

THE 22ND SPR HANDS-ON COURSE ON PEDIATRIC CARDIOVASCULAR MRI

October 20-22 October , 2026

Course Directors: Dr. David Biko and Dr. Mark Fogel

TUESDAY, OCTOBER 20		SPEAKERS
07:30-08:00	Registration and Breakfast	All Attendees and Faculty
08:00-10:00	Foundation I	
08:00-08:15	Welcome and Introduction	
08:15-8:45	Anatomy	Chris Lam
8:45-9:45	Concurrent: Basic MRI Physics	Suraj Serai
8:45-9:45	Concurrent : Rad: Segmental Approach, v Basic Cardiac Hemodynamics and Surgeries	Raj Krishnamurthy/Lamya Atweh
9:45-10:30	Cardiac MRI Physics: Applications	Taylor Chung
10:30-11:00	Break	
11:00 - 12:30	Foundation II: CMR	
11:00-11:30	CMR Ventricular Functional Assessment 101	LaDona Malone
11:30-12:00	CMR Blood Flow Assessment 101	Karen Lyons
12:00-12:30	Number Games with CMR Data Discussion	Vivek Mutharangu
12:30 - 13:30	Lunch	All Attendees and Faculty
13:30-15:30	Foundation III: Optimization of Sequences	
13:30-14:00	Tissue Characterization Sequences	Kevin Whitehead
14:00-14:30	Angiography for Cardiac Evaluations	Cindy Rigsby
14:30-15:00	Coronary Artery Imaging	Prakash Masand
15:00-15:15	Discussion	All Faculty
15:15-15:30	Break	
15:30-17:00	Foundation IV: Essentials	
15:30-16:00	BAV and Aortopathies Essentials	Andrew Powell
16:00-16:30	Repaired TOF Essentials	David Biko
16:30-17:00	Fontan Essentials	Mark Fogel
18:00-21:00	Welcome Dinner TBD	All Attendees and Faculty

WEDNESDAY, OCTOBER 21

07:30-08:00	Breakfast	All Attendees and Faculty
08:00-08:30	Group Organization	Mark Fogel, David Biko
08:30-12:00	Group 1: Hands-On	
8:30-12:00	Group 1: Interactive MR Scanning (Novice)	Fogel, Biko, Powell
08:30-12:00	Groups 2 & 3: Foundation V Part 1	
8:30-9:00	CMR Evaluation of Cardiomyopathies and Myocarditis	Danish Vaiyani
9:00-9:30	MR Evaluation of Cardiac Masses	Rebecca Beroukhim
9:30-10:00	Break	
10:00-12:00	Groups 2 & 3: Foundation V Part 2	
10:00-10:30	MR of TGA	Sean Lang
10:30-11:00	MR of Efficient Scanning/Speeding Things Up	Josh Robinson
11:00-11:30	Disease Specific Protocols and Creating a Report	Cara Morin
11:30-12:00	Discussion	All Faculty
12:00-13:00	Lunch	All Attendees and Faculty
13:00-16:00	Groups 1-3: Hands-On	
	Group 1: Hands-On Post-Processing and Reporting (Novice)	Vaiyani, Krishnamurthy, Mutharangu
	Group 2: Interactive MR Scanning (Intermediate)	Morin, Biko, Fogel
	Group 3: Case Studies (Advanced) Followed by Guided Fireside Chat	Culham, , Robinson, Lam
16:00-16:30	How I Brought Basic CMR Course to Practice	Mike Francavilla
16:30-17:00	End of Day Discussion	All Attendees and Faculty
17:00-18:00	Pathology Specimens	Matthew Harris

