

CURRICULUM VITAE

David P.V. Bichell

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Education:

May 1980 Johns Hopkins University, Baltimore, MD
Bachelor of Arts (Liberal Arts)

May 1987 Columbia University College of Physicians & Surgeons,
New York, NY
Doctor of Medicine

Post-Graduate Training

June 1987-1988 Internship in Pediatrics, Columbia-Presbyterian
Hospital, Columbia University
New York, NY

July 1988-1994 Resident in General Surgery, Barnes Hospital,
Washington University School of Medicine
St. Louis, MO

July 1990-1992 Research Fellow, Departments of Biochemistry and
Surgery, Washington University School of Medicine,
St. Louis, MO

July 1993-1994 Chief Resident, Barnes Hospital, Washington University School of
Medicine
St. Louis, MO

July 1994-1995 Clinical Fellow in Cardiac Surgery, Brigham &
Women's Hospital, Harvard Medical School

- Boston, MA
- July 1995-1996 Resident in Cardiothoracic Surgery, Brigham & Women's Hospital, Harvard Medical School
Boston, MA
- July 1996-1997 Chief Resident in Cardiac Surgery, Brigham & Women's Hospital, Harvard Medical School
Boston, MA
- Jan-June 1997 Chief Resident in Cardiac Surgery, Boston Children's Hospital, Harvard Medical School
Boston, MA

Graduate Education

- May 2016 Master of Management in Health Care (MMHC), Owen Graduate School of Management, Vanderbilt University
Nashville, TN

Licensure and Certification

- 1994 State of Massachusetts (Certificate #78974 exp: 5.3.2001)
- 1996 American Board of Surgery (Certificate #4095)
Diplomate
- 1998 American Board of Thoracic Surgery (Certificate #6048)
Diplomate
- 1998 State of California (Certificate #G084908)
- 2001 State of Hawaii (Certificate #11457 exp: 1.30.20)
- 2005 State of Tennessee (Certificate #40434)
- 2005 State of Illinois (Certificate #036-113863 exp: 8.31.14)
- 2013 State of South Dakota (Certificate #8866 exp: 3.1.21)
- 2013 The American Board of Thoracic Surgery Congenital Heart Surgery
Subspecialty Certification (Certificate #0125)
Diplomate
- 2019 State of Louisiana (Certificate #311914 exp: 5.31.21)

Academic Appointments:

July 1997-1998 Instructor, Department of Cardiovascular Surgery,
Children's Hospital Boston, Harvard Medical School
Boston, MA

Jan 1999-2000 Associate Professor in Cardiovascular Surgery
Children's Hospital in San Diego, CA

June 2005-2006 Associate Professor of Surgery
Department of Surgery, Section of Cardiothoracic Surgery
University of Chicago, IL

July 2006- Professor of Cardiac Surgery
Chief, Pediatric Cardiac Surgery
Vanderbilt University
Monroe Carell Jr. Children's Hospital

Hospital Appointments

Jan 2000-04 Section Chief, Thoracic Surgery, Children's Hospital
San Diego, CA

Jan 2000-05 Director, The Children's Heart Institute,
Children's Hospital, San Diego, CA

Jan 2000-05 Director, Division of Cardiovascular Surgery
Children's Hospital, San Diego, CA

Jan 2000-05 Medical Director, Children's Heart Institute
San Diego, CA

2003-05 At-Large Surgeon, Children's Specialists of San Diego
San Diego, CA

2003-05 Board of Directors, Children's Specialists of San Diego
San Diego, CA

June 2005-06 Director of Pediatric Cardiac Surgery
University of Chicago Hospitals, Comer Children's Hospital
Chicago, IL

2006- Surgical Director, Vanderbilt Pediatric Heart Institute
Monroe Carell Jr. Children's Hospital
Vanderbilt University Medical Center

Jan 2013- William S. Stoney, Jr. Chair in Cardiac Surgery
Monroe Carell Jr. Children's Hospital
Vanderbilt University Medical Center

Employment

1980-92 Freelance illustrator, W.B Saunders Publishers,
Little, Brown & Company Publishers, Columbia
University, Johns Hopkins University, Harvard
University Press, William Morrow Publishers

2017- Consultant, Nucleus Medical Media, Inc., Kennesaw, GA: Review
for scientific accuracy of illustrations, scripts, monographs and
other visual media under development by Nucleus, Inc.

2018- Consultant, Children's Hospital of New Orleans: Advisor to
administrative officers and faculty during a restructuring of the
CHNOLA Congenital Heart Program.

Professional Organizations:

American Association for Thoracic Surgery
Southern Thoracic Surgical Association
Nashville Surgical Society
Chicago Surgical Society
Midwest Pediatric Cardiology Society
Fellow, American College of Surgeons
Society of Thoracic Surgeons
Congenital Heart Surgeon's Society
Western Thoracic Surgical Association
Western Society of Pediatric Cardiology

Professional Activities:

Intramural

2003-2005 Academic Affairs Committee, Children's Specialists of San Diego

2006- Vanderbilt University Thoracic Surgery Residency
Education/Curriculum Committee
Vanderbilt University Medical Center

2007- Vanderbilt Children's Perioperative and Procedural Committee
Vanderbilt University Medical Center

2007- Medical Economic and Outcomes Committee (MEOC),

Vanderbilt University Medical Center

- 2013 Search Committee, Vanderbilt Chair of Cardiac Surgery
Vanderbilt University Medical Center
- 2014- Senior member, scientific committee for the Vanderbilt
Surgical Outcomes Center for Kids (SOCKS)
Vanderbilt University Medical Center
- 2018 Search committee, Vanderbilt Children's Hospital Chair of
Pediatric Surgery, Monroe Carell Jr. Children's Hospital
Surgeon-in-chief

Extramural

- 2012- Congenital Heart Surgeon's Society, Ethics and Standards
Committee
- 2014- American Board of Thoracic Surgery Congenital Heart
Surgery Subcommittee for the development of the
subspecialty board examination
- 2016- Oral Examiner, American Board of Thoracic Surgery
- 2016- Data Safety Monitoring Board, Phase III, multi-center clinical
of intravenous L-citrulline (CIT-033-01) Asklepiion
Pharmaceuticals, Baltimore, MD
- 2017- Ad Hoc Reviewer for the Congenital Heart Disease category
of the AATS Abstract Committee

