

CURRICULUM VITAE

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Lucile Packard Children's Hospital
Stanford University
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EDUCATION

6/90	A.B.	Harvard College, Cambridge, MA
6/96	M.S. Public Health	University of California, Berkeley, School of Public Health
6/98	M.D. Medicine	University of California, San Francisco, School of Medicine

POSTDOCTORAL TRAINING

7/98-6/00	Resident in Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA
7/00-6/01	Postdoctoral Research Fellow, Cardiovascular Genetics Laboratory Division of Cardiology, The Children's Hospital of Philadelphia, University of Pennsylvania
7/01-6/02	Senior Resident in Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA
7/02-6/05	Fellow in Pediatric Cardiology, Children's Hospital, Boston, MA
7/05-6/06	Senior Fellow in Interventional Pediatric Cardiology, Children's Hospital, Boston, MA
9/17-6/17	Stanford Leadership Development Program, Stanford Medical School, Palo Alto, CA
11/17-6/18	Stanford Biodesign Faculty Fellowship Program, Stanford Medical School, Palo Alto, CA

CURRENT LICENSURE AND CERTIFICATION

5/14-Present	State of California, Medical License
8/06-Present	American Board of Pediatrics, Certification in Pediatric Cardiology
12/15-Present	American Board of Internal Medicine, Certification in Adult Congenital Heart Disease

ACADEMIC APPOINTMENTS

7/06-6/07	Instructor in Pediatrics, Harvard Medical School, Boston, MA
6/07-12/10	Assistant Professor of Pediatrics, Harvard Medical School, Boston, MA
12/10-6/12	Associate Professor of Pediatrics, Harvard Medical School, Boston, MA
6/12-7/14	Professor of Pediatrics, Medicine, and Cardiothoracic Surgery, New York University School of Medicine, New York, NY
8/14-Present	Professor of Cardiothoracic Surgery and Pediatrics (Cardiology), Stanford University, Palo Alto, CA

HOSPITAL APPOINTMENTS

7/98-6/02	Resident in Pediatrics, The Children's Hospital of Philadelphia, Philadelphia, PA
7/98-6/02	Resident in Pediatrics, Hospital of the University of Pennsylvania, Philadelphia, PA
7/02-6/06	Clinical Fellow in Pediatric Cardiology, Children's Hospital, Boston, MA
7/06-6/07	Assistant in Cardiology, Children's Hospital, Boston, MA
6/07-12/10	Associate in Cardiology, Children's Hospital, Boston, MA
12/10-6/12	Senior Associate in Cardiology, Children's Hospital, Boston, MA
6/12-7/14	Attending Physician, New York University Langone Medical Center, New York, NY
8/14-Present	Attending Physician, Lucile Packard Children's Hospital Stanford, Palo Alto, CA
8/14-Present	Attending Physician, Stanford Hospital and Clinics, Palo Alto, CA

AWARDS AND HONORS

1987-90	John Harvard Scholar, Harvard College
1990	Magna cum laude, Harvard College
1990-1991	Japanese Ministry of Education Graduate Research Fellowship, Osaka University, Osaka, Japan

1995 Society for Pediatric Research Summer Research Fellowship
 1995-1996 J. Gordon Holmes Award, University of California, Berkeley, School of Public Health
 1999-2000 American Academy of Pediatrics Resident Research Grant
 2009 Richard D. Rowe Award in Perinatal Cardiology, Society for Pediatric Research
 2019 Hyman Levy Visiting Professor at the Kravis Children's Hospital at Mount Sinai

MAJOR COMMITTEE ASSIGNMENTS

National and Regional

2008-2012 Workgroup on Pediatric Cardiac Devices, Section of Pediatric Cardiology and Cardiac Surgery, American Academy of Pediatrics
 2009-Present Structural Heart Disease Council, Society for Cardiac Angiography and Interventions
 2009-Present Congenital Heart Disease Council, Society for Cardiac Angiography and Interventions
 2011 Program Committee, American College of Cardiology ACC.12 Annual Scientific Session
 2012-Present Scientific Committee, Transcatheter Cardiovascular Therapies (TCT) Annual Meeting
 2013-2014 Co-Course Director, Society for Cardiovascular Angiography and Interventions 2014 Scientific Sessions
 2014 National Heart, Lung, and Blood Institute (NHLBI) Special Emphasis Review Panel
 2014-2015 Course Director, Society for Cardiovascular Angiography and Interventions 2015 Scientific Sessions
 2015 National Heart, Lung, and Blood Institute (NHLBI) SBIR Grant Review Panel
 2014-Present Medtronic Clinical Evidence Advisory Committee
 2015-Present Medtronic Melody TPV Endocarditis Advisory Board
 2015-Present Co-Chair, Medtronic Global Melody TPV Publication Committee
 2016-Present Steering Committee, Medtronic Harmony Transcatheter Pulmonary Valve Clinical Study
 2016-2021 Clinical Events Committee, UNIVERSE Study (A Prospective, Open-Label, Active-Controlled Study to Evaluate the Pharmacokinetics, Pharmacodynamics, Safety, and Efficacy of Rivaroxaban for Thromboprophylaxis in Pediatric Subjects 2 to 8 Years of Age after the Fontan Procedure)
 2018-Present External Advisory Committee, Peter Munk Chair in Congenital and Structural Heart Diseases Intervention, Toronto General Hospital
 2021-Present Chair, Clinical Events Committee, Autus Size-Adjustable Valve for Surgical Pulmonary Valve Replacement Early Feasibility Study

Medical School

2008-2009 Harvard Catalyst Colloquium Series, Harvard Medical School
 Director, Translational and Emerging Technologies Curriculum
 2012-2014 Pediatric Quality Council, NYU School of Medicine
 2017-Present Stanford Child Health Research Institute Grant Review Committee

Hospital

1998-2000 Institutional Review Board, Children's Hospital of Philadelphia
 2006-2012 Scientific Review Committee, Department of Cardiology, Children's Hospital Boston
 2006-2011 Fellowship Selection Committee, Department of Cardiology, Children's Hospital Boston
 2008-2012 Translational Research Program Review Committee, Children's Hospital Boston
 2010-2012 Clinical Research Faculty Advisory Committee, Children's Hospital Boston
 2012-2014 Children's Services Steering Committee, NYU Medical Center
 2012-2014 Cardiovascular Steering Committee, NYU Medical Center
 2013-2014 Scientific Review Committee, Clinical and Translational Science Institute, NYU Medical Center
 2014-Present Executive Committee, Betty Irene Moore Lucile Packard Children's Hospital (LPCH) Heart Center
 2014-Present Business Development Committee, Betty Irene Moore LPCH Heart Center
 2015-Present Quality Assessment and Performance Improvement Committee, LPCH Heart Center
 2018-Present Steering Committee, Betty Irene Moore LPCH Heart Center Basic and Engineering Science Initiative
 2019-Present Co-Chair, Operations Committee, Betty Irene Moore LPCH Heart Center

MEMBERSHIPS, OFFICES, AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES

1998-Present Fellow, American Academy of Pediatrics
 2007-Present Member, American College of Cardiology
 2007-Present Member, Society for Pediatric Research
 2008-Present Fellow, Society for Cardiovascular Angiography and Interventions (SCAI)

2014-2017 Chair, Congenital Heart Disease Council, SCAI
 2014-2015 Co-Chair, NCDR IMPACT Registry Percutaneous Pulmonary Valve Implantation Expert Panel
 2014-2017 Research and Publications Committee, NCDR IMPACT Registry
 2017-Present STS/ACC Transcatheter Valve Therapy (TVT) Registry Dataset Update Workgroup
 2018-Present Steering Committee, National Cardiovascular Data Registry (NCDR) IMPACT Registry
 2018-Present ACC Adult Congenital Heart Disease Guideline Toolkit Work Group
 2019-Present National Cardiovascular Data Registry (NCDR) Science and Quality Oversight Committee
 2019-Present American Heart Association, Rheumatic Fever, Endocarditis, and Kawasaki Disease Committee

