

FACULTY APPOINTMENTS

Professor of Surgery	Northwestern University Medical School 2000 - present
Associate Professor of Surgery	Northwestern University Medical School 1996 - 2000
Assistant Professor of Surgery	Northwestern University Medical School 1988-1996

HOSPITAL STAFF APPOINTMENTS

Division Head Cardiovascular-Thoracic Surgery	Children's Memorial Hospital, Chicago September 2008
A.C. Buehler Professor of Cardiovascular-Thoracic Surgery	Children's Memorial Hospital, Chicago August, 2001
Attending Surgeon	Children's Memorial Hospital, Chicago Division of Cardiovascular-Thoracic Surgery July 1988 - Present
Associate Staff Surgeon	Northwestern Memorial Hospital, Chicago Division of Cardiothoracic Surgery September 1992 - Present

PROFESSIONAL SOCIETIES

National and International

American Academy of Pediatrics - Surgical Section
American Association for Thoracic Surgery
American College of Cardiology
American College of Chest Physicians
American College of Surgeons
American Heart Association
- Fellow, Council on Cardio-Thoracic and Vascular Surgery
- Cardiovascular Disease in the Young Council
American Medical Association
American Society of Transplant Surgeons
Congenital Heart Surgeons Society
Doctor's Mayo Society
European Association for Cardio-Thoracic Surgery
International Pediatric Transplant Association
International Society for Heart & Lung Transplantation
Midwest Pediatric Cardiology Society
-Executive Committee -Surgical Liaison
North American Society of Pacing and Electrophysiology
Pediatric Cardiac Intensive Care Society: Charter member
Pediatric Heart and Lung Transplant Study Group
Society of Thoracic Surgeons

Local

The Chicago Cardiothoracic Surgical Society– Founding Member
Chicago Committee on Trauma
Chicago Medical Society
Chicago Surgical Society

Illinois Surgical Society
Illinois Medical Society

ADMINISTRATIVE APPOINTMENTS

Co-Director, Farouk S. Idriss Cardiac Registry, 1992
Director, Heart Transplant Program – CMH, 2003

COMMITTEE SERVICE

Northwestern University Medical School

Undergraduate Surgical Education Committee, 1990
Feinberg Cardiovascular Research Institute, 1995
Search Committee for Chief, Division of Cardiothoracic Surgery, 1995

Children's Memorial Hospital

Search Committee for Chief, Division of Urology, 2003
Department of Surgery, Promotions Committee, 2001
Search Committee for Chair, Department of Pathology, 2000
Adult Care Committee, 1999
Credentialling Committee, Faculty Practice Plan, 1999, 2000, 2007-
Search Committee for Chief, Division of Cardiology, 1997
Multidisciplinary ICU Committee, 1989
Heart-Lung Transplant Committee, 1989
Transfusion Committee, 1992
Safety Quality Leadership Team 2007-
Clinical Risk Committee 2007-

Children's Memorial Institute for Education and Research

Faculty Advisory Committee, 1992

Illinois

American College of Cardiology
Membership Committee
Cardiovascular Economics Committee
Gift of Hope – Organ & Tissue Donor Network, Cardiopulmonary Subcommittee

PROFESSIONAL AND SCIENTIFIC ACTIVITY

Coordinating Committee for Continuing Education in Thoracic Surgery, 1995
Member, SESATS (Self-Education/Self-Assessment in Thoracic Surgery) Editorial Board, 1995
Section Editor, Section IV-Cardiac Congenital
SESATS VIII-2000; SESATS IX-2004; SESATS X-2008
Member, Society for Thoracic Surgery Congenital Heart Surgery Nomenclature Committee, 1998

PROFESSIONAL AND SCIENTIFIC ACTIVITY (Continued)

Member, STS National Databases Resource Group, 2002.
Member, STS Workforce on Annual Meeting, 2004, 2005, 2006.

National Institutes of Health

Division of Research Grants Special Study Section, Bethesda, Maryland
October 28-30, 1992
November 17-19, 1993
July 11-13, 1994
July 10-12, 1995

National

Children's Circle of Care Leadership Conference, National Institutes of Health, Bethesda, MD, September 27, 1995
Charter Member, Medical Advisory Board, Children's Heart Foundation, 1996
Chairman, Medical Advisory Board, The Children's Heart Foundation, 2003
Society of Thoracic Surgeons' Ad Hoc Committee for Congenital Heart Surgery Initiatives

Editorial Boards

AATS Cardiothoracic Digest Internet Journal Review
Journal of Cardiac Surgery
Journal of Thoracic and Cardiovascular Surgery
CTS Net – Congenital Heart Experts Techniques Section, Editor
Pediatric Cardiology
World Journal for Pediatric and Congenital Heart Surgery

Guest Reviewer

Circulation
Journal of Heart & Lung Transplantation
Mayo Clinic Proceedings
Cardiology in the Young
Journal of the American College of Cardiology
Catheterization and Cardiovascular Interventions
ASAIO Journal
Child's Nervous System
Critical Care Medicine

RESEARCH GRANTS/CONTRACTS

Primary Investigator

Backer CL, Takami H: Effect of Diltiazem on transplant coronary artery disease. American Heart Association Grant Proposal, submitted September 30, 1992, American Heart Association of Metropolitan Chicago. (Approved, not funded)

Backer CL, Bronicki R: The effects of glucocorticoids on the post-cardiopulmonary bypass systemic inflammatory response, IRB# 10783. (Internally funded study, 1995-1996).

Strasburger J, Backer CL: Clinical investigation of the models 10295B/4965 epicardial steroid eluting pacing lead: Phase two (Medtronic Corp. 1996).

Backer CL, Mavroudis, C: Cylexin PT-205 project; A Multicenter, double-blind, placebo controlled study to evaluate the efficacy and safety of CY-1503 in the prevention of reperfusion injury in neonates and infants undergoing hypothermic cardiopulmonary bypass during surgical repair of congenital heart defects. 1997-1999.

Primary Investigator (Cont'd.)

Backer CL, Horn B, Mavroudis C: A Multi-Center Study to Evaluate the Efficacy, Safety, and Pharmacokinetics of Brevibloc for the Treatment of Hypertension in Infants and Children After Surgical Repair of Coarctation of the Aorta, IRB#2001-11666. (Sponsored by Baxter Corporation, 2001-2003).

Backer CL, Mavroudis, C: A Comparative, Evaluator-Masked, Randomized, Parallel, Multicenter Study to Determine the Safety and Effectiveness of REPEL-CV for Reducing Post-Operative Adhesions Following Pediatric Cardiothoracic Surgery, IRB# 2003-12080. (Sponsored by Life Medical Sciences, Inc., 2003)

Collaborating Investigator

Przybylo HJ, Backer CL, Bysani GK: Oxygen free radical production during the repair of congenital heart defects. IRB #10516.

Mavroudis C, Backer CL: Secondary prospective study for the evaluation of the safety and effectiveness of cryopreserved human allograft heart valves, IRB# 10423. (Externally funded clinical trial, Cryolife and CryoInstitute, 1992-1995).

Mavroudis C, Backer CL: Optimization of an implantable artificial lung (Internally funded study, 1995-1996).
Mavroudis C, Cook K, Backer CL: Intrathoracic Artificial Lung. NIH Grant (IR01BL59537-01), 1998-2001.

Crawford SE, Deal B, Mavroudis, C, Backer CL, Pahl E: Dr. Scholl Foundation: Molecular Basis of long Q-T Syndrome.

Crawford SE, Backer CL, Mavroudis, Pahl E, Gidding S: Regulation of Angiogenic Inhibitors in cardiac remodeling and hypertrophy. Children's Heart Foundation.

Curran RD, Mavroudis C, Backer CL, Hall SC: Inhaled nitric oxide therapy for pulmonary hypertension. American Heart Association Grant Proposal, submitted September 30, 1992, American Heart Association of Metropolitan Chicago. (Approved, not funded)

Crawford SE, Hsueh W, Mavroudis C, Backer CL: TNF-Alpha, PAF, and angiotensin II in cardiac allograft arteriosclerosis. American Heart Association Grant Proposal, submitted September 30, 1992, American Heart Association of Metropolitan Chicago. (Approved, not funded)

Mavroudis C, Steele JA, Backer CL: HAL-C coating solution for the reduction of post-surgical adhesions, IRB# 10510 (Externally funded clinical trial, Genzyme Corporation, 1992-1993). Mavroudis C, Backer CL, Webb C, Gottiner N, Randolph G, Bryk-Serva: Phase II Clinical Protocol 9202-99C Medtronic Contegra Pulmonary Valved Conduit, IRB# 2002-11565. (Sponsored by Medtronic Cooperation, 2001-2003).