Ad hoc Journal Reviewer

- 2000- New England Journal of Medicine
2001- Annals of Thoracic Surgery
2004- Journal of Thoracic and Cardiovascular Surgery
2006- Journal of Surgical Research
2009- Congenital Heart Disease Journal
2012- Circulation
2017- Plos One

Awards and Honors

- 1985-87 Joseph Collins Scholarship, Columbia University
- 1987 Joseph Garrison Parker Award, Columbia University

1992 American Federation of Clinical Investigators
Excellence in Research Award

1994 Eugene Bricker Award, Washington University

Teaching Activities:

Mentoring of Clinical Fellows: Congenital Cardiac Surgery

2003-04 Rajeev Gulati
2004-05 Douglas C Wallace

Mentoring of Clinical Residents: Cardiothoracic Surgery

2001 Michael M. Madani
2004-2007 Robert DuBose
2007 John Karamichalis
2006-2008 Tammy Baxter
2006-2009 Jared Antevil,
2007-2010 Alexandros Karavas
2008-2011 Daniel Cuadrado
2010 James Mykytenko
2011-2013 Aundrea Oliver
2011-2013 Aaron Hoffman
2014 Elena Ziarnik
2015 Frank Todd
2016 Dennis Gilmore
2016 Timothy Danish
2017 Michael Archer
2017 Ferrin Lou
2018 William McMaster

Mentoring of Clinical Research Fellows

2008-2010 Alexandros Karavas
2011 Erin Albers
2016-2018 Aanish Raees
2019 M. Owais A. Ghani

Mentoring of Medical Students

2007-2009 John Scott, (Vanderbilt EMPHASIS)
2010-2012 Ben Deschner, (Vanderbilt EMPHASIS)
2015 Aanish Raees

Scholarship Oversight Committee

2010-2014 Peggi Angel, PhD

Research Program:

Active:

1. “Leveraging Existing Registry Resources to Facilitate Clinical Trials”
 - 1U01TR001803
 - \$149,878
 - 09/15/2016-12/31/2021
 - 10% effort
 - Role: Co-Investigator

Completed:

1. “Targeted, highly sensitive, non-invasive cardiac transplant rejection monitoring”
A multi-center clinical trial of an assay for the early detection of transplant rejection by measure of circulating cell-free donor specific DNA
 - NIH-NHLBI 4R01HL119747-04
 - \$527,417
 - 07/23/2013-5/31/2018
 - 2% effort
 - Role: Principal Investigator (Vanderbilt site)
2. “Quantitative Detection of Circulating Donor-Specific DNA in Organ Transplant Recipients” (DTRT – Multi-Center Trail)
 - NIH-NHLBI-1R01HL119747-01
 - 02/21/2017-02/20/2019
 - Role: Principal Investigator
3. “Vanderbilt Biorepository for Congenital Heart Disease: A biorepository of Blood and heart tissue that is removed in the course of surgical intervention on neonates, infants and children, for palliation or repair of congenital cardiac defects”
 - VU IRB #101274
 - Role: Principal Investigator
4. Apical core, septal myectomy. A tissue repository to store heart tissue that is removed during the normal course of LVAD placement, septal myectomy and heart transplantation for future molecular investigations, and explanted heart tissue repository
 - VU IRB# 071225
 - Role: Sub-Investigator
5. “A prospective, comprehensive blood and tissue registry of in-patients and out-patients who are seen by the Vanderbilt Heart and Vascular Institute (VHVI) physicians, for use as a platform for additional studies across various disciplines in Cardiovascular Medicine A specific additional subregistry of tissue from congenital heart procedure”
 - VU IRB #090828
 - Role: Sub-investigator
6. “The Contegra bovine jugular vein valved conduit multicenter clinical study

- #9202-99C (enrollment closed, follow up ongoing)”
- Sponsor: Medtronic, Inc., Minneapolis, MN
 - 1999-2005
 - Role: Principal Investigator
7. Congenital Heart Surgeons’ Society (CHSS) multicenter studies of congenital heart disease
 - Sponsor: CHSS, The Hospital for Sick Children, Toronto
 - Role: Principal Investigator
 8. A multicenter study to evaluate the efficacy, safety, and pharmacokinetics of Brevibloc (Esmolol Hydrochloride) for the treatment of hypertension in infants and children after surgical repair of coarctation of the aorta. ETHIC clinical study, protocol # 20,015-004.
 - Sponsor: Baxter Pharmaceutical Products, Inc., New Providence, NJ
 - 2004-2005
 - Role: Principal Investigator
 9. “Dose-ranging pharmacodynamic assessment of platelet aggregation inhibition with clopidogrel in children of Blalock-Taussig shunt age categories neonates and infants/toddlers”
Platelet aggregation inhibition in children on Clopidogrel (PICOLO), study No. PDY4422
 - Sponsor: Sanofi-Synthelabo, Malvern, PA
 - 2005-2006
 - Role: Principal Investigator
 10. Retrospective study of the surgical treatment for ostium secundum atrial septal defect – A surgical arm of the multicenter pivotal study of the HELEX septal occluder
 - Sponsor: W.L. Gore & Associates, Inc., Flagstaff, AZ
 - Role: Principal Investigator
 11. “Neurodevelopmental testing in the pre-, peri-, and last postoperative period in infants undergoing single ventricle surgical palliation, including evoked response potential (ERP), serum markers of hypoxic/ischemic stress, and novel early neurodevelopmental testing of executive function”
 - VU IRB# 061217.
 - \$100,000
 - 2007-2013
 - Role: Principal Investigator

Publications and Presentations:

Articles

1. Pollard TD, Tseng PC, Rimm DL, **Bichell DP**, Williams RC Jr, Sinard J and Sato M. Characterization of alpha-actinin from Acanthamoeba. Cell Motil Cytoskeleton 1986, 6:649-61.
2. **Bichell DP**, Kikuchi K, Rotwein P. Growth Hormone rapidly activates Insulin-like Growth Factor-I gene transcription in vivo. Mol Endocrinol 1992, Nov:6(11):1899-