EDITORIAL POSITIONS

Editorships

2008-2012 Associate Editor, Circulation
 2009-2012 Consulting Editor, Circulation: Cardiovascular Interventions
 2012-Present Guest Editor, Circulation
 2012-2018 Associate Editor, Circulation: Cardiovascular Interventions
 2015-Present Associate Editor, Catheterization and Cardiovascular Interventions

Editorial Boards

2007-Present Cardiology in the Young
 2013-2018 Circulation
 2015-Present Journal of Structural Heart Disease
 2015-Present Catheterization and Cardiovascular Interventions
 2022-Present JACC: Advances

Ad Hoc Reviewer

Acta Paediatrica, American Heart Journal, American Journal of Cardiology, American Journal of Medical Genetics, American Journal of Perinatology Reports, Annals of Thoracic Surgery, Archives of Disease in Childhood, Canadian Medical Association Journal, Cardiology in the Young, Catheterization and Cardiovascular Interventions, Circulation, Circulation: Cardiovascular Imaging, Circulation: Cardiovascular Interventions, Circulation Research, Clinical Anatomy, Congenital Heart Disease, Eurointervention, Journal of the American College of Cardiology, Journal of the American Heart Association, Journal of Cardiac Magnetic Resonance, Journal of Heart Valve Disease, Journal of the Saudi Heart Association, Journal of Thoracic and Cardiovascular Surgery, New England Journal of Medicine, Pediatric Research, Pediatrics

Abstract Reviewer

Annual Scientific Session, American College of Cardiology; Annual Joint Meeting, Pediatric Academic Society/Asian Society for Pediatric Research; Society for Cardiac Angiography and Interventions Scientific Sessions; Transcatheter Cardiovascular Therapies Meeting

PRINCIPAL CLINICAL AND HOSPITAL SERVICE RESPONSIBILITIES

8/14-Present Attending Interventional Cardiologist, Cardiac Catheterization Lab, Lucile Packard Children's Hospital Stanford

MAJOR LEADERSHIP AND ADMINISTRATIVE RESPONSIBILITIES

12/08-5/12 Chair, Scientific Review Committee, Department of Cardiology, Children's Hospital Boston
 4/11-5/12 Director of Clinical Research, Department of Cardiology, Children's Hospital, Boston
 6/12-7/14 Director of Interventional Cardiology for Congenital and Structural Heart Disease, NYU Medical Center Cardiovascular Institute
 6/12-7/14 Associate Director, Division of Pediatric Cardiology, Department of Pediatrics, NYU School of Medicine and NYU Medical Center
 8/14-Present Director, Clinical and Translational Research Program, Children's Heart Center, Lucile Packard Children's Hospital Stanford
 4/16-Present Director, Pulmonary Artery Reconstruction Program, Lucile Packard Children's Hospital Stanford
 4/16-Present Co-Director, Children's Heart Center, Lucile Packard Children's Hospital Stanford
 3/17-Present Chief Medical Advisor, mProbe, Inc., Palo Alto, CA

7/18-Present Associate Director of Catheterization Laboratory for Adult Congenital Cardiac Catheterization, Lucile Packard Children's Hospital Stanford

TEACHING EXPERIENCE

- 1994-1996 University of California, Berkeley, Department of Anatomy, Head Graduate Student Instructor
Responsible for administrative oversight of 200 undergraduate students and 10 graduate student instructors for a semester-long course on human anatomy, as well as the teaching of 2 weekly laboratory sections of 20 students each and serving as back-up lecturer for lecture portion of the course
- 2004 Children's Hospital Boston
Transfusion and Blood Bank Utilization in the Catheterization Lab
- 2006-2012 Attending Cardiologist, Children's Hospital Boston
Instruction of fellows before, during, and after catheterization procedures, ≥4 hrs/wk
- 2007-2012 Attending Cardiologist, Outpatient Cardiology Service, Children's Hospital Boston
Teaching and supervision of fellows, 4-5 hrs/wk, every other week
- 2006-2012 Attending Cardiologist, Children's Hospital Boston
Bedside and didactic instruction of clinical fellows, ≥6 hrs/wk
- 2012-2014 Attending Cardiologist, NYU Medical Center
Bedside and didactic instruction of clinical fellows, ≥4 hrs/wk
- 2014-Present Attending Interventional Cardiologist, Lucile Packard Children's Hospital Stanford Heart Center
Instruction of fellows before, during, and after catheterization procedures, ≥4 hrs/wk

INVITED PRESENTATIONS

- 2006 How to Make the Left Ventricle Grow Before Surgery
American Heart Association Scientific Sessions 2006
Chicago, IL, November 12-15, 2006
- 2007 Pediatric Cardiology and Adult Congenital Heart Disease V-Poster Presentation
Invited Commentary
ACC.07 American College of Cardiology 56th Annual Scientific Session
New Orleans, LA, March 24-27, 2007
- Transcatheter Pulmonary Valve Replacement for RVOT Conduit Dysfunction
Frontiers in Pediatric Cardiology and Cardiac Surgery 2007
Boston, MA, October 4-5, 2007
- Fetal Cardiac Intervention: Can We Change the Natural History of HLHS?
Frontiers in Pediatric Cardiology and Cardiac Surgery 2007
Boston, MA, October 4-5, 2007
- Fetal Cardiac Intervention Update
2007 Advanced Fetal Care Center National Conference
Boston, MA, October 12-13, 2007
- 2008 Pediatric Cardiology and Cardiothoracic Surgery Oral Abstract Session
Invited Session Co-Chair
ACC.08 American College of Cardiology 57th Annual Scientific Session
Chicago, IL, March 30, 2008
- Prenatal Atrial Septoplasty in Fetuses with HLHS and Intact or Restrictive Atrial Septum
Third International Symposium for the Hybrid Approach to Congenital Heart Disease

Columbus, OH, June 15-18, 2008

Current Status of Fetal Cardiac Intervention
American Academy of Pediatrics, 2008 National Conference and Exhibition
Boston, MA, Oct 10-14, 2008

Critical Aortic Stenosis, HLHS, and the Borderline Left Heart: The Role of Fetal Intervention
Non-Invasive Imaging Didactic Session, Children's Hospital Boston, Department of Cardiology
Boston, MA, November 18, 2008

2009

Overview and Current Results of the Melody Valve U.S. IDE Trial
Canadian Melody Valve Implanter's Meeting
Montreal, Quebec, Canada, January 30, 2009

Update on Fetal Intervention
Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease
Nausau, Bahamas, Feb 4-8, 2009

Angiography of the Pulmonary Arteries after Surgery for Tetralogy of Fallot
Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease
Nausau, Bahamas, Feb 4-8, 2009

Heterotaxy/Isomerism: Modifications to the Fontan Procedure to Reduce the Risk of (and/or Treat)
Pulmonary Arteriovenous Malformations
Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease
Nausau, Bahamas, Feb 4-8, 2009

Percutaneous Pulmonary Valves: Current State of the Art and Future Directions
Cardiology 2009: 12th Annual Update on Pediatric and Congenital Cardiovascular Disease
Nausau, Bahamas, Feb 4-8, 2009

Invited Discussant: Case-study Breakout Session
ACHA 09: Adult Congenital Heart Association 2009 Professional Conference
Boston, MA, Apr 24-26, 2009

Current Status of Fetal Cardiac Intervention
Gaston Harrison Invited Lecture, Baylor University Medical Center
Dallas, TX, June 19, 2009

Groundbreaking Studies in the Practice of Cardiovascular Medicine
Invited Commentary
American Heart Association Scientific Sessions 2009
Orlando, FL, November 14-18, 2009

2010

Once a Transcatheter Pulmonary Valve is Available Is There Anyone Who Should Not Have One?
ACC.10 American College of Cardiology 59th Annual Scientific Session and Innovation in Intervention:
i2 Summit 2010
Atlanta, GA, March 14-16, 2010

Update on Percutaneous Pulmonary Valve Replacement Experience in the United States
ACC.10 American College of Cardiology 59th Annual Scientific Session and Innovation in Intervention:
i2 Summit 2010
Atlanta, GA, March 14-16, 2010

Congenital Cardiology Solutions Spotlight Session
Invited Session Co-Chair
ACC.10 American College of Cardiology 59th Annual Scientific Session and Innovation in Intervention:
i2 Summit 2010
Atlanta, GA, March 14-16, 2010