Kaushal S, Backer CL: Cell based therapy for congenital cardiomyopathy using endogenous cardiac stem cells. Children's Heart Foundation. \$100,000 per year for 2 years. Funded 2009-2010.

Consultant

Curran RD, Mavroudis C, Backer CL, Hall SC: Inhaled nitric oxide therapy for pulmonary hypertension. American Heart Association Grant Proposal, submitted September 30, 1992, American Heart Association of Metropolitan Chicago. (Approved, not funded)

Crawford SE, Hsueh W, Mavroudis C, Backer CL: TNF-Alpha, PAF, and angiotensin II in cardiac allograft arteriosclerosis. American Heart Association Grant Proposal, submitted September 30, 1992, American Heart Association of Metropolitan Chicago. (Approved, not funded)

Mavroudis C, Steele JA, Backer CL: HAL-C coating solution for the reduction of post-surgical adhesions (Externally funded clinical trial, Genzyme Corporation 1992-1993)

SCHOLARLY PRODUCTIVITY

Refereed Journal Articles

1. Backer CL, Tinker JH, Robertson DM, Vlietstra RE: Myocardial reinfarction following local anesthesia for ophthalmic surgery. Anesthesia and Analgesia 1980;59:257-62.
2. Backer CL, Sener SF, Scanlon EF: Complications of drainage system for modified radical mastectomy. Arch Surg 1982;117:859.
3. Backer CL, LoCicero J: Surgical management of esophageal disorders. Critical Care Quarterly 1986;9:12-9.
4. Backer CL, Shields TW, Lockhart CG, Vogelzang R, LoCicero J: Selective preoperative evaluation for possible N₂ disease in carcinoma of the lung. J Thorac Cardiovasc Surg 1987;93:337-43.
5. Idriss FS, Ilbawi MN, DeLeon SY, Duffy CE, Muster AJ, Backer CL, Berry TE, Paul MH: Transposition of the great arteries with intact ventricular septum. Arterial switch in the first month of life. J Thorac Cardiovasc Surg 1988;95:255-62.
6. Backer CL, Hartz RS, Meyers SN, Davis G: Coronary embolism following atrial septal defect repair. Ann Thorac Surg 1988;45:561-3.
7. DeLeon SY, Idriss FS, Ilbawi MN, Duffy CE, Benson DW Jr, Backer CL: Comparison of single versus multidose blood cardioplegia in arterial switch procedures. Ann Thorac Surg 1988;45:548-53.
8. Backer CL, Ilbawi MN, Idriss FS, DeLeon SY: Vascular anomalies causing tracheoesophageal compression: Review of experience in children. J Thorac Cardiovasc Surg 1989;97:725-31.
9. DeLeon SY, Ilbawi MN, Idriss FS, Backer CL, Ohtake S, Zales VR, Muster AJ, Benson DW Jr: Direct tricuspid valve closure versus atrial partitioning in Fontan operation for complex lesions. Ann Thorac Surg 1989;47:761-4.
10. Backer CL, Ilbawi MN, Ohtake S, DeLeon SY, Muster AJ, Paul MH, Benson DW Jr, Idriss FS: Transposition of the great arteries: a comparison of results of the Mustard procedure versus the arterial switch. Ann Thorac Surg 1989;48:10-4.
11. DeLeon SY, Ilbawi MN, Backer CL, Idriss FS, Paul MH, Zales VR, Benson DW Jr: Exit block in pediatric cardiac pacing. Comparison of the suture-type and fishhook epicardial electrodes. J Thorac Cardiovasc Surg 1990;99:905-10.
12. Musemeche CA, Riveron FA, Backer CL, Zales VR, Idriss FS: Massive primary chylopericardium: a case report: J Ped Surg 1990;25:840-2.
13. Ilbawi MN, DeLeon SY, Backer CL, Duffy CE, Muster AJ, Zales VR, Paul MH, Idriss FS: An alternative approach to the surgical management of physiologically corrected transposition with ventricular septal defect and pulmonary stenosis or atresia. J Thorac Cardiovasc Surg 1990;100:410-5.
14. Backer CL, Idriss FS, Zales VR, Mavroudis C: Cardiac transplantation for hypoplastic left heart syndrome: a modified technique. Ann Thorac Surg 1990;50:894-8.
15. Backer CL, LoCicero J III, Hartz RS, Donaldson JS, Shields T: Computed tomography in patients with esophageal perforation. Chest 1990;98:1078-80.

Refereed Journal Articles (continued)

16. Backer CL, Ohtake S, Zales VR, LoCicero J III, Michaelis LL, Idriss FS: Living related lobar lung transplantation in beagle puppies. J Pediatr Surg 1991;26:429-33.
17. Backer CL, Zales VR, Harrison HL, Idriss FS, Mavroudis C: Intermediate term results of infant orthotopic cardiac transplantation from two centers. J Thorac Cardiovasc Surg 1991;101:826-32.
18. Cosentino CM, Backer CL, Idriss FS, Holinger LD, Gerson CR, Mavroudis C: Pericardial patch tracheoplasty for severe tracheal stenosis in children: intermediate results. J Pediatr Surg 1991;26:879-85.
19. Lowe GM, Donaldson JS, Backer CL: Vascular rings: Ten-year review of imaging. RadioGraphics 1991;11:637-46.
20. Backer CL, Idriss FS, Zales VR, Ilbawi MN, DeLeon SY, Muster AJ, Mavroudis C: Surgical management of the conal ventricular septal defect. J Thorac Cardiovasc Surg 1991;102:288-96.
21. Backer CL, Zales VR, Idriss FS, Lynch P, Benson DW Jr, Mavroudis C: Heart transplantation in neonates and in children. J Heart-Lung Transplantation 1992;11(2 Pt 1):311-9.
22. Idriss FS, Muster AJ, Paul MH, Backer CL, Mavroudis C: Ventricular septal defect with tricuspid pouch with and without transposition: Anatomic and surgical considerations. J Thorac Cardiovasc Surg 1992;103:52-9.
23. Backer CL, Idriss FS, Holinger, LD, Mavroudis C: Pulmonary artery sling: Results of surgical repair in infancy. J Thorac Cardiovasc Surg 1992;103:683-91.
24. Backer CL, Stout MJ, Zales VR, Muster AJ, Weigel TJ, Idriss FS, Mavroudis C: Anomalous origin of the left coronary artery. A twenty-year review of surgical management. J Thorac Cardiovasc Surg 1992;103:1049-58.
25. Mavroudis C, Zales VR, Backer CL, Muster AJ, Latson LA: Fenestrated Fontan with delayed catheter closure: Effects of volume loading and baffle fenestration on oxygen delivery. Circulation 1992;86(5 Suppl):II-85-II-92.
26. Zales VR, Wright K, Muster AJ, Backer CL, Mavroudis C: Ventricular volume growth after cardiac transplantation in infants and children. Circulation 1992;86(Suppl II):II-272-II-275.
27. Muster AJ, Zales VR, Ilbawi MN, Backer CL, Duffy CE, Mavroudis C: Biventricular repair of hypoplastic right ventricle assisted by pulsatile bidirectional cavopulmonary anastomosis. J Thorac Cardiovasc Surg 1993;105:112-9.
28. Jia H, Furukawa T, Singer DH, Sakakibara Y, Eager S, Backer CL, Arentzen CE, Wasserstrom JA: Characteristics of lidocaine block of sodium channels in single human atrial cells. J Pharmacol Exp Ther 1993;264:1275-84.
29. Zales VR, Crawford S, Backer CL, Lynch P, Benson DW Jr, Mavroudis C: Spectrum of humoral rejection following pediatric cardiac transplantation. J Heart-Lung Transplant 1993;12:563-72.
30. Kobayashi J, Backer CL, Zales VR, Crawford SE, Muster AJ, Mavroudis C: Failure of the Hemashield® extension in right ventricle-to-pulmonary artery conduits. Ann Thorac Surg 1993;56:277-81.
31. Kobayashi J, Mavroudis C, Crawford SE, Zales VR, Backer CL: A new rat-infection transplant model: effect of infection on graft survival studies. J Heart-Lung Transplant 1993;12:659-64.