THURSDAY, OCTOBER 22

08:00-08:30	Breakfast	All Attendees and Faculty
08:30-12:00	Groups 1-3: Hands-On	
	Group 1: Case Studies (Basic) Followed by Guided Fireside Chat	Culham, Francavilla, Lam
	Group 2: Hands-On Post-Processing and Reporting (Intermediate)	Rigsby, Masand, Powell
	Group 3: Interactive MR Scanning (Advanced)	Fogel, Krishnamurthy, Chung
12:00-13:00	Lunch	All Attendees and Faculty
13:00-16:30	Groups 1: Foundation V Part 1	
13:00-13:30	CMR Evaluation of Cardiomyopathies and Myocarditis	Danish Vaiyani
13:30-14:00	MR Evaluation of Cardiac Masses	Rebecca Beroukhim
13:00-16:30	Groups 2-3: Hands-On	
	Group 2: Case Studies (Intermediate) then Fireside Chat	Culham, Atweh, Browne, Lam
	Group 3: Hands-On Post-Processing and Reporting (Advanced)	Whitehead, Lyons, Mutharangu
14:00-14:30	Break	
	Groups 1: Foundation V Part 2	
14:30-15:00	MR of TGA	Sean Lang
15:00-15:30	Efficient Scanning/Speeding things up	Josh Robinson
15:30-16:00	Disease Specific Protocols and Creating a Report	Cara Morin
16:00-17:00	Groups 1-3 Round up	
16:00-16:30	Extended Discussion and Q/A	All Attendees and Faculty
16:30-17:00	Evaluation and Feedback on the Course / Adjourn	All Attendees and Faculty
17:00-17:15	Core Faculty Review of Basic Course	All Faculty
17:00-18:00	3D Modeling	Matt Jolley/Kevin Whitehead

THE 20TH SPR ADVANCED SYMPOSIUM ON PEDIATRIC CARDIOVASCULAR MR

October 23-25 , 2026

FRIDAY, OCTOBER 23		SPEAKERS
08:00-10:00	Session 1: Advanced Cardiac MR	
08:00-08:10	Introduction and Welcome	Kassa Darge, Chair of Radiology/Joe Rossano, Chief of Cardiology
08:10-08:30	Advancing Low-Field MRI: Innovation, Applications, and What's Next	Raj Krishnamurthy
08:30-08:50	Free Running 5D Flow MRI	Christopher Roy
08:50-09:10	Advanced Cardiac MRI: 4D Flow and Beyond	Ali Syed
09:10-09:30	Fingerprinting and Radiomics: Ready for Prime Time?	Nicole Seibertlich
09:30-10:00	Discussion	
10:00-10:30	Break	
10:30-12:00	Session 2: Single Ventricle	
10:30-10:50	CMR for Routine pre-Glenn and Pre-Fontan Planning: Is That all That's Needed?	Chris Lam
10:50-11:10	Advanced Ventricular Function And Hemodynamic Metrics in Single Ventricles: Are We Getting Anywhere?	Rahul Rathod
11:10-11:30	Fibrosis in Fontan Palliation	Mark Fogel
11:30-11:50	Single RV vs LV and D vs L-looped single Ventricles: The Lowdown in Single Ventricles	Gerald Greil
11:50-12:15	Discussion	
12:15-13:30	Lunch	All Attendees and Faculty
13:30-15:00	Session 3: Controversies 1	
13:30-13:50	To Coil or Not to Coil? Managing Systemic-Pulmonary Collaterals in Single-Ventricle Patients	Kevin Whitehead
13:50-14:10	CMR for Intervention in Repaired Tetralogy of Fallot: Beyond Ventricular Volumes	Andrew Powell
14:10-14:30	CMR with Implantable Devices: Updates on Safety	Ammie White
14:30-15:00	Discussion	
15:00-15:30	Break	
15:30-17:00	Session 4: Controversies 2	
15:30-15:50	Update on Anesthesia Considerations in Congenital Heart Imaging	McCluskey
15:50-16:10	Radiation Risk and Dose Management in Congenital Heart Disease Imaging	Cindy Rigsby
16:10-16:40	DEBATE: Optimal Imaging of Pediatric Pulmonary Vein Stenosis: MRI or CT?	Prakash Masand vs Mark Fogel
16:40-17:00	Pulmonary Vein Stenosis: Do You Need Non-Invasive Imaging When We Have Cath?	Ryan Callahan
17:00-17:20	Discussion	
19:00-21:00	Welcome Reception	Penn Museum?
SATURDAY, OCTOBER 24		SPEAKERS
08:00-10:00	Session 5: Valve Imaging	
08:00-08:20	Comprehensive MRI Assessment of Cardiac Valve Morphology and Function	Danish Vaiyani
08:20-08:40	Congenital Aortic Valve Disease: Pediatric Evaluation from Infancy through Adolescence	Josh Robinson
08:40-09:00	Atrioventricular Valve Disease in Children: Quantification of Regurgitation and Ventricular Response	Karen Lyons
09:00-9:20	Surgical Decision-Making for Congenital Valve Disease Across Childhood: Balancing Growth, Repair, and Reintervention	Mahammad Nuri
9.20-10:00	Discussion	
10:00-10:30	Break	
10:30-12:00	Session 6: The Ventricles and the Lungs	
10:30-10:50	Lung Imaging: MRI of Ventilation and Perfusion in Congenital Heart Disease	Jason Woods
10:50-11:10	Right Ventricular Mechanics and Modeling	Thomas Loke
11:10-11:30	Ventriculopulmonary Interactions	Vivek Muthurangu
11:30-11:50	Discussion	