Overview of Results of the Melody Valve U.S. IDE Trial
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Minneapolis, MN, June 16, 2010

Update on Prenatal Intervention for Fetal Aortic Stenosis with Evolving HLHS
Fifth International Symposium for the Hybrid Approach to Congenital Heart Disease
Columbus, OH, August 31 - September 2, 2010

Invited Session Moderator: Fontan
Fifth International Symposium for the Hybrid Approach to Congenital Heart Disease
Columbus, OH, August 31 - September 2, 2010

Prenatal Intervention for Evolving Hypoplastic Left Heart Disease in the Fetus
Children's National Medical Center, Washington, DC, September 20, 2010

Interventional Cardiovascular Research: Experimental Pathways and Translational Strategies:
Computational Models and Bench Testing Systems

Invited Moderator
TCT2010: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 21-25, 2010

Atrial Septal Defect: A Case-Based Seminar
Invited Discussant
TCT2010: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 21-25, 2010

Pulmonary Insufficiency/Stenosis: The Melody Valve
TCT2010: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 21-25, 2010

Interventional Therapies for Congenital and Acquired Structural Heart Disease: Interventions on
the "Dark Side" of the Heart

Invited Discussant
TCT2010: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 21-25, 2010

Update on Transcatheter Melody Valve Implantation for RVOT Dysfunction: Outcomes and
Indications

Invited Presentation
New England Pediatric Cardiology Association Meeting
Boston, MA, October 4, 2010

Results of the Melody Valve U.S. IDE Trial
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Minneapolis, MN, October 18, 2010

2011 Implantation of the Medtronic Melody® Transcatheter Pulmonary Valve for Dysfunctional RVOT
 Conduits: Clinical Results the U.S. IDE Trial
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Minneapolis, MN, March 3, 2011

Cardiac Valve Replacement: Transcatheter Aortic, Transapical Aortic, and Pulmonary
Department of Health and Human Services, Centers for Medicare & Medicaid Services
ICD-9-CM Coordination and Maintenance Committee Meeting
Baltimore, MD, March 9, 2011

Fetal Cardiac Intervention
Columbia University, Children's Hospital of New York, Department of Pediatrics

New York, NY, March 30, 2011

Technique and Results of Transcatheter Pulmonary Valve Replacement with the Melody Valve

ACC.11 American College of Cardiology 60th Annual Scientific Session and Innovation in Intervention: i2 Summit 2011

New Orleans, LA, April 2-5, 2011

Balloon Valvotomy for Congenital Mitral Stenosis: Indications and Outcomes

ACC.11 American College of Cardiology 60th Annual Scientific Session and Innovation in Intervention: i2 Summit 2011

New Orleans, LA, April 2-5, 2011

Aortic Balloon Valvotomy: Long-Term Outcomes

ACC.11 American College of Cardiology 60th Annual Scientific Session and Innovation in Intervention: i2 Summit 2011

New Orleans, LA, April 2-5, 2011

Transcatheter Valves in Congenital Heart Disease

Joint Session of the Saudi Heart Association and the American College of Cardiology

ACC.11 American College of Cardiology 60th Annual Scientific Session and Innovation in Intervention: i2 Summit 2011

New Orleans, LA, April 2-5, 2011

Clinical and Translational Cardiology Research

Invited Moderator

Pediatric Academic Societies & Asian Society for Pediatric Research Joint Meeting

Denver, CO, April 30-May 3, 2011

Brain Scratchers: Case Presentation

Society of Cardiac Angiography and Interventions (SCAI) 2011 Scientific Sessions

Baltimore, MD, May 4-7, 2011

Oral Abstract Session

Invited Moderator

Society of Cardiac Angiography and Interventions (SCAI) 2011 Scientific Sessions

Baltimore, MD, May 4-7, 2011

Anticipation, Preparation, Prevention: Melody Valve

Society of Cardiac Angiography and Interventions (SCAI) 2011 Scientific Sessions

Baltimore, MD, May 4-7, 2011

Prenatal Intervention for Evolving Hypoplastic Left Heart Disease in the Fetus

Cardiology Fellows Lecture Series, Children's Hospital Boston, Department of Cardiology

Boston, MA, June 17, 2011

Live Case Presentation

Invited Panelist

2011 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)

Boston, MA, July 24-27, 2011

Fellows-in-Training

Invited Moderator

2011 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)

Boston, MA, July 24-27, 2011

The Perfect CV

2011 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)

Boston, MA, July 24-27, 2011

Physician Training Requirements for the “Interventional Futurist”
Invited Moderator
TCT2011: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, November 7-11, 2011

Current Experience with Transcatheter Pulmonic Valves
TCT2011: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, November 7-11, 2011

Live Cases: Adult Congenital II
Invited Discussant
TCT2011: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, November 7-11, 2011

Transcatheter Pulmonary Valve Implants: Patient Selection and Outcomes
American Heart Association Scientific Sessions 2011
Orlando, FL, November 12-16, 2011

The Art of Angiography
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

Diagnostic Cardiac Caths: Pre Glenn, Pre Fontan...What We are Looking For
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

Balloon Aortic Valvuloplasty in Infants and Children: Indications, Technique, and Outcome
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

Balloon Aortic Valvuloplasty in the Fetus
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

PDA Closure Using Devices: Indications, Technique and Outcome
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

Case Demonstration: Coarctation of the Aorta Stenting
SCAI 2011 Fall Fellows Course
Las Vegas, NV, December 5-9, 2011

2012 Impact of Fetal Intervention on Left-Sided Growth and Cerebral Blood Flow
Cardiology 2012: 16th Annual Update on Pediatric Cardiovascular Disease
Orlando, FL, February 22-26, 2012

Updated Results: Percutaneous Melody Valve Implantation
Cardiology 2012: 16th Annual Update on Pediatric Cardiovascular Disease
Orlando, FL, February 22-26, 2012

Off Label Use of the Melody Valve in Congenital Heart Disease
Cardiology 2012: 16th Annual Update on Pediatric Cardiovascular Disease
Orlando, FL, February 22-26, 2012

Building a Structural Heart Disease Program
Atrial Septal Defect Closure Course for Fellows
Philadelphia, PA, May 3-4, 2012

Prenatal Intervention for Evolving Hypoplastic Left Heart Disease in the Fetus
Cardiology Fellows Lecture Series, Children's Hospital Boston, Department of Cardiology
Boston, MA, May 11, 2012

Overview of Clinical Trial Results
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Minneapolis, MN, October 4, 2012

Shifting Paradigms and Disruptive Technologies: Transcatheter Heart Valve Therapy in Congenital
Heart Disease
Department of Pediatrics Grand Rounds, NYU Medical Center
New York, NY, October 9, 2012

Complex Congenital Intervention
Invited Discussant
TCT2012: Transcatheter Cardiovascular Therapeutics
Miami, FL, October 22-26, 2012

Percutaneous Pulmonary Valve Replacement: Indications and Technique
TCT2012: Transcatheter Cardiovascular Therapeutics
Miami, FL, October 22-26, 2012

Plenary Session XVIII. Live Cases V
Invited Discussant
TCT2012: Transcatheter Cardiovascular Therapeutics
Miami, FL, October 22-26, 2012

Session VIII. Adult Congenital Intervention III
Moderator
TCT2012: Transcatheter Cardiovascular Therapeutics
Miami, FL, October 22-26, 2012

Live Cases: Adult Congenital Intervention III
Moderator
TCT2012: Transcatheter Cardiovascular Therapeutics
Miami, FL, October 22-26, 2012

Transcatheter Interventions for Congenital and Structural Heart Disease
American Heart Association Founder's Affiliate, Annual Friends of Heart Luncheon
New York, NY, November 26, 2012

Transcatheter Intervention in the Falling or Deteriorating Fontan Circulation
Visiting Professor: University of Washington School of Medicine
Seattle, WA, December 13, 2012

Critical Aortic Stenosis HLHS and Borderline Left Hearts: What are the options?
Visiting Professor: Seattle Children's Hospital
Seattle, WA, December 14, 2012