Refereed Journal Articles (continued)

32. Votapka T, Backer CL, Mavroudis C: Giant popliteal false aneurysm in an eight-year-old child. J Pediatr Surg 1993;28:1594-6.
33. Backer CL, Winters RC, Zales VR, Takami H, Muster AJ, Benson DW Jr., Mavroudis C: Restrictive ventricular septal defect: How small is too small to close? Ann Thorac Surg 1993;56:1014-9.
34. Sakakibara Y, Furukawa T, Singer DH, Jia H, Backer CL, Arentzen CE, Wasserstrom JA. Sodium current in isolated human ventricular myocytes. Am J Physiol 1993;265 (4 Pt 2): H1301-H1309.
35. Backer CL, Vascular rings, slings, and tracheal rings. Mayo Clinic Proceedings 1993;68:1131-3.
36. Zales VR, Pahl E, Backer CL, Crawford S, Mavroudis C, Benson DW Jr: Pharmacologic reduction of pretransplantation pulmonary vascular resistance predicts outcome after pediatric heart transplantation. J Heart-Lung Transplant 1993;12:965-73.
37. Kobayashi J, Crawford SE, Backer CL, Zales VR, Takami H, Hsueh C, Huang L, Mavroudis C: Captopril reduces graft coronary artery disease in a rat heterotopic transplant model. Circulation, 1993;88(II):286-90.
38. Przybylo HJ, Stevenson GW, Backer CL, Luck SR, Webb CL, Morgan E, Hall SC: Anesthetic management of children with intracardiac extension of abdominal tumors. Anesthesia and Analgesia 1994;78:172-5.
39. Zales VR, Crawford S, Backer CL, Mavroudis C, Benson DW Jr: Role of endomyocardial biopsy in rejection surveillance after heart transplantation in neonates and children. J Am Coll Cardiol 1994;23:766-71.
40. Fetter JE, Backer CL, Muster AJ, Weigel TJ, Mavroudis C: Successful repair of a congenital left ventricle-to-coronary sinus fistulae. Ann Thorac Surg 1994;57:757-8.
41. Backer CL, Pensler J, Tobin GR, Mavroudis C: Vascularized muscle flaps for life threatening mediastinal wounds in children. Ann Thorac Surg, 1994;57:797-802.
42. Dunham M, Holinger LD, Backer CL, Mavroudis C: Management of severe congenital tracheal stenosis. Ann Otol Rhinol Laryngol, 1994;103:351-6.
43. Mavroudis C, Backer CL, Gevitz M: Forty six years of patent ductus arteriosus division at Children's Memorial Hospital of Chicago: Standards for comparison. Ann Surg 1994;220:402-10.
44. Zales, VR, Wright KL, Pahl E, Backer CL, Mavroudis C, Muster AJ, Benson DW Jr: Normal left ventricular muscle mass and mass/volume ratio after pediatric cardiac transplantation. Circulation 1994;90[Part 2]:II-61-II-65.
45. Koumi S, Arentzen CE, Backer CL, Wasserstrom JA: Alterations in muscarinic K⁺ channel response to acetylcholine and to G protein-mediated activation in atrial myocytes isolated from failing human hearts. Circulation 1994;90:2213-24.
46. Moss L, Backer CL, Zales VR, Florentine MS, Mavroudis C: Tetralogy of Fallot with anomalous origin of the right coronary artery. Ann Thorac Surg 1995;59:229-31.
47. Furukawa T, Koumi S, Sakakibara Y, Singer DH, Jia H, Arentzen CE, Backer CL, Wasserstrom JA: An analysis of lidocaine block of sodium current in isolated human atrial and ventricular myocytes. J Mol Cell Cardiol 1995;27:831-46.
48. Takami H, Backer CL, Crawford SE, Zales VR, Mavroudis C: Influence of gender on allograft rejection in a rat heart transplant model. J Heart Lung Transplant 1995;14:529-36.

Refereed Journal Articles (continued)

49. Koumi S, Backer CL, Arentzen CE: Characterization of inwardly rectifying K⁺ channel in human cardiac myocytes. Alterations in channel behavior in myocytes isolated from patients with idiopathic dilated cardiomyopathy. Circulation 1995;92:164-74.
50. Backer CL, Zales VR, Alboliras E, Mavroudis C: Repair of complete atrioventricular canal defects: Results with the two patch technique. Ann Thorac Surg 1995;60:530-7.
51. Backer CL, Paape K, Zales VR, Weigel TJ, Mavroudis C: Coarctation of the aorta: Repair with polytetrafluoroethylene patch aortoplasty. Circulation 1995;92(Suppl):II-132-II-136.
52. Curran RD, Mavroudis C, Backer CL, Zales VR, Wessel DG: Inhaled nitric oxide for children with congenital heart disease and pulmonary hypertension. Ann Thorac Surg 1995;60:1765-71.
53. Przybylo HJ, Stevenson GW, Schanbacher P, Backer CL, Dsida RM, Hall SC: Sodium nitroprusside metabolism in children during hypothermic cardiopulmonary bypass. Anesthesia & Analgesia 1995;81:952-6.
54. Bergamini TM, Bernard JD, Mavroudis C, Backer CL, Richardson JD: Coarctation of the abdominal aorta. Ann Vasc Surg 1995;9:352-6.
55. Koumi S, Backer CL, Arentzen CE, Sato R: β -Adrenergic modulation of the inwardly-rectifying potassium channel in isolated human ventricular myocytes: Alteration in channel response to β -Adrenergic stimulation in failing human hearts. J Clin Invest 1995;96:2870-81.
56. Mavroudis C, Backer CL, Muster AJ, Pahl ES, Sanders JH, Zales VR, Gevitz M: Expanding indications for pediatric coronary artery bypass. J Thorac Cardiovasc Surg 1996;111:181-9.
57. Takami H, Backer CL, Crawford SE, Pahl E, Mavroudis C: Diltiazem preserves direct vasodilator response but fails to suppress intimal proliferation in rat allograft coronary artery disease. J Heart Lung Transplant 1996;15:67-77.
58. Muster AJ, Ilbawi M, Backer CL, Berdusis K, Alboliras ET, Mavroudis C: Double-horned or caplike double outlet right ventricle: diagnosis and operative treatment. Ann Thorac Surg 1996; 61:823-8.
59. Mavroudis C, Backer CL, Muster AJ, Muster AJ, Rocchini AP, Rees AH, Gevitz M: Taussig-Bing anomaly: Arterial Switch vs. Kawashima intraventricular repair. Ann Thorac Surg 1996;61:1330-8.
60. Cook KE, Makarewicz AJ, Backer CL, Mockros LF, Pryzblo HJ, Crawford SE, Hernandez JM, Leonard RJ, Mavroudis C: Testing of an intrathoracic artificial lung in a pig model. ASAIO Journal 1996;42:604-9.
61. Mavroudis C, Backer CL: The two- patch technique for complete atrioventricular canal. Semin Thorac Cardiovasc Surg 1997;9:35-43.
62. Mavroudis C, Backer CL, Rocchini AP, Muster AJ, Gevitz M: Coronary artery fistulas in infants and children: A surgical review and discussion of coil embolization. Ann Thorac Surg 1997; 63:1235-42.
63. Backer CL, Mavroudis C, Dunham ME, Holinger LD: Reoperation after pericardial patch tracheoplasty. J Ped Surg 1997;32:1108-12.
64. Mavroudis C, Backer CL, Deal, BJ: The total cavopulmonary artery Fontan connection using lateral tunnel and extracardiac techniques. Oper Tech Card Thorac Surg 1997;2:180-95.

