

CURRICULUM VITAE

12/9/2010

I. General Information**Name:** Steven Donald Colan, M.D., F.A.C.C., F.A.S.E.**Office Address:** Children's Hospital, 300 Longwood Ave, Boston, MA 02115**Phone:** 617-355-6429**Place of Birth:** Omaha, Nebraska**Education:**

06/01/1973	B.S., Mathematics, Massachusetts Institute of Technology
06/01/1973	B.S., Philosophy, Massachusetts Institute of Technology
06/10/1977	M.D., Boston University School of Medicine

Postdoctoral Training:

07/01/1977	Intern in Pediatrics, Massachusetts General Hospital
07/01/1978	Assistant Resident in Pediatrics, Massachusetts General Hospital
07/01/1979	Senior Resident in Pediatrics, Massachusetts General Hospital
07/01/1980	Chief Resident in Pediatrics, Massachusetts General Hospital
07/01/1981	Fellow in Pediatric Cardiology, Boston Children's Hospital

Licensure and Certification:

11/26/1979	Massachusetts License Registration
09/12/1982	American Board of Pediatrics
10/21/1983	Sub-board of Pediatric Cardiology, American Academy of Pediatrics

Academic Appointments:

07/01/1984	Instructor in Pediatrics, Harvard Medical School
07/01/1985	Assistant Professor of Pediatrics, Harvard Medical School
10/01/1990	Associate Professor of Pediatrics, Harvard Medical School
01/01/2003	Professor of Pediatrics, Harvard Medical School

Hospital Appointments:

7/1/1980-6/30/1984	Assistant in Pediatrics, Massachusetts General Hospital
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7/1/1984-6/30/1985 Assistant in Cardiology, Boston Children's Hospital
 7/1/1985-6/30/1990 Associate in Cardiology, Boston Children's Hospital
 7/1/1990- Senior Associate in Cardiology, Boston Children's Hospital
 7/1/1994-12/31/2005 Chief, Division of Noninvasive Cardiology, Boston Children's Hospital
 05/28/2003 Courtesy Staff, Wnchester Hospital
 01/01/2006 Associate Chief for Clinical Operations, Department of Cardiology,
 Boston Children's Hospital
 06/13/2006 Pediatrician to the Affiliate Staff, Brigham and Women's Hospital

Major Administrative Responsibilities

7/1/1985-7/1/1994 Director, Cardiac Exercise Laboratory, Boston Children's Hospital
 7/1/1993-6/30/1996 Director, Cardiology Information System, Boston Children's Hospital
 7/1/1994-1/1/2006 Chief, Division of Noninvasive Cardiology, Boston Children's Hospital
 1/1/2006 Associate Chief for Clinical Operations, Department of Cardiology

Major Committee Assignments:

1988- Institutional Review Board, Boston Children's Hospital
 1989-1994 MIS Physicians Advisory Committee, Boston Children's Hospital
 1990-1996 Research Computing Advisory Committee, Boston Children's Hospital
 1992- Clinical Research Center Advisory Committee, Children's Hospital
 1994-1998 Cardiology Quality Improvement Committee, Boston Children's Hospital
 1996-1999 General Clinical Research Center Review Committee,
 National Institutes of Health
 1998-2001 Standards and Nomenclature Committee,
 Society of Pediatric Echocardiography
 1999-2001 Pediatric Council Board, American Society of Echocardiography
 2001- Steering Committee, International Committee on Nomenclature for
 Congenital Heart Disease
 2002- International Committee on Nomenclature for Congenital Heart Disease
 Database Crossmapping Working Committee
 2002-2005 Associate Member, American Board of Pediatrics
 2002-2008 Subboard of Pediatric Cardiology, American Board of Pediatrics
 2002-2008 Pediatric Cardiology Credentials Committee, American Board of
 Pediatrics
 2002- Clinical Appointments and Promotions Committee of the Department of
 Medicine, Children's Hospital, Boston
 2006-2009 Member, American Board of Pediatrics
 2006-2008 Chair, Subboard of Pediatric Cardiology, American Board of Pediatrics
 2007- International Committee on Nomenclature for Congenital Heart Disease
 Definitions Working Committee
 2008- Chair, Institutional Review Board, Boston Children's Hospital

