

RYAN R. DAVIES, M.D., F.A.C.S.

CURRENT POSITION

**Associate Professor, Director of Pediatric Heart Transplantation and Mechanical Circulatory Support
UT Southwestern Medical Center/Children's Medical Center - Dallas, Dallas, TX — Jul 2017 to present**

EDUCATION

Yale University School of Medicine, New Haven, CT — MD, May 2001
Yale University, New Haven, CT — B.A. in Architecture, *cum laude*, May 1996

ACADEMIC APPOINTMENTS

**Associate Professor of Cardiovascular and Thoracic Surgery, UT Southwestern Medical Center
Dallas, TX — Jul 2017 to present**

**Associate Professor of Surgery and Pediatrics, Thomas Jefferson University
Philadelphia, PA — Sept 2016 to Jun 2017**

**Assistant Professor of Surgery, Thomas Jefferson University
Philadelphia, PA — Aug 2011 to Sept 2016**

**Clinical Instructor in Cardiothoracic Surgery, Stanford University School of Medicine
Palo Alto, CA— Jan 2010 to Mar 2011**

**Associate Fellow, Berkeley College, Yale University
New Haven, CT — Jul 2004 to Jun 2012**

FELLOWSHIP TRAINING

**Clinical Instructor in Pediatric Cardiac Surgery, Lucile Packard Children's Hospital - Stanford
Palo Alto CA— Jan 2010 to Mar 2011**

**Resident in Thoracic Surgery, NewYork-Presbyterian - Columbia University
New York NY — Jan 2008 to Dec 2009**

**Clinical Fellow in Thoracic Surgery (Pediatric Cardiac), Columbia University Medical Center
New York NY — Jul 2007 to Dec 2007**

INTERNSHIP AND RESIDENCY

**Administrative Chief Resident in Surgery, NewYork-Presbyterian - Columbia University
New York NY — Jul 2006 to Jun 2007**

**Resident in Surgery, NewYork-Presbyterian - Columbia University
New York NY — Jul 2005 to Jun 2006**

**Intern & Resident in Surgery, NewYork-Presbyterian - Columbia University
New York NY — Jun 2001 to Jun 2004**

BOARD CERTIFICATION

Congenital Cardiac Surgery Subspecialty Certificate, American Board of Thoracic Surgery — 2015

American Board of Thoracic Surgery — 2011

American Board of Surgery — 2008

ADMINISTRATIVE APPOINTMENTS

**Surgical Director, Pediatric Heart Transplantation and Mechanical Circulatory Support, Children's
Health (Dallas) and UT Southwestern Medical Center, Dallas, TX — Jul 2017 to present**

**Chair, OPTN/UNOS Thoracic Organ Transplantation Committee, Richmond, VA — May 2018 to present;
Vice Chair — May 2016 to May 2018; Region 2 Representative— May 2014 to May 2016**

**Work Group Member, Transplant Hospitals Work Group, OPTN/UNOS Systems Metrics Summit,
Richmond, VA — Jun 2018 to present**

**Committee Member, OPTN/UNOS Ad Hoc Committee on Geography, Richmond, VA — Jan 2018 to
present**

Thoracic Committee Representative, OPTN/UNOS Policy Oversight Committee, Richmond, VA — May 2016 to Jun 2018

Chair, Medical Advisory and Policy Board, Gift of Life Donor Program Philadelphia, PA — Jan 2017 to Jun 2017; **Vice Chair** — Jan 2015 to Dec 2016; **Board Member** — Jan 2013 to Jun 2017

Director, Mechanical Circulatory Support and Cardiac ECLS, Nemours A.I. duPont Hospital for Children, Wilmington, DE — Jun 2013 to Jun 2017

Surgical Director of Cardiac ECLS, Nemours/A.I. duPont Hospital for Children, Wilmington, DE — Apr 2011 to Jun 2017

HOSPITAL APPOINTMENTS

Cardiovascular and Thoracic Surgeon, **Children's Medical Center**, Dallas, TX — Jul 2017 to present

Active Surgeon, **UT Southwestern Hospitals**, Dallas, TX — Jul 2017 to present

Active Surgeon, **Texas Health Presbyterian - Dallas**, Dallas, TX — Jul 2017 to present

Active Surgeon, **Parkland Memorial Hospital**, Dallas, TX — Jul 2017 to present

Cardiovascular and Thoracic Surgeon, **Dell Children's Hospital**, Austin, TX — Jul 2017 to Aug 2018

Cardiothoracic Surgeon, **A.I. duPont Hospital for Children**, Wilmington, DE — Apr 2011 to Jun 2017

Active Surgeon, **Thomas Jefferson University Hospitals**, Philadelphia, PA — Apr 2011 to Jun 2017

Active Surgeon, **Christiana Hospital**, Newark, DE — Jan 2013 to Jun 2017

Active Surgeon, **Geisenger Medical Center**, Danville, PA — Dec 2014 to Jun 2017

Active Surgeon, **Nemours Children's Hospital**, Orlando, FL — Aug 2015 to Jun 2017

Attending Surgeon, **Stanford University Hospitals**, Palo Alto, CA — Jan 2010 to Mar 2011

Attending Surgeon, **Lucile Packard Children's Hospital**, Palo Alto, CA — Jan 2010 to Mar 2011

ADMINISTRATIVE COMMITTEE MEMBERSHIPS

Heart Center Research Committee, Children's Medical Center - Dallas — 2017 - present

Heart Center Quality and Safety Committee, Children's Medical Center — 2018 - present

ECMO Operations Committee, A.I. duPont Hospital for Children — 2016 - 2017

Medical Executive Committee, Member-at-Large, A.I. duPont Hospital for Children — 2016-2017

Education Committee, Nemours Cardiac Center — 2011-2017

Critical Care ECMO Steering Committee, Nemours/A.I. duPont Hospital for Children — 2012-2017

Cardiac Care Committee, Nemours Cardiac Center — 2011-2017

Electronic Medical Record Working Group, Columbia University Department of Surgery — 2005

Graduate Medical Education Committee, NewYork-Presbyterian Hospital — 2005

TEACHING / EDUCATION EXPERIENCE

Congenital Rotation Director, Thoracic Surgery Residency, Temple University — 2016-2017

Education Committee, Nemours Cardiac Center — 2011-2017

Graduate Medical Education Committee, NewYork-Presbyterian Hospital — 2005

INTERNATIONAL CLINICAL EXPERIENCE

Hearts with Hope (Corazones con Esperanza) Cardiac Surgical Mission - Jan 2014, Jun 2015

Hospital Dos de Mayo, Lima, Peru

Gift of Life International & Hearts with Hope (Corazones con Esperanza) Cardiac Surgical Mission -

Jul 2016; Quezon City, The Philippines

HONORS & AWARDS

Richard E. Clark Paper for Congenital Heart Surgery, 2013 (STS Annual Meeting)

J Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery, 2013 (STS Annual Meeting)

Blakemore Prize, 2007 - outstanding body of research during residency (CUMC Department of Surgery)

Pediatric Heart Transplant Study/Astellas Young Investigator Award, 2007

Blakemore Award, 2006 - outstanding research during the previous year (CUMC Department of Surgery)

Thoracic Surgery Directors' Association Research Award, 2006 (STS Annual Meeting)

Ferris Prize, 2001 - outstanding thesis

Association of Academic Surgery Student Research Prize, 2001

Farr Scholar, 2000 - "superior performance as a medical student"

Marguerite Rush Lerner Prize for Creative Writing, 2000

RESEARCH FUNDING

Principal Investigator, American Heart Association Great Rivers Affiliate Grant-in-Aid — 2016-2017

“Predictors of Individual Variation in Neurodevelopmental Outcomes Among Children Undergoing Cardiac Surgery”

Total Funding: \$154,000, Duration: 24 mths

Principal Investigator, Delaware-Clinical Translational Research Center Pilot Grant — 2013-2015

“Mannose-binding lectin and neurodevelopmental outcomes after cardiac surgery”

Total Funding: \$95,000, Duration: 18 mths

Principal Investigator, Start-Up Grant, Columbia University Department of Surgery — 2006

Total Funding: \$5,000, Duration: 1 year

EDITORIAL POSITIONS

Editorial Board Member, **Journal of Thoracic and Cardiovascular Surgery** — 2018 to present; Reviewer. 2011 to present

Section Editor, Pediatric Heart Transplantation, In: Solid Organ Transplantation in Infants and Children. Dunn S. and Horslen S., eds. (2008: Springer International Publishing, Cham, Switzerland).