2013 TOF with PR: We Are Not Replacing the Pulmonary Valve Too Late
ACC.13 American College of Cardiology 62nd Annual Scientific Session
San Francisco, CA, March 9-11, 2013

Advances in Understanding and Improving the Efficiency of a Fontan Circulation
Visiting Professor: The Hospital for Sick Children
Toronto, ON, April 9, 2013

Recent Advances in Transcatheter Therapy for Congenital Heart Disease
Department of Pediatrics Grand Rounds, Maimonides Medical Center

Brooklyn, NY, April 16, 2013

Managing RV Dysfunction in the Evolving Transcatheter Valve Era (Moderator)
Invited Moderator
Society of Cardiac Angiography and Interventions (SCAI) 2013 Scientific Sessions
Orlando, FL, May 8-10, 2013

Balloon Mitral Valvuloplasty
Society of Cardiac Angiography and Interventions (SCAI) 2013 Scientific Sessions
Orlando, FL, May 8-10, 2013

Complex Congenital Interventions
Invited Discussant
TCT2013: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 27-November 1, 2013

Mustard/Senning Patients: How Big a Problem?
TCT2013: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 27-November 1, 2013

2014 Intraoperative Application of Interventional Catheterization Techniques and Tools
Society of Thoracic Surgeons 50th Annual Meeting
Orlando, FL, January 25-29, 2014

Coronary Artery Compression Risk During Transcatheter Pulmonary Valve Replacement
Melody TPV Implanter Summit
Scottsdale, AZ, February 7-8, 2014

Transcatheter Therapy for Adults with Congenital and Structural Heart Disease
Division of Cardiology Grand Rounds, Mount Sinai St, Luke's Hospital
New York, NY, March 5, 2014

Transcatheter Aortic Valve Technologies: Overview and Potential Application in Patients with
Congenital Heart Disease
Society of Cardiac Angiography and Interventions (SCAI) 2014 Scientific Sessions
Las Vegas, NV, May 28-30, 2014

Using Catheter-based Therapy to Improve Fontan Physiology
Invited Moderator
Society of Cardiac Angiography and Interventions (SCAI) 2014 Scientific Sessions
Las Vegas, NV, May 28-30, 2014

Transcatheter "Valve-in-Valve" and "Valve-in-Ring" in the Tricuspid Position After Surgical Failure: The
Melody Experience
TCT2014: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 13-17, 2014

Atrial Septal Defects in Adults
Invited Digital Moderator
TCT2014: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 13-17, 2014

Fontan Circulation in the Adult Patient
Invited Digital Discussant
TCT2014: Transcatheter Cardiovascular Therapeutics
Washington, DC, September 13-17, 2014

The Forgotten Valve: The Tricuspid Valve

PCR London Valves
London, UK, September 28-30, 2014

- Transcatheter Therapy for Aortic Valve Dysfunction in Patients with Congenital Heart Disease
Stanford Healthcare, Catheterization Lab Weekly Conference
Palo Alto, CA, December 8, 2014

2015 Melody® TPV in Ross Patient Cases – How the Therapy and Implant May Differ
Melody TPV Implanter Summit
San Antonio, TX, January 16-17, 2015

Implantation Best Practices – Strategies to Minimize Long-Term Complications
Melody TPV Implanter Summit
San Antonio, TX, January 16-17, 2015

Challenges and Dilemmas: The Cardiac Catheterization Laboratory
Moderator

Cardiology 2015: 18th Annual Update on Pediatric and Congenital Cardiovascular Disease
Scottsdale, AZ, February 11-15, 2015

Transcatheter Pulmonary Valve Therapy: A Critical Evaluation of Current Devices
Cardiology 2015: 18th Annual Update on Pediatric and Congenital Cardiovascular Disease
Scottsdale, AZ, February 11-15, 2015

Outcomes for Tetralogy of Fallot and Pulmonary Atresia
Cardiology 2015: 18th Annual Update on Pediatric and Congenital Cardiovascular Disease
Scottsdale, AZ, February 11-15, 2015

Transcatheter Interventions for Adult Congenital Heart Disease
Stanford University, Division of Cardiovascular Medicine, Cardiology Grand Rounds
Palo Alto, CA, March 19, 2015

Transcatheter Interventions in Adult Congenital Heart Disease □ (and Related Acquired Conditions)
Stanford Healthcare East Bay Symposium
Oakland, CA, April 29, 2015

Complex Postoperative Pseudoaneurysms in Congenital and Acquired Heart Disease
Society of Cardiac Angiography and Interventions (SCAI) 2015 Scientific Sessions
San Diego, CA, May 6-8, 2015

Combined Session on Structural and Congenital Interventions
Invited Moderator
Society of Cardiac Angiography and Interventions (SCAI) 2015 Scientific Sessions
San Diego, CA, May 6-8, 2015

Transcatheter Pulmonary Valve Replacement: Outcomes and Indications in 2015
Kaiser Permanente Medical Group Pediatric Cardiology Webinar Series
Palo Alto, CA, August 17, 2015

The Current State of Valve-in-Valve Tricuspid Technology for Failed Bioprostheses
2015 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Las Vegas, NV, September 18-21, 2015

Transcatheter Valve-in-Valve Interventions: Beyond the RVOT
2015 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Las Vegas, NV, September 18-21, 2015

Learn the Technique: Adult Congenital Heart Disease Intervention
Invited Discussant

TCT2015: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 10-15, 2015

PDA Closure in the Adult: Guidelines for Management & Technical Considerations
TCT2015: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 10-15, 2015

Pulmonary Valvuloplasty and Replacement
Invited Discussant
TCT2015: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 10-15, 2015

Endocarditis After Transcatheter Right Heart Valve Replacement
TCT2015: Transcatheter Cardiovascular Therapeutics
San Francisco, CA, October 10-15, 2015

2016 Thinking Big, Thinking Small: Transcatheter Pulmonary Valve Replacement in 2016
The Hospital for Sick Children
Toronto, ON, January 12, 2016

Overview of IDE Study Results and Clinical Studies
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Seattle, WA, January 14, 2016

Endocarditis and Congenital Heart Disease
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Seattle, WA, January 14, 2016

Valve-in-Valve Therapy: The Changing Game
Society of Thoracic Surgeons 52nd Annual Meeting
Phoenix, AZ, January 23-27, 2016

Is Fetal Cardiac Intervention Working?
ACC.16 American College of Cardiology 65th Annual Scientific Session
Chicago, IL, April 2-4, 2016

Who Is a Candidate for Percutaneous Pulmonary Valve Replacement?
ACC.16 American College of Cardiology 65th Annual Scientific Session
Chicago, IL, April 2-4, 2016

Optimizing Management in Tetralogy of Fallot
Invited Panelist
ACC.16 American College of Cardiology 65th Annual Scientific Session
Chicago, IL, April 2-4, 2016

Endocarditis: How Has It Changed Your Practice?
Melody TPV Implanter Summit
Denver, CO, April 15-16, 2016

Dilemmas In Clinical Decision-Making Around Candidacy for Transcatheter Pulmonary Valve
Replacement
Melody TPV Implanter Summit
Denver, CO, April 15-16, 2016

Bioengineering and Pathology Session
Invited Moderator
Society of Cardiac Angiography and Interventions (SCAI) 2016 Scientific Sessions
Orlando, FL, May 4-7, 2016

Coronary Artery Assessment for Percutaneous Pulmonary Valve Implants
Society of Cardiac Angiography and Interventions (SCAI) 2016 Scientific Sessions
Orlando, FL, May 4-7, 2016

Fixing Broken Hearts with Catheters
Invited Discussant
Contemporary Diagnosis and Management of Adults with Congenital Heart Disease
Stanford, CA, May 21, 2016

Melody TPV® Clinical Evidence
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Seattle, WA, September 8, 2016

Managing Potential Complications
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Seattle, WA, September 8, 2016

Endocarditis and Congenital Heart Disease
Peer-to-Peer Training for New Melody Valve Implanters
Medtronic, Inc., Seattle, WA, September 8, 2016

Session Co-Chair
European Melody TPV Implanter Summit
London, UK, September 29-30, 2016

Percutaneous Interventions: Stents, Clips, and Valves in the Pediatric Patient
American Heart Association Scientific Sessions 2016
New Orleans, LA, November 12-16, 2016

