

Paul M. Weinberg Congenital Cardiac Morphology Course

Monday, Oct. 17 to Friday, Oct. 21, 2022

*Leonard and Madlyn Abramson
Pediatric Research Center*



Children's Hospital
of Philadelphia®
Breakthroughs. Every day.®

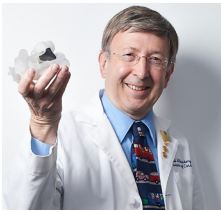
Learn more:
chop.cloud-cme.com

Course Overview

This is a five-day, in person course designed to be a comprehensive examination of the morphology of congenital heart disease. The course was created and led by Dr. Paul M. Weinberg, renowned cardiac morphologist, for eight years. Now in its 10th year, Dr. Weinberg's colleagues (many of whom he trained in cardiology and morphology) continue his legacy by delivering expert content in cardiac morphology, utilizing many of Dr. Weinberg's own teaching materials. For a second year, the course will feature expert cardiac morphologist, Andrew Cook, PhD. To supplement anatomic teaching, there are sessions on echocardiography, cardiac magnetic resonance imaging and surgical correlation led by distinguished faculty.

This year, the course will revive the hands-on specimen experience. Pathologic specimens exhibiting many of the major forms of congenital heart defects, both unoperated and post-operative, will be available for guided review. In addition, we will share our virtual specimen collection using 3D interactive and virtual reality models of heart specimens. This unique and interactive educational experience is not to be missed!

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.



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 2020, the course's first year without Dr. Weinberg, the course was named in his honor. This annual course honors Dr. Weinberg's remarkable contributions to the field and pays tribute to his hard work in creating, directing and improving this course over his tenure. A course bearing his name in the title was a tribute that was suggested, but not allowed, during his time 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 to us for many years. While we had hoped for many more years to share in Dr. Weinberg's expertise, we honor his legacy by teaching the next generation of experts. After all, as Sir Isaac Newton once said in a letter to a fellow 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 Monday, Oct. 3, 2022. 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

Early Registration (before Friday, Sept. 9, 2022)

\$550	Physicians
\$400	Residents, Fellows and Other Healthcare Professionals

After Friday, Sept. 9, 2022

\$700	Physicians
\$500	Residents, Fellows and Other Healthcare Professionals

Hotel Information

A block of rooms with reduced rates has been reserved at the Sheraton University City Hotel, 36th and Chestnut Streets, Philadelphia, PA 19104. The group rates are \$185 single and double occupancy, plus a 16.37% room tax. Participants are required to make their own hotel reservations by calling the Sheraton directly at 888-627-7071 or 215-387-8000. The special room rates will be available until Friday, Sept. 16, 2022.



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 34.5 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Services for People with Disabilities

Participation by all individuals is encouraged. If arrangements are required for an individual with special needs to attend this meeting, please contact the CHOP CME Department at 215-590-5263 at least two weeks in advance so that we may provide better service to you during the conference.

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 Monday, Oct. 10, 2022. No refunds will be issued thereafter.

Program • Monday, Oct. 17, 2022

- 7 a.m. Registration and Breakfast
- 8 a.m. **Introductory Remarks**
Lindsay S. Rogers, MD, MEd
Jill J. Savla, MD, MSCE
- 8:10 a.m. **Segmental Approach to Diagnosis of Congenital Heart Disease**
Lindsay S. Rogers, MD, MEd
- 9:30 a.m. **Break**
- 9:40 a.m. **Ventricular Septal Defects**
Lindsay S. Rogers, MD, MEd
- 10:45 a.m. **Common Atrioventricular Canal**
Andrew Cook, PhD
- 11:50 a.m. **Lunch**
- 12:50 p.m. **Hands-on Specimen Review**
- 1:50 p.m. **Tricuspid Atresia**
Jill J. Savla, MD, MSCE
- 2:50 p.m. **Break**
- 3:05 p.m. **Echocardiography**
Amanda Shillingford, MD
- 3:45 p.m. **Cardiac Magnetic Resonance**
Mark Fogel, MD
- 4:25 p.m. **Surgery**
Muhammad Nuri, MBBS
- 5:05 p.m. **Adjourn for the Day**

