

Curriculum Vitae

Eric James Devaney, M.D.
Chief, Division of Cardiac Surgery
Rainbow Babies & Children's Hospital
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Education and Training

- Sept.1976-June1980 St. Stephen's High School, Alexandria, Virginia
- Sept.1980-May1984 University of Virginia, Charlottesville, Virginia
Bachelor of Arts
- Sept.1984-July1986 Research Chemist, National Institutes of Health, Institute of
Child Health and Human Development
- Aug.1986-June1991 University of California, Los Angeles, School of Medicine
Doctor of Medicine

Postdoctoral Training

- July1991-June1992 Surgical Intern
University of California, San Francisco
- July1992-June1993 Resident in Surgery
University of California, San Francisco
- July1993-June1996 Research Fellow
Molecular Medicine Training Program
University of California, San Francisco
- July1996-June1999 Resident in Surgery
University of California, San Francisco
- July1999-June2001 Resident in Thoracic Surgery
University of Michigan, Ann Arbor, Michigan
- July2001-June2002 Fellow in Pediatric Cardiovascular Surgery
University of Michigan, Ann Arbor, Michigan

Additional Training

October, 2002	Advanced Robotic Surgery Training Course St. Lukes Hospital, New York City, New York
November, 2003	Da Vinci Telesystem Manipulation System Training Course Ohio State University, Columbus, Ohio
July, 2004	Confocal Immunofluorescence Microscopy Course University of Michigan, Ann Arbor, Michigan

Certification

1993	National Board of Medical Examiners, #33934845
2000	The American Board of Surgery, #45043
2002	The American Board of Thoracic Surgery, #6624
2010	The American Board of Thoracic Surgery, Congenital Heart Surgery Subspecialty, #19

Medical Licensure

1994	State of California, #G78188 (expiration Oct. 31, 2019)
2001	State of Michigan, #4301074376 (expired Jan. 31, 2014)
2016	State of Ohio, #129035 (expiration Apr. 1, 2019)

Academic Appointments

July, 2002-2009	Assistant Professor of Surgery University of Michigan, Ann Arbor, Michigan
July, 2009- Mar, 2012	Associate Professor of Surgery University of Michigan, Ann Arbor, Michigan
Apr, 2012-July, 2016	Associate Professor of Surgery University of California, San Diego
Aug, 2016-present	Clinical Professor of Surgery Case Western Reserve University, Cleveland, Ohio

Hospital Appointments

July, 2002-2012	Staff Physician, University of Michigan Health System University of Michigan, Ann Arbor, Michigan
July, 2002-2012	Staff Physician, Veteran's Administration Hospital Ann Arbor, Michigan
July, 2003-Mar, 2012	Director, Pediatric Ventricular Assist Device Program University of Michigan, Ann Arbor, Michigan
Apr, 2012-June, 2016	Staff Physician, UCSD Rady Children's Hospital, San Diego, CA
Apr, 2012-June, 2016	Director of Cardiac Transplantation, UCSD Rady Children's Hospital, San Diego, CA
August 2016-present	Chief, Division of Cardiac Surgery, Rainbow Babies & Children's Hospital, Cleveland, Ohio

Research Interests

Basic Science Focus

1. Sarcomeric basis of contractile dysfunction in heart failure and cardiomyopathy.
2. Genetic modification of motor proteins in normal and failing cardiac myocytes.
3. Generation of induced pluripotent stem cells from human thymus.

Clinical Focus

1. Clinical applications of ventricular assist devices in pediatric heart failure.
2. Clinical outcomes studies in pediatric cardiac surgery.