2017 Registries – A Late Start but An Essential Part of TPVR Outcome Assessment
2017 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Miami, FL, January 15-19, 2017

Fetal Interventions – 25 Years Later
2017 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Miami, FL, January 15-19, 2017

Invited Panelist: Surgical and Transcatheter Valve Therapy for Congenital Heart Disease
ACC.17 American College of Cardiology 66th Annual Scientific Session
Washington, DC, March 16-19, 2017

Co-Chair: Precision Medicine: It's Hot, But What Is It?
ACC.17 American College of Cardiology 66th Annual Scientific Session
Washington, DC, March 16-19, 2017

Conduit Type, Pre-Stenting, and Outcomes Following TPVR
Melody TPV Implanter Summit
Orlando, FL, April 6-7, 2017

Infective Endocarditis: Reporting and Classification
Melody TPV Implanter Summit
Orlando, FL, April 6-7, 2017

Fetal Interventions: Where Are We Now?
Society of Cardiac Angiography and Interventions (SCAI) 2017 Scientific Sessions
New Orleans, LA, May 10-13, 2017

Aortic Valvuloplasty in Young Adults
Society of Cardiac Angiography and Interventions (SCAI) 2017 Scientific Sessions

New Orleans, LA, May 10-13, 2017

Catheter Solutions for the Aorta
Invited Discussant
Contemporary Diagnosis and Management of Adults with Congenital Heart Disease
Stanford, CA, June 10, 2017

Melody Transcatheter Pulmonary Valve Replacement: Clinical Overview
Chen Hsin General Hospital, Taipei, Taiwan, July 3, 2017

Transcatheter Tricuspid Valve-in-Valve Implantation
Chen Hsin General Hospital, Taipei, Taiwan, July 3, 2017

Melody Transcatheter Pulmonary Valve Replacement: Clinical Overview
National Taiwan University Hospital, Taipei, Taiwan, July 3, 2017

Balloon Aortic Valvuloplasty: Whom Should We Be Referring and What Outcomes Can We Expect?
Seventh World Congress of Pediatric Cardiology and Cardiac Surgery
Barcelona, Spain, July 16-21, 2017

Live Case: ASD Closure
Invited Moderator
Seventh World Congress of Pediatric Cardiology and Cardiac Surgery
Barcelona, Spain, July 16-21, 2017

Transcatheter Percutaneous Pulmonary Valve Implantation: Technologies of Today and the Future
University of Alberta Health Sciences Center
Edmonton, AB, September 12, 2017

Right Heart Interventions – Tricuspid and Pulmonic Valve Interventions
Invited Moderator
TCT2017: Transcatheter Cardiovascular Therapeutics
Denver, CO, Oct 29 - Nov 2, 2017

How to Avoid and Treat Complications Associated With Transcatheter Pulmonary Valve Therapy
TCT2017: Transcatheter Cardiovascular Therapeutics
Denver, CO, Oct 29 - Nov 2, 2017

The "Other 3 Valves" — Transcatheter Replacement in Congenital Patients
American Heart Association Scientific Sessions 2017
Anaheim, CA, November 11-15, 2017

Single Stage Unifocalization and Repair for Tetralogy of Fallot with Pulmonary Atresia and MAPCAs:
The Stanford Approach and Experience
The Second Fuwai International Conference on Complex Congenital Heart Disease
Beijing, China, December 1-3, 2017

The Strategy of Complex CHD in the Right Cardiac System: Treatment and Application of Hybrid
Procedures
Invited Moderator
The Second Fuwai International Conference on Complex Congenital Heart Disease
Beijing, China, December 1-3, 2017

The Evolving Role of Transcatheter Pulmonary Valve Replacement in the Management of Patients
With Congenital Heart Disease Involving the Right Ventricular Outflow Tract
The Second Fuwai International Conference on Complex Congenital Heart Disease
Beijing, China, December 1-3, 2017

2018

Transcatheter Pulmonary Valve Replacement Within Failed Bioprosthetic Valves

Medtronic Congenital Summit
Phoenix, AZ, January 18-19, 2018

Understanding and Minimizing Potential Complications
Invited Moderator
Medtronic Congenital Summit
Phoenix, AZ, January 18-19, 2018

Endocarditis After TPVR: What Are the Data and How Can We Mitigate the Risks?
Medtronic Congenital Summit
Phoenix, AZ, January 18-19, 2018

The Evolving Role of Transcatheter Pulmonary Valve Replacement in the Management of Patients
With Congenital Heart Disease Involving the Right Ventricular Outflow Tract
3rd Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery
Athens, Greece, April 12-14, 2018

Invited Session Chair
3rd Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery
Athens, Greece, April 12-14, 2018

Single-Stage Unifocalization and Repair for Tetralogy of Fallot with Pulmonary Atresia and MAPCAs:
The Stanford Approach and Experience
3rd Euro-Asian Symposium of Pediatric Cardiology and Cardiac Surgery
Athens, Greece, April 12-14, 2018

Invited Moderator
TPVR: Beyond the Basics
Society of Cardiac Angiography and Interventions (SCAI) 2018 Scientific Sessions
San Diego, CA, April 25-28, 2018

Predicting Coronary Compression in TPVR: Is Finite Element Analysis the Answer?
The International Symposium on 3D Imaging for Interventional Catheterization in CHD
Las Vegas, NV, September 5, 2018

Endocarditis of Bioprosthetic Valves: Surgical and Transcatheter
2018 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Las Vegas, NV, September 6-8, 2018

Transcatheter Therapies for ACHD: The Ever-Evolving Landscape
3rd Annual Diagnosis and Management of ACHD Symposium
Palo Alto, CA, September 22-23, 2018

Infective Endocarditis in Congenital Patients with Pulmonary Valve Replacement: Clinical Update and
Insights
European Melody Valve Proctor Meeting
Barcelona, Spain, October 9, 2018

Harmony TPV: Clinical Program and Pipeline Update
European Melody Valve Proctor Meeting
Barcelona, Spain, October 9, 2018

Infective Endocarditis in Congenital Patients with Pulmonary Valve Replacement
European Melody Valve Implanter Meeting
Barcelona, Spain, October 10, 2018

Harmony TPV: Clinical Program Update
European Melody Valve Implanter Meeting
Barcelona, Spain, October 10, 2018

Transcatheter Therapy for Native and Prosthetic Tricuspid Valve Dysfunction
Stanford's 5th Transcatheter Heart Valve and Structural Heart Disease Summit
Palo Alto, CA, October 20, 2018

Endocarditis: What's the Real Data?
CSI-UCSF Congress 2018
San Francisco, CA, October 24-25, 2018

How to Deal with the Large RVOT – Harmony
CSI-UCSF Congress 2018
San Francisco, CA, October 24-25, 2018

2019

Invited Moderator
We Had to Have a Pulmonary Valve Session
Society of Cardiac Angiography and Interventions (SCAI) 2019 Scientific Sessions
Las Vegas, NV May 19-22, 2019

Debate: My 12 y/o Daughter Has Severe PI and an RVEDVI of 145ml/m² - It's Not Time to Intervene
Society of Cardiac Angiography and Interventions (SCAI) 2019 Scientific Sessions
Las Vegas, NV, May 19-22, 2019

Understanding Complex Tetralogy of Fallot with Pulmonary Atresia
Kravis Children's Hospital at Mount Sinai
New York, NY, June 12, 2019

Evidence, Experience, and Evolution in the Clinical Research and Care of Tetralogy of Fallot
Grand Rounds, Department of Pediatrics, Icahn Mount Sinai School of Medicine
New York, NY, June 13, 2019

Beyond the Proximal PAs: Interventional Strategies for Patients With Multiple Peripheral PA Stenosis
2019 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
San Diego, CA, September 4-6, 2019

2020

Endocarditis: Should We Abandon the Melody Valve?
Heart University 'Contemporary Questions in Congenital Heart Disease' Webinar Series
Contemporary Questions in Tetralogy of Fallot: How Can We Avoid Poor Outcomes Late After Repair
Online Webinar, May 6, 2020

