OLD PROBLEMS, NEW APPROACHES:
Innovations in the Management of Congenital Heart Disease
October 4-5, 2019
JW Marriott Essex House | New York, NY | www.cccfme.org/congenitalheart19
### Friday, October 4, 2019

**7:00 am** Registration and Continental Breakfast

**7:55 am** Welcome and Opening Remarks  
*Lars G. Svensson, MD, PhD*  
*Pedro J. del Nido, MD*

#### Session I: Hypoplastic Left Heart Syndrome – From Fetos to School Age  
**Moderators:** David Brown, MD & Alistair Phillips, MD

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| 8:00 am | Imaging – Case Presentation: Fetal Diagnosis and Intervention: Who, When, How – and Why  
*Wayne Turetzky, MD* |
| 8:15 am | Surgical – New Opportunities in the Surgical and Interventional Management of the Neonate with HLHS  
*Pedro J. del Nido, MD* |
| 8:30 am | Perioperative – Case Presentation: A Challenging Neonate and Active Management of Postoperative Clinical Trajectory  
*John Kheir, MD* |
| 8:45 am | Medical – Feeding, Monitoring and Therapeutic Management of the Interstage Baby – A Road Map for Success  
*David Brown, MD* |
| 9:00 am | Outcomes – Neurodevelopment in Single Ventricle Patients – Causes, Phenotype and Intervention  
*Jane Newburger, MD, MPH* |
| 9:15 am | Patients and Families – What Matters Most?  
*Tara Karamlou, MD* |
| 9:30 am | Discussion and Q&A |
| 10:00 am | Break |

#### Session II: Case by Case: Innovative Approaches to Complex Problems in CHD, Part I  
**Moderators:** Hani Najm, MD & Rahul Rathod, MD

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| 10:30 am | Imaging – Case 1: The Biventricular Pathway – Which Ventricles can be Recruited?  
*Rahul Rathod, MD* |
| 10:45 am | Surgical – Case 1: The Biventricular Pathway – Techniques, Outcomes and Challenges  
*Sitaram Emani, MD* |
| 11:00 am | Imaging – Case 2: Complex Heterotaxy – Imaging Strategies for Surgical Planning  
*Malek Yaman, MD* |
| 11:15 am | Surgical – Case 2: The Subpulmonary Left Ventricle in Complex Heterotaxy  
*Hani Najm, MD* |
| 11:30 am | Surgical – The Cone Procedure for Ebsteins: Technical Aspects and Outcomes  
*Pedro J. del Nido, MD* |
| 11:45 am | Surgical – The Double Switch: Who and How  
*Christopher W. Baird, MD* |
| 12:00 pm | Future Tense – Innovation in Congenital Heart Surgery: A Look Forward  
*Pedro J. del Nido, MD* |
| 12:20 pm | Discussion and Q&A |
| 12:30 pm | Lunch |

### Session III: Outcomes in Congenital Heart Surgery – Insights from Multicenter Database Research  
**Moderators:** Jane Newburger, MD, MPH & Tara Karamlou, MD

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| 1:30 pm | Risk Scores, Big Data, Star Systems and the Management of the Congenital Heart Disease: What do they tell us?  
*John E. Mayer, Jr., MD* |
| 1:50 pm | Harnessing Surgical Outcomes Data to Improve Management of our Most Complex Patients  
*Tara Karamlou, MD* |
| 2:10 pm | Discussion and Q&A |

#### Session IV: Innovative Approaches to Complex Problems in CHD, Part II  
**Moderators:** John K. Triedman, MD & Elizabeth Saarel, MD

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| 2:30 pm | Interventional – 3-D Printing and Transcatheter Valve Implantation  
*Diego Porras, MD* |
| 2:50 pm | Surgical – 3-D Printing in Congenital Heart Surgery: Who, How and Why?  
*Hani Najm, MD* |
| 3:10 pm | Surgical – Minimizing Blood Use in Cardiopulmonary Bypass  
*Khanh H. Nguyen, MD* |
| 3:30 pm | Surgical – Blood Conservation: A Model for Improved Healthcare Value  
*Alistair Phillips, MD* |
| 3:50 pm | Perioperative – Molecular Hydrogen in Resuscitation and Neuroprotection  
*John Kheir, MD* |
| 4:10 pm | Medical – Preoperative Rhythm Assessment: Scorecard for Postoperative Success  
*Elizabeth Saarel, MD* |
| 4:30 pm | Medical – Optimizing Ventricular Function Using Novel Pacing Strategies  
*Douglas Mah, MD* |
| 4:50 pm | Discussion and Q&A |
| 5:10 pm | Adjourn for Day |

### Saturday, October 5, 2019

**7:00 am** Continental Breakfast

#### Session V: Preserving and Restoring Valvular Function in Congenital Heart Disease  
**Moderators:** Pedro J. del Nido, MD & Lars G. Svensson, MD, PhD