Refereed Journal Articles (continued)

65. Cheng ATL, Backer CL, Holinger LD, Dunham ME, Mavroudis C, Gonzalez-Crussi F: Histopathologic changes after pericardial patch tracheoplasty. Arch Otolaryngol Head Neck Surg 1997;123:1069-72.
66. Dayan SH, Dunham ME, Backer CL, Mavroudis C, Holinger LD: Slide tracheoplasty in the management of congenital tracheal stenosis. Ann Otol Rhinol Laryngol 1997;106:914-9.
67. Curran RD, Mavroudis C, Backer CL: Ascending aortic extension for right pulmonary artery stenosis associated with ventricular-to-pulmonary artery conduit replacement. J Card Surg 1997;12:372-9.
68. Mavroudis C, Backer CL, Deal BJ, Johnsrude CL: Fontan conversion to cavopulmonary connection and arrhythmia circuit cryoablation. J Thorac Cardiovasc Surg 1998;115:547-56.
69. Backer CL, Mavroudis C, Dunham ME, Holinger LD: Repair of congenital tracheal stenosis with a free tracheal autograft. J Thorac Cardiovasc Surg 1998;115:869-74.
70. Frank MW, Mavroudis C, Backer CL, Rocchini AP: Repair of mitral valve and subaortic mycotic aneurysm in a child with endocarditis. Ann Thorac Surg 1998;65:1788-90.
71. Veeragandham RS, Backer CL, Mavroudis C, Wilson AD: Traumatic left ventricular aneurysm and tricuspid insufficiency in a child. Ann Thor Surg 1998;66:247-8.
72. Muster AJ, Naheed ZJ, Backer CL, Mavroudis C: Is surgical ligation of an accessory left superior vena cava always safe? Pediatr Cardiol 1998;19:352-4.
73. Frank MW, Backer CL, Mavroudis C, Job AW: Axillary thoracoscopy. Ann Thorac Surg 1998;66:590-591.
74. Amin Z, Backer CL, Duffy CE, Mavroudis C: Does banding of the pulmonary artery affect pulmonary valve function after the Damus-Stansel-Kaye operation? Ann Thorac Surg 1998;66:836-41.
75. Backer CL, Mavroudis C, Zias E, Amin Z, Weigel TJ: Repair of coarctation with resection and extended end-to-end anastomosis. Ann Thorac Surg 1998;66:1365-71.
76. Zias EA, Mavroudis C, Backer CL, Kohr LM, Gotteiner NL, Rocchini AP: Surgical repair of the congenitally malformed mitral valve in infants and children. Ann Thorac Surg 1998;66:1551-9.
77. Veeragandham R, Backer CL, Mavroudis C: Surgical management of blunt cardiac trauma. Contemporary Surgery 1999;54:6-13.
78. Deal BJ, Mavroudis C, Backer CL, Johnsrude CL, Rocchini AP: Impact of arrhythmia circuit cryoablation during Fontan conversion for refractory atrial tachycardia. Am J Cardiol 1999;83:563-8.
79. Furman RH, Backer CL, Dunham ME, Donaldson J, Mavroudis C, Holinger LD: The use of balloon-expandable metallic stents in the treatment of pediatric tracheomalacia and bronchomalacia. Arch Otolaryngol Head Neck Surg 1999;125:203-7.
80. Willekes CL, Backer CL, Mavroudis C: A 26-year review of pectus deformity repairs, including simultaneous intracardiac repair. Ann Thorac Surg 1999;67:511-8.
81. Johnsrude CL, Backer CL, Deal BJ, Strasburger JF, Mavroudis C: Transmural atrial pacing in patients with postoperative congenital heart disease. J Cardiovasc Electrophysiology 1999;10:351-7.
82. Mavroudis C, Deal BJ, Backer CL, Johnsrude CL: The favorable impact of arrhythmia surgery on total cavopulmonary artery Fontan conversion. Semin Thorac Cardiovasc Surg Pediatr Card Surg Annu 1999;2:143-56.

Refereed Journal Articles (continued)

83. Crawford SE, Huang L, Hseuh W, Takami H, Gonzalez-Crussi F, Backer CL, Mu Y, Liu H, Mavroudis C: Captopril and platelet-activating factor (PAF) antagonist prevent cardiac allograft vasculopathy in rats: role of endogenous PAF and PAF-like compounds. J Heart Lung Transplant 1999;18:470-7.
84. Dodge-Khatami A, Backer CL, Dunham ME, Mavroudis C: Right aortic arch, right ligamentum, absent left pulmonary artery: a rare vascular ring. Ann Thorac Surg 1999;67:1472-4.
85. Backer CL, Mavroudis C, Dunham ME, Holinger LD: Pulmonary artery sling: results with median sternotomy, cardiopulmonary bypass, and reimplantation. Ann Thorac Surg 1999;67:1738-45.
86. Hillman ND, Mavroudis C, Backer CL, Duffy CE: Supraarterial decompression myotomy for myocardial bridging in a child. Ann Thorac Surg 1999;68:244-6.
87. Pahl E, Crawford SE, Swenson JM, Duffy CE, Fricker FJ, Backer CL, Mavroudis C, Chaudhry FA: Dobutamine stress echocardiography: experience in pediatric heart transplant recipients. J Heart Lung Transplant 1999;18:725-32.
88. Mavroudis C, Backer CL, Duffy CE, Pahl E, Wax DF: Pediatric coronary artery bypass for Kawasaki, congenital, post-arterial switch, and iatrogenic lesions: Ann Thorac Surg 1999; 68: 506-12.
89. Alboliras ET, Mavroudis C, Pahl E, Gidding SS, Backer CL, Rocchini AP: Left ventricular growth in selected hypoplastic left ventricles: outcome after repair of coarctation of aorta. Ann Thorac Surg 1999;68:549-55.
90. Mavroudis C, Backer CL, Kohr LM, Deal BJ, Stinios J, Muster AJ, Wax DF: Bidirectional Glenn shunt in association with congenital heart repairs: the 1 ½ ventricular repair. Ann Thorac Surg 1999;68:976-82.
91. Dodge-Khatami A, Backer CL, Holinger LD, Baden HP, Mavroudis C: Complete repair of tetralogy of Fallot with absent pulmonary valve including the role of airway stenting. J Card Surg 1999;14:82-91.
92. Dodge-Khatami A, Backer CL, Crawford SE, Cook KE, Holinger LD, Mavroudis C: Topical vascular endothelial growth factor (VEGF) enhances free tracheal autograft healing in an experimental rabbit model of tracheal reconstruction Surg Forum 1999; 50:146-7.
93. Deal BJ, Mavroudis C, Backer CL, Johnsrude CL: Surgical therapy of atrial flutter/fibrillation in postoperative patients with congenital heart disease. XXI Congress of the European Society of Cardiology. Monduzzi Editore, Italy, 1999; 759-63.
94. Marcelletti CF, Hanley FL, Mavroudis C, McElhinney DB, Abella RF, Marianeschi SM, Seddio F, Reddy VM, Petrossian E, de La Torre T, Colagrande L, Backer CL, Cipriani A, Iorio FS, Fontan F: Revision of previous Fontan connections to total extracardiac cavopulmonary anastomosis: A multicenter experience. J Thorac Cardiovasc Surg 2000;119:340-6.
95. Mavroudis C, Backer CL: Arterial switch after failed atrial baffle procedures for transposition of the great arteries. Ann Thorac Surg 2000; 69:851-7.
96. Pahl E, Crawford SE, Cohn RA, Rodgers S, Wax D, Backer CL, Mavroudis C, Gidding SS. Reversal of severe late left ventricular failure after pediatric heart transplantation and possible role of plasmapheresis. Am J Cardiol 2000;85:735-9.
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Annual Meeting, International Society for Heart and Lung Transplantation, San Francisco, CA, April 21-24, 1999, J Heart Lung Transplant 1999;18:70.