Program • Tuesday, Oct. 18, 2022

- 7:30 a.m. **Breakfast**
- 8 a.m. **Announcements**
Jill J. Savla, MD, MSCE
- 8:05 a.m. **Straddling Atrioventricular Valves**
Meryl S. Cohen, MD, MEd
- 8:50 a.m. **Hypoplastic Left Heart Syndrome**
Lindsay S. Rogers, MD, MEd
- 9:45 a.m. **Break**
- 9:55 a.m. **Atrial Septal Defects**
Jill J. Savla, MD, MSCE
- 10:25 a.m. **Pulmonary Vein Anomalies**
Jill J. Savla, MD, MSCE
- 11:15 a.m. **Hands-on Specimen Review**
- 12:15 p.m. **Lunch**
- 1:15 p.m. **Ebstein's and Uhl Anomalies**
Meryl S. Cohen, MD, MEd
- 2 p.m. **Anatomic Single Ventricle**
Andrew Cook, PhD
- 2:50 p.m. **Break**
- 3:05 p.m. **Echocardiography**
Shivani M. Bhatt, MD
- 3:45 p.m. **Cardiac Magnetic Resonance**
Mark Fogel, MD
- 4:25 p.m. **Surgery**
Constantine Mavroudis, MD
- 5:05 p.m. **Adjourn for the Day**

Program • Wednesday, Oct. 19, 2022

- 7:30 a.m. **Breakfast**
- 8 a.m. **Announcements**
Lindsay S. Rogers, MD, MSED
- 8:05 a.m. **Pulmonary Stenosis and Atresia**
Jill J. Savla, MD, MSCE
- 8:55 a.m. **Aortic Stenosis**
Meryl S. Cohen, MD, MSED
- 9:45 a.m. **Break**
- 9:55 a.m. **Coronary Artery Anomalies**
Lindsay S. Rogers, MD, MSED
- 10:45 a.m. **Echocardiography**
Meghan Metcalf, MD
- 11:25 a.m. **Cardiac Magnetic Resonance**
Matthew A. Harris, MD
- 12:05 p.m. **Surgery**
Jonathan M. Chen, MD
- 12:45 p.m. **Boxed Lunch**
- 1:30 p.m. **Afternoon Activity – Trolley Tour of Philadelphia**
- 3:30 p.m. **Adjourn for the Day**

Program • Thursday, Oct. 20, 2022

- 7:30 a.m. **Breakfast**
- 8 a.m. **Announcements**
Jill J. Savla, MD, MSCE
- 8:05 a.m. **The Conotruncus and Ventriculo-arterial Alignment**
Lindsay S. Rogers, MD, MEd
- 8:50 a.m. **Tetralogy of Fallot**
Jill J. Savla, MD, MSCE
- 10 a.m. **Break**
- 10:10 a.m. **Truncus Arteriosus**
Jill J. Savla, MD, MSCE
- 11 a.m. **Transposition of the Great Arteries and Anatomically Corrected Malposition**
Andrew Cook, PhD
- 12:10 p.m. **Lunch**
- 1:10 p.m. **Hands-on Specimen Review**
- 2:10 p.m. **Double-outlet Ventricles**
Meryl S. Cohen, MD, MEd
- 3:15 p.m. **Break**
- 3:25 p.m. **Echocardiography**
Michael Quartermain, MD
- 4:05 p.m. **Cardiac Magnetic Resonance**
Matthew A. Harris, MD
- 4:45 p.m. **Surgery**
Jonathan M. Chen, MD
- 5:25 p.m. **Adjourn for the Day**

Program • Friday, Oct. 21, 2022

- 7:30 a.m. **Breakfast**
- 8 a.m. **Announcements**
Lindsay S. Rogers, MD, MSED
- 8:05 a.m. **Heterotaxy Syndrome**
Lindsay S. Rogers, MD, MSED
- 9:15 a.m. **Break**
- 9:25 a.m. **Aortic Arch Anomalies**
Jill J. Savla, MD, MSCE
- 10:25 a.m. **Supero-inferior Ventricles and Crisscross Atrioventricular Relations**
Lindsay S. Rogers, MD, MSED
- 11:25 a.m. **Hands-on Specimen Review**
- 12:25 p.m. **Lunch**
- 1:25 p.m. **Echocardiography**
Andrea Jones, MD
- 2:05 p.m. **Cardiac Magnetic Resonance**
Matthew A. Harris, MD
- 2:45 p.m. **Surgery**
Stephanie Fuller, MD
- 3:25 p.m. **Conference Adjourns**

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, MSEd

*Attending Cardiologist and Associate Chief
Associate Dean for Faculty Development
Professor of Pediatrics*

Lindsay S. Rogers, MD, MSEd

*Director, Pediatric Cardiology Fellowship
Training Program
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*

Andrea Jones, MD

*Attending Cardiologist
Assistant Professor of Pediatrics*

Constantine Mavroudis, MD

*Attending Surgeon
Assistant Professor of Surgery*

Meghan Metcalf, MD

*Attending Cardiologist
Assistant Professor of Pediatrics*

Muhammad Nuri, MBBS

*Attending Surgeon
Associate Professor of Clinical Surgery*

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*