Percutaneous PVR endocarditis: Signal or Noise?
Cardiovascular Innovations 2020
Adult Congenital Transcatheter Intervention Symposium (ACTIS)
Online Conference, July 10-11, 2020

Impact of Conduit Stenting on Fontan Hemodynamics: When Does It Help?
2020 Pediatric and Adult Interventional Cardiac Symposium (PICS-AICS)
Online Conference, September 11-13, 2020

What's Next? The Harmony Valve US Experience
UK Melody Valve Implanters Meeting
Online Conference, November 13, 2020

2021

Transcatheter Pulmonary Valve Interventions After Bacterial Endocarditis
5th International Forum in Paediatric and Adult Congenital Cardiology and Cardiac Surgery
Online Conference, Athens, Greece, April 11, 2021

Invited Moderator
ACHD/Structural Session—Creative Applications of Current Valve Technology
Society of Cardiac Angiography and Interventions (SCAI) 2021 Scientific Sessions

Online Conference, April 29, 2021

Harmony Valve Case Presentation
Transcatheter Pulmonary Valve Replacement (TPVR): Latest Cases and Data
Society of Cardiac Angiography and Interventions (SCAI) 2021 Scientific Sessions
Online Conference, April 29, 2021

New Era of Transcatheter Pulmonary Valve Replacement
57th Annual Meeting of the Japanese Society of Pediatric Cardiology and Cardiac Surgery
Online Conference, July 10, 2021

Transcatheter Pulmonary Valve Replacement with the Harmony Valve: Surgical Considerations
74th Annual Meeting of the Japanese Association for Thoracic Surgery
Online Conference: November 1, 2021

2022 Harmony Valve Implantation in the Native RVOT: Technique and US Experience
Course Percutaneous Pulmonary Valve Implantation
Ramón y Cajal University, Madrid, Spain, Online conference: April 28, 2022

Challenging Cases of Harmony Valve Implantation
Course Percutaneous Pulmonary Valve Implantation
Ramón y Cajal University, Madrid, Spain, Online conference: April 28, 2022

Moderated Poster Session
Invited Moderator
2022 Pediatric Interventional Cardiac Symposium (PICS)
Chicago, IL, Sept 7-10, 2022

Nuances of Newly Approved Devices
Invited Moderator
2022 Pediatric Interventional Cardiac Symposium (PICS)
Chicago, IL, Sept 7-10, 2022

Harmony TPV: History and Study Evolution
Harmony Valve Investigators Meeting
Chicago, IL, Sept 8, 2022

MENTORING OF GRADUATE STUDENTS, RESIDENTS, POST-DOCTORAL FELLOWS IN RESEARCH

2005-2008 Lynn Peng, MD – Clinical Assistant Professor of Pediatrics, Stanford University
Project titles: Endovascular stenting of obstructed right ventricle-to-pulmonary artery conduits: a fifteen-year experience; Outcomes after transcatheter therapy for congenital and postoperative pulmonary vein stenosis in infants and young children
Manuscripts published: Circulation, Catheterization and Cardiovascular Interventions

2006 Ekta Khemani, MSc – Assistant Professor of Anesthesiology, Western University, London, ON
Project title: Pulmonary hypertension in former premature infants with bronchopulmonary dysplasia: clinical features and outcomes in the surfactant era
Manuscript published: Pediatrics

2007-2012 David Harrild, MD, PhD – Instructor in Pediatrics, Children's Hospital Boston
Project title: Long-term pulmonary regurgitation following balloon valvuloplasty for pulmonary stenosis
Manuscript published: Journal of the American College of Cardiology

2007-2008 Tara Swanson, MD – Assistant Professor of Pediatrics, University of Missouri-Kansas City
Project title: Truncus arteriosus: Diagnostic accuracy, outcomes, and impact of prenatal diagnosis
Manuscript published: Pediatric Cardiology

- 2007-2012 Justin Zachariah, MD – Assistant Professor in Pediatrics, Texas Children's Hospital
Project titles: Right ventricle to pulmonary artery conduit augmentation compared with replacement in young children; Extracellular matrix proteins and angiogenic factors in patients with tetralogy of Fallot and pulmonary regurgitation.
Manuscripts published: Annals of Thoracic Surgery
- 2008 Jessica Maglione, MD – Private Practice Dermatologist, Portland, ME
Project title: Ultra-high-pressure balloon angioplasty for treatment of resistant stenosis within or adjacent to previously implanted pulmonary arterial stents
Manuscript published: Circulation: Cardiovascular Interventions
- 2008-2009 Alaina Kipps, MD – Clinical Assistant Professor of Pediatrics, Stanford University
Project title: Exercise function of children with congenital aortic stenosis following aortic valvuloplasty during early infancy
Manuscript published: Congenital Heart Disease
- 2008-2011 Melanie Vogel, MD – Assistant Professor, Justus-Liebig University, Giessen, Germany
Multiple projects concerning fetal cardiac diagnosis and outcome
Manuscripts published: Ultrasound in Obstetrics and Gynecology, American Journal of Cardiology, Prenatal Diagnosis and Therapy
- 2008-2010 Joshua Robinson, MD – Assistant Professor of Pediatrics, Northwestern University Feinberg School of Medicine
Projects concerning balloon mitral valvuloplasty and intraoperative pulmonary valve dilation
Manuscripts published: American Journal of Cardiology, Journal of Thoracic and Cardiovascular Surgery
- 2008-2012 Diego Porras, MD – Assistant Professor of Pediatrics, Children's Hospital Boston
Project titles: Factors associated with arch reintervention after balloon aortoplasty in patients with a Norwood procedure; Outcomes of stents placed in the ventricular septum or subvalvar systemic outflow tract
Manuscripts published: Journal of the American College of Cardiology, Circulation: Cardiovascular Interventions
- 2008-2011 Puneeta Arya, MD – Pediatric Cardiologist, Massachusetts General Hospital, Boston, MA
Project titles: Lymphatic dysfunction and post-operative chylothorax in patients with congenital heart disease; Moya Moya syndrome and peripheral pulmonary arterial stenosis
Manuscripts in preparation
- 2009-2011 Michelle Carr, MD – Consultant in Paediatric Cardiology, Great Ormond Street Hospital
Project title: Is bare metal stenting an effective treatment for obstructed small-diameter homograft conduits in the right ventricular outflow tract?
Recipient of the 2010 Education Travel Grant from the American Academy of Pediatrics Section on Cardiology and Cardiac Surgery
Manuscript published: Catheterization and Cardiovascular Interventions
- 2009-2012 Benjamin Kozyak, MD – Resident in Pediatrics, Children's Hospital Boston
Project title: Ventricular function and synchrony after device closure of multiple ventricular septal defects
Recipient of the Lovejoy Resident Research and Education Award, Children's Hospital Boston
Manuscript in preparation
- 2009-2012 Sowmya Balasubramanian, MD – Clinical Assistant Professor of Pediatrics, Stanford University
Project title: Outcome of bare metal, drug-eluting, and covered stents implanted for congenital and postoperative pulmonary vein stenosis in children
Manuscript published: Circulation: Cardiovascular Interventions
- 2009-2012 Amalia Lund, BS – Premedical Student, Research Assistant