168. Dodge-Khatami A, Backer CL, Mavroudis C: Surgical strategy for coarctation based on a 40-year review of recoarctation risk factors. 13th Annual Meeting, European Association for Cardio-Thoracic Surgery, Glasgow, Scotland, September 5-8, 1999.
169. Backer CL, Hillman N, Mavroudis C: ALCAPA: Successful surgical strategy in 18 consecutive children. Annual Meeting, Congenital Heart Surgeons' Society, Chicago, September 17, 1999.
170. Hillman ND, Backer CL, Mavroudis C, Duffy E.: The Ross operation in children. 23rd Annual Meeting, Midwest Pediatric Cardiology Society, Ann Arbor, MI, September 23-24, 1999.
171. Backer CL, Mavroudis C, Dunham ME, Holinger LD: Intermediate term results of the free tracheal autograft for long segment congenital tracheal stenosis. Section on Surgery, 51st Annual Meeting, American Academy of Pediatrics, Washington DC, October 9-11, 1999.
172. Backer CL: Tracheal restoration in children: Tracheoplasty for congenital tracheal stenosis. Multidisciplinary Panel Sponsored by the Program Committee and the Advisory Council for Pediatric Surgery. 85th Annual Clinical Congress, American College of Surgeons, San Francisco, CA, October 12, 1999.
173. Dodge-Khatami A, Backer CL, Crawford SE, Cook KE, Holinger LD, Mavroudis C: Topical vascular endothelial growth factor (VEGF) enhances free tracheal autograft healing in an experimental rabbit model of tracheal reconstruction. Surgical Forum, American College of Surgeons, San Francisco, CA, October 13, 1999.
174. Backer CL: Post-operative care after congenital heart surgery. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Chicago, October 30, 1999.
175. Backer CL: Patent ductus arteriosus, vascular rings, coarctation of the aorta, interrupted aortic arch, and hypoplastic left heart syndrome. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Chicago, October 30, 1999.
176. Backer CL: Atrial septal defect, partial anomalous pulmonary venous connection, atrioventricular canal defect. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Chicago, November 1, 1999.
177. Backer CL: Ebstein's anomaly, tricuspid atresia. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Chicago, November 1, 1999.
178. Mavroudis C, Backer CL: Arterial switch after failed atrial baffle procedure for transposition. 46th Annual Meeting, Southern Thoracic Surgical Association, Puerto Rico, November 4-6, 1999.
179. Backer CL: Hypoplastic left heart syndrome: Surgical treatment of advanced disease. Symposium on Hypoplastic Left Heart Syndrome, Maywood, IL, November 20, 1999.
180. Backer CL: Pectus repair. Meet the Experts Session, 36th Annual Meeting, Society of Thoracic Surgeons, Ft. Lauderdale, FL, February 2, 2000.
181. Mavroudis C, Backer CL, Deal BJ, Johnsrude CL: Arrhythmia surgery and Fontan conversion. Congenital Heart Disease Symposium, American Association for Thoracic Surgery, Toronto, Ontario Canada, April 30, 2000.

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182. Johnsrude CL, Deal BJ, Mavroudis C, Backer CL: Incidence of atrial arrhythmias prior to Fontan surgery: indications for "prophylactic" surgical intervention. 21st Annual Meeting, North American Society of Pacing and Electrophysiology, Washington DC, May 17, 2000.
183. Backer CL, Mavroudis, C, Deal BJ, Johnsrude CL: Intermediate term results of Fontan conversion with arrhythmia surgery. 24th Annual Meeting, Midwest Pediatric Cardiology Society, Milwaukee, WI, September 15, 2000.
184. Backer CL, Mavroudis C, Gerber M, Holinger L: Tracheal Surgery in children: An 18 year review of four techniques. European Association for Cardio-Thoracic Surgery. Frankfurt, Germany, October 8, 2000.
185. Backer CL: Long segment congenital tracheal stenosis with complete tracheal rings. Pediatric Airway Endoscopy Course, Chicago, October 21, 2000.
186. Backer CL: Post-operative care after congenital heart surgery. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Oak Brook, IL, October 28, 2000.
187. Backer CL: Patent Ductus Arteriosus, Vascular Rings, Coarctation of the Aorta, Interrupted Aortic Arch, and Hypoplastic Left Heart Syndrome. Specialty review in Thoracic Surgery, National Center for Advanced Medical Education, Oak Brook, IL, October 28, 2000.
188. Backer CL: Atrial Septal Defect, Partial Anomalous Pulmonary Venous Connection, Atrioventricular Canal Defect. Specialty review in Thoracic Surgery, National Center for Advanced Medical Education, Oak Brook, IL, October 30, 2000.
189. Backer CL: Ebstein's anomaly, tricuspid atresia. Specialty Review in Thoracic Surgery, National Center for Advanced Medical Education, Oak Brook, IL, October 30, 2000.
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195. Mavroudis C, Backer CL: Truncal valve remodeling by leaflet resection and reduction annuloplasty. 37th Annual Meeting, Society of Thoracic Surgeons, New Orleans, LA, January 30, 2001.
196. Backer CL: Pediatric tracheal reconstruction. 37th Annual Meeting, Society of Thoracic Surgeons, New Orleans, LA, January 30, 2001.

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197. Pahl E, Crawford SE, Wax DF, Backer CL, Mavroudis C, Gidding S: Safety and efficacy of pravastatin in pediatric heart transplant recipients. 21st Annual Meeting, International Society for Heart and Lung Transplantation, Vancouver, BC, Canada, April 25, 2001. J Heart Lung Transplant 2001;20:230.
198. Costello J, Wax D, Backer CL, Mavroudis C, Pahl E: Preliminary experience with IVUS in pediatric heart transplant recipients. 21st Annual Meeting, International Society for Heart and Lung Transplantation, Vancouver, BC, Canada, April 25, 2001. J Heart Lung Transplant 2001;20:231.
199. Backer CL: AV canal repair: Two patch technique. Congenital Heart Disease Symposium, American Association for Thoracic Surgery 81st Annual Meeting, San Diego, CA, May 6, 2001.
200. Backer CL: Late pulmonary valve insertion is beneficial for tetralogy of Fallot. Controversies in Cardiothoracic Surgery, 81st Annual Meeting, American Association for Thoracic Surgery, San Diego, CA, May 9, 2001.
201. Backer CL, Mavroudis C, Hillman N, Rodgers S, Crawford S, Pahl E: Results of bicaval heart transplantation in children. 3rd World Congress of Pediatric Cardiology and Pediatric Cardiac Surgery, Toronto, Canada, May 28, 2001. Cardiol Young 2001;11(Suppl 1):124.
202. Muster A, Idriss R, Backer CL: Evolution of aortic arches from fish to humans. 3rd World Congress of Pediatric Cardiology and Pediatric Cardiac Surgery, Toronto, Canada, May 29, 2001. Cardiol Young 2001;11(Suppl 1):206.
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206. Backer CL, Hillman N, Mavroudis C, Holinger LD: Resection of Kommerell's diverticulum and left subclavian artery transfer for recurrent symptoms after vascular ring division. Congenital Heart Surgeons' Society, Chicago, October 15, 2001.
207. Backer CL, Samson R: The child with congenital heart disease before and after surgery. American Academy of Pediatrics, Invited Lecture. San Francisco, CA, October 21, 2001.
208. Backer CL, Long segment congenital tracheal stenosis with complete tracheal rings. Pediatric Airway Endoscopy Course, Invited Lecture. Chicago, November 1, 2001.
209. Costello J, Backer CL, deHoyos A, Binns HJ, Mavroudis C. Aprotinin reduces operative closure time and blood product use after cardiopulmonary bypass in selected pediatric patients. 25th Annual Meeting, Midwest Pediatric Cardiology Society, Omaha, NE, November 30, 2001.
210. Backer CL, Hillman N, Mavroudis C, Holinger LD: Resection of Kommerell's diverticulum and left subclavian artery transfer for recurrent symptoms after vascular ring division. 25th Annual Meeting, Midwest Pediatric Cardiology Society, Omaha, NE, November 30, 2001.
211. Costello J, Backer CL, Checchia PA, Mavroudis C, Goodman DM: Alterations in the natriuretic hormone system related to cardiopulmonary bypass and modified ultrafiltration in patients with

