

THE 22ND SPR BASIC HANDS-ON COURSE ON PEDIATRIC CARDIOVASCULAR MRI
October 20-22 October , 2026

Course Directors: Dr. David Biko and Dr Mark Fogel

Speakers

Tuesday, October 20 2026		Speakers
07:30-08:00	Registration and Breakfast	
08:00-10:00	Foundation I	All Attendees and Faculty
08:00-08:15	Welcome and Introduction	
08:15-8:45	Anatomy	
8:45-9:45	Concurrent: Basic MRI Physics	
8:45-9:45	Concurrent : Rad: segmental approach, v basic cardiac hemodynamics and surgeries	
9:45-10:30	Cardiac MRI Physics: Applications	Chris Lam Suraj Serai Raj Krishnamurthy/Lamya Atweh Taylor Chung
10:30-11:00	Break	
11:00 - 12:30	Foundation II: CMR	LaDona Malone Karen Lyons Vivek Mutharangu
11:00-11:30	CMR Ventricular Functional Assessment 101	
11:30-12:00	CMR Blood Flow Assessment 101	
12:00-12:30	Number Games with CMR Data Discussion	
12:30 - 13:30	Lunch	All Attendees and Faculty
13:30-15:30	Foundation III: Optimization of Sequences	Kevin Whitehead Cindy Riggsby Prakash Masand All Faculty
13:30-14:00	Tissue characterization sequences:	
14:00-14:30	Angiography for Cardiac Evaluations	
14:30-15:00	Coronary Artery Imaging	
15:00-15:15	Discussion	
15:15-15:30	Break	Andrew Powell David Biko Mark Fogel
15:30-17:00	Foundation IV: Essentials	
15:30-16:00	BAV and Aortopathies Essentials	
16:00-16:30	Repaired TOF Essentials	
16:30-17:00	Fontan Essentials	
18:00-21:00	Welcome Dinner TBD	All Attendees and Faculty
Wednesday, October 21 2026		All Attendees and Faculty
07:30-08:00	Breakfast	
08:00-08:30	Group Organization	Mark Fogel, David Biko
08:30-12:00	Group 1: Hands-On	Fogel, Biko, Powell
8:30-12:00	Group 1: Interactive MR Scanning (Novice)	
08:30-12:00	Groups 2 & 3: Foundation V Part 1	Danish Valiyani
8:30-9:00	CMR Evaluation of Cardiomyopathies and Myocarditis	

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	Sean Lang
10:00-10:30	MR of TGA	Josh Robinson
10:30-11:00	MR of Efficient scanning/speeding things up	Cara Morin
11:00-11:30	Disease Specific Protocols and creating a report	All Faculty
11:30-12:00	Discussion	
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) Group 2: Interactive MR Scanning (Intermediate) Group 3: Case Studies (Advanced) followed by Guided Fireside Chat	Vaiyanti, Krishnamurthy, Mutharangu Morfin, Biko, Fogel 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, 2026		
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 Group 2: Hands-On Post-Processing and Reporting (Intermediate) Group 3: Interactive MR Scanning (Advanced)	Culham, Francavilla, Lam Rigsby, Masand, Powell 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 13:30-14:00 MR Evaluation of Cardiac Masses	Danish Vaiyanti Rebecca Beroukhim
13:00-16:30	Groups 2-3: Hands-On Group 2: Case Studies (Intermediate) then Fireside Chat Group 3: Hands-On Post-Processing and reporting (Advanced)	Culham, Atweh, Browne, Lam Whitehead, Lyons, Mutharangu
14:00-14:30	Break	
14:30-15:00	Groups 1: Foundation V Part 2 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	All Attendees and Faculty
16:00-16:30	Extended Discussion and Q/A	All Attendees and Faculty
16:30-17:00	Evaluation and Feedback on the Course / Adjoin	All Faculty
17:00-17:15	Core Faculty Review of Basic Course	
17:00-18:00	3D Modeling	Matt Jolley/Kevin Whitehead

