









The 3rd Annual UPMC Children's Hospital of Pittsburgh's Da Silva Center for Ebstein's Anomaly Symposium

Celebrating the 30th anniversary of the world's first Cone performed by Dr. Jose Pedro da Silva

> Saturday, February 11, 2023 9:00 a.m. to 2:00 p.m. EST UPMC Children's Hospital of Pittsburgh

Interactive Didactic Sessions and NEW for this year: Multi-disciplinary Complex Cone Case Forum

Presented Live from Rangos Auditorium and Virtually via Zoom

Welcome:

We are excited to host the 3rd Annual Da Silva Center for Ebstein's Anomaly Symposium at UPMC Children's Hospital of Pittsburgh.

This year, we celebrate the 30th anniversary of the world's first successful cone procedure, performed by our own Dr. José Da Silva. To commemorate this historic milestone, we are hosting Dr. Norman Silverman who will be sharing his expertise on Ebstein imaging, as well as a presentation of three complex cases by multidisciplinary experts. Dr. Grace van Leeuwen, co-founder of the Congenital Heart Academy, will also be joining us as a panelist. We will also include a few patient stories including Dr. José Da Silva's first patient to undergo the Cone procedure.

Many individuals were instrumental in bringing this course to fruition. First, we would like to thank all the faculty who are giving presentations during the course. We are particularly appreciative of our visiting professors, Professor Norman Silverman, MD, DSc (Med.), FACC, FAHA, FASE and Grace van Leeuwen, MD, for their contributions as guest faculty. We would also like to express our gratitude to the CHP Department of Pathology for their collaboration making the unique heart specimens from the





Frank E. Sherman and Cora C. Lenox Heart Museum available for the course. In addition, we are most grateful to Mr. Bill Devine, ex curator of the Heart Museum, for his expertise and dedication to the Heart Institute's educational mission. Katie Scollon, Angie Kinnunen and Drew Berkhoudt have been a tremendous help organizing this event and we are thankful for their support. We are also appreciative of James Ferris from Massive Media for his skill and dedication to this virtual symposium.

This educational event is generously sponsored by the Heart Institute at UPMC Children's Hospital

Thank you for your participation in this meeting and we look forward to seeing you at our next Annual Da Silva Center for Ebstein's Anomaly Symposium!

Introduction:

Ebstein's malformation is a rare congenital heart disease, and few institutions have significant experience regarding the 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 with rare need for tricuspid valve replacement. However, only a few surgeons are familiar with this operation, considering the variability of anatomical presentation of this congenital heart disease. The improved approach done by the 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.

José Pedro Da Silva, Luciana Da Fonseca Da Silva, Jacqueline Kreutzer and Victor Morell

Learning Objectives:

Education about Ebstein's malformation, a congenital disease of Tricuspid valve, right ventricle, and right atrium, Anatomy, Complementary diagnostic tests, Contemporary indications for Surgical treatment. Demonstration of surgical steps of Cone procedure, especially 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 Symposium is designed for Pediatric and Adult Cardiologists, Pediatric and Adult Cardiac Surgeons, Physician Assistants, Nurse Practitioners, Nurses, and other professionals interested in Ebstein's Anomaly.

Continuing Medical Education:

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.

Physician (CME)

The University of Pittsburgh designates this live activity for a maximum of 4.5 AMA PRA Category 1 Credits[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Physician Assistant (AAPA)

The University of Pittsburgh has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for 4.5 AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

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.

Program Agenda

9 a.m.Welcome and Introduction
Jacqueline Kreutzer, MD, FACC, FSCAISession I:Anatomy and Imaging of Ebstein's Anomaly
Jacqueline Kreutzer, MD, FACC, FSCAI9:05 a.m.Video Demonstration of Heart Specimens
William Devine, BS9:15 a.m.Review of Imaging for Ebstein's Anomaly
Norman Silverman, MD9:45 a.m.Question and Answer Session



- 9:55 a.m. Ebstein's Anomaly Patient Story #1 Erin Colvin, CRNP
- Session II: Ebstein's Anomaly in the Neonate S/P Starnes: Following the Algorithm
- 10 a.m. Multi-disciplinary Complex Cone Case #1

Case Presentation: Jacqueline G. Weinberg, MD, and Lindsey N. Haack, MD

Panelists:

José Pedro da Silva, MD Mario Castro Medina, MD Norman H. Silverman, MD, DSc (Med.), FACC, FAHA, FASE Sara M. Trucco, MD, FSCAI, FACC, FPICS Lizabeth Lanford, MD Evonne M. Morell, DO

- 10:30 a.m. Question and Answer Session
- 10:45 a.m.Ebstein's Anomaly Patient Story #2Erin Colvin, CRNP
- 10:50 a.m. Break
- Session III: Ebstein's Anomaly in Children
- 11:05 a.m. Multi-disciplinary Complex Cone Case #2

Case Presentation:

Tarek Alsaied, MD, FACC, MSc

Panelists:

Adam Chistopher, MD Luciana Da Fonseca da Silva, MD Jacqueline Kreutzer, MD, FACC, FSCAI Grace van Leeuwen, MD Gaurav Arora, MD

- 11:35 a.m. Question and Answer Session
- Session IV: Ebstein's Anomaly in Adults
- 11:50 a.m. Multi-disciplinary Complex Cone Case #3

Case Presentation:



Adam Christopher, MD and Nikkan Das, MD

Panelists:

José Pedro da Silva, MD Luciana Da Fonseca da Silva, MD Arvind K. Hoskoppal, MD, MHS Jacqueline Kreutzer, MD, FACC, FSCAI Grace Van Leeuwen, MD Laura Olivieri, MD, FAHA, FSCMR