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212. Perlman CE, Cook KE, Backer CL, Hillman N, Mavroudis C, Mockros LF. Hemodynamic consequences of artificial lung attachment in an in vivo porcine model. ASAIO Abstracts 2001;47: 144.
213. Backer CL: Tetralogy of Fallot –timing of repair. Meet the Experts Session, 38th Annual Meeting, Society of Thoracic Surgeons, Ft. Lauderdale, FL, January 29, 2002.
214. Deal B, Mavroudis C, Backer CL: Beyond Fontan: Surgical therapy of arrhythmias in young patients. 38th Annual Meeting, Society of Thoracic Surgeons, Ft. Lauderdale, FL, January 30, 2002.
215. Backer CL: Surgical techniques of mitral valve repair. 2nd International Symposium on Pediatric Echocardiography, St. Petersburg, FL, February 1, 2002.
216. Backer CL: Surgical management of interventional transcatheter complications. Congenital Heart Surgery Symposium, 82nd Annual Meeting, American Association for Thoracic Surgery, Washington DC, May 5, 2002.
217. Backer CL, Holinger, Gerber M, Mavroudis C: The role of bronchoscopy in the repair of congenital tracheal stenosis using the tracheal autograft technique. 12th World Congress for Bronchoesophagology, Boston, MA, June 17, 2002.
218. Backer CL: Indications and results of heart surgery/pediatric heart transplantation. Specialty Review in Pediatric Cardiology, National Center for Advanced Medical Education, Chicago, July 12, 2002.
219. Cook KE, Perlman CE, Backer CL, Hillman N, Mavroudis C, Mockros LF. In vivo verification of model for right ventricular power during thoracic artificial lung implantation. ASAIO Abstracts 2002;48:169.
220. Deal B, Franklin W, Parilli N, Backer CL, Mavroudis C: Surgical therapy of atrial fibrillation in young patients with complex congenital heart disease. 26th Annual Meeting, Midwest Pediatric Cardiology Society, Chicago, September 13, 2002.
221. Backer CL, Seipelt RG, Pahl E, Rodgers S, Frank M, Crawford SE, Mavroudis C: Cardiac transplantation after previous procedures for congenital heart disease. 26th Annual Meeting, Midwest Pediatric Cardiology Society, Chicago, September 13, 2002.
222. Backer CL: A history of pediatric tracheal surgery. 49th Annual Meeting, Southern Thoracic Surgical Association, Miami Beach, FL, November 8, 2002.
223. Seipelt RG, Backer CL, Mavroudis C, Stellmach V, Seipelt IM, Cornwell M, Hernandez J, Crawford S: Topical VEGF enhances healing of thoracic aortic anastomosis for coarctation in a rabbit model. 75th Scientific Sessions, American Heart Association, Chicago, November 20, 2002.
224. Kavey RE, Franklin WH, Deal BJ, Mavroudis C, Backer CL, Danduran M, Strasburger JF, Mesnik M: Exercise performance after Fontan conversion to total cavopulmonary connection. 82nd Annual Scientific Session, American College of Cardiology. Chicago, March 30, 2003. J Am Coll Cardiol 2003;41(6 Suppl A):476.
225. Pahl E, Crawford SE, Katz BZ, Kostyk MC, Morgan E, Wax DF, Mavroudis C, Backer CL: PTLD in a pediatric heart transplant cohort is not associated with traditional risk factors. 23rd Annual Meeting, International Society of Heart and Lung Transplantation, Vienna, Austria, April 10, 2003. J Heart Lung Transplant 2003;22:S134.

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226. Backer CL, Holinger LD, Mavroudis C: Vascular rings and pulmonary artery sling: 1946-2003. 27th Annual Meeting, Midwest Pediatric Cardiology Society, Rochester, MN, September 19, 2003.
227. Kim P, Franklin W, Duffy E, Gotteiner N, Webb C, Mavroudis C, Backer CL, Parilli N, Deal B. Accuracy of transesophageal echocardiography in detecting right atrial thrombus in patients after the Fontan operation. 27th Annual Meeting, Midwest Pediatric Cardiology Society, Rochester, MN, September 19, 2003.
228. Ward KM, Crawford SE, Rodgers SR, Pophal SG, Backer CL, Mavroudis C, Pahl C. Basiliximab in pediatric heart transplantation-initial experience. 27th Annual Meeting, Midwest Pediatric Cardiology Society, Rochester, MN, September 19, 2003.
229. Mavroudis C, Deal BJ, Backer CL: Surgery for arrhythmias in children. 2nd Joint European/North American Symposium on Congenital Heart Disease in the Adult, Santorini, Greece, September 19-20, 2003.
230. Backer CL, Mavroudis C, Holinger LD: Vascular rings & pulmonary artery sling. Annual Meeting, Congenital Heart Surgeons' Society, Chicago, September 29, 2003.
231. Seipelt IM, Pahl E, Seipelt RG, Mavroudis C, Backer CL, Cornwell M: Neointimal inflammation and adventitial angiogenesis correlate with severity of cardiac allograft vasculopathy in pediatric cardiac recipients. 76th Scientific Sessions, American Heart Association, Orlando, FL, November 9-12, 2003. Circulation 2003;108(17):IV-328.
232. Kim P, Franklin W, Duffy E, Gotteiner N, Webb C, Mavroudis C, Backer CL, Parilli N, Deal B. Accuracy of transesophageal echocardiography in detecting right atrial thrombus in patients after the Fontan operation. 76th Scientific Sessions, American Heart Association, Orlando, FL, November 9-12, 2003. Circulation 2003;108(17):IV-
233. Backer CL: Severe pulmonary insufficiency should be *aggressively* treated. Controversies of Switch, Ross and Right Ventricular Outflow Tract Procedures, 4th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 15, 2004.
234. Backer CL: Valve repair techniques for the aortic valve and truncal valve. Controversies of Switch, Ross and Right Ventricular Outflow Tract Procedures, 4th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 16, 2004.
235. Backer CL: Aortic valve repair is best for children. Controversies of Switch, Ross and Right Ventricular Outflow Tract Procedures, 4th International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 15, 2004.
236. Ward KM, Crawford SE, Pophal SG, Rodgers SR, Backer CL, Mavroudis C, Pahl E: Basiliximab in pediatric heart transplantation – initial experience. 24th Annual Meeting and Scientific Sessions, International Society for Heart and Lung Transplantation, San Francisco, CA, April 21-24, 2004. J Heart Lung Transplant 2004;23:S77.
237. Backer CL, Mavroudis C, Rigsby C, Holinger LD: Trends in vascular ring surgery. 84th Annual Meeting American Association for Thoracic Surgery, Toronto, Canada, April 27, 2004.
238. Backer CL: Congenital heart surgery – indications, techniques, and results. Specialty Review in Pediatric Cardiology, National Center for Advanced Medical Education, Chicago, July 15, 2004.
239. Backer CL, Mavroudis C, Stewart RD, Franklin W, Deal BJ: The impact of AV valve repair during Fontan conversion and arrhythmia surgery. 28th Annual Meeting, Midwest Pediatric Cardiology Society, Cleveland, OH, September 9-10, 2004.