Grants

Recent

2009-2015	NIH K08 Mentored Scientist Award Title: Genetic Modification of Cardiac Motor Proteins in Normal and Failing Myocytes (K08 HL088018-01) Percent effort: 75% Direct cost: \$620,000
2014-2016	Surgical Research Grant Sponsor: Rady Children's Hospital, San Diego Title: Pluripotent Stem Cells from Human Thymus Budget: \$50,000

2008-2011	Berlin Heart EXCOR Pediatric Ventricular Assist Device Trial (DRDA#08-0791), Principal Investigator Sponsor: Berlin Heart, Inc. Budget: \$74,000
2009-2011	Research Advisory Committee (RAC) Grant Sponsor: Department of Surgery, University of Michigan Title: Genetic Modification of Cardiac Motor Proteins in Isolated Myocytes Budget: \$35,000
2009-2011	McKay Grant Sponsor: Cardiovascular Center, University of Michigan Title: Genetic Modification of Cardiac Motor Proteins in Failing Myocytes Budget: \$25,000

Honors and Awards

1980	Valedictorian St. Stephen's High School, Alexandria, Virginia
1980	Echols Scholar University of Virginia, Charlottesville, Virginia
1982	Intermediate Honors University of Virginia, Charlottesville, Virginia
1984	Summa Cum Laude University of Virginia, Charlottesville, Virginia
1984	Phi Beta Kappa University of Virginia, Charlottesville, Virginia
1990	Alpha Omega Alpha University of California, Los Angeles
1991	W.P. Longmire Medal for Surgery University of California, Los Angeles

Memberships and Professional Societies

1984-present	Phi Beta Kappa
1990-present	Alpha Omega Alpha
1999-present	The Howard Nafziger Surgical Society

1999-present	American Heart Association
2001-present	The John Alexander Society
2002-present	American Association for the Advancement of Science
2004-present	Society of Thoracic Surgeons
2008-present	Congenital Heart Surgeons Society
2011-present	American Association for Thoracic Surgery
2013-present	Western Thoracic Surgical Association

Editorial Positions

2003-present	Ad Hoc Reviewer <i>Journal of Thoracic and Cardiovascular Surgery</i>
2003-present	Ad Hoc Reviewer <i>Annals of Thoracic Surgery</i>
2003-present	Ad Hoc Reviewer <i>Journal of Pediatrics</i>
2004-present	Ad Hoc Reviewer <i>Circulation</i>
2006-2008	Section Editor <i>Pediatric Cardiology</i>

Teaching Activities

Academic Lectures/Courses

2002-2012	Thoracic Surgical Didactic Lecture Series <i>Transposition of the Great Arteries, Atrioventricular Septal Defects, Aortic and Pulmonary Stenosis, Aortic Arch Anomalies, Patent Ductus Arteriosus and Aortopulmonary Window, Atrial Septal Defects and Partial Anomalous Pulmonary Venous Connection, Heterotaxy Syndrome</i> University of Michigan, Ann Arbor, Michigan (2-3 lectures given per year)
2002-2012	Pediatric Cardiology Fellow Didactic Lecture Series <i>Cardiopulmonary Bypass, Mechanical Circulatory Support</i> University of Michigan, Ann Arbor, Michigan (2 lectures given per year)
2003-2012	Faculty, M2 MDC Lecture <i>Surgical Management of Tetralogy of Fallot, Surgical Management of Hypoplastic Left Heart Syndrome</i>

University of Michigan, School of Medicine
Ann Arbor, Michigan
(1 lecture per year)

- April 7, 2006 M4 Surgical Anatomy Course
Surgical Anatomy of the Heart and Pericardium
University of Michigan, School of Medicine
Ann Arbor, Michigan
- October 17, 2007 Undergraduate Research Opportunity Program Seminar
Translational Research in Pediatric Cardiac Surgery
University of Michigan, Ann Arbor, Michigan
- Winter, 2008 Faculty, Surgery 499
University of Michigan
Ann Arbor, Michigan
- 2012-2016 Pediatric Cardiology Fellow Didactic Lecture Series
Cardiopulmonary Bypass, Mechanical Circulatory Support, etc.
UCSD Rady Children's Hospital
(6 lectures given per year)

Grand Rounds

Mechanical Circulatory Support, University of Michigan Department of Surgery
Grand Rounds, December 2, 2004.

Mechanical Circulatory Support in the Pediatric Patient, University of Michigan
Department of Surgery Grand Rounds, December, 2005.

Pediatric Circulatory Support, University of Michigan Department of Pediatrics
Grand Rounds, November 27, 2007.