Reviewer, **Annals of Thoracic Surgery** — 2004 to present

Reviewer, **Circulation** — 2010, 2016 to present

Reviewer, **Congenital Heart Disease** — 2013 to 2015

Reviewer, **Cardiology in the Young** — 2012 to 2015

Reviewer, **World Journal of Pediatric and Congenital Heart Disease** — 2011 to present

Reviewer, **Transplant International** — 2013 to 2015

Reviewer, **American Journal of Transplantation** — 2014 to present

Reviewer, **Pediatric Transplantation** — 2014 to present

Reviewer, **JACC-Heart Failure** — 2015 to present

Reviewer, **ASAIO Journal** — 2017 to present

PROFESSIONAL MEMBERSHIPS

American Association of Thoracic Surgeons - 2017

American Academy of Pediatrics — 2017

Congenital Heart Surgeon’s Society — 2016

Fellow of the American College of Surgeons— 2014

American Heart Association, Professional Member — 2011

Society of Thoracic Surgeons — 2011

European Association for Cardio-Thoracic Surgery — 2011

International Society of Heart and Lung Transplantation — 2009

LICENSURE

Active State Medical Licenses: Texas (2017), Florida (2014), Pennsylvania (2011), Delaware (2011), California (2010), New York (2004)

Inactive State Medical Licenses: Massachusetts (2014-2017), New Jersey (2014-2017)

PUBLICATION METRICS

citations: 3774, h-index: 28 (source: Google Scholar 10/2018)

citations: 2729, h-index: 26 (source: Scopus 10/2018)

PEER-REVIEWED PUBLICATIONS

1. **Davies RR**, Bano M, Butts R, et al. Donor organ turn-downs and outcomes following listing for pediatric heart transplant. *J Heart Lung Transpl* 2018; published online (DOI: 10.1016/j.healun.2018.09.026)
2. Friedland-Little J, ..., **Davies RR**. Changes in renal function following left ventricular assist device placement in pediatric patients: a Pedimacs analysis. *J Heart Lung Transpl* 2018; 37: 1218-25. (DOI: 10.1016/j.healun.2018.06.016)
3. Holst KA, Dearani JA, Said SM, **Davies RR**, et al. Surgical management and outcomes of Ebstein anomaly in neonates and infants: a Society of Thoracic Surgeons Congenital Heart Surgery Database analysis. *Ann Thorac Surg* 2018, 106: 785. (DOI: 10.1016/j.athoracsur.2018.04.049)
4. Conway J, Miera O, Adachi I, Maeda K, Eghtesady P, Henderson HT, Guleserian K, Fan CS, Kirk R, and the **Pediatric VAD Investigators**. Worldwide experience of a durable centrifugal flow pump in pediatric patients. *Semin Thorac Cardiovasc Surg* 2018, published online (DOI:10.1053/j.semtcvs.2018.03.003)

5. Lorts A, Eghtesady P, Mehegan M, Adachi I, Villa C, **Davies RR**, et al. Outcomes of children supported with devices labeled as “temporary” or short-term: A report from the Pediatric Interagency Registry for Mechanical Circulatory Support. *J Heart Lung Transpl* 2018; 54-60. (DOI: 10.1016/j.healun.2017.10.023).
6. Noeder MM, Logan BA, Struempfl KL, ... , **Davies RR**, Sood E. Developmental screening in children with congenital heart disease: ages and stages questionnaires. *Cardiol Young* 2017; 27: 1447-54. (DOI: 10.1017/S1047951117000415).
7. **Davies RR**, Haldeman S, McCulloch MA, Gidding SS, Pizarro C. Urgent listing exceptions and outcomes in pediatric heart transplantation: comparison to standard criteria patients. *J Heart Lung Transpl* 2017; 36: 280–288. (DOI: 10.1016/j.healun.2016.09.007)
8. Burch PT, Ravishankar C, Newburger J, ... , **Davies RR**, Jacobs JP, Lai WW, Minich L. Assessment of growth 6 years after the Norwood procedure. *J Pediatr* 2017;180: 270-4.
9. Pizarro C, **Davies RR**, Theroux M, Spurrier EA, Averill LW, Tomatsu S. Surgical reconstruction for severe tracheal obstruction in Morquio A syndrome. *Ann Thorac Surg* 2016; 102: e329-31.
10. Hertzog JH, Pearson TE, Priest MA, Spurrier E, **Davies RR**. Emergent interhospital transport of a pediatric patient with a Berlin Heart device. *Air Med J* 2016; 35: 314-16.
11. Hong KN, Merlo A, Chauhan D, **Davies RR**, Iribarne A, Johnson E, Jeevanandam V, Russo MJ. Evidence supports severe renal insufficiency as a relative contraindication to heart transplantation. *J Heart Lung Transpl* 2016; 35: 893.
12. **Davies RR**, Haldeman S, McCulloch MA, Gidding SS, Pizarro C. Low body mass index is associated with increased waitlist mortality among children listed for heart transplant. *J Heart Lung Transpl* 2015; 34: 1462. (DOI: 10.1016/j.healun.2015.05.023).
13. **Davies RR**, Radtke WA, Bhat MA, Baffa JM, Woodford E, Pizarro C. Hybrid palliation for critical systemic outflow obstruction: neither rapid stage 1 Norwood nor comprehensive stage 2 mitigate consequences of early risk factors. *J Thorac Cardiovasc Surg* 2015; 149: 182-93. (DOI:10.1016/j.jtcvs.2014.09.030).
14. **Davies RR**, Priest M, Pizarro C. First use of an intra-pericardial continuous flow ventricular assist device in a child with muscular dystrophy. *Cardiol Young* 2015; 25: 184-6. (DOI:10.1017/S1047951113002412).
15. Robinson BW, Temple J, Octavio JM, Thacker D, Kharouf R, **Davies RR**, Gidding S. Predicting utility of exercise tests based on history/Holter in patients with premature ventricular contractions. *Pediatr Cardiol* 2015; 36: 214-8. (DOI:10.1007/s00246-014-0988-1).
16. Pizarro C, **Davies RR**, Woodford E, Radtke WA. Improving early outcomes following hybrid procedure for patients with single ventricle and systemic outflow obstruction: defining risk factors. *Eur J Cardiothorac Surg* 2014; 47: 995-1001 (DOI:10.1093/ejcts/ezu373).
17. **Davies RR**, McCulloch MA, Haldeman S, Pizarro C. Creation of a quantitative risk score to predict the need for mechanical circulatory support in children awaiting heart transplant. *Ann Thorac Surg* 2014; 98: 675-84. (DOI:10.1016/j.athoracsur.2014.04.087).
18. Burch P, Gerstenberger E, Ravishankar C, Hehir D, **Davies RR**, Colan S, et al. Longitudinal assessment of growth in hypoplastic left heart syndrome: results from the Single Ventricle Reconstruction trial. *J Am Heart Assoc* 2014; 23: 79. (DOI: 10.1161/JAHA.114.000079).
19. **Davies RR**, McCulloch MA, Haldeman S, Pizarro C. Ventricular assist devices as a bridge-to-transplantation improve early post-transplant outcomes in children. *J Heart Lung Transpl* 2014; 33: 704-12 (DOI: 10.1016/j.healun.2014.02.010).
20. **Davies RR**, Carver SW, Schmidt R, Keskenny H, Hoch J, Pizarro C. Laryngopharyngeal dysfunction independent of vocal fold paresis in infants after aortic arch surgery. *J Thorac Cardiovasc Surg* 2014; 148: 617-624 (DOI:10.1016/j.jtcvs.2013.05.054).
21. **Davies RR**, Radtke WA, Klenk D, Pizarro C. Bilateral pulmonary arterial banding results in an increased need for subsequent pulmonary artery interventions. *J Thorac Cardiovasc Surg* 2014; 147:706. (DOI: 10.1016/j.jtcvs.2013.10.038)