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240. Stewart RD, Backer CL, Mavroudis C, Young L: Tetralogy of Fallot: results of a pulmonary valve-sparing strategy. 28th Annual Meeting, Midwest Pediatric Cardiology Society, Cleveland, OH, September 9-10, 2004.
241. Mavroudis C, Backer CL, Stewart RD, Franklin W, Deal BJ: The impact of AV valve repair during Fontan conversion and arrhythmia surgery. Annual Meeting, Congenital Heart Surgeons' Society, Montreal, Canada, October 2-4, 2004.
242. Backer CL, Mavroudis C, Stewart RD, Young L: Tetralogy of Fallot: results of a pulmonary valve-sparing strategy. Annual Meeting, Congenital Heart Surgeons' Society, Montreal, Canada, October 2-4, 2004.
243. Seipelt RG, Backer CL, Mavroudis C, Stellmach V, Cornwell M, Seipelt IM, Schoendube FA, Crawford SE: Osteopontin expression and adventitial angiogenesis induced by local VEGF₁₆₅ reduce experimental aortic calcification. 77th Scientific Sessions, American Heart Association, New Orleans, LA, November 7-10, 2004. Circulation 2004;110(Suppl):III-591.
244. Seipelt RG, Backer CL, Mavroudis C, Stellmach V, Cornwell M, Seipelt IM, Schoendube FA, Crawford SE: Local delivery of osteopontin attenuates vascular remodeling by altering MMP-2 activity in a rabbit model of aortic injury. 77th Scientific Sessions, American Heart Association, New Orleans, LA, November 7-10, 2004. Circulation 2004;110(Suppl):III-316.
245. Backer CL: Closure of septal defects: catheter or surgery? Cardiovascular Seminars, 77th Scientific Sessions, American Heart Association, New Orleans, LA, November 8, 2004.
246. Costello JM, Backer CL, Checchia PA, Mavroudis C, Seipelt RG, Goodman DM: Impact of cardiopulmonary bypass and surgical intervention on the natriuretic hormone system in children. Poster presentation, Cardiology 2005, Orlando, FL, February 16-20, 2005.
247. Backer CL: Atrial arrhythmias after the Fontan operation: results of Fontan conversion, the Children's Memorial Hospital experience, 1994-2004. 69th Annual Scientific Meeting, Japanese Circulation Society, Yokohama, Japan, March 19-21, 2005. Circ J 2005;69(Suppl I):33.
248. Backer CL: Surgery for arrhythmias and cardiac failure in adults with congenital heart disease after repair. Japanese Society of Adult Congenital Heart Disease (JSACHD), Yokohama, Japan, March 20, 2005.
249. Backer CL, Stewart RD, Mavroudis C: Surgical closure of ventricular septal defects: standards for comparison. Fourth World Congress of Pediatric Cardiology and Cardiac Surgery, Buenos Aires, Argentina, September 18-22, 2005.
250. Deal BJ, Backer CL, Mavroudis C, Tsao S: Evolving pacemaker and anti-tachycardic device management of arrhythmias following Fontan conversion. Fourth World Congress of Pediatric Cardiology and Cardiac Surgery, Buenos Aires, Argentina, September 18-22, 2005.
251. Backer CL: Surgery in tetralogy of Fallot. 27th Annual Program, ECHO Northwestern, Chicago, October 17, 2005
252. Backer CL, Mavroudis C, Stewart RD: Surgical closure of ventricular septal defects: standards for comparison. 29th Annual Meeting, Midwest Pediatric Cardiology Society, Iowa City, IA, October 20-21, 2005.

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253. Tsao S, Backer CL, Mavroudis C, Deal BJ: Evolving pacemaker and anti-tachycardic device management of arrhythmias following Fontan conversion. 29th Annual Meeting, Midwest Pediatric Cardiology Society, Iowa City, IA, October 20-21, 2005.
254. Stewart RD, Hillman ND, Backer CL, Mavroudis C. The Ross operation in children: effects of aortic annuloplasty. 29th Annual Meeting, Midwest Pediatric Cardiology Society, Iowa City, IA, October 20-21, 2005.
255. Stewart RD, Backer CL, Mavroudis C. Use of partial cardiopulmonary bypass for coarctation repair via left thoracotomy in children without collaterals. 29th Annual Meeting, Midwest Pediatric Cardiology Society, Iowa City, IA, October 20-21, 2005.
256. Backer CL. Vascular rings and pectus repair. Children's Memorial Hospital's 2005-2006 Pediatric Pearls: Surgical Dilemmas Continuing Medical Education Series, Oak Brook, IL, November 18, 2005.
257. Stewart RD, Hillman N, Backer CL, Mavroudis C. The Ross operation in children: effects of aortic annuloplasty. 42nd Annual Meeting, Society of Thoracic Surgeons, Chicago, January 30-February 1, 2006.
258. Backer CL, Stewart RD, Kelle AM, Mavroudis C. Use of partial cardiopulmonary bypass for coarctation repair via left thoracotomy in children without collaterals. 42nd Annual Meeting, Society of Thoracic Surgeons, Chicago, January 30-February 1, 2006.
259. Backer CL. Congenitally corrected transposition of the great arteries: classic & 1 ½ ventricle repair. Sixth Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, February 18-22, 2006.
260. Backer CL. Vascular ring surgery. Annual Meeting, Society for Thoracic Surgical Education, White Sulphur Springs, WV, April 6-8, 2006.
261. Kelle AM, Backer CL, Tsao S, Stewart RD, Franklin WH, Mavroudis C. Dual-chamber epicardial pacing in newborns with congenital heart block. 30th Annual Meeting Midwest Pediatric Cardiology Society, Columbus, Ohio, September 7-8, 2006.
262. Backer CL. Complete atrioventricular canal: overview, history, anatomy, timing, results. Congenital Heart Disease Symposium, 86th Annual Meeting, American Association for Thoracic Surgery, Philadelphia, PA, April 30, 2006.
263. Stewart RD, Kelle AM, Bailliard F, Backer CL, Young L, Mavroudis C. Evolving surgical strategy for sinus venosus atrial septal defect: effect on sinus node function and late venous obstruction. 53rd Annual Meeting, Southern Thoracic Surgical Association, Tucson, AZ, Nov. 8-11, 2006.
264. Backer CL, Stewart RD, Mavroudis C, Deal BJ, Pophal SG, Franklin W, Tsao S, Pahl E. Heart transplantation for the failing Fontan [abstract]. Am J Transplant 2006;6:732:P328-II
265. Backer CL, Stewart RD, Bailliard F, Kelle AM, Webb CL, Mavroudis C. Complete atrioventricular canal: a comparison of the modified single-patch technique to the two-patch technique. 43rd Annual Meeting of the Society of Thoracic Surgeons, San Diego, CA, Jan. 27-31, 2007.
266. MacIver RH, Stewart RD, Backer CL, Deal BJ, Franklin WH, Tsao S, Mavroudis C. Implantable cardiac defibrillators in the pediatric population. Second Annual Academic Surgical Congress, Phoenix, AZ, February 6-9, 2007.

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267. Maclver RH, Mavroudis C, Stewart RD, Backer CL, Tsao S, Harrington D. Ablation of the atrioventricular node in a rabbit model. Second Annual Academic Surgical Congress, Phoenix, AZ, February 6-9, 2007.
268. Kelle AM, Backer CL, Stewart RD, Tsao S, Franklin WH, Deal BJ, Mavroudis C. Pediatric pacemakers: Results of a collaborative electrophysiology-surgery program. Poster, World Society for Pediatric and Congenital Heart Surgery, Washington, DC, May 2007.
269. Backer CL, Kelle AM, Stewart RD, Suresh SC, Ali FN, Seshadri R, Mavroudis C. Aprotinin is safe in pediatric patients undergoing cardiac surgery. 87th Annual Meeting of the American Association for Thoracic Surgery, Washington, DC, May 5-9, 2007.
270. Backer CL. Maze procedure in single ventricle patients. 87th Annual Meeting of the American Association for Thoracic Surgery, Washington, DC, May 5-9, 2007.
271. Backer CL. The Fontan operation: Then and now evolution and conversion. Grand Rounds Presentation, University of Pittsburgh, Heart, Lung, and Esophageal Surgery Institute, June 6, 2007.
272. Backer CL. Fontan conversion and arrhythmia surgery. 50th Annual Meeting of Kansai Association for Thoracic Surgery, Osaka, Japan, June 20-21, 2007.
273. Speicher PJ, Backer CL, Koenig PR, Kelle AM, Mavroudis C. Trends in repair of partial atrioventricular canal. 31st Annual Meeting of the Midwest Pediatric Cardiology Society, St. Louis, MO, September 28, 2007.
274. Kelle AM, Backer CL, Tsao S, Deal BJ, Mavroudis C. Optimizing the outcome of primary Fontan: Lessons learned from Fontan conversion. 31st Annual Meeting of the Midwest Pediatric Cardiology Society, St. Louis, MO, September 28, 2007.
275. Backer CL, Lodge AJ, Wells WJ, O'Brien JE Jr, Austin EH, Bacha EA, Yeh T, Lavin P, Weinstein S. A novel bioresorbable film reduces postoperative adhesions after infant cardiac surgery. 31st Annual Meeting of the Midwest Pediatric Cardiology Society, St. Louis, MO, September 28, 2007.
276. Deal BJ, Backer CL, Ward KM, Tsao S, Dechert B, de Freitas A, Franklin WH, Mavroudis C. Medical characteristics and midterm outcome: 100 consecutive Fontan conversions with arrhythmia surgery. *Circulation* 2007;116(Suppl II):II-414. Abstract 1923.
277. Backer CL. TOF Surgeries — What I think is important: pulmonary valve preservation. 8th Annual International Symposium on Congenital Heart Disease. All Children's Hospital, St. Petersburg, FL, Feb. 16-19, 2008.
278. Backer CL. Modified single-patch repair of AV canal. 54th Annual Conference, Indian Association of Cardiovascular Thoracic Surgeons, Pune, India, Feb. 21-24, 2008.
279. Backer CL. Vascular rings and pulmonary artery sling. 54th Annual Conference, Indian Association of Cardiovascular Thoracic Surgeons, Pune, India, Feb. 21-24, 2008.
280. Backer CL. Fontan conversion and arrhythmia surgery. Department of Cardiothoracic and Vascular Surgery, All India Institute of Medical Sciences, New Delhi, India, Feb. 25, 2008.
281. Backer CL. Long-term outcomes of coarctation repair: Surgery is the best primary treatment for aortic coarctation. 57th Annual Scientific Sessions, American College of Cardiology, Chicago, IL, March 29-April 1, 2008.
282. Pahl E, Petroski RA, Rodgers S, Sullivan C, Mavroudis C, Backer CL. Ten year survivors of pediatric

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heart transplantation: Current status and increased incidence of serious complications between 5 and 10 years after transplantation. American Transplant Congress, Ontario, Canada, May 31-June 4, 2008.