THE 20TH SPR ADVANCED COURSE ON PEDIATRIC CARDIOVASCULAR MR

October 23-25 , 2026

08:00-10:00 08:00-08:10 08:10-08:30 08:30-08:50 08:50-09:10 09:10-09:30 09:30-10:00 10:00-10:30 10:30-12:00 10:30-10:50 10:50-11:10 11:10-11:30 11:30-11:50 11:50-12:15 12:15-13:30 13:30-15:00 13:30-13:50 13:50-14:10 14:10-14:30 14:30-15:00 15:00-15:30 15:30-17:00 15:30-15:50 15:50-16:10 16:10-16:40 16:40-17:00 17:00-17:20 19:00-21:00 08:00-10:00 08:00-08:20 08:20-08:40 08:40-09:00 09:00-9:20 9:20-10:00 10:00-10:30 10:30-12:00 10:30-10:50 10:50-11:10 11:10-11:30	Friday Session 1: Advanced Cardiac MR Introduction and Welcome Advancing Low-Field MRI: Innovation, Applications, and What's Next Free Running 5D Flow MRI Advanced Cardiac MRI: 4D Flow and Beyond Fingerprinting and Radiomics: Ready for Prime Time? Discussion Break Friday Session 2 Single Ventricle CMR for routine pre-Glenn and Pre-Fontan Planning: Is That all That's Needed? Advanced Ventricular Function And Hemodynamic Metrics in Single Ventricles: Are We Getting Anywhere? Fibrosis in Fontan Palliation Single RV vs LV and D vs L-looped single Ventricles: The Lowdown in Single Ventricles Discussion Lunch Friday Session 3: Controversies 1 To Coil or Not to Coil? Managing Systemic-Pulmonary Collaterals in Single-Ventricle Patients CMR for Intervention in Repaired Tetralogy of Fallot: Beyond Ventricular Volumes CMR with Implantable Devices: Updates on Safety Discussion Break Friday Session 4: Controversies 2 Update on Anesthesia Considerations in Congenital Heart Imaging Radiation Risk and Dose Management In Congenital Heart Disease Imaging DEBATE: Optimal Imaging of Pediatric Pulmonary Vein Stenosis: MRI or CT? Pulmonary Vein Stenosis: Do You Need Non-Invasive Imaging When We Have Cath? Discussion Welcome Reception Saturday Session 5: Valve Imaging Comprehensive MRI Assessment of Cardiac Valve Morphology and Function Congenital Aortic Valve Disease: Pediatric Evaluation from Infancy through Adolescence Atioventricular Valve Disease in Children: Quantification of Regurgitation and Ventricular Response Surgical Decision-Making for Congenital Valve Disease Across Childhood: Balancing Growth, Repair, and Reintervention Discussion Break Saturday session 6: The Ventricles and the Lungs Lung Imaging: MRI of Ventilation and Perfusion in Congenital Heart Disease Right Ventricular Mechanics and Modeling Ventriculopulmonary Interactions	SPEAKERS (Preliminary) Kassa Darge, Chair of Radiology/Joe Rossano, Chief of Cardiology Raj Krishnamurthy Christopher Roy Ali Syed Nicole Seiberlich Chris Lam Rahul Rathod Mark Fogel Gerald Grell All Attendees and Faculty Kevin Whitehead Andrew Powell Ammie White McCluskey Cindy Rigbsy Prakash Masand vs Mark Fogel Ryan Callahan Penn Museum? Danish Vailyani Josh Robinson Karen Lyons Mahammad Nuri Jason Woods Thomas Loke Vivek Muthurangu
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11:30-11:50	Discussion	All Attendees and Faculty
12:00-13:30	Lunch	
13:30-15:00	Saturday Session 7 WIPS	
13:30-14:00	Lurie	
14:00-14:30	Texas	
14:30-15:00	Cincinnati	Nazia Huseain/Andrada Popescu Shagun Sachdeva Cara Morin
15:00-15:30	Break	
15:30-17:30	Saturday Session 8 : Abstracts and CT Discussion and Debate	
15:30-16:30	Abstracts	
16:30-16:45	Photon Counting CT: Basic Concepts and Advantages	
16:45 - 7:15	DEBATE: Photon Count: Optimal KV Selection for Photon-Counting CTA on Pediatric CHD: High Energy or Low Energy?	Kelly Horst Riedesel vs Malone
19:00-21:00	Faculty Dinner @	
Sunday Concurrent Sessions		
08:00-10:00	Sunday 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 Loehling
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	Sunday 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 Vallyani
10:30-11:00	Break	
11:00-12:30	Sunday Session 10A: Lymphatic Cardiac Complications and Interventions	
11:00-11:25	Abdominal Lymphatic Pathology In Congenital Heart Disease	Mudit Gupta
11:25-11:50	Catheter Based Interventions In Lymphatics: 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	Sunday 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?	Beroukhlm
12:00- 12:20	The Systemic RV in A Dual Chambered Circulation - What Do We Do Now?	Alsaid
12:20-12:40	DISCUSSION	
ALL	Closing Remarks	
12:20- 12:45		