Undergraduate Mentoring

2004-2012 Faculty Mentor
Undergraduate Shadowing
University of Michigan, Ann Arbor, Michigan

2007-2012 Faculty Mentor
Alpha Epsilon Delta Undergraduate Shadowing Program
University of Michigan, Ann Arbor, Michigan

Training of Students, Residents, and Fellows

2002-present Clinical Instructor in Pediatric Cardiac Surgery

2003-2008 Research Co-Mentor, J.M. Metzger Lab
2008-present Research Mentor, Devaney Lab

Committee, Organizational, and Volunteer Service

National

2013-present US News and World Report Cardiology and Heart Surgery
Advisory Group

Institutional

2002-2012 Michigan Congenital Heart Center Executive Committee
University of Michigan, Ann Arbor, Michigan

2002-2012 Michigan Congenital Heart Center Joint Practice Committee
University of Michigan, Ann Arbor, Michigan

2007-2012 Leadership Committee, Michigan Congenital Heart Center
University of Michigan, Ann Arbor, Michigan

2010-2012 University of Michigan Medical School Institutional
Review Board

2012-2016 Research Council, Rady Children's Hospital, San Diego,
California

Humanitarian

2007-2014 Lead Surgeon, Annual Relief Mission, Arturo Grullon
Children's Hospital, Santiago, Dominican Republic and
Bloom Hospital, San Salvador, El Salvador.

Consulting Positions

2003-2005 Pediatric Robotic Surgery Consultant, Intuitive Surgical
(noncompensated)

2006 Expert Reviewer, NASA sponsored CCF/FMT Pediatric
Blood Pump Project Review (noncompensated)

Invited Presentations

National and International

Esophagectomy for Achalasia: Patient Selection and Clinical Experience. Thirty-seventh Meeting of the Society of Thoracic Surgeons, New Orleans, Louisiana, January 29-31, 2001.

Deep Hypothermic Circulatory Arrest Versus Regional Cerebral Perfusion during the Norwood Procedure: A preliminary Feasibility Review. American Society of Extra-Corporeal Technology (AmSect) Meeting, Baltimore, Maryland, December 8-9, 2001.

Combined Arterial Switch and Senning Operation for Congenitally Corrected Transposition of the Great Arteries: Patient Selection and Early Results. Eighty-second Meeting of the American Association for Thoracic Surgery, Washington, DC, May 5-8, 2002.

Post Cardiotomy ECMO. American Society of Extra-Corporeal Technology (AmSect) Meeting, San Francisco, California, October 11-13, 2002.

Pediatric Bridge to Transplantation Using the MicroMed DeBakey VAD. 11th of Congress of the International Society for Rotary Blood Pumps, Bad Oeynhausen, Germany, August 31-September 3, 2003.

Surgical Management of Congenital and Acquired Pulmonary Vein Stenosis. Fortieth Annual Meeting of the Society of Thoracic Surgeons, San Antonio, Texas, January 26-28, 2004.

Successful Gene Delivery of Mutant Alpha-Cardiac Actin into Adult Rat Cardiomyocytes. 2004 Keystone Symposia: Molecular Biology of Cardiac Disease, Keystone, Colorado, March 7-12, 2004.

Pediatric Implantation of the DeBakey VAD. Twenty-fourth Annual Meeting of the International Society of Heart and Lung Transplantation, San Francisco, California, April 21-24, 2004.

Emergency VAD Support in Neonates. American Society of Extra-Corporeal Technology (AmSect) Meeting, Ann Arbor, Michigan, September 9-12, 2004.

Pediatric Ventricular Assist Devices. Extracorporeal Life Support Organization (ELSO) Meeting, Ann Arbor, Michigan, September 9-12, 2004.

Pulmonary Vein Stenosis Following Repair of Total Anomalous Pulmonary Venous Connection. Eighty-fifth Annual Meeting of the American Association for Thoracic Surgery, San Francisco, California, April 10-13, 2005.

Robotic-assisted Thoracoscopy in Pediatric Cardiac Surgery. Thirty-fourth Annual ODICH Society Conference, Cleveland, Ohio, May 4-6, 2006.

Pediatric Ventricular Assist Devices: Overview and Single-Center Experience. American College of Cardiology 56th Annual Scientific Session, New Orleans, Louisiana, March 24-27, 2007.