283. Backer CL. CTSNet: Web-based global education celebrating 10 years of service to the cardiothoracic community. World Society for Pediatric and Congenital Heart Surgery, Montreal, Canada, June 21, 2008.
284. Backer CL, Kelle AM, Mavroudis C, Rigsby CK, Kaushal S, Holinger L. Tracheal reconstruction with unilateral lung agenesis or severe hypoplasia. European Congenital Heart Surgeons Association and Congenital Heart Surgeons' Society Combined Meeting, Warsaw, Poland, Sept. 11-12, 2008.
285. Backer CL. Congenital heart surgery: Indications, techniques, and results. University of Illinois at Chicago College of Medicine-Society of Pediatric Cardiology Training Directors-Children's Memorial Hospital, Specialty Review in Pediatric Cardiology, September 15-19, 2008, Chicago, IL.
286. Backer CL, Kaushal S, Patel J, Patel S, Wax D, Mavroudis C: Coarctation of the aorta: Long-term outcomes of resection with extended end-to-end anastomosis. 32nd Annual Meeting, Midwest Pediatric Cardiology Society, Minneapolis, MN, September 25-26, 2008.
287. Kelle AM, Backer CL, Gossett JG, Kaushal S. Total anomalous pulmonary venous connection: Results of surgical repair of 100 patients at a single institution. 32nd Annual Meeting, Midwest Pediatric Cardiology Society, Minneapolis, MN, September 25-26, 2008.
288. Kelle AM, Young L, Kaushal S, Backer CL. The Gerbode VSD: The significance of a left ventricle to right atrial shunt. 32nd Annual Meeting, Midwest Pediatric Cardiology Society, Minneapolis, MN, September 25-26, 2008.
289. Backer CL. CTSNet – Web-based global education. Celebrating 10 years of service to the cardiothoracic surgical community. World Society for Pediatric and Congenital Heart Surgery, Chicago, IL, October 6, 2008.
290. Backer CL. Aprotinin: the good, the bad, and the ugly. Postgraduate Program, 55th Annual Meeting, Southern Thoracic Surgical Association, Austin, TX, November 6, 2008.
291. Backer CL. Coarctation of the aorta. Congenital Heart Disease in the Adult Symposium. Cleveland Clinic Foundation, Cleveland, OH, November 14, 2008.
292. Backer CL. What I think is important. 7th International Conference of the Pediatric Cardiac Intensive Care Society, Miami FL, December 3, 2008.
293. Backer CL, Kelle AM, Rigsby CK, Mavroudis C, Kaushal S, Holinger L: Tracheal reconstruction in children with unilateral lung agenesis or severe hypoplasia. 45th Annual Meeting, Society of Thoracic Surgeons, San Francisco, CA, January 26-28, 2009.
294. Kaushal S, Backer CL, Patel JN, Patel SK, Wax D, Mavroudis C: Coarctation of the aorta: Long-term outcomes of resection with extended end-to-end anastomosis. 45th Annual Meeting, Society of Thoracic Surgeons, San Francisco, CA, January 26-28, 2009.
295. Patel A, Hickey E, Mavroudis C, Jacobs JP, Jacobs ML, Backer CL, Gevitz M, Mavroudis CD. Impact of syndromic abnormalities on outcomes in hypoplastic left heart syndrome. 45th Annual Meeting, Society of Thoracic Surgeons, San Francisco, CA, January 26-28, 2009.
296. Backer CL. Surgery for atrioventricular septal defects. 9th Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, Feb. 13-17, 2009.

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297. Backer CL. The Gerbode VSD: The significance of a left ventricle-to-right atrial shunt. 9th Annual International Symposium on Congenital Heart Disease, St. Petersburg, FL, Feb. 13-17, 2009.
298. Backer CL. Infant atrioventricular valve repair: The modified single-patch technique. 17th Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Taipei, Taiwan, March 5-8, 2009
299. Backer CL. Timing and conversion of Fontan to total cavopulmonary connection. 17th Annual Meeting of the Asian Society for Cardiovascular and Thoracic Surgery, Taipei, Taiwan, March 5-8, 2009
300. Backer CL. The history of pediatric tracheal surgery and the contribution of Children's Memorial Hospital. Grand Rounds presentation, Children's Memorial Hospital. April 6, 2009.
301. Backer CL. Hypoplastic left heart syndrome: Surgical options over the last 10 years. Hypoplastic left heart syndrome: surgical evolution over the last 30 years. The American Society of Echocardiography 2009 Chicago Sonographer Update: Post-Operative Congenital Heart Disease-Pathology and Echocardiography Review. Oak Brook, IL. April 25, 2009.
302. Kelle AM, Backer CL, Gossett JG, Kaushal S, Mavroudis C. Total anomalous pulmonary venous connection: Results of surgical repair of 100 patients at a single institution. 32nd Annual Meeting, Western Thoracic Surgical Society, Banff, Alberta, CA, June 24-27, 2009.
303. Backer CL. The Arterial Switch Operation: A 25-year Experience with 258 Patients. 33rd Annual Meeting of the Midwest Pediatric Cardiology Society, Pittsburgh, PA, October 7, 2009.
304. Backer CL. Cardiac transplantation for patients with adult congenital heart disease. 2nd Annual Congenital Heart Disease in the Adult Symposium. Cleveland Clinic Foundation, Cleveland, OH, October 9, 2009.
305. Backer CL, Rudra H, Webb CL, Kaushal S, Russell H, Michelson K, Sullivan C, Mavroudis C. The Arterial Switch Operation: A 25-year Experience with 258 Patients. Annual meeting of the Congenital Heart Surgeon's Society, Chicago, IL, November 1-2, 2009.
306. Ferns S, Backer CL. Eustachian valve morphology in hypoplastic left heart syndrome. CHOP Cardiology 2010 – 13th Annual Update on Pediatric Cardiovascular Disease, Lake Buena Vista, FL, February 10-14, 2010.
307. Backer CL: Surgery for congenital tracheal stenosis: the Chicago approach. 10th Annual International Symposium on Congenital Heart Disease, All Children's Hospital, St. Petersburg, FL, February 9, 2010.
308. Backer CL: Anomalous Aortic Origin of Coronary Arteries from the Wrong Sinus of Valsalva. Influence of ostial orifice, intramural length, and coronary dominance. Society for Thoracic Surgical Education, Sedona, AZ, March 13, 2010.
309. Backer CL. The Fontan Procedure: Historical Overview from a Surgeon's Perspective. The American Society of Echocardiography 2010 Chicago Sonographer Update: Post-Operative Congenital Heart Disease-Pathology and Echocardiography Review. Oak Brook, IL. April 24, 2010.
310. Backer CL. Congenital Skills Course: Slide Tracheoplasty. 90th Annual Meeting of the American Association for Thoracic Surgery, Toronto, Ontario, Canada, May 1, 2010.
311. Backer CL. Extracardiac versus Intra-Atrial Lateral Tunnel Fontan: Extracardiac is Better. 90th Annual Meeting of the American Association for Thoracic Surgery, Toronto, Ontario, Canada, May 2, 2010.