- 12:20 p.m. Question and Answer Session
- 12:35 p.m. Break
- Session V: Cone Procedure for Ebstein's Anomaly: Dr. Da Silva's Legacy
- 12:50 p.m. Ebstein's Anomaly Patient Story #3 Erin Colvin, CRNP
- 12:55 p.m. Results from our Center of the Cone Procedure for Ebstein's Anomaly Laura M. Seese, MD, MS
- 1:10 p.m. 30 Years of Cone: History of the Cone José Pedro Da Silva, MD

1:40 p.m. Final Remarks Jacqueline Kreutzer, MD, FACC, FSCAI

2 p.m. Adjournment



Course Directors:

Jose Pedro Da Silva, MD

Professor of Cardiothoracic Surgery Surgical Director, Center for Valve Therapy Founding Director, Da Silva Center for Ebstein's Anomaly Heart Institute at UPMC Children's Hospital of Pittsburgh

Luciana Da Fonseca Da Silva, MD

Assistant Professor of Cardiothoracic Surgery Heart Institute at UPMC Children's Hospital of Pittsburgh

Jacqueline Kreutzer, MD, FACC, FSCAI

Professor of Pediatrics Peter and Ada Rossin Endowed Chair in Pediatric Cardiology Division Chief, Pediatric Cardiology Co-Director, Heart Institute at UPMC Children's Hospital of Pittsburgh

Victor O. Morell, MD

Eugene S. Wiener Endowed Professor and Chair of Pediatric Cardiothoracic Surgery Surgeon-In-Chief, UPMC Children's Hospital of Pittsburgh Executive Director, UPMC Heart and Vascular Institute Co-Director, Heart Institute at UPMC Children's Hospital of Pittsburgh

Invited Faculty:

Grace van Leeuwen, MD

Assistant Professor of Clinical Pediatrics Weill Cornell Medicine—Qatar Co-Chair, Congenital Heart Academy

Norman H. Silverman, MD, DSc (Med.), FACC, FAHA, FASE

Professor of Pediatrics Honorary Faculty Emeritus, Pediatrics Stanford University Medical Center

University of Pittsburgh Faculty:

Tarek Alsaied, MD, FACC, MSc

Assistant Professor of Pediatrics Heart Institute at UPMC Children's Hospital of Pittsburgh

Gaurav Arora, MD

Associate Professor of Pediatrics Associate Director of Electrophysiology Associate Vice Chair of Pediatrics, Clinical Affairs, Ambulatory Care Heart Institute at UPMC Children's Hospital of Pittsburgh

Mario Castro Medina, MD

Assistant Professor of Cardiothoracic Surgery Heart Institute at UPMC Children's Hospital of Pittsburgh

Adam Christopher, MD

Assistant Professor of Pediatrics Director of Cardiology MRI and CT Programs Heart Institute at UPMC Children's Hospital of Pittsburgh





Erin Colvin, CRNP Supervisor, APP HVI Heart Institute at UPMC Children's Hospital of Pittsburgh

Nikkan Das, MD Pediatric Cardiology Fellow, PGY-6 Heart Institute at UPMC Children's Hospital of Pittsburgh

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

Lindsey N. Haack, MD, MS Pediatric Cardiology Fellow, PGY-6 Heart Institute at UPMC Children's Hospital of Pittsburgh

Arvind Hoskoppal, MD, MBA

Associate Professor of Pediatrics Director, Adult Congenital Heart Disease Program Heart Institute at UPMC Children's Hospital of Pittsburgh

Lizabeth Lanford, MD

Clinical Associate Professor of Pediatrics Heart Institute at UPMC Children's Hospital of Pittsburgh

Evonne M. Morell, DO

Assistant Professor of Pediatrics Director, Inpatient Cardiology Service Heart Institute at UPMC Children's Hospital of Pittsburgh

Laura Olivieri, MD, FAHA, FSCMR

Associate Professor of Pediatrics Director, Noninvasive Cardiac Imaging Heart Institute at UPMC Children's Hospital of Pittsburgh

Laura M. Seese, MD, MS

Integrated Thoracic Surgery Resident, PGY-6 UPMC Department of Cardiothoracic Surgery

Sara M. Trucco, MD, FSCAI, FACC, FPICS

Associate Professor of Pediatrics Associate Director, Cardiac Catheterization Laboratory Director, Quality Improvement for Cardiac Catheterization Heart Institute at UPMC Children's Hospital of Pittsburgh

Jacqueline Weinberg, MD

Assistant Professor of Pediatrics Interim Director, Perinatal Cardiology Heart Institute at UPMC Children's Hospital of Pittsburgh

Course Coordinators:

Katie Scollon, MPAS, PA-C

Director, Pediatric Heart and Vascular Services Heart Institute at UPMC Children's Hospital of Pittsburgh UPMC Heart and Vascular Institute

Angela E. Kinnunen, MPA

Project Manager HVI UPMC Heart and Vascular Institute

Drew Berkhoudt, MBA

Project Specialist Heart Institute at UPMC Children's Hospital of Pittsburgh





DISCLAIMER STATEMENT

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC / University of Pittsburgh Medical Center or Affiliates and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgment when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

FACULTY DISCLOSURE

All individuals in a position to control the content of this education activity have disclosed all financial relationships with any companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.

All of the relevant financial relationships for the individuals listed below have been mitigated.

Arvind Hoskoppal, MD, MBA: Consultant: Medtronic

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

Laura Olivieri, MD, FAHA, FSCMR: Grant/Research Support: R01, R01HL143468-0, NHLBI

No other 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 with any companies whose primary business.