Case Presentations with Audience Interactions, invited panelist. American

College of Cardiology 57th Annual Scientific Session, Chicago, Illinois, March 30-April 1, 2008.

Performance of SynerGraft Decellularized Pulmonary Allografts Compared to Standard Cyropreserved Allografts. 55th Annual Meeting of the Southern Thoracic Surgical Association, Austin, Texas, November 5-8, 2008.

Biventricular Repair of Atrioventricular Septal Defect with Common Atrioventricular Valve and Double Outlet Right Ventricle. 55th Annual Meeting of the Southern Thoracic Surgical Association, Austin, Texas, November 5-8, 2008.

Calcium Independent Enhancement of Failing Myocyte Contraction by Fast Alpha-myosin Motor Gene Transfer, Thirty-seventh Annual ODICH Society Conference, Toledo, Ohio, May 8-9, 2009.

Biventricular Repair of Atrioventricular Septal Defect with Common Atrioventricular Valve and Double Outlet Right Ventricle, Thirty-seventh Annual ODICH Society Conference, Toledo, Ohio, May 8-9, 2009.

Enhancing Cardiac Contractility by Fast Myosin Motor Gene Transfer, Annual Meeting of the Congenital Heart Surgeons' Society, Chicago, Illinois, November 1-2, 2009.

Cardiac Myosin Rod Deletion Maintains Sarcomeric Architecture and Augments Performance of Failing Ventricular Myocytes, 54th Annual Meeting of the Biophysical Society, San Francisco, California, February 20-24, 2010.

Pediatric Mechanical Circulatory Support, 30th Annual CREF Cardiothoracic Surgery Symposium, Newport Beach, California, March 4-7, 2010.

Two Ventricle Repair of Heterotaxy with Double Outlet Right Ventricle and Complete Atrioventricular Canal with or without Pulmonary Stenosis, 90th Annual Meeting of the American Association for Thoracic Surgery, Toronto, Ontario, May 1-5, 2010.

Outcomes Following Second Stage Palliation of Single Ventricle Patients, Annual Meeting of the Congenital Heart Surgeons' Society, Chicago, Illinois, October 24-25, 2010.

Risk Factor Analysis for Second Stage Palliation of Single Ventricle Anatomy, 47th Annual Meeting of the Society of Thoracic Surgeons, San Diego, California, January 31- February 2, 2011.

Anatomy and Physiology in Congenital Heart Disease Complicating Mechanical Circulatory Support, 31st Annual Meeting of the International Society for Heart and Lung Transplantation, San Diego, California, April 13-16, 2011.

Results of Second Stage Palliation of Single Ventricle Heart Disease, 39th Annual ODICH Society Conference, Cleveland, Ohio, May 13-14, 2011.

Cardiac Surgical Management of the Low Birth Weight Infant, Evolving Concepts in the Management of Complex Congenital Heart Disease, San Diego, California, January 19-21, 2012.

Altered Myocyte Contractility in Alpha-myosin Heavy Chain Gene Mutations Linked to Familial Dilated Cardiomyopathy, 40th Annual Meeting of the Western Thoracic Surgical Association, Dana Point, California, June 25-25, 2014.

What Devices Are Available for Our Patients?, Innovations in Pediatric Heart Failure, San Diego, California, December 3-5, 2015.

Intraoperative Considerations and Management of Pediatric VADs, Innovations in Pediatric Heart Failure, San Diego, California, December 3-5, 2015.

State and Local

Management of Hypoplastic Left Heart Syndrome, Department of Pediatrics Grand Rounds, Beaumont Hospital, Royal Oak, Michigan, March, 4, 2003.

Pediatric Mechanical Circulatory Support, Department of Surgery Grand Rounds, Crittenton Hospital, Rochester, Michigan, July 21, 2006.