22. Pizarro C, Sood E, Kearns P, Duncan D, **Davies RR**, Woodford E. Neurodevelopmental outcomes following infant cardiac surgery: Can intermittent perfusion extend the safe duration of deep hypothermic circulatory arrest? *Ann Thorac Surg* 2014; 98: 119 (DOI:10.1016/j.athoracsur.2014.02.042)
23. **Davies RR**, Pasquali SK, Jacobs ML, Jacobs JJ, Wallace AS, Pizarro C. Current spectrum of surgical procedures performed for Ebstein's malformation: An analysis of the Society of Thoracic Surgeons-Congenital Heart Surgery Database. *Ann Thorac Surg* 2013; 1703-1710 (DOI: 10.1016/j.athoracsur.2013.05.005).
24. Poynter JA, Eghtesady P, McCrindle BW, Walters HL, Kirshborn PM, Blackstone EH, Husain SA, Overman DM, Austin EH, Karamlou T, Lodge AJ, St. Louis JD, Gruber PJ, Ziemer G, **Davies RR**, Jacobs JP, Brown JW, Williams WG, Tchervenkov CI, Jacobs ML, Caldarone CA. Association of pulmonary conduit type and size with durability in infants and young children. *Ann Thorac Surg* 2013; 96: 1695. (DOI:10.1016/j.athoracsur.2013.05.074).
25. **Davies RR**, Russo MJ, Reinhartz O, Maeda K, Rosenthal DN, Chin C, Bernstein D, and Mallidi HR. Lower socioeconomic status is associated with worse outcomes following both listing and transplanting children with heart failure. *Pediatr Transpl* 2013; 17: 573-581.
26. **Davies RR**, Haldeman S, Pizarro C. Regional variation in survival before and after pediatric heart transplantation--an analysis of the UNOS database. *Am J Transpl* 2013; 13: 1817-29.
27. Sood ED, Benzaquen JS, **Davies RR**, Woodford E, Pizarro C. Predictive value of perioperative near-infrared spectroscopy for neurodevelopmental outcomes following cardiac surgery in infancy. *J Thorac Cardiovasc Surg* 2013; 145: 438-45.
28. **Davies RR**, Carver SW, Schmidt R, Kekskenny H, Hoch J, Pizarro C. Gastrointestinal complications following stage I Norwood vs. Hybrid procedures. *Ann Thorac Surg* 2013; 95: 189-96.
29. Maeda K, Rizal RE, Lavrsen M, Malhotra SP, Akram SA, **Davies R**, et al. Midterm results of the modified Ross/Konno procedure in neonates and infants. *Ann Thorac Surg* 2012; 94: 156-63.
30. **Davies RR**, Sorabella RA, Yang, J, Mosca RS, Chen JM, Quagebeur JM. Outcomes after transplantation for "failed" Fontan: a single-institution experience. *J Thorac Cardiovasc Surg* 2012; 143: 1183-92.
31. Mainwaring RD, Shillingford M, **Davies R**, Koltai P, Navaratnam M, Reddy VM, and Hanley FL. Surgical reconstruction of tracheal stenosis in conjunction with congenital heart defects. *Ann Thorac Surg* 2012; 93: 1266-72.
32. Chiu P, Russo MJ, **Davies RR**, Addonizio LJ, Richmond ME, Chen JM. What is high risk? Redefining elevated pulmonary vascular resistance index in pediatric heart transplantation. *J Heart Lung Transpl* 2012; 31: 61-66.
33. **Davies RR**, Russo MJ, Yang J, Quagebeur JM, Mosca RS, Chen JM. Listing and transplanting adults with congenital heart disease. *Circulation* 2011; 123: 759-767.
34. Rafii DY, **Davies RR**, Carroll SJ, Quagebeur JM, Chen JM. Age less than two years is not a risk factor for mortality after mitral valve replacement in children. *Ann Thorac Surg* 2011; 91: 1228-34.
35. **Davies RR**, Russo MJ, Hong KN, Gelijns AC, Quagebeur JM, Mosca RS, Chen JM. Increased short- and long-term mortality at low-volume pediatric heart transplant centers: should minimum standards be set?. *Ann Surg* 2011; 253: 393-401.
36. Russo MJ, Iribarne A, Easterwood R, Ibrahimiyeh AN, **Davies RR**, Hong KN, Ascheim DD, Gelijns AC, Naka YN. Post-transplant survival is inferior at low volume centers across all risk strata. *Circulation* 2010; 122 (Suppl 1): S85-S91.
37. **Davies RR**, Russo MJ, Morgan JA, Sorabella RA, Gelijns A, Naka Y, Chen JM. Standard versus bicaval techniques for orthotopic heart transplantation: an analysis of the UNOS database. *J Thorac Cardiovasc Surg* 2010; 140: 700-708.
38. Russo MJ, Iribarne A, Hong KN, **Davies RR**, Xydas S, Takayama H, Ibrahimiyeh A, Gelijns AC, Bacchetta MD, D'Ovidio FD, Arcasoy S, Sonett JR. High lung allocation score is associated with increased morbidity and mortality following transplantation. *Chest* 2010; 137: 651-657.

