

Paul M. Weinberg Congenital Cardiac Morphology Course Virtual Symposium

Tuesday, Oct. 12 to Friday, Oct. 15, 2021 Saturday, Oct. 16, 9 a.m. – 4 p.m. Optional In-person Interactive Session

Children's Hospital of Philadelphia^o Breakthroughs. Every day:

Learn more: chop.cloud-cme.com

Course Overview

This is a four-day virtual course with the option for a fifth day, in person hands-on experience and is designed to be a comprehensive examination of the morphology of congenital heart disease. The course was created and led by Paul M. Weinberg, MD, renowned cardiac morphologist, for eight years. In the course's ninth year, Dr. Weinberg's colleagues (many of whom he trained in cardiology and morphology) will carry on his legacy by continuing to provide expert content in cardiac morphology, utilizing many of Dr. Weinberg's own teaching materials. In addition, this year will feature expert cardiac morphologist, Andrew Cook, PhD. To supplement anatomic teaching, there are sessions on echocardiography, cardiac magnetic resonance imaging and surgical correlation by distinguished faculty. The purpose of the course is to fill the need for detailed knowledge of cardiac anatomy in all forms of congenital disease. The course is designed for senior, junior and trainee cardiologists, cardiothoracic surgeons, pathologists, pathology assistants, echocardiography sonographers and other medical professionals interested in congenital heart disease.

New this year, we are offering a one-day, *in-person* experience at Children's Hospital of Philadelphia, beginning at 9 a.m., that will allow attendees to review cardiac specimens with CHOP faculty. Specimen examples exhibiting many of the major forms of congenital heart defects, both unoperated and post-operative, will be available for guided review. In addition, there will be an opportunity to view our virtual specimen collection using digital and virtual reality formats. This interactive educational experience is not to be missed!



Paul M. Weinberg, MD

Paul Morris Weinberg, professor emeritus of pediatrics at the Perelman School of Medicine and Children's Hospital of Philadelphia passed away on Oct. 15, 2020, after a long battle with cancer.

As a world expert in cardiac morphology, one of his many educational contributions was creating and leading the Advanced Cardiac Morphology Course beginning in the fall of 2012. This course has grown

in popularity each year and has become an essential forum for education surrounding the anatomy of the malformed heart for trainees and seasoned professionals alike.

In its first year without Dr. Weinberg, we are changing the course name to honor his remarkable contributions to the field and pay tribute to his hard work in creating, directing and improving this course over eight years. A course bearing his name in the title was a tribute that was suggested, but not allowed during his tenure as course director. However, we believe this posthumous honor is long overdue and we endeavor to pay tribute to Dr. Weinberg by continuing this course and sharing knowledge that he so generously and patiently imparted on us for many years. While we had hoped for many more years to share in his expertise, we honor Dr. Weinberg's legacy by teaching the next generation of experts. Afterall, as Sir Isaac Newton once said in a letter to a fellow a scientist in 1675, "If I have seen further, it is by standing upon the shoulders of giants."

Dr. Weinberg was a true giant in the field of pediatric cardiology, cardiac morphology and education and his contributions will continue to impact our field for years to come.

Sincerely yours, Lindsay S. Rogers *Organizing Committee*

Meryl S. Cohen Organizing Committee

Jill J. Savla Organizing Committee



Guest Faculty



Professor Andrew Cook University College London Institute of Cardiovascular Science

Professor Cook leads the Centre for Cardiac Morphology and Development at UCL's Institute of Cardiovascular Science/Great Ormond Street Hospital. He is internationally known for his expertise in the structure and architecture of the heart, especially concerning congenital heart disease.

He is the founder of **www.cardiacmorphology.com**.

Objectives

Upon completion of this CME activity, participants will be able to:

- 1. Identify the key anatomical aspects of all forms of congenital heart disease
- 2. Apply their anatomical knowledge to performance or interpretation of imaging studies of congenital heart disease
- 3. Know the key anatomical features that influence surgical decision-making for repair of congenital heart defects
- 4. Properly classify congenital heart defects
- 5. List commonly associated congenital heart defects, as well as those that rarely or never occur together

Registration

Attendees are welcome to register online at **chop.cloud-cme.com**. Preregistration is required. The registration deadline is Friday, Oct. 1, 2021. Payment must accompany your registration form for it to be processed. Once registration has been processed, a confirmation letter will be mailed. Please note: If you do not receive a confirmation within 10 days of registration, please contact the Continuing Medical Education Department at 215-590-5263.

Fees—Before Friday, Sept. 3, 2021

\$500	Physicians
\$350	Residents, Fellows and Other
	Healthcare Professionals
\$100	Hands-on Session (additional)

Fees—After Friday, Sept. 3, 2021

\$650	Physicians
\$450	Residents, Fellows and Other
	Healthcare Professionals
\$150	Hands-on Session (additional)

ACCME Accreditation Statement

Children's Hospital of Philadelphia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

AMA Credit Designation Statement

Children's Hospital of Philadelphia designates this live activity for a maximum of 35 AMA PRA Category 1 Credit(s) TM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Cancellation and Refund Policy

Children's Hospital of Philadelphia reserves the right to cancel or postpone any course due to any unforeseen circumstances. In the event of cancellation or postponement, Children's Hospital of Philadelphia will refund any registration fees, less a \$40 service charge, but is not responsible for any related costs, charges or expenses to participants. In order to process refunds for course withdrawals, cancellation must be received in writing by Friday, Oct. 8, 2021. No refunds will be issued thereafter.



Program • Tuesday, Oct. 12, 2021 (All times are Eastern Standard Time.)

