

First Annual UPMC Children's Hospital of Pittsburgh's  
DaSilva Center for Ebstein's Anomaly Symposium

Saturday, February 20, 2021  
9:00 AM – 1:00 PM Eastern Time  
Children's Rangos Auditorium  
Online Zoom

***Introduction***

We are excited to host the first annual Ebstein's Anomaly Symposium at UPMC Children's Hospital of Pittsburgh. The purpose of this symposium is to provide information about the Ebstein's anomaly, the utilization of advanced diagnostic imaging, review of surgical technique, new approach to staged procedural care, and post-surgical management. The format of this course will include a series of lectures in each section. At the end of every section we have allowed time for open discussion with the audience.

We are grateful to many individuals for bringing this course to fruition. Firstly, to all the faculty who are making presentations during the course. We are particularly appreciative of our visiting professors, Professor Robert Anderson and Dr. Ruediger Lange for participating as speakers. We would also like to thank Erin Colvin for her dedication to this patient population as well as her coordination of the patient videos for this presentation. Lynda Cocco has been a tremendous help organizing this event and we are thankful for her expertise. We are very grateful to the Heart Institute of UPMC Children's Hospital of Pittsburgh for generously supporting this important educational event.

Thank you for your participation in this meeting and we look forward to seeing you at our next annual symposium!

***Program overview***

Ebstein's malformation is a rare congenital heart disease and few institutions have significant experience regarding number of patients. The clinical presentation of Ebstein anomaly is variable, as well the timing for surgical intervention. Many patients still have the surgical repair of Ebstein's anomaly postponed due to the fear of having a tricuspid valve replaced by a prosthesis instead of repaired, which would imply in many reinterventions in life. Introduced in 1993 by Dr. Da Silva, the Cone procedure became the standard surgical repair for this disease, being applicable for almost all situations, however, only few surgeons are familiar with this operation, considering the variability of anatomical presentation of this congenital heart disease. The improved approach done by UPMC team to treat newborns with Ebstein anomaly with new surgical concepts, and the capability to do valve repair in complex situations need to be divulged. All professionals involved in the treatment of this heart condition need to understand the key points in the complementary tests and in the perioperative care that are crucial for the treatment success and better long-term outcomes.

Ebstein's anomaly is a rare congenital heart defect. The Cone procedure that was developed is very specific to this patient population and is offered in only a few centers around the world. There have been advances in technique for management of this heart defect and it is important for all pediatric cardiologists to understand the options that exist to best care for their patients and increase their chance of survival with the best possible outcomes. The Children's Hospital of Pittsburgh specializes in this specific area of expertise and would like to share this knowledge with as many physicians as possible.

***Learning objectives***

Education about Ebstein's malformation, a congenital disease of Tricuspid valve, right ventricle, and right atrium, regarding Embryology, Anatomy, Complementary diagnostic tests, Contemporary indications for Surgical treatment. Demonstration of surgical steps of Cone procedure, specially the repair of complex cases

applying the Cone procedure. Education about neonatal management in very sick newborns with contemporary resources and procedures available.

This activity can improve the knowledge about this congenital heart disease, its clinical and surgical management. The main points in clinical evaluation and surgical repair will be addressed.

***Target Audience***

This course is designed for pediatric and adult cardiologists, cardiothoracic surgeons, APPs, and other medical professionals interested in congenital heart disease.

***Faculty listing***

Professor Robert H. Anderson, MD, FRCPath  
Visiting Professor  
Institute of Genetic Medicine  
Newcastle University  
Newcastle-upon-Tyne  
United Kingdom

Gaurav Arora, MD  
Associate Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Associate Director of Electrophysiology  
Associate Vice-Chair of Pediatrics, Clinical Affairs, Ambulatory Care  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Lee Beerman, MD  
Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Director, Electrophysiology Services  
Director, Pediatric Arrhythmia Program  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Adam Christopher, MD  
Assistant Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Director of Cardiology MRI and Ct Programs  
UPMC Children's Hospital of Pittsburgh  
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Erin Colvin, CRNP  
Supervisor, APP HVI  
UPMC Children's Hospital of Pittsburgh  
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Luciana Da Fonseca Da Silva, MD  
Clinical Assistant Professor  
University of Pittsburgh School of Medicine  
Department of Cardiothoracic Surgery  
Pediatric Cardiothoracic Surgery  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Jose Pedro Da Silva, MD  
Department of Cardiothoracic Surgery  
Surgical Director, Center for Valve Therapy  
Founding Director, Da Silva Center for Ebstein's Anomaly  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

William Devine, BS  
Retired Curator of the Frank E. Sherman and  
Cora C. Lenox Heart Museum  
Department of Pathology  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Jennifer Johnson, DO  
Assistant Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Director, Perinatal Cardiology  
UPMC Children's Hospital of Pittsburgh  
UPMC Magee Women's Hospital  
Pittsburgh, Pennsylvania

Jacqueline Kreutzer, MD, FACC, FSCAI  
Professor of Pediatrics  
University of Pittsburgh School of Medicine  
Peter and Ada Rossin Endowed Chair in Pediatric Cardiology  
Division Chief, Pediatric Cardiology  
Co-Director, Heart Institute  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Lizabeth Lanford, MD  
Clinical Assistant Professor  
Department of Pediatrics  
University of Pittsburgh School of Medicine  
Interim Director, Echocardiography Laboratory  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Prof. Dr. med. Rüdiger Lange  
Director of the Clinic for Cardiac and Vascular Surgery  
German Heart Center München  
München, Germany