39. Russo MJ, Hong KN, **Davies RR**, Chen JM, Mancini DM, Oz MC, Rose EA, Gelijns A, Naka Y. The effect of body mass index on survival following heart transplantation: do outcomes support consensus guidelines? *Ann Surg* 2010; 251: 144-152.
40. Russo MJ, Hong KN, **Davies RR**, Chen JM, Sorabella RA, Ascheim DD, Williams MR, Gelijns AC, Stewart AS, Argenziano M, Naka Y. Posttransplant survival is not diminished in heart transplant recipients bridged with implantable left ventricular assist devices. *J Thorac Cardiovasc Surg* 2009; 138: 1425-1432.
41. Russo MJ, **Davies RR**, Hong KN, Iribarne A, Kawut S, Bacchetta M, D'Ovidio F, Arcasoy S, Sonett JR. Who is the high-risk recipient? Predicting mortality after lung transplantation using pretransplant risk factors. *J Thorac Cardiovasc Surg* 2009; 138: 1234-1238.
42. Russo MJ, **Davies RR**, Hong KN, Chen JM, Argenziano M, Moskowitz A, Ascheim DD, George I, Stewart AS, Williams M, Gelins A, Naka Y. Matching high-risk recipients with marginal donor organs is a clinically effective strategy. *Ann Thorac Surg* 2009; 87:1066-1071.
43. Iribarne A, Russo MJ, **Davies RR**, Hong KN, Gelijns AC, Bacchetta MD, D'Ovidio FD, Arcasoy S, Sonett JR. Despite decreased wait-list times for lung transplantation, lung allocation scores continue to increase. *Chest* 2009; 135: 923-8.
44. **Davies RR**, Russo M, Hong K, O'Byrne ML, Cork DP, Mital S, Mosca RS, Chen JM. The use of mechanical circulatory support as a bridge to transplantation in pediatric patients: excellent long-term survival with ventricular assist devices. *J Thorac Cardiovasc Surg* 2008; 135: 421-427.
45. **Davies RR**, Russo MJ, Mital S, Martens TM, Sorabella RS, Hong KN, Gelijns AC, Moskowitz AJ, Quaegebeur JM, Mosca RS, Chen JM. Cumulative negative effect of multiple high-risk criteria among pediatric heart transplant recipients: an analysis of the United Network for Organ Sharing database. *J Thorac Cardiovasc Surg* 2008; 135: 147-155.
46. **Davies RR**, Coe P, Mandapati D, Gallo A, Elefteriades JA, Coady MA. What is the optimal management of late presenting survivors of acute Type A aortic dissection. *Ann Thorac Surg* 2007; 83:1593-1602.
47. **Davies RR**, Kapel RK, Mandapati D, Gallo A, Elefteriades JA, Coady MA. The natural history of aortic aneurysms in the setting of an unreplaced bicuspid aortic valve. *Ann Thorac Surg* 2007; 83: 1338-44.
48. Russo MJ, Chen JM, Sorabella RA, Martens TM, Garrido M, **Davies RR**, et al. The effect of ischemic time on survival after heart transplantation varies by donor age: An analysis of the United Network for Organ Sharing Database. *J Thorac Cardiovasc Surg* 2007; 133:554-9.
49. Russo MJ, **Davies RR**, Sorabella R, Martens TM, Cheema FH, George I, Mital S, Mosca RS, Chen JM. Advanced-age donors offer acceptable long-term survival to pediatric heart transplant recipients: an analysis of the United Network for Organ Sharing Database. *J Thorac Cardiovasc Surg* 2006; 132: 1208-12.
50. Albornoz G, Coady MA, Roberts M, **Davies RR**, Rizzo JA, Elefteriades JA. Familial thoracic aortic aneurysms and dissections: incidence, modes of inheritance, and phenotypic patterns. *Ann Thorac Surg* 2006; 82: 1400-1405.
51. **Davies RR**, Gallo A, Coady MA, Tellides G, Botta DM, Burke B, Coe MP, Kopf GS, Elefterides JA. Novel measurement of relative aortic size predicts rupture in thoracic aortic aneurysms. *Ann Thorac Surg* 2006; 81: 169-177.
52. Chen JM, Glickstein JS, **Davies RR**, Mercado ML, Mosca RS, Quaegebeur JM. Evolving techniques in the repair of truncus arteriosus 1990-2004. *J Thorac Cardiovasc Surg* 2005;129:559-68.
53. Chen JM, **Davies RR**, Mital SR, Addonizio LJ, Mercado ML, Pinney SP, Hsu DT, Lamour JM, Mosca RS, Quaegebeur JM. Trends and outcomes in transplantation for complex congenital heart disease 1984-2003. *Ann Thorac Surg* 2004; 78: 1352-61.
54. **Davies RR**, Goldstein LJ, Coady MA, Tittle SL, Rizzo JA, Kopf GS, Elefteriades JA. Yearly rupture/dissection rates for thoracic aortic aneurysms: simple prediction based on size. *Ann Thorac Surg* 2002;73:17-28.
55. Goldstein LJ, **Davies RR**, Davila JJ, Cooperberg MR, Shaw RK, Kopf GS, Elefteriades JA. Stroke in thoracic aortic surgery: incidence, impact, etiology and prevention. *J Thorac Cardiovasc Surg* 2001;122:935-45.

56. Coady MA, **Davies RR**, Roberts M, Goldstein LJ, Rogalski MJ, Rizzo JA, Hammond GL, Kopf GS, Elefteriades JA. Familial patterns of thoracic aortic aneurysms. *Arch Surg* 1999;134:361-7.
57. Scholl FG, Coady MA, **Davies R**, Rizzo JA, Hammond GL, Kopf GS, and Elefteriades JA. Non-surgical or interval management of acute type A aortic dissections. *Arch Surg* 1999;134:402-6.

BOOK CHAPTERS, REVIEW ARTICLES & INVITED PAPERS

1. McCulloch MA and **Davies RR**. Pediatric Cardiologist and the Infant or Child before Heart Transplantation. In: *Solid Organ Transplantation in Infants and Children*. Dunn S, Horslen S, eds (2018: Springer International, Cham, Switzerland).
2. **Davies RR** and McCulloch MA. Cardiac support devices and their use in infants and children in the overall strategy of cardiac transplantation. In: *Solid Organ Transplantation in Infants and Children*. Dunn S, Horslen S, eds (2018: Springer International, Cham, Switzerland).
3. **Davies RR**, Farr M, Silvestry S, et al. The new United States heart allocation policy: progress through collaborative revision. *J Heart Lung Transpl* 2017; 36: 595-596 (DOI: 10.1016/j.healun.2017.03.010).
4. Pasquali SK, Schumacher KR, **Davies RR**. Can linking databases answer questions about paediatric heart failure? *Cardiol Young*. 2015; 25: 160-6.
5. **Davies RR**, Pizarro C. Decision-making for surgery in the management of patients with univentricular heart". *Frontier in Pediatrics (Pediatric Cardiology)* 2015, accepted, published online. (DOI: 10.3389/fped.2015.00061)
6. **Davies RR**, Robich MP, Coady MA. Mechanical Complications of Myocardial Infarction. In: *The Johns Hopkins Textbook of Cardiothoracic Surgery, 2nd Edition*. Yuh DD, Vricella LA, Yang S, and Baumgartner WA, eds. (2014; McGraw-Hill, New York, NY)
7. **Davies RR**, Pizarro C. Using the UNOS/SRTR and PHTS databases to improve quality in pediatric heart transplantation. *World J Pediatr Congenit Heart Surg*. 2012; 3: 421-32.
8. **Davies RR**, Chen JM, Mosca RS. The Fontan procedure: evolution in technique; attendant imperfections, and transplantation for "failure". *Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu* 2011; 14: 55-66.
9. **Davies RR**, Chen JM, Quaegebeur JM, Mosca RS. Transplantation for "Failed" Fontan. *Prog Pediatr Cardiol* 2009; 26: 21-29.
10. **Davies RR**, Chen JM, Mosca RS, Quaegebeur JM. Cardiac Surgery in the Neonate with Congenital Heart Disease. In: *Hemodynamics and Cardiology; Neonatology Questions and Controversies*. Kleinman C., Seri I, Polin RA. eds. (2008; Elsevier, New York, NY).
11. Charette K, **Davies RR**, Chen JM, Quaegebeur JM, Mosca RS. Pediatric Perfusion Techniques for Complex Congenital Surgery. In: *On Bypass, Advanced Perfusion Techniques*. Mongero LB, Beck JR, eds (2008: Humana Press/Springer Verlag, New York, NY).
12. **Davies RR**, Boucek MM, Chen JM. Alternative Procedures for Hypoplastic Left Heart Syndrome as a Bridge to Transplantation. In: *Percutaneous Interventions in Congenital and Structural Heart Disease*. Sievert H, Qureshi SA, Wilson N, Hijazi Z, eds. (2007; Informa, London, England).
13. Gallo A, **Davies RR**, Coady MA. Indications, Timing and Prognosis of Surgical Interventions for Aortic Dissection. *Semin Thorac Cardiovasc Surg*. 2005 Fall; 17: 224-235.
14. **Davies RR**, Coady MA. Mechanical Complications of Myocardial Infarction. In: *The Johns Hopkins Manual of Cardiothoracic Surgery*. Yuh DD & Baumgartner WA, eds. (2007; McGraw-Hill, New York, NY).
15. **Davies RR**, Coady MA, Elefteriades JA. Pathologic variants of aortic dissection: penetrating atherosclerotic ulcers and intramural hematomas. In: *A Practical Textbook of Congenital and Acquired Diseases of the Aorta*. Liotta FD, Cooley DA, et al, eds. (2003; F.D. Liotta Foundation, Miami, FL).
16. **Davies RR**, Coady MA, Hammond GL, Elefteriades JA Gusberg RJ. Low molecular weight heparin: An evaluation of current and potential clinical utility in surgery. *Int J Angiol*. 1999; 8:203-215.