- Project title: Early reintervention on the pulmonary arteries and right ventricular outflow tract after repair of truncus arteriosus in neonates and young infants
Manuscript published: American Journal of Cardiology
- 2009-2012 Jill Shivapour, MD – Assistant Professor of Pediatrics, Case Western Reserve University
Project titles: Sources and predictors of discrepancy in echocardiographic and directly measured transvalvar pressure gradients in patients with aortic stenosis; Natural history of native valvar aortic stenosis and residual/recurrent aortic stenosis after treatment with balloon valvuloplasty
In progress
- 2010-2012 Kevin Friedman, MD – Assistant Professor of Pediatric Cardiology, Children’s Hospital Boston
Project title: Diastolic function in patients who have undergone in utero aortic valvuloplasty for evolving hypoplastic left heart syndrome
Recipient of the 2010 Education Travel Grant from the American Academy of Pediatrics Section on Cardiology and Cardiac Surgery
Manuscript published: American Journal of Cardiology
- 2010-2012 Sarosh Batlivala, MD – Assistant Professor in Pediatrics, Cincinnati Children’s Medical Center
Project title: Comparison of homograft conduits and bioprosthetic valves for reoperative right ventricular outflow reconstruction in children and adolescents
Manuscripts published: Annals of Thoracic Surgery, JACC Cardiovascular Interventions
- 2010-2014 Babar Hasan, MD – Assistant Professor of Pediatrics, Aga Khan University, Karachi, Pakistan
Project titles: Outcomes of a transcatheter approach for initial treatment of pulmonary atresia with intact ventricular septum and non-right ventricle-dependant coronary circulation; Effect of transcatheter pulmonary valve replacement on exercise-induced right ventricular outflow obstruction and ventricular stress reserve
Manuscripts published: American Journal of Cardiology, Catheterization and Cardiovascular Interventions, JACC Cardiovascular Interventions
- 2010-2013 Selcen Kazanci, MD – Visiting Fellow in Pediatric Cardiology, Children’s Hospital Boston
Project titles: Long-term outcomes after surgical repair of cor triatriatum; Association between superior vena cava obstruction and chylothorax after neonatal ECMO and outcome of transcatheter treatment
Manuscripts published: American Journal of Cardiology, Pediatric Critical Care Medicine
- 2011-2013 Jon Cunningham – Resident, Brigham & Women’s Hospital
Project title: Outcomes after primary transcatheter therapy in infants and young children with severe bilateral branch pulmonary artery stenosis
Manuscript published: Circulation: Cardiovascular Interventions
- 2011-2013 Joe Mets – Resident, Brigham & Women’s Hospital
Project title: Outcomes of stenting for stenosis of intracardiac lateral tunnel Fontan pathways
Manuscript published: Circulation: Cardiovascular Interventions
- 2011-2013 Michael Hainstock, MD – Assistant Professor of Pediatrics, University of Virginia
Project title: Factors associated with efficacy and conduit rupture in patients undergoing dilation of right ventricular outflow tract conduits with Atlas balloons
Manuscript published: Circulation: Cardiovascular Interventions
- 2011-2013 Lucas Eastaugh, MD – Paediatric Interventional Cardiologist, Royal Children’s Hospital, Melbourne, Australia
Project title: Percutaneous left atrial decompression in patients supported with extracorporeal membrane oxygenation for cardiac disease.
Manuscript published: Pediatric Critical Care Medicine
- 2011-Present Fatima Lunze, MD – Pediatric Cardiologist, German Heart Center Berlin

- Project titles: Heterogeneity of regional function and relationship between ventricular Morphology in patients with Fontan circulation; Improvement in atrioventricular interaction and biventricular performance after transcatheter pulmonary valve replacement in patients with right ventricular outflow tract obstruction
Manuscripts published and in preparation
- 2011-2016 Brian Morray, MD – Assistant Professor of Pediatrics, Seattle Children’s Hospital
Project titles: Risk of coronary artery compression among patients referred for transcatheter pulmonary valve implantation; Deliberate fracture of pulmonary arterial stents using ultra-non-compliant angioplasty balloons: efficacy and safety
Manuscripts published: Circulation: Cardiovascular Interventions
- 2012-2014 Seiji Ito, MD – Senior Fellow in Adult Congenital Heart Disease, Seattle Children’s Hospital
Project title: Preliminary assessment of tricuspid valve annular velocity parameters by cardiac magnetic resonance imaging in adults with a volume-overloaded right ventricle: comparison of unrepaired atrial septal defect and repaired tetralogy of Fallot.
Manuscript published: Pediatric Cardiology
- 2012-2016 Elaine Tang – PhD Student, Georgia Institute of Technology, PhD Thesis Committee
Project title: Effect of vessel deformability on Fontan hemodynamics: a numerical investigation
Manuscripts published and in preparation
- 2013-2014 Emy Kuriakose, MD – Pediatric Cardiologist, Helen DeVos Children’s Hospital, Grand Rapids, MI
Project title: Transcatheter closure of ruptured sinus of valsalva aneurysms
Manuscript published: American Journal of Cardiology
- 2014-2016 Justin Tretter, MD – Assistant Professor, Cincinnati Children’s Hospital and Medical Center
Project titles: Percutaneous closure of complex aortic and left ventricular pseudoaneurysm; Aortic wall injury surrounding endovascular therapy of aortic coarctation
Manuscripts published: Circulation: Cardiovascular Interventions, International Journal of Cardiology
- 2014-2015 Sathish Chikkabyrappa, MD –Pediatric Cardiologist, Seattle Children’s Hospital
Project title: Retrograde transcatheter device closure of complex paravalvular leak after bioprosthetic pulmonary valve replacement
Manuscript published: Catheterization and Cardiovascular Interventions
- 2014-2020 Holly Bauser-Heaton, MD – Assistant Professor, Pediatric Cardiology, Emory University
Project titles: Mid-term outcomes after unifocalization in patients with tetralogy of Fallot, pulmonary atresia, and major aortopulmonary collaterals; Pulmonary reinterventions after complete unifocalization and repair in infants and young children with tetralogy of Fallot with major aortopulmonary collaterals.
Manuscripts published: Circulation: Cardiovascular Interventions; J Thorac Cardiovasc Surg
- 2014-2017 David Peng, MD – Assistant Professor, Pediatric Cardiology, University of Michigan
Project titles: Utility of routine surveillance biopsies in pediatric heart transplant recipients
Manuscript published: Pediatr Transplant
- 2014-Present Neha Purkey, MD – F Clinical Assistant Professor, Pediatrics, Stanford University School of Medicine
Project titles: Epidemiology of congenital heart disease in California; Evolving epidemiology of interhospital transport of newborns with congenital heart disease in California
Manuscripts published and in preparation
- 2015-2022 Asami Rosner, MD – Attending Cardiologist, University Hospital of North Norway
Project titles: Classic-pattern Dyssynchrony in Adolescents and Adults with a Fontan Circulation; Ventricular Function in Adults with a Fontan Circulation
Manuscripts published and in preparation
- 2015-2021 John Dykes, MD – Assistant Professor, Pediatrics, Stanford University School of Medicine

- Project titles: Parental Acquisition of Echocardiographic Images in Pediatric Heart Transplant Recipients Using a Hand-Held Device; Hemodynamics of the Pediatric Fontan
Manuscripts in preparation
- 2016-2017 Vidhya Annavajhala, MD – Attending Pediatric Cardiologist, Texas Children’s Hospital
Project titles: Evaluation of Homograft Valved Right Ventricle to Pulmonary Artery Conduits after First Stage Palliation for Hypoplastic Left Heart Syndrome; Impaired Mitochondrial Respiration In Right Ventricular Pressure Overload without Heart Failure
Manuscript published: J Thorac Cardiovasc Surg
- 2016-2017 Nefthi Sandeep, MD – Attending Pediatric Cardiologist, Mary Bridge Children’s Hospital
Project titles: Evaluation of Homograft Valved Right Ventricle to Pulmonary Artery Conduits after First Stage Palliation for Hypoplastic Left Heart Syndrome; Impaired Mitochondrial Respiration in Right Ventricular Pressure Overload without Heart Failure
Manuscript published: J Thorac Cardiovasc Surg
- 2017-Present Lindsay Edwards, MD – Assistant Professor, Pediatrics, University of Washington School of Medicine
Project titles: Automated Echocardiographic Evaluation of Rheumatic Heart Disease: An Artificial Intelligence Approach; Psychosocial, Cognitive, and Quality of Life Outcomes in Children with Repaired Tetralogy of Fallot with Pulmonary Atresia and Major Aortopulmonary Collateral Arteries
Manuscripts in preparation
- 2017-2019 Rose Tompkins, MD – Attending in Cardiology, Cedars-Sinai Medical Center
Project title: Echocardiographic evaluation of bioprosthetic and transcatheter tricuspid valve function
Manuscript published: J Am Soc Echocardiogr
- 2017-2020 Karen Schultz, MD – Attending Pediatric Cardiologist, Sutter Health, Sacramento, CA
Project title: Extended continuous rhythm monitoring in adults with congenital heart disease
Manuscript published: Congenit Heart Dis
- 2017- 2021 Sumeet Vaikunth, MD – Assistant Professor of Clinical Medicine, University of Pennsylvania
Project title: Outcomes after unifocalization surgery in older patients with unoperated tetralogy of Fallot with MAPCAs
Manuscript published: Ann Thoracic Surg
- 2017-Present Shabana Shahanvaz, MD – Associate Professor, Pediatrics, Cincinnati Children’s Hospital and Medical Center
Project titles: Transcatheter Pulmonary Valve Replacement with the Melody Valve in Small Diameter Expandable Right Ventricular Outflow Tract Conduits; Intentional Fracture of Bioprosthetic Valve Frames in Patients Undergoing Valve-in-Valve Transcatheter Pulmonary Valve Replacement
Manuscripts published: JACC Cardiovascular Interventions; Circulation: Cardiovascular Interventions
- 2018-Present Greg Adamson, MD – Clinical Assistant Professor, Pediatrics, Stanford University School of Medicine
Project titles: Pulmonary hemorrhage in children with Alagille syndrome undergoing cardiac catheterization; Secondary repair of incompetent pulmonary valves after previous surgery or intervention
Manuscripts published: Cath Cardiovasc Interv; J Thorac Cardiovasc Surg
- 2019-Present Zsofia Long, MS – Fellow in Pediatric Cardiology, Stanford University School of Medicine
Project titles: Balloon angioplasty for pulmonary artery stenosis after complete unifocalization and repair of TOF with MAPCAs; Short-term conduit and right ventricular function after repair of TOF with MAPCAs
Manuscript published: Cath Cardiovasc Interventions

