Steurer ¹

J Perinatology, Nov 2025

Publications

Pre-discharge car seat tolerance screening in infants with CHD: a single-centre review

Nicholas V. Barresi¹ , Mary D. Schiff², Frederick Roberts², Sierra Brooks³,
Olivia Frosch¹ and Evonne Morell¹

CITY, Feb 2026

Publications

Congenital & Pediatric: Research

Single-Center Use of Real-Time Society of Thoracic Surgeons Congenital Heart Surgery Data to Improve Institutional Outcomes

Camille L. Hancock Friesen, MD,^{1,2} Amanda M. McGlinchey, MHA,³
Timothé E. L'Heureux, MHA,³ Ali N. Ibrahimiyeh, MD,^{1,2} Ellen K. Kerns, PhD,³
Laura A. Ortmann, MD,^{4,5} and Subramanyan R. Kumar, MD, PhD^{1,2}

ATS, Oct 2025

PC⁴
Research in
Progress



PC⁴ Grand
Rounds

Welcome to our new PC⁴ sites!



New Things



[Home](#) [About](#) [Participants](#) [Patients & Visitors](#)

[REPORTING PLATFORM](#)

[MEMBERS AREA](#)

[CONTACT US](#)

News & Science

The latest clinical research published in the field pediatric cardiac critical care or referencing PC⁴ registry data

[See All Official PC⁴ Publications](#)

[Read More Peds CICU Articles](#)

[Using PC⁴ data in a paper?
Publication language here](#)



collaboration

[Reporting Platform](#)

[Members Area](#)



New Things

- Multi-registry projects
- Multi-registry data sharing on the reporting platform
- Reporting platform upgrades
- International sites
 - Tiered membership
- Coming soon: PC⁴ Newsletter!



New Things

VERSION 4



David Bailly, DO, Primary Children's Hospital

Nikhil Chanani, MD, (Executive Co-Director)
Children's Healthcare of Atlanta

David Cooper, MD, MPH,
Cincinnati Children's Hospital Medical
Center

Alicia DeMarco, MD, Children's Hospital Los
Angeles

Yuliya Domnina, MD, Children's National
Medical Center

Deborah Frank, MD, University of Virginia
Children's Hospital

Viki Haro, MS, CNS, UCSF Benioff Children's
Hospital

Kevin Hummel, Phoenix Children's Hospital

Mary Lukacs, RN, BSN Children's Healthcare
of Atlanta

Dana Mueller, MD, Rady Children's Hospital
San Diego

Jazmin Olvera Alonso, BS, Children's
Hospital of Los Angeles

Ivo Pandjaitan, BSN, PHN, CCRN, Children's
Hospital Los Angeles

Jen Schuette, MD, MS, Johns Hopkins
Children's Center

Sarah Tabbutt, MD, PhD, UCSF Benioff
Children's Hospital

Teresa Tobin, MSOD, RRT-NPS, Children's
Nebraska

Kelly Venezia, RN, BSN, Children's Hospital
of Philadelphia

Erin Ward, RN, BSN, Riley Children's Hospital

Hayden Zaccagni, MD, Children's Health

A Conference Unlike Any Other

- Collaboration through transparently sharing our data
- Focus on effective use of the reporting platform
- Engage with multidisciplinary participants across the consortium
- Introduction to ongoing projects and working groups
- Socialize



Thank you!

- University of Michigan team
- Our vendors
- Kim Gonzalez
- Program Committee

Solange Benjamin-Bryant, MD, Atrium Health

Becky Bertram, MD, Children's Hospital of Wisconsin

Nihal Chanani, MD, Children's Healthcare of Atlanta

David Cooper, MD, MPH, Cincinnati Children's Hospital Medical Center

Alicia DeMarchi, MD, Children's Hospital of Los Angeles

Jay Duncan, Cook Children's Hospital

Seth Gray, MD, The Hospital for Sick Children

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Jeffrey Jacobs, MD, FACS, FACC, FCCP, University of Florida

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Tanya Perry, DO, Cohen Children's Medical Center

Tia Raymond, MD, Medical City Children's Hospital

Andy Shin, MD, Lucile Packard Children's Hospital Stanford

Jen Schuette, MD, MS, (Executive Director), Johns Hopkins Children's Center

Sarah Schukei, MSN-NI, CPN, Children's Medical Center



Thank you!

To the entire hosting team in St. Louis!