EDITORIALS AND COMMENTARIES

1. **Davies RR.** Alternatives to PumpKIN: The ongoing development of ventricular assist devices for infants. Editorial Commentary. *J Thorac Cardiovasc Surg* 2018; published online (DOI: 10.1016/j.jtcvs.2018.06.070).
2. **Davies RR.** Cumulative effect of preoperative risk factors on mortality after pediatric heart transplantation (Commentary). *Ann Thorac Surg* 2018; 106: 567 (DOI: 10.1016/j.athoracsur.2018.04.047).
3. **Davies RR.** All the small things: the impact of central venous catheters in neonates undergoing cardiac surgery . Editorial Commentary. *J Thorac Cardiovasc Surg* 2018; 155: 1159 (DOI: 10.1016/j.jtcvs.2017.11.034).
4. **Davies RR.** Invited commentary: Recurrent laryngeal nerve injury and swallowing dysfunction in neonatal aortic arch repair. *Ann Thorac Surg* 2017; 104: 1618-19.
5. **Davies RR.** Identifying children appropriate for bridge-to-transplantation with the Berlin Heart EXCOR. Invited Commentary. *J Heart Lung Transpl* 2017; 36: 1183-4. (10.1016/j.healun.2017.05.013).
6. **Davies RR.** Heading toward the future of pediatric heart failure with continuous-flow ventricular assist devices. Editorial Commentary. *J Thorac Cardiovasc Surg* 2017; 154: 1356 (DOI: 10.1016/j.jtcvs.2017.05.097).
7. **Davies RR.** The persistence of cognitive deficits into adulthood after the arterial switch procedure: Can we change things? Editorial Commentary. *J Thorac Cardiovasc Surg* 2017; 154: 1036-1037 (10.1016/j.jtcvs.2017.05.061).
8. **Davies RR.** Investigating the etiologies of neurodevelopmental deficits in congenital heart disease through multiple gestations. Editorial Commentary. *J Thorac Cardiovasc Surg* 2017; 154: 282-283 (DOI: 10.1016/j.jtcvs.2017.03.026).
9. **Davies RR.** Invited commentary: Fontan patient survival after pediatric heart transplantation has improved in the current era. *Ann Thorac Surg* 2017; 103: 1321. (DOI: 10.1016/j.athoracsur.2016.09.101)
10. **Davies RR.** A case for using “marginal” hearts. Invited Commentary. *Pediatr Transpl*, 2017; 20: 740. (DOI: 10.1111/petr.12772)
11. **Davies RR.** The technique matters. It’s just not clear how. Invited Commentary. *J Thorac Cardiovasc Surg* 2016; 152: 480. (DOI: 10.1016/j.jtcvs.2016.03.066)
12. **Davies RR.** Perventricular repair of ventricular septal defects: specific techniques have specific risks. Invited Commentary. *J Thorac Cardiovasc Surg* 2016; accepted, available online. (DOI: 10.1016/j.jtcvs.2016.01.024)
13. **Davies RR,** Pizarro C. Reply to Letter to the Editor: A range of options for staged palliation of hypoplastic left heart syndrome. *J Thorac Cardiovasc Surg* 2015; 150: 436.
14. **Davies RR.** Editorial Commentary: Stage 1 hybrid palliation for hypoplastic left heart syndrome—assessment of contemporary patterns of use: An analysis of The Society of Thoracic Surgeons Congenital Heart Surgery Database. *J Thorac Cardiovasc Surg* 2015. 149: 203-4.
15. **Davies RR.** Invited Commentary: Modified TandemHeart ventricular assist device for pediatric circulatory support. *Ann Thorac Surg.* 2014; 98: 1441-2.
16. **Davies RR,** Priest M. Invited Commentary: 20-Year experience of prolonged extracorporeal membrane oxygenation in critically ill children with cardiac or pulmonary failure. *Ann Thorac Surg*; 2012; 93: 1590-1.
17. **Davies RR.** Invited Commentary: Increased aortic wall stress in patients with bicuspid aortic valves. *Ann Thorac Surg* 92: 1389.
18. **Davies RR.** Invited Commentary: Impact of image analysis methodology on diagnostic and surgical classification of patients with thoracic aortic aneurysms. *Ann Thorac Surg* 2011; 92: 913.
19. **Davies RR.** Invited Commentary: Acute physiology and chronic health evaluation (APACHE) IV of critically ill patients on extracorporeal membrane oxygenation. *Ann Thorac Surg* 2007; 84: 1262-1263.

INVITED PRESENTATIONS (NATIONAL/INTERNATIONAL)

1. **STS Intermacs Meeting.** "How Changes in the United Network for Organ Sharing Allocation Scheme Will Change Wait Times on VADs - Pediatric and Adult Perspectives". May 2018 Chicago, IL.
2. **Transplant Management Forum 2018.** "Modifications to the Adult Heart Transplant System" May 2018, Austin, TX.
3. **14th International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion.** "Supporting Children with Temporary or Short-Term Devices." May 2018, Chicago, IL.
4. **NATCO The Organization for Transplant Professionals 2017 Annual Meeting.** "The New Adult Heart Allocation Policy." August 2017, St. Louis, MO.
5. **American Association of Thoracic Surgery 2017 Centennial Meeting.** "UNOS Status Update: New Donor Allocation Scheme." April 2017, Boston, MA.
6. **American College of Cardiology 2017 Annual Meeting.** "Transplantation is a Realistic Option for Teens and Adults with Failing Fontans." March 2017, Washington, DC.
7. **China Heart Congress 2015.** "Advanced Techniques in Pediatric Mechanical Circulatory Support" - August 2015, Beijing, China
8. **3rd Morquio Conference.** "Surgery for Tracheal Obstruction in Morquio" - July 2015, Wilmington, DE

OTHER ORAL PRESENTATIONS (NATIONAL/INTERNATIONAL)

1. **Davies RR, Barthold JS, Sood E, Wang Y, Woodford E, Pizarro C .** A Common Polymorphism in the Mannose-binding Lectin Gene MBL2 is Associated with Poor Neurodevelopmental Outcomes Following Infant Cardiac Surgery. (oral presentation at the 96th Annual Meeting of the American Association for Thoracic Surgery, Baltimore, MD, May 2016).
2. **Davies RR, Kindel SJ, McCulloch MA, Pizarro C, Mahle WT, Morales DL.** Heart transplantation in adolescents: does pediatric experience improve outcomes? (oral presentation at the International Society for Heart and Lung Transplantation, Washington, DC, Apr 2016)
3. **Davies RR, McCulloch MA, Haldeman S, Gidding SS, Pizarro C.** The use of urgent listing exceptions in pediatric heart transplantation: is waitlist survival equivalent to standard criteria patients? (oral presentation at the International Society for Heart and Lung Transplantation, Washington, DC, Apr 2016)
4. **Davies RR.** The Use of Fresh Whole Blood in Pediatric Cardiopulmonary Cases (oral presentation at the Annual Meeting of the Congenital Heart Surgeon's Society, Chicago, IL, Oct 2015)
5. **Davies RR.** A Model Predicting the Need for Ventricular Assist Device Support in Children Awaiting Heart Transplantation (oral presentation at the Joint Conference on Advances in Pediatric Cardiovascular Disease Management, Traverse City, MI, Sept 2015)
6. **Davies RR.** Advantages to the Use of Fresh Whole Blood Prime for Cardiopulmonary Bypass in Infants and Neonates (oral presentation at the Joint Conference on Advances in Pediatric Cardiovascular Disease Management, Traverse City, MI, Sept 2015)
7. **Davies RR.** High BMI Predicts Poor Outcomes in DCM But Not CHD Patients: The Differential Impact of Obesity on Outcomes in Pediatric Heart Transplantation (oral presentation at the International Society for Heart and Lung Transplantation, Nice, France, Apr 2015).
8. **Davies RR.** Early Norwood vs later comprehensive Stage 2 following hybrid: Which is better? For Whom?" (oral presentation at the American Association of Thoracic Surgery 94th Annual Meeting, Toronto, Ontario, Apr 2014).
9. **Davies RR.** Low body mass index is associated with increased waitlist mortality among children listed for heart transplantation (oral presentation at the International Society for Heart and Lung Transplantation 34th Annual Meeting, San Diego, CA. Apr 2014).
10. **Davies RR.** Model predicting need for mechanical support in children (oral presentation at the Society of Thoracic Surgeons Annual Meeting, Orlando, FL. Jan 2014).
11. **Davies RR.** Bilateral branch pulmonary arterial banding has long-term negative consequences for pulmonary arterial growth (oral presentation at the Western Thoracic Surgical Association Annual Meeting, Jun 2013, Coeur d'Alene, Idaho).