Bibliography

Peer-reviewed Journals and Publications:

1. Devaney K, Kragel PJ, **Devaney EJ**. Fine-needle aspiration cytology of multicystic mesothelioma. *Diagn Cytopathol*. 1992;8(1):68-72.
2. Chai Y, Bringas P, Jr., Shuler C, **Devaney E**, Grosschedl R, Slavkin HC. A mouse mandibular culture model permits the study of neural crest cell migration and tooth development. *Int J Dev Biol*. 1998;42(1):87-94.
3. Galceran J, Miyashita-Lin EM, **Devaney E**, Rubenstein JL, Grosschedl R. Hippocampus development and generation of dentate gyrus granule cells is regulated by LEF1. *Development*. 2000;127(3):469-482.
4. Reya T, O'Riordan M, Okamura R, **Devaney E**, Willert K, Nusse R, Grosschedl R. Wnt signaling regulates B lymphocyte proliferation through a LEF-1 dependent mechanism. *Immunity*. 2000;13(1):15-24.

5. **Devaney EJ**, Lannettoni MD, Orringer MB, Marshall B. Esophagectomy for achalasia: patient selection and clinical experience. *Ann Thorac Surg.* 2001;72(3):854-858.
6. **Devaney EJ**, Charpie JR, Ohye RG, Bove EL. Combined arterial switch and Senning operation for congenitally corrected transposition of the great arteries: patient selection and intermediate results. *J Thorac Cardiovasc Surg.* 2003;125(3):500-507.
7. **Devaney EJ**, Ohye RG, Bove EL. Technical aspects of the combined arterial switch and senning operation for congenitally corrected transposition of the great arteries. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2003;6:9-15.
8. Ishizaka T, **Devaney EJ**, Ramsburgh SR, Suzuki T, Ohye RG, Bove EL. Valve sparing aortic root replacement for dilatation of the pulmonary autograft and aortic regurgitation after the Ross procedure. *Ann Thorac Surg.* 2003;75(5):1518-1522.
9. Ishizaka T, Ohye RG, Goldberg CS, Ramsburg SR, Suzuki T, **Devaney EJ**, Bove EL. Premature failure of small-sized Shelhigh No-React porcine pulmonic valve conduit model NR-4000. *Eur J Cardiothorac Surg.* 2003;23(5):715-718.
10. Ishizaka T, Ohye RG, Suzuki T, **Devaney EJ**, Bove EL. Bilateral pulmonary artery banding for resuscitation in hypoplastic left heart syndrome. *Ann Thorac Surg.* 2003;75(1):277-279.
11. Bove EL, Ohye RG, **Devaney EJ**. Hypoplastic left heart syndrome: conventional surgical management. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2004;7:3-10.
12. Ohye RG, **Devaney EJ**, Graziano J, Ludomirsky A. Amplatz closure of atrial septal defect and da Vinci robot-assisted repair of vascular ring. *Pediatr Cardiol.* 2004;25(5):548-551.
13. Ohye RG, Gomez CA, Goldberg CS, Graves HL, **Devaney EJ**, Bove EL. Tricuspid valve repair in hypoplastic left heart syndrome. *J Thorac Cardiovasc Surg.* 2004;127(2):465-472.
14. Ohye RG, Ludomirsky A, **Devaney EJ**, Bove EL. Comparison of right ventricle to pulmonary artery conduit and modified Blalock-Taussig shunt hemodynamics after the Norwood operation. *Ann Thorac Surg.* 2004;78(3):1090-1093.
15. Ohye RG, Maniker RB, Graves HL, **Devaney EJ**, Bove EL. Primary closure for postoperative mediastinitis in children. *J Thorac Cardiovasc Surg.* 2004;128(3):480-486.
16. Padalino MA, Ohye RG, **Devaney EJ**, Bove EL. Double intramural coronary arteries in D-transposition of the great arteries. *Ann Thorac Surg.* 2004;78(6):2181-2183.
17. Tavakkol Z, Gelehrter S, Goldberg CS, Bove EL, **Devaney EJ**, Ohye RG. Superior durability of SynerGraft pulmonary allografts compared with standard cryopreserved allografts. *Ann Thorac Surg.* 2005;80(5):1610-1614.
18. Bove EL, Ohye RG, **Devaney EJ**, Kurosawa H, Shin'oka T, Ikeda A, Nakanishi T. Anatomic correction of congenitally corrected transposition and its close cousins. *Cardiol Young.* 2006;16 Suppl 3:85-90.
19. **Devaney EJ**, Chang AC, Ohye RG, Bove EL. Management of congenital and acquired pulmonary vein stenosis. *Ann Thorac Surg.* 2006;81(3):992-995; discussion 995-996.
20. **Devaney EJ**, Ohye RG, Bove EL. Pulmonary vein stenosis following repair of total anomalous pulmonary venous connection. *Semin Thorac Cardiovasc Surg Pediatr*