Memberships in Professional Societies:

1974- American Association for the Advancement of Science, member
 1976- American Heart Association, member
 1981- Fellow of the American College of Cardiology
 1985- Institute of Electrical and Electronic Engineers, member
 1993- Fellow of the Society for Pediatric Research
 1992- Fellow of the American Society of Echocardiography

Editorial Boards

1984- Ad hoc reviewer Catheterization and Cardiovascular Diagnosis
 1984- Ad hoc reviewer Circulation
 1984- Ad hoc reviewer American Journal of Cardiology
 1985- Ad hoc reviewer American Heart Journal
 1985- Ad hoc reviewer Journal of the American College of Cardiology
 1985- Ad hoc reviewer Pediatrics
 1986- Ad hoc reviewer Critical Care Medicine
 1986- Ad hoc reviewer Archives of Internal Medicine
 1989- Ad hoc reviewer Journal of Pediatrics
 1988- Ad hoc reviewer J. of the American Society of Echocardiography
 1990- Ad hoc reviewer Echocardiography
 1994- Ad hoc reviewer Journal of the American Medical Association
 1995- Ad hoc reviewer Pediatric Research
 1997- Ad hoc reviewer Journal of Thoracic and Cardiovascular Surgery
 1998- Ad hoc reviewer Women's Health in Primary Care
 2005- Associate Editor, Congenital Heart Disease

Awards and Honors:

1977 Alpha Omega Alpha
 1983-1984 Janeway Fellowship, Children's Hospital, Boston
 1986 Fellow, American College of Cardiology
 1993 Fellow, Society for Pediatric Research
 1996 The Country's Best Heart Doctors, Good Housekeeping
 1998-2010 The Best Doctors in America, Woodward/White, Inc.
 1998 Children's Hospital Cardiology Fellows Teaching Award
 2005 Fellow, American Society of Echocardiography
 2007 Founder's Award, American Society of Echocardiography
 2010 Boston University School of Medicine Distinguished Alumni Award

Patents, Royalties, and other Intellectual Property

Development and implementation of a PC-based network for classification, transmission and storage of anatomic and function information in congenital heart disease. Incorporated by VMI, Inc. (Ottawa, Canada) into a commercial cardiac database and analysis program via a 10-year royalty agreement with Children's Hospital beginning in 2001. As of 2008, this IP has been licensed by 5 companies.

III. Bibliography

Original Articles

1. Liberthson RR, Colan SD. Multifocal and chaotic atrial rhythm: Report of nine infants, delineation of clinical course and management and review of the literature. *Pediatr Cardiol* 1982; 2: 179-184.
2. Colan SD, Fujii A, Borow KM, MacPherson D, Sanders SP. Noninvasive determination of systolic, diastolic, and end-systolic blood pressure in neonates, infants and young children: comparison with central aortic pressure measurements. *Am J Cardiol* 1983; 52: 867-870.
3. Colan SD, Borow KM, Gamble WJ, Sanders SP. Effects of enhanced afterload (methoxamine) and contractile state (dobutamine) on the left ventricular late-systolic wall stress-dimension relation. *Am J Cardiol* 1983; 52: 1304-1309.
4. Borow KM, Henderson IC, Neumann A, Colan SD, Grady S, Papish S, Goorin A. Assessment of left ventricular contractility in patients receiving doxorubicin. *Ann Intern Med* 1983; 99: 750-756.
5. Colan SD, Borow KM, MacPherson D, Sanders SP. Use of the indirect axillary pulse tracing for noninvasive determination of ejection time, upstroke time, and left ventricular wall stress throughout ejection in infants and young children. *Am J Cardiol* 1984; 53: 1154-1158.
6. Colan SD, Borow KM. Left ventricular end-systolic stress - velocity of circumferential shortening relation: a load independent index of myocardial contractility. *J Am Coll Cardiol* 1984; 4: 715-724.
7. Colan SD. Combined fluid-filled and micromanometer-tip catheter system for high-fidelity pressure recordings in infants. *Cathet Cardiovasc Diagn* 1984; 10: 619-623.
8. Castaneda AR, Norwood WI, Jonas RA, Colan SD, Sanders SP, Lang P. Transposition of the great arteries and intact ventricular septum: anatomical repair in the neonate. *Ann Thorac Surg* 1984; 38: 438-443.
9. Colan SD, Liberthson RR, Cahen L, Shannon DC, Kelly DH. Incidence and significance of primary abnormalities of cardiac rhythm in infants at high risk for sudden death syndrome. *Pediatr Cardiol* 1985; 5: 267-272.