- 908.
3. Hall LJ, Kajimoto Y, **Bichell D**, Kim SW, James PL, Counts D, Nixon LJ, Tobin G and Rotwein P. Functional analysis of the rat Insulin-like Growth Factor-I gene and Identification of an IGF-I gene promoter. *DNA Cell Biol* 1992, May;11(4):301-13.
 4. Kikuchi K, **Bichell DP**, Rotwein P. Chromatin changes accompany the developmental activation of Insulin-like Growth Factor-I gene transcription. *J Biol Chem* 1992 Oct 25; 267(30):21505-11.
 5. Rotwein P, **Bichell DP** and Kikuchi K. Multifactorial regulation of IGF-I gene expression. *Mol Repro Devel* 1993 Aug;35(4):358-64;discussion 363-4
 6. **Bichell D**, Rotwein P and McCarthy TL. Prostaglandin E2 rapidly stimulates Insulin-like Growth Factor-I gene expression in primary rat osteoblast cultures: Evidence for transcriptional control. *Endocrinology* 1993 Sep; 133(3):1020-8.
 7. Thomas MJ, Kikuchi K, **Bichell DP** and Rotwein P. Rapid activation of rat Insulin-like Growth Factor-I gene transcription by Growth Hormone reveals no alterations in deoxyribonucleic acid-protein interaction within the major promoter. *Endocrinology* 1994 Oct; 135(4):1584-92.
 8. Thomas MJ, Kikuchi K, **Bichell DP** and Rotwein P. Characterization of deoxyribonucleic acid-protein interactions at a Growth Hormone-inducible Nuclease hypersensitive site in the rat Insulin-like Growth Factor-I gene. *Endocrinology* 1995 Feb;136(2):562-9.
 9. **Bichell DP**, Adams DH, Aranki SF, Rizzo RJ, and Cohn LH. Repair of mitral regurgitation from myxomatous degeneration in the patient with a severely calcified posterior annulus. *J Card Surg* 1995 Jul; 10(4 Pt1):281-4.
 10. Gates JD, **Bichell DP**, Rizzo RJ, Couper GS, and Donaldson MC. Thigh ischemia complicating femoral vessel cannulation for cardiopulmonary bypass. *Ann Thorac Surg* 1996 Feb; 61(2):730-3.
 11. **Bichell DP**, Balaguer JM, Aranki SF, Couper GS, Adams DH, Rizzo RJ, Collins JJ Jr and Cohn LH. Axilloaxillary cardiopulmonary bypass: a practical alternative to femorofemoral bypass. *Ann Thorac Surg* 1997 Sept; 64(3):702-5.
 12. Cohn LH, Adams DH, Couper GS, and **Bichell DP**. Minimally invasive aortic valve replacement. *Semin Thorac Cardiovasc Surg* 1997 Oct;9(4):331-6.
 13. Cohn LH, Adams DH, Couper GS, **Bichell DP**, Rosborough DM, Sears SP, and Aranki SF. Minimally invasive cardiac valve surgery improves patient satisfaction while reducing costs of cardiac valve replacement and repair. *Ann Surg* 1997 Oct; 226(4):421-6; discussion 427-8
 14. Del Nido PJ, **Bichell DP**. Minimal-access surgery for congenital heart defects. *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu*, 1998, 1:75-80.
 15. Visconti KJ, **Bichell DP**, Jonas RA, Newberger JW, and Bellinger DC. Developmental outcome after surgical versus interventional closure of secundum atrial septal defect in children. *Circulation* 1999;100(19 Suppl):II 145-50.
 16. **Bichell DP**. Evaluation and management of pulmonary atresia with intact ventricular septum. *Curr Opin Cardiol* 1999 Jan; 14(1):60-6.
 17. Jahangiri M, Zurakowski D, **Bichell D**, Mayer JE, del Nido PJ and Jonas RA. Improved results with selective management in pulmonary atresia with intact ventricular septum. *J Thorac Cardiovasc Surg* 1999 Dec;118(6):1046-55.
 18. Laussen PC, **Bichell DP**, McGowan FX, Zurakowski D, DeMaso DR, and del Nido

- PJ. Postoperative recovery in children after minimum versus full-length sternotomy. *Ann Thorac Surg* 2000 Feb;69(2):591-6.
19. **Bichell DP**, Saenz NC, Losasso BE and Sobo EJ. Pediatric aortic pseudoaneurysm associated with a gunshot wound to the chest. *J Trauma* 2000 Apr;48(4):791.
 20. **Bichell DP**, Geva T, Bacha EA, Mayer JE, Jonas RA and del Nido PJ. Minimal access approach for the repair of atrial septal defect: the initial 135 patients. *Ann Thorac Surg* 2000 Jul;70(1):115-8.
 21. Maginot KR, Mathewson JW, **Bichell DP**, Perry JC. Applications of pacing strategies in neonates and infants. *Prog in Pediatr Cardiol* 2000 May 1;11(1):65-75.
 22. Nicholson IA, **Bichell DP**, Bacha EA, del Nido PJ. Minimal sternotomy approach for congenital heart operations. *Ann Thorac Surg* 2001 Feb;71(2):469-72.
 23. Mathewson JW, **Bichell D**, Rothman A, Ing FF. Absent posteroinferior and anterosuperior atrial septal defect rims: Factors affecting nonsurgical closure of large secundum defects using the Amplatzer occluder. *J Am Soc Echocardiogr.* 2004 Jan; 17(1): 62-9.
 24. **Bichell DP**, Lamberti JJ, Pelletier GJ, Hoecker C, Cocalis MW, Ing FF, Jensen RA. Late left pulmonary artery stenosis after the Norwood procedure is prevented by a modification in shunt construction. *Ann Thorac Surg* 2005 May;79(5):1656-60; discussion 1660-1.
 25. Kurio GH, Gulati R, **Bichell DP**, Perry JC. Malalignment of the septum primum with abnormally positioned left atrial appendage: unusual combination in a Shone's heart. *Pediatr Cardiol.* 2006 Sep-Oct;27(5):628-32. Epub 2006 Aug 30
 26. **Bichell DP**, Mora BN, Mathewson JW, Kirkpatrick SK, Tyner JJ, McLees-Palinkas T. Modified technique for the surgical treatment of severe tricuspid valve deformity in Ebstein's anomaly. *Ann Thorac Surg* 2007 Feb;83(2):678-80
 27. Graham TP Jr., Markham L, Parra DA, **Bichell D**. Congenitally corrected transposition of the great arteries: an update. *Curr Treat Options Cardiovasc Med* 2007 Oct;9(5):407-13.
 28. Scott JW, Karamichalis JM, Ing F, Shirai L, **Bichell D**. Staged hybrid left pulmonary artery rehabilitation in post-fontan left pulmonary artery hypoplasia. *Ann Thorac Surg* 2007 Dec;84(6):2112-4.
 29. Soslow JH, Parra DA, **Bichell DP**, Dodd DA. Left ventricular hernia in a pediatric transplant recipient: case report and review of literature. *Pediatr Cardiol* 2009 Jan;30(1):55-8. doi 10.1007/s00246-008-9245-9. Epub 2008 June 6
 30. Antevil JL, Doyle TP, **Bichell DP**, Christian KG. Congenitally Corrected Transposition of the great arteries: a unique case from Iraq. *Pediatr Cardiol* 2010 Jan;31(1):120-3. Doi: 10.1007/s00246-009-9545-8. Epub 2009 Sep 29
 31. Niedner MF, Foley JL, Riffenburgh RH, **Bichell DP**, Peterson BM, Rodarte A. B-type natriuretic peptide: perioperative patterns in congenital heart disease. *Congenit Heart Dis* 2010 May-Jun;5(3):243-55. doi: 10.1111/j.1747-0803.2010.00396.x.
 32. Lichtenstein BJ, **Bichell DP**, Connolly DM, Lamberti JJ, Shepard SM, Seslar SP. Surgical approaches to epicardial pacemaker placement: does pocket location affect lead survival? *Pediatr Cardiol* 2010 Oct;31(7):1016-24. Doi: 10.1007/s00246-010-9754-1. Epub 2010 Aug 6.
 33. Albers EL, **Bichell DP**, McLaughlin B. New approaches to neuroprotection in infant