- Card Surg Annu.* 2006;51-55.
21. Gossett JG, Wang DH, Smith DE, **Devaney EJ**, Lloyd TR. Trans-hepatic cannulation: a novel approach for placement of a pediatric percutaneous ventricular assist device. *Asaio J.* 2006;52(5):517-521.
 22. Ohye RG, Gomez CA, Goldberg CS, Graves HL, **Devaney EJ**, Bove EL. Repair of the tricuspid valve in hypoplastic left heart syndrome. *Cardiol Young.* 2006;16 Suppl 3:21-26.
 23. Padalino MA, Ohye RG, Chang AC, Gajarski RJ, Bove EL, **Devaney EJ**. Bridge to transplant using the MicroMed DeBakey ventricular assist device in a child with idiopathic dilated cardiomyopathy. *Ann Thorac Surg.* 2006;81(3):1118-1121.
 24. Stasik CN, Goldberg CS, Bove EL, **Devaney EJ**, Ohye RG. Current outcomes and risk factors for the Norwood procedure. *J Thorac Cardiovasc Surg.* 2006;131(2):412-417.
 25. Suzuki T, Ohye RG, **Devaney EJ**, Ishizaka T, Nathan PN, Goldberg CS, Gomez CA, Bove EL. Selective management of the left ventricular outflow tract for repair of interrupted aortic arch with ventricular septal defect: management of left ventricular outflow tract obstruction. *J Thorac Cardiovasc Surg.* 2006;131(4):779-784.
 26. Bove EL, Ohye RG, **Devaney EJ**, Hirsch J. Tricuspid valve repair for hypoplastic left heart syndrome and the failing right ventricle. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2007:101-104.
 27. Goldberg CS, Bove EL, **Devaney EJ**, Mollen E, Schwartz E, Tindall S, Nowak C, Charpie J, Brown MB, Kulik TJ, Ohye RG. A randomized clinical trial of regional cerebral perfusion versus deep hypothermic circulatory arrest: outcomes for infants with functional single ventricle. *J Thorac Cardiovasc Surg.* 2007;133(4):880-887.
 28. Hilmes M, Hernandez R, **Devaney E**. Markedly hypoplastic circumflex retroesophageal right aortic arch: MR imaging and surgical implications. *Pediatr Radiol.* 2007;37(1):63-67.
 29. Hirsch JC, Ohye RG, **Devaney EJ**, Goldberg CS, Bove EL. The lateral tunnel Fontan procedure for hypoplastic left heart syndrome: results of 100 consecutive patients. *Pediatr Cardiol.* 2007;28(6):426-432.
 30. Ohye RG, **Devaney EJ**, Hirsch JC, Bove EL. The modified Blalock-Taussig shunt versus the right ventricle-to-pulmonary artery conduit for the Norwood procedure. *Pediatr Cardiol.* 2007;28(2):122-125.
 31. Qamar ZA, Goldberg CS, **Devaney EJ**, Bove EL, Ohye RG. Current risk factors and outcomes for the arterial switch operation. *Ann Thorac Surg.* 2007;84(3):871-878; discussion 878-879.
 32. Abarbanell GL, Goldberg CS, **Devaney EJ**, Ohye RG, Bove EL, Charpie JR. Early surgical morbidity and mortality in adults with congenital heart disease: the University of Michigan experience. *Congenit Heart Dis.* 2008;3(2):82-89.
 33. Chiravuri SD, Voepel-Lewis T, **Devaney EJ**, Malviya S. The use of aprotinin in children undergoing operative repair of isolated atrial septal defects. *Paediatr Anaesth.* 2008;18(2):145-150.
 34. Davis J, Westfall MV, Townsend D, Blankinship M, Herron TJ, Guerrero-Serna G, Wang W, **Devaney E**, Metzger JM. Designing heart performance by gene transfer. *Physiol Rev.* 2008;88(4):1567-1651.
 35. Herron TJ, **Devaney EJ**, Metzger JM. Modulation of cardiac performance by motor