10. Colan SD, Borow KM, Neumann A: Effects of loading conditions and contractile state (methoxamine and dobutamine) on left ventricular early diastolic function in normal subjects. *Am J Cardiol* 1985; 55: 790-796.
11. Burrows FA, Hickey PR, Colan SD. Perioperative complications in patients treated with anthracycline chemotherapeutic agents. *Can Anaesth Soc J* 1985; 32: 149-157.
12. Trowitzsch E, Colan SD, Sanders SP. Two-dimensional echocardiographic estimation of right ventricular area change and ejection fraction in infants with systemic right ventricle (transposition of the great arteries or hypoplastic left heart syndrome). *Am J Cardiol* 1985; 55: 1153-1157.
13. Colan SD, Borow KM. Use of the calibrated carotid pulse tracing for calculation of left ventricular pressure and wall stress throughout ejection. *Am Heart J* 1985; 109: 1306-1310.
14. Fifer MA, Borow KM, Colan SD, Lorell BH. Early diastolic left ventricular function in children and adults with aortic stenosis. *J Am Coll Cardiol* 1985; 5: 1147-1154.
15. Wolfe L, Olivieri N, Sallon D, Colan SD, Rose V, Propper R, Freedman MH, Nathan DG. Prevention of cardiac disease by subcutaneous deferoxamine in patients with thalassemia major. *N Engl J Med* 1985; 312: 1600-1603.
16. Trowitzsch E, Bano-Rodrigo A, Burger BM, Colan SD, Sanders SP. Two-dimensional echocardiographic findings in double-orifice mitral valve. *J Am Coll Cardiol* 1985; 6: 383-387.
17. Trowitzsch E, Colan SD, Sanders SP. Global and regional right ventricular function in normal infants and infants with transposition of the great arteries after Senning operation. *Circulation* 1985; 72: 1008-1014.
18. Trowitzsch E, Colan SD, Sanders SP. Two-dimensional echocardiographic estimation of right ventricular size and function in newborns with severe right ventricular outflow tract obstruction. *J Am Coll Cardiol* 1985; 6: 388-393.
19. Borow KM, Colan SD, Neumann A. Altered left ventricular mechanics in patients with valvular aortic stenosis and coarctation of the aorta: effects on systolic performance and late outcome. *Circulation* 1985; 72: 515-522.
20. Colan SD, Sanders SP, MacPherson D, Borow KM. Left ventricular diastolic function in elite athletes with physiologic cardiac hypertrophy. *J Am Coll Cardiol* 1985; 6: 545-549.
21. Rein AJ, Hsieh KS, Elixson M, Colan SD, Lang P, Sanders SP, Castaneda AR. Cardiac output estimates in the pediatric intensive care unit using a continuous-wave Doppler computer: validation and limitations of the technique. *Am Heart J* 1986; 112: 97-103.
22. Hsieh KS, Sanders SP, Colan SD, MacPherson D, Holland C. Right ventricular systolic time intervals. Comparison of echocardiogram and Doppler-derived values. *Am Heart J* 1986; 112: 103-107.