- heart surgery. *Pediatr Res.* 2010 Jul;68(1):1-9. Doi: 10.1203/00006450-201011001-00002.
34. **Bichell DP**. *Invited commentary*: Predictive value of intraoperative diagnosis of residual ventricular septal defects by transesophageal echocardiography. *Ann Thorac Surg* 2010 Apr;89(4):1237-8. Doi: 10.1016/j.athoracsur.2009.11.051.
 35. Fleming GA, Billings FT 4th, Klein TM, **Bichell DP**, Christian KG, Pretorius M. Angiotensin-converting enzyme inhibition alters the inflammatory and fibrinolytic response to cardiopulmonary bypass in children. *Pediatr Crit Care Med* 2011 Sep;12(5):532-8. Doi: 10.1097/PCC.0b013e3181fe3925.
 36. **Bichell DP**. *Invited commentary*: Long-term myocardial scarring after operation for anomalous left coronary artery from the pulmonary artery. *Ann Thorac Surg* 2011 Nov;92(5):1765-6. Doi: 10.1016/j.athoracsur.2011.07.009. Epub 2011 Oct 31.
 37. **Bichell DP**. Modified Konno Procedure for Left Ventricular Outflow Tract Obstruction. *Operative Techniques in Thoracic and Cardiovascular Surgery* 2011;16(1):62-69. doi: 10.1053/j.optechstcvs.2010.09.001
 38. Karavas AN, Deschner BW, Scott JW, Mettler BA, **Bichell DP**. Three-region perfusion strategy for aortic arch reconstruction in the Norwood. *Ann Thorac Surg* 2011 Sep;92(3):1138-40. Doi: 10.1016/j.athoracsur.2011.03.122
 39. Watkins SC, McCarver L, Van Bebber A, **Bichell DP**. Venous air embolism leading to cardiac arrest in an infant with cyanotic congenital heart disease. *Case Reports in Anesthesiology* 2012, ID 208430doi:10.1155/2012/208430.
 40. Albers E, Donahue BS, Milne G, Saville BR, Wang W, **Bichell D**, McLaughlin B. Perioperative plasma F(2)-isoprostane levels correlate with markers of impaired ventilation in infants with single-ventricle physiology undergoing stage 2 surgical palliation on the cardiopulmonary bypass. *Pediatr Cardiol.* 2012 Apr;33(4):562-8. doi: 10.1007/s00246-012-0166-2. Epub 2012 Feb 12.
 41. Agarwal HS, Saville BR, Slayton JM, Donahue BS, Daves S, Christian KG, **Bichell DP**, Harris ZL. Standardized postoperative handover process improves outcomes in the intensive care unit: a model for operational sustainability and improved team performance. *Crit Care Med.* 2012 Jul;40(7):2109-15. Doi: 10.1097/CCM.0b013e3182514bab
 42. **Bichell DP**. *Invited commentary*: Clinical characteristics and prognostic factors of primary pulmonary vein stenosis or atresia in children. *Ann Thorac Surg.* 2013 Jan;95(1):235. Doi: 10.1016/j.athoracsur.2012.10.020. Epub 2012 Dec 25
 43. Albers EL, **Bichell DP**, Dodd DA. Left Main coronary artery compression by a dilated pulmonary artery after heart transplantation in an infant with complex congenital heart disease. *J Heart Lung Transplant.* 2013 Apr;32(4):470-2. Doi: 10.1016/j.healun.2012.12.014. Epub 2013 Feb 1.
 44. Agarwal HS, Wolfram KB, Slayton JM, Saville BR, Cutrer WB, **Bichell DP**, Harris ZL, Barr FE, Deshpande JK. Template of patient-specific summaries facilitates education and outcomes in paediatric cardiac surgery units. *Interact Cardiovasc Thorac Surg* 2013 Oct;17(4):704-9. Doi: 10.1093/icvts/ivt293. Epub 2013 Jul 5.
 45. Agarwal HS, Hardison DS, Saville BR, Donahue BS, Lamb FS, **Bichell DP**, Harris ZL. Residual lesions in postoperative pediatric cardiac surgery patients receiving extracorporeal membrane oxygenation support. *J Thorac Cardiovasc Surg* 2014 Jan;147(1):434-41. doi: 10.1016/j.jtcvs.2013.03.021. Epub 2013 Apr 15.