12:00-13:30	Lunch	All Attendees and Faculty
13:30-15:00	Session 7 WIPS	
13:30-14:00	Lurie	Nazia Huseain/Andrada Popescu
14:00-14:30	Texas	Shagun Sachdeva
14:30-15:00	Cincinatti	Cara Morin
15:00-15:30	Break	
15:30-17:30	Session 8 : Abstracts and CT Discussion and Debate	
15:30-16:30	Abstracts	
16:30-16:45	Photon Counting CT: Basic Concepts and Advantages	Kelly Horst
16:45 - 7:15	DEBATE: Photon Count: Optimal kV Selection for Photon-Counting CTA on Pediatric CHD: High Energy or Low Energy?	Riedesel vs Malone
19:00-21:00	Faculty Dinner @ TBD	

SUNDAY, OCTOBER 25

SPEAKERS

Sunday Concurrent Sessions

08:00-10:00	Session 9A : Lymphatic Imaging and Access	
08:00-08:20	Lymphatic Access: First Step to Imaging and Intervention	Ganesh Krishnamurthy
08:20-8:45	Central Lymphatic Imaging	Ankita Chauhan
8:45-9:10	Peripheral Lymphatic Imaging	Andreas Loeining
9:10-9:35	Intrathoracic and Central Venous Pressure: Effect on Fontan Lymphatic Circulation	Chris Smith
9:35-9:50	Genetic Drivers of Pediatric Lymphatic Disease	Sarah Sheppard
9:50-10:30	Discussion	
08:00 - 10:00	Session 9B: Image Guided Surgical Interventions	
08:00 - 08:30	Surgical Planning Using Computational Modeling	Tim Slesnick
08:30 - 9:00	Forget All the Fancy Imaging For Surgical Planning - A Plain Ol' Echo Will Do.	Laura Mercer-Rosa
9:00 - 9:30	Imaging Branch Pulmonary Arteries for Unifocalization Planning	Lorna Browne
9:30 -10:00	Advanced Valve Imaging and Modeling for Surgical Planning	Danish Vaiyani
10:30-11:00	Break	
11:00-12:30	Session 10A: Lymphatic Cardiac Complications and Interventions	
11:00-11:25	Abominal Lymphatic Pathology in Congenital Heart Disease	Mudit Gupta
11:25-11:50	Catheter Based Interventions in Lymphahtics: Procedures and Managing Complications	Yoav Dori
11:50- 12:15	Lymphatic Venous Bypass and Anastomosis	Jonathan Chen
12:15- 12:30	Discussion	
11:00-12:30	Session 10B: CMR Nuances To Guide Management of Specific Diseases	
11:00-11:20	Double Outlet Right Ventricle - Surgical Considerations	Dorfman
11:20-11:40	Transposition of the Great Arteries After Arterial Switch - Are We Now Totally Fixed?	Husain
11:40- 12:00	The Malaligned Atrioventricular Canal - How Malaligned Is Too Malaligned?	Beroukhim
12:00- 12:20	The Systemic RV in A Dual Chambered Circulation - What Do We Do Now?	Alsaied
12:20-12:40	DISCUSSION	
12:20- 12:45	Closing Remarks	All Attendees and Faculty