12. **Davies RR.** Improving outcomes in children requiring mechanical bridge-to-transplantation in the current era. (oral presentation at the International Society for Heart and Lung Transplantation 33rd Annual Meeting, Apr 2013, Montreal, Quebec, Canada).
13. **Davies RR.** Multi-institutional experience with surgery for Ebstein's Malformation: an analysis of the STS-Congenital Heart Surgery Database. (oral presentation at the Society of Thoracic Surgeons 49th Annual Meeting, Jan 2013, Los Angeles, CA; Richard E. Clark Paper for Congenital Heart Surgery)
14. **Davies RR.** Geographic variation in mortality rates following pediatric heart transplantation. (presented at the 32nd Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2012, Prague, Czech Republic)
15. **Davies RR.** Risk-Adjusted Waitlist Mortality Varies Across Regions Among Children Listed for Heart Transplantation. (presented at the 32nd Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2012, Prague, Czech Republic)
16. **Davies RR.** Gastrointestinal complications following traditional and hybrid Norwood procedures. (presented at the 48th Annual Meeting of the Society of Thoracic Surgeons, Jan 2012)
17. **Davies RR.** Laryngopharyngeal dysfunction after arch reconstruction in neonates and infants. (presented at the Annual Meeting of the Congenital Heart Surgeons' Society, Oct 2011)
18. **Davies RR.** Quality improvement and cardiac transplantation - lessons learned from the UNOS and PHTS. (presented at the 7th Annual Meeting of the Multi-Societal Database Committee for Pediatric and Congenital Heart Disease, Sept 2011).
19. **Davies RR,** Singh SK, Russo MJ, Robbins, RC, Oyer PE, Mallidi HR. The association between poor socioeconomic status and poor long-term outcomes following heart transplantation. (presented at the 31st Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2011).
20. **Davies RR,** Russo MJ, Monge M, Sheikh AY, Cafarelli A, Robbins RC, and Mallidi HR. Are enough patients being bridged-to-transplant with ventricular assist devices. (presented at the Annual Meeting of the Society of Thoracic Surgeons, Jan 2011).
21. **Davies RR,** Russo MJ, Mital SR, Mosca RS, Quaegebeur JM, Chen JM. Outcomes following transplantation for congenital heart disease in adults. (presented at the 28th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2009)
22. **Davies RR,** Russo MJ, Mital SR, Mosca RS, Quaegebeur JM, Chen JM. The influence of CMV positivity on outcomes following transplantation in children--whose status matters?. (presented at the 28th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2009)
23. **Davies RR,** Yang J, Sorabella RA, Russo MJ, Mosca RS, Chen JM, Quaegebeur JM. What is the optimal timing of transplantation for failed Fontan: a single institution experience. (presented at the 88th annual meeting of the American Association for Thoracic Surgery, May 2008)
24. **Davies RR,** Ibrahimiye A, Takayama H, Bowdish ME, Stewart AS. Performing the David procedure at an academic medical center. (presented at the 18th World Congress of the World Society of Cardiothoracic Surgery, May 2008)
25. **Davies RR,** Ibrahimiye A, Takayama H, Bowdish ME, Stewart AS. Antegrade cerebral perfusion via the axillary artery at 28°C: a safe method of cerebral protection during aortic arch surgery (presented at the 18th World Congress of the World Society of Cardiothoracic Surgery, May 2008)
26. **Davies RR,** Russo MJ, Sorabella RA, Gelijns AC, Moskowitz AJ, Naka Y, Chen JM. Cardiac transplant anastomosis and the need for permanent pacemaker implantation: an analysis of the United Network for Organ Sharing Database. (presented at the 27th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2008)
27. **Davies RR,** Chen JM, Naftel DC, Boyle G, Zangwill S, Gajarski R, Robinson B, Kirk R, Hsu D, Blume E. The Impact of high-risk criteria on mortality following heart transplantation in children: a multi-institutional study. (presented at the 27th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2008)
28. **Davies RR,** Russo MJ, Mital SR, Gelijns AC, Moskowitz AJ, Mosca RS, Quaegebeur JM, Chen JM. Listing for cardiac transplant among adults with congenital heart disease in the UNOS database. (presented at the 27th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2008)

29. **Davies RR**, Russo MJ, Mital SR, Gelijns AC, Moskowitz AJ, Sorabella RA, Mosca RS, Quagebeur JM, Chen JM. Simultaneous heart-kidney transplantation in children--are the outcomes as bad as we think: an analysis of the United Network for Organ Sharing Database. (presented at the 27th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2008)
30. **Davies RR**, Russo MJ, Mital S, Martens TM, Sorabella RS, Hong KN, Gelijns AC, Moskowitz AJ, Quagebeur JM, Mosca RS, Chen JM. Cumulative negative effect of multiple high-risk criteria among pediatric heart transplant recipients: an analysis of the United Network for Organ Sharing database. (presented at the 33rd Annual Meeting of the Western Thoracic Surgical Association, Jun 2007 - Samson Award Finalist)
31. **Davies RR**, Russo M, Hong K, O'Byrne ML, Cork DP, Mital S, Mosca RS, Chen JM. The use of mechanical circulatory support as a bridge to transplantation in pediatric patients: excellent long-term survival with ventricular assist devices. (oral presentation at 79th Scientific Session of the AHA, Nov 2006).
32. **Davies RR**, Mandapati D, Coe MP, Gallo A, Elefteriades JA, Coady MA. What is the optimal management of late presenting survivors of acute Type A aortic dissection? (oral presentation at the 42nd Annual Meeting of the Society of Thoracic Surgeons, Jan 2006 - Recipient of the Thoracic Surgery Directors' Association Resident Research Award)

POSTER PRESENTATIONS (NATIONAL/INTERNATIONAL MEETINGS)

1. **Davies RR**, McCulloch MA, Brailer C, Pizarro C. Relationship between eGFR and outcomes before and after heart transplantation. (poster presentation at the 37th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2017).
2. **Davies RR**, Russo MJ, Reinhartz O, Maeda K, Robbins RC, Rosenthal DN, Chin C, Bernstein D, Mallidi HS. Lower socioeconomic status predicts poor waitlist and post-heart transplant survival in children. (poster presentation at the 31st Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2011).
3. **Davies RR**, Yang J, Sorabella RA, Russo MJ, Mosca RS, Chen JM, Quagebeur JM. Volume-outcome relationship in pediatric heart transplantation. (accepted for poster presentation at the 28th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2009)
4. **Davies RR**, Chen JC, Mital SR, Addonizio LJ, Hsu DT, Lamour JM, Quagebeur JM, Mosca RS. The use of mechanical bridge-to-transplantation in a pediatric population: a single-center experience. (poster at the 26th Annual Meeting of the International Society for Heart and Lung Transplantation, Apr 2006)
5. **Davies RR**, Mandapati D, Kapel RK, Gallo A, Elefteriades JA, Coady MA. The natural history of aortic aneurysms in the setting of an unreplaced bicuspid aortic valve. (poster at the 42nd Annual Meeting of the Society of Thoracic Surgeons, Jan 2006)
6. **Davies RR**, Coady MA, Gallo A, Botta DM, Kopf GS, Elefteriades JA. Increasing body surface area protects against rupture in patients with thoracic aortic aneurysms. (poster at the 41st Annual Meeting of the Society of Thoracic Surgeons, Jan 2005)
7. **Davies RR**, Rizzo JA, Kopf GS, Elefteriades JA. Safety of thoracic aortic surgery in the present era. *Circulation* 104 Suppl: 3042, 2001. (poster at the 74th Scientific Session of the AHA, Oct 2001)
8. **Davies RR**, Goldstein LJ, Coady MA, et al. Yearly rupture/dissection rates for thoracic aortic aneurysms: simple prediction based on size. (poster presentation at the 37th Annual Meeting of the Society of Thoracic Surgeons, Jan 28-31,2001)