46. Soslow JH, Saurers DL, Dodd DA, Doyle TP, **Bichell DP**, Kavanaugh-McHugh A. Occlusion of the left main coronary artery os by a tethered aortic valve cusp. *Ann Thorac Surg*. 2014 Mar;97(3):e63-5. Doi: 10.1016/j.athoracsur.2013.10.108.
47. Smith AH, Flack EC, Borgman KY, Owen JP, Fish FA, **Bichell DP**, Kannankeril PJ. A common angiotensin-converting enzyme polymorphism and preoperative angiotensin-converting enzyme inhibition modify risk of tachyarrhythmias after congenital heart surgery. *Heart Rhythm*. 2014 Apr; 11(4):637-43. Doi: 10.1016/j.hrthm.2014.01.005. Epub 2014 Jan 1.
48. Simpson SA, Zaccagni H, **Bichell DP**, Christian KG, Mettler BA, Donahue BS, Roberts LJ 2nd, Pretorius M. Acetaminophen attenuates lipid peroxidation in children undergoing cardiopulmonary bypass. *Pediatr Crit Care Med*. 2014 Jul;15(6):503-10. doi: 10.1097/PCC.000000000000149.
49. Agarwal HS, Wolfram KB, Saville BR, Donahue BS, **Bichell DP**. Postoperative complications and association with outcomes in pediatric cardiac surgery. *J Thorac Cardiovasc Surg*. 2014 Aug;148(2):609-16. doi: 10.1016/j.jtcvs.2013.10.031. Epub 2013 Nov 23.
50. Smith AH, Doyle TP, Mettler BA, **Bichell DP**, Gay JC. Identifying predictors of hospital readmission following congenital heart surgery through analysis of a multiinstitutional administrative Database. *Congenit Heart Dis*. 2015 Mar-Apr;10(2):142-52. doi: 10.1111/chd.12209. Epub 2014 Aug 17.
51. Agarwal HS, Barrett SS, Barry K, Xu M, Saville BR, Donahue BS, Harris ZL, **Bichell DP**. Association of blood products administration during cardiopulmonary bypass and excessive post-operative bleeding in pediatric cardiac surgery. *Pediatr Cardiol*. 2015 Mar;36(3):459-67. doi: 10.1007/s00246-014-1034-z. Epub 2014 Oct 8.
52. **Bichell DP**. *Invited commentary*: Fourth decade after repair of tetralogy of Fallot: taking aim at moving targets. *Circulation*. 2014 Nov 25;130(22):1931-2. doi: 10.1161/CIRCULATIONAHA.114.013270. Epub 2014 Oct 23.
53. **Bichell DP**. *Invited commentary*: Surgical indications and results of mitral valve repair in pediatric patients with ventricular septal defects accompanied by mitral valve regurgitation. *Ann Thorac Surg* 2015 Mar;99(3):897-8 doi: 10.1016/j.athoracsur.2014.12.027.
54. **Bichell DP**. *Invited commentary*: It is still mostly about the mitral valve. *J Thorac Cardiovasc Surg* 2015 Aug;150(2):375-6. doi: 10.1016/j.jtcvs.2015.06.020. Epub 2015 Jun 17.
55. **Bichell DP**. *Invited commentary*: Neo-aortic support hose. *J Thorac Cardiovasc Surg*. 2016 Jan;151(1):165-6. doi: 10.1016/j.jtcvs.2015.10.006. Epub 2015 Oct 9
56. Chorna O, Baldwin HS, Neumaier J, Gogliotti S, Powers D, Mouvery A, **Bichell D**, Maitre NL. Feasibility of a Team Approach to Complex Congenital Heart Defect Neurodevelopmental Follow-Up: Early Experience of a Combined Cardiology/Neonatal Intensive Care Unit Follow-Up Program. *Circ Cardiovasc Qual Outcomes*. 2016 Jul;9(4):432-40. doi: 10.1161/CIRCOUTCOMES.116.002614. Epub 2016 May 24

57. Angel PM, Bayoumi AS, Hinton RB, Ru Su Y, **Bichell D**, Mayer JE, Scott Baldwin H, Caprioli RM. MALDI Imaging Mass Spectrometry as a Lipidomic Approach to Heart Valve Research. *J Heart Valve Dis*. 2016 Mar;25(2):240-252.
58. Craig B, Rellinger E, Bhattacharya S, Chung D, Martinez E, Correa H, **Bichell DPV**. Retrocardiac mediastinal foregut duplication cyst. *Journal of Pediatric Surgery Case Reports*. 2016 Aug 29;14:45-48, doi:10.2016/j.epsc.2016.08.010.
59. Angel PM, Baldwin HS, Gottlieb Sen D, Su YR, Mayer JE, **Bichell D**, Drake RR. Advances in MALDI imaging mass spectrometry of proteins in cardiac tissue, including the heart valve. *Biochim Biophys Acta Proteins Proteom*. 2017 Jul;1865(7):927-935. doi: 10.1016/j.bbapap.2017.03.009. Epub 2017 Mar 21. PMID:28341601
60. Durbin MD, Cadar AG, Williams CH, Guo Y, **Bichell DP**, Su YR, Hong CC. Hypoplastic Left Heart Syndrome Sequencing Reveals a Novel NOTCH1 Mutation in a Family with Single Ventricle Defects. *Pediatr Cardiol*. 2017 Aug;38(6):1232-1240. doi: 10.1007/s00246-017-1650-5. Epub 2017 Jun 12 PMID:28608148
61. Raees MA, Morgan CD, Pinto VL, Westrick AC, Shannon CN, Christian KG, Mettler BA, **Bichell DP**. Neonatal Aortic Arch Reconstruction With Direct Splanchnic Perfusion Avoids Deep Hypothermia. *Ann Thorac Surg*. 2017 Dec;104(6):2054-2063. doi: 10.1016/j.athoracsur.2017.04.037. Epub 2017 Jul 12. PMID: 28709662
62. **Bichell D**, Raees MA. *Invited commentary*: An umbrella arrives toward the end of the storm: Patient-tailored aspirin dosing improves late perioperative thromboprophylaxis. *J Thorac Cardiovasc Surg*. 2017 Nov;154(5):1731-1732. doi: 10.1016/j.jtcvs.2017.07.031. Epub 2017 Jul 29. PMID: 28863955
63. Hall EJ, Smith AH, Fish FA, **Bichell DP**, Mettler BA, Crum K, Kannankeril PJ, Radbill AE. Association of shunt type with arrhythmias after Norwood procedure. *Ann Thorac Surg* 2018 Feb;105(2):629-636. doi: 10.1016/j.athoracsur.2017.05.082. Epub 2017 Sep 28. PMID: 28964410
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65. **Bichell D**. *Invited commentary*: Neonatal Arch Reconstruction: Guiding Principles, Some Misguided Ones, and a Few More That Don't Matter. *Semin Thorac Cardiovasc Surg*. 2017 Nov 29. pii: S1043-0679(17)30301-5. doi: 10.1053/j.semtcvs.2017.11.011. [Epub ahead of print] No abstract available. PMID 29197613
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10. **Bichell DP**, and Mettler BA. Chapter 40: Mitral valve repair for congenital mitral valve disease in the adult. In: Cardiac Surgery in the Adult, 5th ed., Lawrence H Cohn, editor, McGraw Hill Publ. (*in press*)
11. **Bichell DP**. Double Outlet Right Ventricle. In: Critical Heart Disease in Infants and Children, 3rd ed. Elsevier Publ. 2018 (*in press*).
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Books:

1. Shipman P, Walker A, and **Bichell D**. The Human Skeleton. Cambridge: Harvard University Press, 1986.

Illustrations (books):

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2. Becker R and Seldon G. The Body Electric. New York: William Morrow, Inc., 1985. (87 drawings).
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Abstracts

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 8. Mainwaring RD, Uzark K, **Bichell DP** and Lamberti JJ. Hemi-Fontan versus cavopulmonary shunt: mid-term follow-up and evaluation of sinus node function. *Circulation* 2001, 104(17 Suppl II):II-710.
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 10. Mathewson JW, Ing FF, **Bichell DP**. Absent Posterior-Inferior and Antero-Superior Atrial Septal Defect Rims: Implications for Non-Surgical Closure of Large Secundum Defects Using the Amplatzer Occluder. SCAI Scientific Sessions, Boston, May 2003.
 11. Perry J, Boramanand N, Lamberti J, Maginot K, **Bichell D**. Atrial tachycardias following surgical approach to presumed tachycardia substrates during Fontan revision in young adults. NASPE, New York, 2003
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18. Agarwal H, Wolfram K, Wang W, Saville B, Grando B, Christian K, **Bichell DP**, Harris Z. Does cardiopulmonary bypass time affect post-operative complications following pediatric cardiac surgery? ACC Abstract Number 1098-441, New Orleans, LA, April 4, 2011.
19. Noland JS, **Bichell DP**, Baldwin HS, Key AF. Motorically delayed infants with congenital heart disease (CHD): Unexpected sparing of executive functioning. Poster presented at the biennial meeting of the Society for Research and Child Development (SRCD) Montreal, C.A., April 2011.
20. Brixey AG, Luo Y, Bernard Y, Gowda SS, **Bichell DP**, Christian KG, Baldwin HS, Light RW. Characteristics of pleural effusions in patients undergoing the Fontan or Glenn procedures for congenital cardiac defects. American Thoracic Society 2011 International Conference. Denver, CO, May 13-18, 2011.
21. Smith AH, Hardison DC, Bridges BC, Christian KG, Mettler BA, **Bichell DP**. Changes in Oxygen tension among patients with single ventricle physiology supported with extracorporeal membrane oxygenation. Society of Critical Care Medicine Annual Congress, Houston, TX. February 4-8, 2012.
22. Angel PM, **Bichell DP**, Su YR, Hinton RB, Mettler BA, Baldwin HS, Capriolo RM. A Potential Role for Lipid Signaling in Pediatric Congenital Aortic Valve Stenosis. Abstract for Poster Presentation, Weinstein Cardiovascular Development Conference (2013), Cincinnati, OH.
23. Smith A, Parra D, Mettler B, **Bichell DP**. Quantifying The Impact Of Early Term Gestation Delivery Upon Resource Demands Following Neonatal Congenital Heart Surgery. American Heart Association Scientific Sessions, Nov 15-19, 2014, Chicago, IL
24. Morgan, CD, Pinto, V, Westrick AC, Shannon CN, Christian K, Mettler BA, **Bichell DP**. Neonatal aortic arch reconstruction with splanchnic perfusion avoids deep hypothermia and supports recovery of extracardiac organs. Southern Thoracic Surgical association (STSA) 63rd Annual Meeting, November 9-12, 2016, Naples FL.
25. Talbot K, Reed A, Baldwin HS, **Bichell DP**, Su YS, Drake RR, Angel PM. N-Glycan Changes in the Human Aortic Valve during Development and Disease by Imaging Mass Spectrometry Abstract ID number: 290520. 65th ASMS Conference, June 5, 2017, Indianapolis, IN
26. Chew J, Hill KD, Jacobs ML, Jacobs JP, Killen SAS, Godown J, Wallace A, Chiswell K, **Bichell DP**, Soslow J. Distribution and Outcomes of Congenital Heart Surgery in Turner Syndrome Using the Society of Thoracic Surgeons Congenital Heart Surgery Database. American Heart Association Scientific Sessions, November 10, 2018, Chicago, IL
27. Richmond ME, Kindel SJ, Schroder JN, Deshpande SR, **Bichell DP**, Wigger MA, Knecht KR, Pahl E, Gaglianella NA, Simpson PM, Mahle WT, Mitchell AT, Zangwill SD, Mitchell ME. Increase in Donor Fraction Cell-Free DNA Correlates with Cellular and Antibody Mediated Rejection (ACR/AMR) in Adult and Pediatric Heart Transplant Recipients: DNA Based Transplant Rejection Test (DTRT)-A Prospective Blinded Multicenter NIH/NHLBI Funded Clinical Study, ISHLT 39th Annual Meeting and Scientific Sessions, April 4, 2019, Orlando, FL.
28. Zangwill SD, Kindel SJ, Schroder JN, **Bichell DP**, Deshpande SR, Wigger MA,