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| 8:00 am | 3-D Echo in the Surgical Management of Valvular Heart Disease  
*Rahul Rathod, MD* |
| 8:20 am | Case: Tricuspid Valve Surgery in the Adult with RV Dysfunction  
*Pedro J. del Nido, MD* |
| 8:40 am | Case: Surgical Management of the Parachute Mitral Valve  
*Sitaram Emani, MD* |
| 9:00 am | Case: Repair of the Mitral Valve in the Adult with Congenital Heart Disease  
*Marc Gillinov, MD* |
| 9:20 am | Case: Bicuspid Valves and Connective Tissue Diseases – When and How to Replace the Dilating Aortic Root  
*Lars G. Svensson, MD, PhD* |
| 9:40 am | Case: New Options for Aortic Valve Repair  
*Christopher W. Baird, MD* |
| 10:00 am | Case: Surgical Options for Complex LV Outflow Tract Obstruction  
*Nicholas Smedira, MD, MBA* |
| 10:20 am | Discussion and Q&A |
| 10:40 am | Break |

#### Session VI: Adults with Congenital Heart Disease: The Emerging Majority in CHD  
**Moderators:** Michael Gewitz, MD & Gosta Pettersson, MD, PhD  
(two 8 minute presentations, 12 minute moderated discussion)

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| 11:00 am | Discussion: Managing the Right Ventricle in the Aging Patient with Tetralogy  
*Medical – Tara Karamlou, MD*  
*Surgical – Gosta Pettersson, MD, PhD* |
| 11:20 am | Discussion: Controlling Atrial Arrhythmias in Complex Congenital Heart Disease  
*Medical – John K. Triedman, MD*  
*Surgical – Alistair Phillips, MD* |
| 11:40 pm | Discussion: Managing the Adult with Coarctation and Hypertension  
*Medical – Keri Shafer, MD*  
*Surgical – Lars G. Svensson, MD, PhD* |
| 12:00 pm | Palliative Care in Congenital Heart Disease  
*Michael Landzberg, MD* |
| 12:20 pm | Adjourn |
**General Information**

**Location**
JW Marriott Essex House New York
160 Central Park South
New York, NY 10019

**Hotel Accommodations**
A block of guest rooms has been reserved at the JW Marriott Essex House at a reduced rate of $469.00 plus tax per night. Rooms can be booked by calling (800) – 228-9290 and identifying yourself as a conference attendee or online at https://book.passkey.com/go/CCFHeartVascularCME. The hotel block will close on Friday, September 3, 2019.

**Accreditation**
The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 11.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

**Faculty Disclosure**
The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

**Americans with Disabilities Act**
The Cleveland Clinic Foundation Center for Continuing Education fully intends to comply with the legal requirements of the Americans with Disabilities Act. If you need assistance, please notify us at least two weeks prior to the activity.

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**Registration**
Register online at [www.ccfcmce.org/congenitalheart19](http://www.ccfcmce.org/congenitalheart19)

Fee includes continental breakfasts, refreshment breaks, lunch and conference materials.

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<th>Early Bird (ends August 4)</th>
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<tr>
<td>Physician (MD, PhD)</td>
<td>$595.00</td>
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**Registration and Cancellation**
Pre-registrations are accepted until 12:00am EST Wednesday, October 2. Register on site after this date.

For questions about registration or cancellation, email us at info@jamiebelkin.com or call 216.932.3448.

Cleveland Clinic Center for Continuing Education reserves the right to cancel or postpone an activity at our sole discretion. In the unlikely event that this occurs, any registration fee(s) paid will be refunded. Be advised that Cleveland Clinic is not responsible for related costs including airline tickets, hotel costs, or any similar fee penalties incurred as a result of any trip cancellations or changes.

**Produced and managed by**

Jamie Belkin Events
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Cleveland, Ohio 44106
216.932.3448
www.jamiebelkin.com
Course Description
Innovations in imaging technologies, research studies, and surgical techniques have improved the outcomes associated with diagnosis and treatment of pediatric and adult patients with congenital heart disorders. The complexity of the pathophysiology and innovative nature of the technologies and techniques, however, have created gaps among practitioners regarding their knowledge of the advances and their implications for clinical practice. This activity is designed to improve participants’ competence and skills to diagnose and select appropriate treatment strategies for this population.

Learning Objectives
After completing this activity, the participant will be able to do the following:

- Detail the pathophysiology of hypoplastic left heart syndrome, describe imaging technologies, and summarize recent innovations in surgical approaches for treating this patient population.
- Apply recent innovations in imaging and surgery to diagnose and treat patients with complicated congenital heart dysfunctions.
- Critically appraise outcomes data on management approaches to congenital heart disease and describe their potential implications for clinical practice.
- Utilize advancements in 3-D printing technology to assess the anatomy and pathophysiology of complex congenital heart defects.
- Detail advances in surgical, medical, and perioperative strategies for managing pediatric patients with complex congenital heart disease and assess their best use in clinical practice.
- Describe state-of-the-art surgical approaches to preserving and restoring valvular function in both pediatric and adult patients.
- Present an evidence-based debate of the medical and surgical options for managing adults with congenital heart disease, specifically right ventricular dysfunction with tetralogy, atrial arrhythmias, and coarctation and hypertension.

Target Audience
Cardiologists, internal medicine, pediatricians, cardiovascular surgeons, nurses, physician assistants, and all health care providers involved in the care of patients with congenital heart disease.