- protein gene transfer. *Ann N Y Acad Sci.* 2008;1123:96-104.
36. Hirsch JC, Goldberg C, Bove EL, Salehian S, Lee T, Ohye RG, **Devaney EJ**. Fontan operation in the current era: a 15-year single institution experience. *Ann Surg.* 2008;248(3):402-410.
 37. Suzuki T, Bove EL, **Devaney EJ**, Ishizaka T, Goldberg CS, Hirsch JC, Ohye RG. Results of definitive repair of complete atrioventricular septal defect in neonates and infants. *Ann Thorac Surg.* 2008;86(2):596-602.
 38. Bove EL, Hirsch JC, Ohye RG, **Devaney EJ**. How I manage neonatal Ebstein's anomaly. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu.* 2009;63-65.
 39. Gaies MG, Goldberg CS, Ohye RG, **Devaney EJ**, Hirsch JC, Bove EL. Early and intermediate outcome after anatomic repair of congenitally corrected transposition of the great arteries. *Ann Thorac Surg.* 2009;88(6):1952-1960.
 40. Konuma T, **Devaney EJ**, Bove EL, Gelehrter S, Hirsch JC, Tavakkol Z, Ohye RG. Performance of CryoValve SG decellularized pulmonary allografts compared with standard cryopreserved allografts. *Ann Thorac Surg.* 2009;88(3):849-854; discussion 554-845.
 41. Aiyagari R, Gelehrter S, Bove EL, Ohye RG, **Devaney EJ**, Hirsch JC, Gurney JG, Charpie JR. Effects of N-acetylcysteine on renal dysfunction in neonates undergoing the arterial switch operation. *J Thorac Cardiovasc Surg.* 2010;139(4):956-961.
 42. **Devaney EJ**, Lee T, Gelehrter S, Hirsch JC, Ohye RG, Anderson RH, Bove EL. Biventricular repair of atrioventricular septal defect with common atrioventricular valve and double-outlet right ventricle. *Ann Thorac Surg.* 2010;89(2):537-542; discussion 542-533.
 43. Herron TJ*, **Devaney E***, Mundada L, Arden E, Day S, Guerrero-Serna G, Turner I, Westfall M, Metzger JM. Ca²⁺-independent positive molecular inotropy for failing rabbit and human cardiac muscle by alpha-myosin motor gene transfer. *FASEB J.* 2010;24(2):415-424. (*co-first authors)
 44. Karamlou T, Hirsch J, Welke K, Ohye RG, Bove EL, **Devaney EJ**, Gajarski RJ. A United Network for Organ Sharing analysis of heart transplantation in adults with congenital heart disease: Outcomes and factors associated with mortality and retransplantation. *J Thorac Cardiovasc Surg.* 2010.
 45. Shinkawa T, Polimenakos AC, Gomez-Fifer CA, Charpie JR, Hirsch JC, **Devaney EJ**, Bove EL, Ohye RG. Management and long-term outcome of neonatal Ebstein anomaly. *J Thorac Cardiovasc Surg.* 2010;139(2):354-358.
 46. Shih T, Gurney JG, Bove EL, **Devaney EJ**, Hirsch JC, Ohye RG. Performance of bicuspidized pulmonary allografts compared with standard trileaflet allografts. *Ann Thorac Surg.* 2010;90(2):610-613.
 47. Hoashi T, Bove EL, **Devaney EJ**, Hirsch JC, Ohye RG. Mitral valve repair for congenital mitral valve stenosis in the pediatric population. *Ann Thorac Surg.* 2010;90(1):36-41.
 48. Shinkawa T, Bove EL, Hirsch JC, **Devaney EJ**, Ohye RG. Intermediate-term results of the Ross procedure in neonates and infants. *Ann Thorac Surg.* 2010;89(6):1827-1832; discussion 1832.
 49. Morales DL, Almond CS, Jaquiss RD, Rosenthal DN, Naftel DC, Massicotte MP, Humpl T, Turrentine MW, Tweddell JS, Cohen GA, Kroschwitz R, **Devaney EJ**, Canter CE, Fynn-Thompson F, Reinhartz O, Imamura M, Ghanayem NS, Buchholz