Victor O Morell, MD  
Eugene S. Wiener Endowed Professor and Chair  
Pediatric Cardiothoracic Surgery  
Surgeon-In-Chief, UPMC Children's Hospital of Pittsburgh  
Vice Chair & Director of Cardiovascular Services, Dept. CT Surgery  
Executive Director, UPMC Heart & Vascular Institute  
Co-Director, CHP Heart Institute  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Katie Scollon, MPAS, PA-C  
Director of Pediatric Heart and Vascular Services  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Justin Yeh, MD  
Associate Professor of Critical Care Medicine and Pediatrics  
University of Pittsburgh School of Medicine  
Chief, Division of Pediatric Cardiac Intensive Care Medicine  
Co-Director, Heart Institute  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

Melita Viegas, MD  
Assistant Professor  
University of Pittsburgh School of Medicine  
Department of Cardiothoracic Surgery  
Director Pediatric Mechanical Cardiopulmonary Support  
UPMC Children's Hospital of Pittsburgh  
Pittsburgh, Pennsylvania

## AGENDA

**9:00 AM**                                 **WELCOME**  
Victor O. Morell, M.D.  
Jacqueline Kreutzer, M.D., F.A.C.C., F.S.C.A.I.

**9:05 AM – 10:15 AM**  
**EMBRYOLOGY AND DIAGNOSIS**  
Moderators:                             Jacqueline Kreutzer, M.D., F.A.C.C., F.S.C.A.I.  
Luciana Da Fonseca Da Silva, M.D.

**9:05 AM**                                 **Embryology / Anatomy**  
Professor Robert H. Anderson, MD, FRCPath (15 min)

**9:20 AM**                                 **Video Demonstration of heart specimens**  
William Devine, B.S. (10 min)

**9:30 AM**                                 **Echocardiography: what we need to know?**  
Lizabeth Lanford, M.D. (15 min)

**9:45 AM**                                 **Interesting diagnostic images**  
Adam Christopher, M.D. (15 min)

**10:00 AM**                                 DISCUSSION (10 min)

**10:10 AM**                                 The Avery Bush Family — Moderator: Erin Colvin, CRNP

**10:15- 11:15 AM**  
**SURGICAL TREATMENT**  
Moderators:                             Victor O. Morell, M.D.  
Lee Beerman, M.D.

- 10:15 AM**                    **The Cone repair: basics**  
Jose Pedro Da Silva, M.D. (15 min)
- 10:30 AM**                    **Arrhythmias: diagnosis and management**  
Gaurav Arora, M.D. (15 min)
- 10:45 AM**                    **The Cone repair: special situations**  
Jose Pedro Da Silva, M.D. (15 min)
- 11:00 AM**                    **DISCUSSION** (10 min)
- 11:10 AM**                    **The Kasyn Smith Family — Moderator: Erin Colvin, CRNP**
- 11:15 AM - 11:30 AM**                    **BREAK**
- 11:30 AM - 12:30 AM**  
**FETAL AND NEONATAL EBSTEIN’S**  
Moderators:                    Melita Viegas, M.D.  
   Justin Yeh, M.D.
- 11:30 AM**                    **Fetal diagnosis, gestational management and childbirth planning**  
Jennifer Johnson, D.O. (15 min)
- 11:45 AM**                    **Neonatal Ebstein’s care in CICU**  
Justin Yeh, M.D. (15 min)
- 12:00 PM**                    **Surgical treatment in Neonatal Ebstein’s: What is new?**  
Luciana Da Fonseca Da Silva, M.D. (15 min)
- 12:15 PM**                    **DISCUSSION** (10 min)
- 12:25 PM**                    **The Joslyn and Megan Trodglen Family — Moderator: Erin Colvin, CRNP**
- 12:30 PM – 1:00 PM**  
**RESULTS & FINAL REMARKS**
- 12:30 PM**                    **Outcomes of Da Silva Cone Procedure**  
Ruediger Lange, M.D. (15 min)
- 12:45 PM**                    **Discussion & Final remarks** (15 min)  
Jose Pedro Da Silva, M.D.  
Victor Morell, M.D.
- 1:00 PM**                    **Adjournment**

## ***Accreditation and Designation Statement***

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

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The University of Pittsburgh designates this live activity for a maximum of 3.75 *AMA PRA Category 1 Credits*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### **Physician Assistant (AAPA)**

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Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.

## ***Faculty Disclosure:***

All individuals in a position to control the content of this education activity including members of the planning committee, speakers, presenters, authors, and/or content reviewers have disclosed all relevant financial relationships with any entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The following relevant financial relationships were disclosed:

Jacqueline Kreutzer, MD, FACC, FSCAI  
Grant/Research Support: Medtronic; Edwards LifeSciences  
Consultant: Medtronic

Ruediger Lange, MD  
Consultant: Medtronic, Abbott, Highlife  
CE Speakers' Bureau: Medtronic, Abbott  
Stockholder: Highlife  
Other: Royalties - Medtronic

No other planners, members of the planning committee, speakers, presenters, authors, content reviewers and/or anyone else in a position to control the content of this education activity have relevant financial relationships to disclose.

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