- Richmond ME, Knecht KR, Gaglianella NA, Pahl E, Simpson PM, Mahle WT, Mitchell AT, Mitchell ME . Increase in Total Cell-Free DNA Correlates with Death in Adult and Pediatric Heart Transplant Recipients: DNA Based Transplant Rejection Test (DTRT)-A Prospective Blinded Multicenter NIH/NHLBI Funded Clinical Study;, ISHLT 39th Annual Meeting and Scientific Sessions, April 4, 2019, Orlando, FL.
29. Clift C, Comte-Walters S, Ball LE, **Bichell D**, Su YR, Mehta A, Drake RR, Angel PM. A Novel Proteomic Method Defines Extracellular Matrix Proteins and Their Post-Translational Modifications from Formalin-Fixed, Paraffin-Embedded Specimens of Heart Valve Disease. American Society for Mass Spectrometry, June 2-6, 2019, Atlanta, GA
30. Ghani MOA, Raees MA, Tang AR, Anandan D, Mettler BA, Christian KG, Shannon CN, **Bichell DP**. Transdiaphragmatic tunneled broviac catheters: Cost-effective perioperative central venous access. Southern Thoracic Surgical Association 66th Annual Meeting, November 6-8, 2019, Marco Island, FL
31. Harris G, Ghani MOA, Raees MA, Shannon C, Nicholson G, **Bichell D**. Incidence of reintervention following aortic arch repair using a tailored autologous pericardial patch. Southern Thoracic Surgical Association 66th Annual Meeting, Nov 8, 2019, Marco Island, FL
32. Radbill AE, Smith AH, Van Driest SA, Fish FA, **Bichell DP**, Mettler BA, Christian KG, Edwards TL, Kannankeril PJ. The Impact of Body Mass Index on Post-operative Arrhythmias After Congenital Heart Surgery in Children. Heart Rhythm Society 2020 Virtual Scientific Sessions, May, 2020.
33. Chew, J, et al. Contemporary practice in surgical management of congenitally corrected transposition of the great arteries: An analysis the society of thoracic surgeons congenital heart surgery database (STS-CHD) Poster, ACC 70th Annual Scientific Session, May 15-17, 2021, in Atlanta, Georgi

Invited Lectures: Regional, National, and International

1. "Multiple Ventricular Septal Defects: Which VSD should be Left for the Surgeon"? Frontiers in Diagnosis and Management of Congenital Heart Disease, Boston, Massachusetts, April 30- May 2, 1998
2. "Pacemakers", California Society of Pediatric Cardiology Annual Meeting, Del Mar, California, September 1999
3. "Advances in Congenital Cardiovascular Surgery", Grand Rounds, Mercy Hospital, San Diego, California, May 2000
4. "Advances in Congenital Cardiovascular Surgery", Grand Rounds, Children's Hospital San Diego, San Diego, California, February 15, 2002
5. "Single Ventricle Physiology", Balboa Naval Hospital, Department of Pediatrics, San Diego, California, April 22, 2003
6. "Vascular Rings", ENT Division lecture series, Children's Hospital San Diego, June 13, 2003
7. "Management of Hypoplastic Left Heart Syndrome and Cardiac Transplantation", III Congresso Internazionale de Terapia Intensiva Pediatrica, Monterrey, Mexico, June 21-25, 2004
8. "Homografts in Infants and Children", Congenital Cardiovascular Surgery

- Symposium, San Diego, California, October 15, 2004
9. "Advances in Neonatal Cardiothoracic Surgery", 2004 Neonatal-perinatal symposium, Long Beach California, September 10, 2004
 10. "Practical neonatal cardiology: What you really need to know?", The Fetus & Newborn: State of the Art Care Conference, La Jolla, California, October 20, 2004
 11. "Right ventricle to pulmonary artery conduits: Alternatives to the homograft", Vanderbilt University, Nashville, Tennessee, March 4, 2005
 12. "Management strategies for pulmonary hypertension", Mexican Society of Cardiac Surgery XIV International Congress, Monterrey, Mexico, March 31, 2005
 13. "Right ventricle to pulmonary artery conduits", Mexican Society of Cardiac Surgery XIV International Congress, Monterrey, Mexico, March 31, 2005
 14. "Long term outcome following the surgical closure of atrial septal defect", PICS IX/ENTICHS 2005, Buenos Aires, Argentina, September 16, 2005
 15. "Critical aortic valve stenosis in the neonate: Surgery should be the first option", SCAI 29th Annual Scientific Sessions, Chicago, IL, May 11, 2006
 16. "Challenges in the treatment of complex pulmonary artery problems", Mary Bridge Children's Hospital, Tacoma WA, August 11, 2006
 17. "Dealing with stents in the operating room", PICS 2006, Las Vegas, NV September 12, 2006
 18. "Intraoperative stents", PICS 2006, Las Vegas, NV, September 13, 2006
 19. "Adult congenital cardiac disease", American College of Surgeons 2006 Postgraduate review course, Chicago, IL, October 12, 2006
 20. "Rehabilitation of pulmonary arteries in congenital heart disease". XLIII Congreso Chileno de Cardiología y Cirugía Cardiovascular, Vina del Mar, Chile November 30, 2006
 21. "Primary repair of tetralogy of Fallot in infancy" Invited speaker, XLIII Congreso Chileno de Cardiología y Cirugía Cardiovascular, Vina del Mar, Chile November 30, 2006
 22. "Advances in Cardiopulmonary Bypass: Optimizing the neurologic outcome after congenital heart surgery", XLIII Congreso Chileno de Cardiología y Cirugía Cardiovascular, Vina del Mar, Chile, November 29, 2006
 23. "Evaluation of Adults with Congenital Heart Disease", STS/Tech-Com Program, Ft. Lauderdale, FL, January 27, 2008
 24. "Current Management of Hypoplastic Left Heart Syndrome", Nashville Surgical Society, Nashville, TN, March 6, 2008
 25. "Myocardial Protection: From Basic Science to Clinical Practice", Italian Society of Pediatric Cardiac Surgery Symposium Borgo di Tragliata, Rome, Italy, October 31, 2009
 26. "Art and Surgery", 31st Annual Meeting of The American Academy of Cardiovascular Perfusion (AACP), Nashville, TN, January 30, 2010
 27. "Thrombosis, infection, and central venous access in neonates undergoing congenital cardiac surgery", Cardiology 2011, 15th Annual Update on Pediatric and Congenital Cardiovascular Disease, Scottsdale, AZ. February 4, 2011
 28. "The arch", Cardiology 2011, 15th Annual Update on Pediatric and Congenital Cardiovascular Disease, Scottsdale, AZ, February 6, 2011