- H, Furness S, Mazor R, Gandhi SK, Fraser CD, Jr. Bridging children of all sizes to cardiac transplantation: the initial multicenter North American experience with the Berlin Heart EXCOR ventricular assist device. *J Heart Lung Transplant*. 2011;30(1):1-8.
50. Hoashi T, Bove EL, **Devaney EJ**, Hirsch JC, Ohye RG. Outcomes of 1(1/2)- or 2-ventricle conversion for patients initially treated with single-ventricle palliation. *J Thorac Cardiovasc Surg*. 2011;141(2):419-424.
 51. Hoashi T, Bove EL, **Devaney EJ**, Hirsch JC, Ohye RG. Intermediate-term clinical outcomes of primary biventricular repair for left ventricular outflow tract obstruction and ventricular septal defect. *J Thorac Cardiovasc Surg*. 2011;141(1):200-206.
 52. Dinh, DC, Gurney, JG, Donohue, JE, Bove, EL, Hirsch, JC, **Devaney, EJ**, Ohye, RG. Tricuspid valve repair in hypoplastic left heart syndrome. *Pediatr Cardiol*. 2011; 32(5):599-606.
 53. Lee, TM, Aiyagari, R, Hirsch, JC, Ohye, RG, Bove, EL, **Devaney, EJ**. Risk factor analysis for second stage palliation of single ventricle anatomy. *Ann Thorac Surg*. 2012; 93(2):614-9.
 54. Fraser CS, Jaquiss, RD, Rosenthal DN, Humpl T, Canter CE, Blackstone EH, Naftel DC, Ichord RN, Bomgaars L, Twedell JS, Massicotte MP, Turrentine MW, Cohen GA, **Devaney EJ**, Pearce FB, Carberry KE, Kroschwitz, R, Almond CS. Prospective trial of a pediatric ventricular assist device. *N Engl J Med*. 2012;367(6):532-41.
 55. Kavarana MN, Riley M, Sood V, Ohye RG, **Devaney EJ**, Bove EL, Hirsch JC. Extended single-patch repair of supraaortic stenosis: a simple and effective technique. *Ann Thorac Surg*. 2012;93(4):1274-8.
 56. Bizy A, Guerrero-Serna G, Hu B, Ponce-Balbuena D, Willis BC, Zarzoso M, Ramirez RJ, Sener MF, Mundada LV, Klos M, **Devaney EJ**, Vikstrom KL, Herron TJ, Jalife J. Myosin light chain 2-based selection of human iPSC-derived early ventricular cardiac myocytes. *Stem Cell Res*. 2013;11(3):1335-47.
 57. Iyengar A, Scipione CN, Sheth P, Ohye RG, Riegger L, Bove EL, **Devaney EJ**, Hirsch-Romano JC. Association of complications with blood transfusions in pediatric cardiac surgery patients. *Ann Thorac Surg*. 2013;96(3):910-6.
 58. DiBardino DJ, Gomez-Arostegui J, Kemp A, Raviendran R, Hegde S, **Devaney EJ**, Lamberti JJ, El-Said H. Intermediate results of hybrid versus primary Norwood operations. *Ann Thorac Surg*. 2015;99(6):2141-7.
 59. **Devaney EJ**. The total artificial heart in pediatrics: expanding the repertoire. *J Thorac Cardiovasc Surg*. 2016;151(4):73-4.
 60. Klos M, Mundada L, Banerjee I, Morgenstern S, Myers S, Leone M, Kleid M, Herron T, **Devaney E**. Altered myocyte contractility and calcium homeostasis in alpha-myosin heavy chain point mutations linked to familial dilated cardiomyopathy. *Arch Biochem Biophys*. 2017;615:53-60.

Book Chapters:

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2. Ohye RG, **Devaney EJ**, Bove EL: Truncus Arteriosus and aortopulmonary window. In Sellke FW, ed. *Sabiston and Spencer Surgery of the Chest*, 7th edition. Philadelphia, Elsevier, 2005: 2063-2075.
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