9 a.m.	Welcome and Introductory Remarks Meryl S. Cohen, MD, Jill J. Savla, MD, MSCE and Lindsay S. Rogers, MD
9:15 a.m.	Segmental Approach to Diagnosis of Congenital Heart Disease Lindsay S. Rogers, MD
10:30 a.m.	Break
10:45 a.m.	Ventricular Septal Defects Lindsay S. Rogers, MD
Noon	Common Atrioventricular Canal Andrew Cook, PhD
1 p.m.	Lunch
2 p.m.	Tricuspid Atresia Jill J. Savla, MD, MSCE
3 p.m.	Straddling Atrioventricular Valves Meryl S. Cohen, MD
3:45 p.m.	Break
4 p.m.	Echocardiography Matthew J. O'Conner, MD
4:40 p.m.	Cardiac Magnetic Resonance Matthew A. Harris, MD
5:20 p.m.	Surgery Muhammad Nuri, MBBS
6 p.m.	Adjourn



Program • Wednesday, Oct. 13, 2021 (All times are Eastern Standard Time.)

- 9 a.m. Single Ventricle Defects Andrew Cook, PhD
- 9:40 a.m. Hypoplastic Left Heart Syndrome Lindsay S. Rogers, MD
- 10:30 a.m. Break
- 10:45 a.m. Atrial Septal Defects Jill J. Savla, MD MSCE
- 12:05 p.m. Pulmonary Vein Anomalies Jill J. Savla, MD MSCE
- 12:20 p.m. Lunch Break
- 1:20 p.m. Ebstein's and Uhl Anomalies Meryl S. Cohen, MD
- 2 p.m. Coronary Artery Anomalies Lindsay S. Rogers, MD
- 2:50 p.m. Break
- **3:10 p.m.** Echocardiography Shivani M. Bhatt, MD
- **3:50 p.m.** Cardiac Magnetic Resonance *Matthew A. Harris, MD*
- 4:30 p.m. Surgery Constantine Mavroudis, MD

5:10 p.m. Adjourn

Program • Thursday, Oct. 14, 2021 (All times are Eastern Standard Time.)

9 a.m.	The Conotruncus and Ventriculo-arterial Alignments Lindsay S. Rogers, MD
9:45 a.m.	Tetralogy of Fallot Jill J. Savla, MD, MSCE
11 a.m.	Break
11:10 a.m.	Truncus Arteriosus Jill J. Savla, MD, MSCE
Noon	Transposition of the Great Arteries and Anatomically Corrected Malposition Andrew Cook, PhD
1:15 p.m.	Lunch with Professor Cook
2 p.m.	Double-outlet Ventricles Meryl S. Cohen, MD
3 p.m.	Break
3:15 p.m.	Echocardiography Michael Quartermain, MD
3:55 p.m.	Cardiac Magnetic Resonance <i>Mark Fogel, MD</i>
4:35 p.m.	Surgery Jonathan M. Chen, MD
5:15 p.m.	Adjourn



Program • Friday, Oct. 15, 2021 (All times are Eastern Standard Time.)

- 9 a.m. Pulmonary Stenosis and Atresia Jill J. Savla, MD, MSCE
- 9:50 a.m. Aortic Stenosis Meryl S. Cohen, MD
- 10:40 a.m. Break
- 10:45 a.m. Heterotaxy Syndrome Lindsay S. Rogers, MD
- Noon Lunch Break
- 1 p.m.Supero-inferior Ventricles and Criss-cross Atrioventricular Relations
Lindsay S. Rogers, MD
- 2 p.m. Aortic Arch Anomalies Jill J. Savla, MD, MSCE
- 3 p.m. Break
- **3:15 p.m.** Echocardiography Amanda Shillingford, MD
- 3:55 p.m. Cardiac Magnetic Resonance Mark Fogel, MD
- 4:35 p.m. Surgery Stephanie Fuller, MD
- 5:15 p.m. Virtual Conference Adjourns

Saturday, Oct. 16, 2021

Optional In-person Interactive Session Leonard and Madlyn Abramson Pediatric Research Center

9 a.m. - NoonHands-on SessionNoon - 1 p.m.Lunch1 - 4 p.m.Hands-on Session



Unless otherwise noted, all faculty is from Children's Hospital of Philadelphia and/or the Perelman School of Medicine at the University of Pennsylvania.

Course Directors

Meryl S. Cohen, MD Director, Fellowship Training Program in Pediatric Cardiology Attending Cardiologist Professor of Pediatrics

Lindsay S. Rogers, MD Associate Director, Fellowship Training Program in Pediatric Cardiology Attending Cardiologist Associate Professor of Clinical Pediatrics

Jill J. Savla, MD, MSCE Attending Cardiologist Assistant Professor of Pediatrics

Course Faculty

Shivani M. Bhatt, MD Attending Cardiologist Assistant Professor of Clinical Pediatrics

Jonathan M. Chen, MD Chief, Division of Cardiothoracic Surgery Professor of Surgery

Mark Fogel, MD Director, Cardiac Magnetic Resonance Attending Cardiologist Professor of Pediatrics and Radiology **Stephanie Fuller, MD** Attending Surgeon Associate Professor of Surgery

Matthew A. Harris, MD Associate Director, Cardiac Magnetic Resonance Associate Professor of Pediatrics and Radiology

Constantine Mavroudis, MD Attending Surgeon Assistant Professor of Surgery

Muhammad Nuri, MBBS Attending Surgeon Associate Professor of Clinical Surgery

Matthew J. O'Connor, MD Medical Director, Heart Failure and Transplantation Program Associate Professor of Clinical Pediatrics

Michael Quartermain, MD Director, Echocardiography Laboratory Associate Professor of Clinical Pediatrics

Amanda Shillingford, MD Medical Director, Fetal Outreach Attending Cardiologist Associate Professor of Clinical Pediatrics

©2021 The Children's Hospital of Philadelphia. 21CME0030/08-21