29. "Congenital Cardiac Surgery in the Neonate: Surgical Outcomes in the Current Era", Fetal Echocardiography: An intensive review course, Montgomery Bell Park, Burns, TN, August 16-19,2012
30. "Congenital Cardiac Surgery in the Neonate: Perioperative Considerations", Fetal Echocardiography: An intensive review course Montgomery Bell Park, Burns, TN, August 16-19,2012
31. "Neonatal Heart Surgery: Advances in Diagnosis and Treatment", BACH CME lecture. Ft. Campbell, KY, March 14, 2013
32. Diagnostic and surgical management of coarctation of the aorta, Gateway Medical Center Perinatal-Neonatal Update lecture, Clarksville, TN, June 15, 2013
33. Congenital Cardiac Surgery in the Current Era, Cumberland Pediatric Foundation lecture, Nashville, TN, June 19, 2013
34. "Aortic Arch Anomalies and Tracheal Obstruction", Contemporary Management of Aerodigestive Disease in Children, Nashville, TN, October 9, 2013
35. "Near Infrared Spectroscopy in Infant Cardiac Surgery", Covidien invited lecture, Boulder CO, April 18, 2014
36. "Aortic Arch Anomalies and Tracheal Obstruction". Contemporary Management of Aerodigestive Disease in Children, Nashville, TN, November 8, 2014
37. "Lessons on the Way to Optimal Outcomes for Cardiac Children- Prenatal to Pre-adult", East Tennessee University Medical Center, Johnson City, TN March 25, 2015
38. "Aortic arch reconstruction", American College of Cardiology 65th Annual Scientific Sessions (ACC.16), Chicago, IL, April2-4, 2016
39. "Management of Perfusion in HLHS - DHCA vs. Warm Antegrade and Distal Perfusion", Congenital Postgraduate Course, 2017 AATS/ STS Congenital Heart Disease Symposium: Innovations and Controversies in the Surgical Management of Congenital Heart Disease, Boston, MA, April 30, 2017
40. What are we doing today to improve tomorrow: "Unbalanced atrioventricular septal defect", AATS/STS Congenital heart disease symposium: What are we doing today to improve tomorrow, AATS 98th Annual Meeting, San Diego, CA, April 29, 2018
41. "Pulmonary artery reconstruction with 'growable' aortopulmonary shunt", AATS Congenital Surgical Cinema, AATS 98th Annual Meeting, San Diego, CA, May 1, 2018
42. "Transannular patch or valve sparing or something in between", Path-echo correlations I: Tetralogy of Fallot, American Society of Echocardiography 29th annual scientific sessions, Nashville, TN, June 23, 2018
43. "Surgical approaches to unifocalization", Path-echo correlations II: Tetralogy of Fallot with pulmonary atresia and MAPCA, American Society of Echocardiography 29th annual scientific sessions, Nashville, TN, June 23, 2018
44. Path-echo correlations II: Tetralogy of Fallot: with pulmonary atresia and MAPCA, Case presentation and discussion. American Society of Echocardiography 29th annual scientific sessions, Nashville, TN, June 23, 2018

Invited discussant: Regional, National and International

1. "Controlled reoxygenation during cardiopulmonary bypass induces anti-inflammatory

- and cardioprotective response in single ventricle patients undergoing pediatric heart surgery” (Massimo Caputo, presenter), Annual Meeting of the American Association for Thoracic Surgery, 94th Annual meeting, Toronto, Canada, April 30, 2014
2. “Long-term survival and freedom from reoperation following right ventricular outflow tract reconstruction using xenograft valves” (George Alfieris, presenter), Southern Thoracic Surgical Society 62nd Annual Meeting, Lake Buena Vista, FL, November 6, 2015
 3. “Need for repair of partial and transitional atrioventricular septal defects during infancy is associated with increased risk of reoperation (Carlos Mery et al, Iki Adachi, presenter), AATS 98th Annual Meeting, San Diego, CA, May 1, 2018
 4. Nationwide Results of Complete Atrioventricular Septal Defects Over 25 Years: Overall and Event-Free Survival After Modified Single-Patch Repair Are Equivalent to Double Patch Repair, AATS 99th Annual Meeting, Toronto, Canada, May 4-7, 2019
 5. “Re-operating internationally on Fallot’s complex- A comedy of errors” Aubyn Marath, presenter) Congenital Heart Surgeons Society 47th Annual Meeting, Chicago, IL, October 27, 2019

Moderator at Scientific Meetings

1. Program Director, Congenital Cardiovascular Surgery Symposium, San Diego, California, October 15-16, 2004
2. Late Breaking Clinical Trial Abstract Presentations, Congenital Session,, 48th Society of Thoracic Surgeons Annual Meeting, Ft. Lauderdale, FL, January 30, 2011
3. Congenital Session II, 48th Society of Thoracic Surgeons Annual Meeting, Ft. Lauderdale, FL, January 31, 2011
4. Session on current controversies in congenital heart disease, 47th Annual Southeast Pediatric Cardiology Society (SPCS) Conference, Durham, NC, September 6, 2014
5. Congenital Session, American College of Cardiology 2015 (ACC.15), Scientific Sessions, San Diego, CA, March 14-16, 2015
6. Program Chair, Congenital Skills and “Hands on” Course, American Association for Thoracic Surgery (AATS) 2017 Annual Meeting, Boston, MA, April 29, 2017
7. Session chair, Path-echo correlations I: Tetralogy of Fallot, American Society of Echocardiography 29th annual scientific sessions, Nashville, TN, June 23, 2018