GRANT-FUNDED PROJECTS

Past

- 7/04-6/07 Trainee, National Research Scholarship Award T32-HL07572-2
Children's Hospital Department of Cardiology
Project: Prenatal Diagnosis of Complex Congenital Heart Disease: Effect on Outcomes and Implications for Fetal Cardiac Intervention
- 1/07-7/12 Site Principal Investigator, Corporate-sponsored Multicenter Clinical Device Trial
Implantation of the Medtronic Transcatheter Pulmonary Valve in Patients with Dysfunctional Right Ventricular Outflow Tract (RVOT) Conduits: A Feasibility Study
- 6/08-12/11 Co-Investigator, NIH SBIR grant to CAS Medical Systems, Inc. (5R44NS045488; PI: Benni)
Validation of the CAS Medical Systems, Inc. FORE-SIGHT Near-Infrared Spectroscopy Monitor in Pediatric Subjects
- 9/09-7/12 Site Principal Investigator, Corporate-sponsored Multicenter Clinical Device Trial
Coarctation of the Aorta Stent Trial (COAST)
- 11/09-12/11 Site Principal Investigator, Corporate-sponsored Multicenter Clinical Device Trial
ADO II (Amplatzer Duct Occluder II Clinical Study)
- 1/10-12/13 Co-Investigator, NIH SBIR grant to Abiomed, Inc. (R44HL099192; PI: Corbett)
Minimally Invasive Pediatric VAD for Treatment of Acute Heart Failure
- 3/10-6/11 Co-Investigator, Corporate-sponsored Multicenter Device Trial
Validation of the CAS Medical Systems, Inc. FORE-SIGHT Near-Infrared Spectroscopy Monitor in Pediatric Subjects for Viscerosomatic Applications
- 4/10-3/12 Site Principal Investigator, Corporate-sponsored Multicenter Clinical Drug Trial
An Open Label Pilot Study Evaluating the Safety and Evidence of Therapeutic Effect of a 96-Hour Continuous Intravenous Administration of 2-O, 3-O Desulfated Heparin (ODSH) for the Treatment of Exacerbation of Protein Losing Enteropathy (PLE) Associated with Single Ventricle Palliative Surgery
- 12/10-7/12 Co-Investigator, Corporate-sponsored Single Center Clinical Drug Trial
Effect of Inhaled Iloprost on Exercise Function in Patients with Fontan Physiology
- 7/12-7/14 Co-Investigator, Corporate-sponsored Multicenter Clinical Device Trial
Medtronic CoreValve US Pivotal Trial
- 7/12-7/14 Co-investigator, Corporate-sponsored Multicenter Clinical Device Trial
Medtronic CoreValve Continued Access Study
- 7/12-7/14 Co-Investigator, Corporate-sponsored Multicenter Clinical Device Trial
Clinical Outcomes Assessment of the MitraClip Percutaneous Therapy for High Surgical Risk Patients (COAPT Trial)
- 7/12-7/14 Co-Investigator, Corporate-sponsored Multicenter Clinical Device Trial
Real World ExpANded MuLticenter Study of the MitraClip System (REALISM)
- 12/14-12/16 Principal Investigator, Corporate-sponsored Device Trial
Experience with the Abiomed Impella Devices in Pediatric Patients
- 12/15-10/16 Principal Investigator, Corporate-sponsored Device Trial
Melody Transcatheter Pulmonary Valve (TPV) in Patients with a Dysfunctional Bioprosthetic Valve (BPV) in the Pulmonary Position
- 3/16-5/18 Principal Investigator, Children's Heart Foundation Grant
DNA Damage Following Radiation Exposure in Patients with CHD Undergoing Cardiac

12/17-6/19 Principal Investigator, Stanford Cardiovascular Institute and Child Health Research Institute Grant Psychosocial, Cognitive, and Quality of Life Outcomes in Children and Adults with Repaired Tetralogy of Fallot with Pulmonary Atresia and Major Aortopulmonary Collateral Arteries

Present

- 7/16-Present Principal Investigator, Corporate-sponsored Device Trial
The Medtronic Harmony Transcatheter Pulmonary Valve Clinical Study
- 3/17-Present Co-Principal Investigator, Stanford Maternal and Child Health Research Institute Transdisciplinary Initiative Program Grant
Integrated In Vitro and In Silico Models of Pulmonary Valve Dysfunction in Tetralogy of Fallot
- 5/17-Present Co-Investigator, Stanford SPARK Translational Research Program Grant
Metabolic features of Kawasaki disease
- 1/19-Present Collaborating investigator, American Heart Association, Transformational Project Award
Hemodynamic Determinants of Premature Pulmonary Valve Dysfunction in Children with Tetralogy of Fallot
- 11/21-Present Co-investigator, National Institutes of Health, Small Business Technology Transfer Grant
1R41HL160362-01 An Automated System to Interpret Echocardiography to Predict Adverse Outcomes in Patients with Right Ventricular Dysfunction in Daily Hospital Practice
- 4/22-Present Principal Investigator, Corporate-sponsored Device Trial
Alterra Post-Approval Study Trial
- 8/22-Present Co-investigator, National Institutes of Health, Small Business Technology Transfer Grant
1R41TR004351-01 An Automated System to Differentiate Kawasaki Disease from Febrile Illness with Real Life Clinical Datasets in New York City

PATENTS

Transcatheter Heart Valve Prostheses, US Patent US 8070800, filed 5/3/07, awarded 12/6/11

Expandable Valve Frame and Method of Use, US Patent Application 2012018779, filed 7/30/09 (Pending)

Methods to Predict Preterm Pregnancy Based on the Gestational Clock, US Patent Application 62/599,251, filed 12/15/17 (Pending)

BOARDS AND COMMUNITY ORGANIZATIONS

2008-2011 Board of Directors, Boston Children's Heart Foundation

2015-2018 Board of Directors, Los Altos Educational Foundation

BIBLIOGRAPHY

Peer-Reviewed Articles

1. McElhinney DB, Hoffman SJ, Robinson WA, Ferguson J. Effect of melatonin on human skin color. *J Invest Dermatol* 1994;102:258-9.
2. Reddy VM, Liddicoat JR, McElhinney DB, Brook MM, Stanger P, Hanley FL. Routine primary repair of tetralogy of Fallot in neonates and infants under three months of age. *Ann Thorac Surg* 1995;60:S592-6.
3. Reddy VM, Rajasinghe HA, McElhinney DB, van Son JAM, Black MD, Silverman NH, Hanley FL. Extending the limits of the Ross procedure. *Ann Thorac Surg* 1995;60:S600-3.

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Invited Non-Peer-Reviewed Articles and Editorials

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