OTHER PUBLISHED/PRESENTED ABSTRACTS

1. Lorts A, **Davies RR**, Alejos JC, Kanter KR, Gusset JG, Cantor RS, Adachi I. Utilization and outcomes of temporary ventricular assist devices in children: a report from the Pediatric Interagency Registry for Mechanical Circulatory Support (Pedimacs). (presented at the International Society for Heart and Lung Transplantation, Washington, DC, Apr 2016)
2. Ryan JE, Pizarro C, Hehir D, McCulloch MA, Gidding SS, Haldeman S, **Davies RR**. Modified Model for End-Stage Liver Disease eXcluding INR (MELD XI) Score Predicts Post-Heart Transplant Mortality Among Children with Congenital Heart Disease. (presented at the International Society for Heart and Lung Transplantation, Washington, DC, Apr 2016)

3. Haldeman S, **Davies RR**, Gidding SS, McCulloch MA, and Pizarro C. LVAD implantation for cardiac allograft failure in a child: long-term survival without wound or infectious complications. (poster presentation at the International Society for Heart and Lung Transplantation, Nice, France, Apr 2015).
4. Ryan J, Moore W, Priest M, McCulloch MA, Pizarro C, **Davies RR**. Acute pancreatitis in pediatric patients with ventricular assist devices. (poster presentation at the International Society for Heart and Lung Transplantation, Nice, France, Apr 2015).
5. Poynter S, Eghtesady P, McCrindle B, Walter HL, Kirshbom PM, Blackstone EH, Husain SA, Overman DM, Austin EH, Karamlou TB, Lodge AJ, St. Louis JD, Gruber PJ, Ziemer G, **Davies RR**, et al. Effect of conduit type and size on right ventricle-pulmonary artery conduit durability in infants less than 2 years of age: a Congenital Heart Surgeons' Society Study (oral presentation at the 49th Annual Meeting of the Society of Thoracic Surgeons, Los Angeles, CA, Jan 2013; J. Maxwell Chamberlain Memorial Paper for Congenital Heart Surgery).
6. Sood ED, Simons JS, **Davies RR**, Pizarro C. Neurodevelopmental outcomes following infant cardiac surgery: Can intermittent perfusion extend the safe duration of deep hypothermic circulatory arrest? (oral presentation at the 38th Annual Meeting of the Western Thoracic Association. Maui, HI., June 2012)
7. Sood ED, Simons J, **Davies RR**, Pizarro C. Neurodevelopmental outcomes following infant cardiac surgery using deep hypothermic circulatory arrest with or without intermittent perfusion. (oral presentation at the 92nd Annual Meeting of American Association of Thoracic Surgery. San Francisco, CA., April 2012)
8. **Davies RR**, Carver S, Schmidt RJ, Hoch J, Keskeny H, Pizarro C. Pre- and Postoperative laryngopharyngeal dysfunction after arch surgery in infants. (presented at the Scientific Sessions of the American Heart Association, Nov 2011)
9. Chiu P, Russo MJ, **Davies RR**, Addonizio LJ, Richmond ME, Chen JM. PVRI < 9 WU/m² does not predict early postoperative mortality in pediatric cardiac transplantation for cardiomyopathy. *J Heart Lung Transpl* 2010; 29 Suppl S: S11.
10. Iribarne A, Russo MJ, **Davies RR**, Takayama H, Quaegebeur JM, Addonizio LJ, Chen JM. Influence of the new heart allocation system on pediatric waitlist and post-transplant survival. *J Heart Lung Transpl* 2010; 29 Suppl S: S34-5.
11. Morgan JA, Naseem TM, Cheema FH, Russo MJ, **Davies RR**, Scripps TB, Mignatti A, Lietz K, Naka Y, Jorde UP. Improvement in survival with implantation of Levitronix CentriMag biventricular support in patients with acute ST-elevation myocardial infarction (STEMI) and refractory cardiogenic shock. *J Heart Lung Transpl* 2009; 28 Suppl S: S143.
12. Russo MJ, Hong KN, **Davies RR**, et al. Primary graft failure following heart transplantation: risk factors and outcomes. *J Heart Lung Transpl* 2009; 28 Suppl S: S158.
13. Russo MJ, Hong KN, **Davies RR**, et al. Higher center volume with bridge-to-transplant recipients predicts superior post-transplant outcomes in bridged and non-bridged patients. *J Heart Lung Transpl* 2009; 28 Suppl S: S163-4.
14. Russo MJ, Iribarne A, **Davies RR**, et al. Elevated lung allocation score is associated with decreased survival and increased complications after lung transplantation. *J Heart Lung Transpl* 2009; 28 Suppl S: S167-8.
15. Russo MJ, **Davies RR**, et al. Estimated GFR predicts survival following heart transplantation: a critique of the ISHLT's revised listing criteria for heart transplantation. *J Heart Lung Transpl* 2007; 26 Suppl S: S206. (oral presentation at the American College of Cardiology Annual Scientific Sessions, Apr 2007)
16. Russo MJ, **Davies RR**, et al. The effect of body mass index on survival following heart transplantation: a critique of the ISHLT's revised listing criteria for heart transplantation. *J Heart Lung Transpl* 2007; 26 Suppl S: S205. (poster presentation at the American College of Cardiology Annual Scientific Sessions, Apr 2007)
17. Gallo A, **Davies RR**, Mandapati D, Elefteriades JA, Coady MA. Predictors of rapid growth in thoracic aortic aneurysms. (poster presentation at the 42nd Annual Meeting of the Society of Thoracic Surgeons, Jan 2006)

18. Albornoz G, Coady MA, Roberts M, **Davies RR**, Rizzo JA, Elefteriades JA. Familial thoracic aortic aneurysms and dissections: incidence, modes of inheritance, and phenotypic patterns. (poster presentation at the 42nd Annual Meeting of the Society of Thoracic Surgeons, Jan 2006)
19. Chen JC, Glickstein JS, **Davies RR**, Mercado ML, Mosca RS, Quaegebeur JM. Evolving techniques in the repair of truncus arteriosus 1990-2004. (oral presentation at the 84th Annual Meeting of the American Association of Thoracic Surgeons, Apr 2004)
20. Chen JC, **Davies RR**, Mital SR, Addonizio LJ, Mercado ML, Pinney SP, Hsu DT, Lamour JM, Mosca RS, Quaegebeur JM. Trends and outcomes in transplantation for complex congenital heart disease 1984-2003. (oral presentation at the 40th Annual Meeting of the Society of Thoracic Surgeons, Jan 2004)
21. Albornoz GF, Tang PC, Coady MA, **Davies RR**, et al. Are thoracic aortic aneurysms a genetic disease? *J Am Coll Cardiol.* 41 (Suppl A):287A, 2003.
22. **Davies RR**, Vallabhajosyula P, Tittle SL, et al. Is thoracic aortic aneurysm an inherited disease? *Circulation* 104 Suppl: 3038, 2001.
23. Coady MA, **Davies RR**, Hammond GL, et al. Familial inheritance of thoracic aortic aneurysms. *Circulation.* Vol 98 Suppl S, 1999. (poster presentation at the 71st Scientific Session of the AHA, Oct, 1998)
24. Coady MA, **Davies RR**, Hammond GL, Kopf GS, Elefteriades JA. Pedigree analysis confirms genetic predisposition for thoracic aortic aneurysms. *Circulation* 98 Suppl: 1384, 1998.
25. Coady MA, **Davies RR**, Hammond GL, et al. Familial patterns of thoracic aortic aneurysms. *Transac New Engl Surg Soc.* Vol 79, 1998. (oral presentation at the 79th Annual Meeting of the New England Surgical Society, Sept 25-27, 1998)
26. Coady MA, **Davies RR**, Hammond GL, et al. Interval or non-operative management of acute type A aortic dissections. *Transac New Engl Surg Soc.* Vol 79, 1998. (oral presentation at the 79th Annual Meeting of the New England Surgical Society, Sept 25-27, 1998)
27. Coady MA, **Davies RR**, Tellides G, et al. Results following open sternotomy and delayed sternal closure in adults: a twelve-year experience. *Transac New Engl Surg Soc.* Vol 79, 1998.
28. Coady MA, **Davies RR**, Hammond GL, et al. Risk factors predicting mortality in pediatric patients requiring prolonged open sternotomy following open heart operations. *Transac New Engl Surg Soc.* Vol 78, 1998. (oral presentation at the 78th Annual meeting of the New England Surgical Society, Sept 19-21, 1997)

OTHER PUBLICATIONS

1. **Davies RR.** For Once Then ... Something. *Yale Journal of Biology and Medicine.* 1999;72:33-35.

PROFESSIONAL CERTIFICATIONS

Basic Life Support, Advanced Cardiac Life Support Certification — 2015, 2008

Pediatric Advanced Life Support Certification — 2005

Emergency Medical Technician-B, Firefighter II, High-Angle Rescue and Confined Space Rescue Technician, Bethesda-Chevy Chase Rescue Squad, Bethesda, MD — 1991-2001

RESEARCH EXPERIENCE

Research Associate in Congenital Cardiac Surgery, Children's Hospital Of New York-Presbyterian, New York, NY — Jul 2007 to Dec 2007

Investigation of clinical outcomes following pediatric heart transplantation and congenital cardiac surgery. Development of an animal model for chronic cyanosis in children. (Principal Investigator: Jonathan M. Chen, M.D.; Department of Surgery)

Winchester Fellow in Cardiothoracic Surgery, Yale University School of Medicine, New Haven, CT — Jul 2004 to Jun 2005

Development of a rabbit model for aortic aneurysms, examination of the role of MMPs in aneurysm development (Principal Investigator: Michael A. Coady, M.D., MPH; Department of Surgery).

Research Fellow, Howard Hughes Medical Institute, New Haven, CT — Jul 1999 to Jun 2000

Examination of genetics of thoracic aortic disease. Study of genetic defect responsible for cerebrovascular malformations (Principal Investigator: Richard P. Lifton, M.D., Ph.D.; Department of Genetics).

Research Associate, Yale Center for Thoracic Aortic Disease, New Haven, CT, Jul 1997 to Jun 2001 & Jul 2004 to Jun 2005

Study of natural history, growth rates and operative outcomes in patients with thoracic aortic disease (Principal Investigator: John A. Elefteriades, M.D.; Department of Surgery).

Medical Student Research Fellow, Julius A. Rippel Laboratory for Protein Chemistry and Molecular Biology, New Haven, CT, Jul 1997 to Sept 1997

Study of suppression of MHC Class II expression in human trophoblasts (Principal Investigator: Graeme L. Hammond, M.D.; Department of Surgery).

OTHER PRESENTATIONS & EDUCATIONAL EVENTS

Delaware Emergency Medical Services for Children Statewide Meeting. "Medical and Surgical Treatment of Heart Failure in the Emergency Setting" - Aug 2016

St. Francis Hospital Pediatric Grand Rounds. "Recognizing Pediatric Heart Failure is Everyone's Job" - Aug 2016

Chester-Cromer Medical Center Pediatric Grand Rounds. "Recognizing Pediatric Heart Failure is Everyone's Job" - Feb 2016

Nemours/A.I. duPont Hospital for Children Pediatric Grand Rounds. "Recognizing Pediatric Heart Failure is Everyone's Job" - July 2015

Nemours Cardiac Center Teaching Conference. "Indications and Controversies in Blood Transfusions" - March 2015

Nemours Cardiology Fellowship Core Topic Lecture "Ebstein's Anomaly" - March 2015

Nemours Cardiology Fellowship Core Topic Lecture "Double Outlet Right Ventricle" - January 2015

Union Hospital Pediatric Grand Rounds "Surgical Treatment of Pediatric Heart Failure" - Nov 2014

Nemours Cardiology Fellowship Core Topic Lecture "Right Heart Obstructive Lesions: Tetralogy of Fallot with Pulmonary Stenosis" - Nov 2014

Bayhealth Kent General Cardiology Grand Rounds "Surgical Treatment of Pediatric Heart Failure" - Apr 2014

Nemours Critical Care Fellows Cardiac Education Day "An Introduction to Pediatric Cardiac Surgery" - Mar 2014

Nemours Cardiac Center Teaching Conference. "Timing and Technique for Surgical Repair in Tetralogy of Fallot" - Mar 2014

Geisinger Medical Center "Make It the Best: Caring for Children with Heart Disease". "Surgical Treatment of Pediatric Heart Failure" - Nov 2013

Nemours Cardiac Center Teaching Conference. "Acute Aortic Pathologies" - Sept 2013

Nemours Cardiac Center Annual Nursing Conference. "Surgical Aspects of Repair of the Aortic Arch" - Sept 2012

Nemours Cardiac Center Annual Nursing Conference. "Research on Feeding Issues for Children Undergoing Aortic Arch Repair" - Sept 2012

Nemours ECLS Training Course. "Cardiac ECMO" - May 2012

Nemours Cardiac Center Echocardiography Conference. "Prosthetic valves: an introduction to the various types for echocardiographers" - Apr 2012

Nemours Cardiac Center Teaching Conference "Sano vs. BT Shunt; What is the Best RV-PA Conduit for the Stage I Norwood Procedure?" - Apr 2012

Nemours Cardiac Center Teaching Conference "Glenn or HemiFontan, Extracardiac or Lateral Tunnel Fontan, Which is Better? When? For Whom?" - Oct 2011

Atlanticare Pediatric Lecture Series, "An Update on Pediatric Heart Transplantation and Mechanical Circulatory Support" - Aug 2011

Cardiothoracic Surgery Grand Rounds, Yale University School of Medicine, "Mechanical Complications of Myocardial Infarction" - Nov 2004

Standard of Care Rounds, Department of Surgery, Columbia University Medical Center, "Current Evaluation and Treatment of Biliary Disease" - Nov 2003

OTHER EMPLOYMENT/ACTIVITIES

Freelance website designer — 2002-2004

Assistant Student Editor, First Aid for the USMLE Step 2, Los Angeles, CA — 2000-2001

Production Editor & Website Designer, Yale Journal of Health Policy, Law, and Ethics — 1999-2001

Forum Moderator, medschool.com, Los Angeles, CA — 1999-2001

Student Instructor, Anatomy Teaching Program, Yale University School of Medicine — 1996-1997

Head Freshman Counselor, Berkeley College Dean's Office, Yale University — 1995-1996

European Trip Leader, Browne-Ladd Inc., Boston, MA — 1995

IT Director, Davies Consulting, Inc., Chevy Chase, MD — 1994 & 1996

Medical Director & Trip Leader, Freshman Outdoor Orientation Trips, Yale University — 1993-1996

Yale Rugby Football Club — 1993-1995

Yale Heavyweight Crew — 1992-1993

OTHER SKILLS/INTERESTS

Statistical analysis using SAS v9 for AIX/Windows

Fluent in French (excellent reading, good conversation)

Proficient in the use of multiple computer operating systems (Windows, Mac OS, and Lotus Notes) Also applications in each system, including MS Office, and Adobe graphics products.