23. Marino B, Sanders SP, Pasquini L, Giannico S, Parness IA, Colan SD. Two-dimensional echocardiographic anatomy in crisscross heart. *Am J Cardiol* 1986; 58: 325-333.
24. Marino B, Sanders SP, Parness IA, Colan SD. Obstruction of right ventricular inflow and outflow in corrected transposition of the great arteries (S,L,L): two-dimensional echocardiographic diagnosis. *J Am Coll Cardiol* 1986; 8: 407-411.
25. Rein AJ, Colan SD, Parness IA, Sanders SP. Regional and global left ventricular function in infants with anomalous origin of the left coronary artery from the pulmonary trunk: preoperative and postoperative assessment. *Circulation* 1987; 75: 115-123
26. Pasquini L, Sanders SP, Parness IA, Colan SD. Diagnosis of coronary artery anatomy by two-dimensional echocardiography in patients with transposition of the great arteries. *Circulation* 1987;75: 557-564.
27. Colan SD, Sanders SP, Borow KM. Physiologic hypertrophy: effects on left ventricular systolic mechanics in athletes. *J Am Coll Cardiol* 1987; 9: 776-783.
28. Marino B, Sanders SP, Parness IA, Colan SD. Echocardiographic identification of aortic atresia with ventricular septal defect, normal left ventricle and mitral valve. *Am Heart J* 1987; 113: 1521-1523.
29. Colan SD, Sanders SP, Ingelfinger JR, Harmon W. Left ventricular mechanics and contractile state in children and young adults with end-stage renal disease: effect of dialysis and renal transplantation. *J Am Coll Cardiol* 1987; 10: 1085-1094.
30. Rein AJJT, Sanders SP, Colan SD, Parness IA, Epstein M. Left ventricular mechanics in the normal newborn. *Circulation* 1987; 76: 1029- 1036.
31. Lipshultz SE, Sanders SP, Mayer JE, Colan SD, Lock JE. Are routine preoperative cardiac catheterization and angiography necessary before repair of ostium primum atrial septal defect. *J Am Coll Cardiol* 1988; 11: 373-378.
32. Wernovsky G, Hogan TJ, Walsh EP, Sholler GF, Colan SD, Sanders SP, Parness IA, Keane JF, Mayer JE, Jonas RA, Castaneda AR, Lang P. Mid-term results following the arterial switch operation for transposition of the great arteries with intact ventricular septum: clinical, hemodynamic, echocardiographic, and electrophysiologic data. *Circulation* 1988; 77: 1333-1344.
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34. Sholler GF, Colan SD, Sanders SP, Keane JF. Noninvasive estimation of the left ventricular pressure waveform throughout ejection in young patients with aortic stenosis. *J Am Coll Cardiol* 1988; 12: 492-497.

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38. Sanders SP, Parness IA, Colan SD. Recognition of abnormal connections of coronary arteries with the use of color Doppler flow mapping. *J Am Coll Cardiol* 1989; 13: 922-926.
39. Lipshultz SE, Chanock S, Sanders SP, Colan SD, Perez-Atayde A, McIntosh K. Cardiovascular manifestations of human immunodeficiency virus infection in infants and children. *Am J Cardiol* 1989; 63: 1489-1497.
40. Newburger JW, Sanders SP, Burns JC, Parness IA, Beiser AS, Colan SD. Left ventricular contractility and function in Kawasaki syndrome: effect of intravenous gamma-globulin. *Circulation* 1989; 79: 1237-1246.
41. Di Donato RM, Wernovsky G, Walsh EP, Colan SD, Lang P, Wessel DL, Jonas RA, Mayer JE Jr., Castaneda AR. Results of the arterial switch operation for transposition of the great arteries with ventricular septal defect: surgical considerations and mid-term follow-up data. *Circulation* 1989; 80: 1689-1705.
42. Sanders SP, Mayer JE, Wernovsky G, Parness IA, Colan SD. The role of 2-dimensional and Doppler echocardiography in the preoperative evaluation of D-transposition of the great arteries. *Cardiovasc Imag* 1989; 1: 71-77.
43. Sanders SP, Mayer JE, Colan SD, Spevak PJ, Parness IA. Tetralogy of Fallot with pulmonary atresia: The role of 2-dimensional and Doppler echocardiography in the initial evaluation. *Cardiovasc Imag* 1989; 1: 101-106.
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45. Lipshultz SE, Colan SD, Gelber RD, Perez-Atayde AR, Sallan SE, Sanders SP: Late cardiac effects of doxorubicin therapy for acute lymphoblastic leukemia in childhood. *N Engl J Med* 1991; 324: 808-815.
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47. Newburger JW, Takahashi M, Beiser AS, Burns JC, Bastian J, Chung KJ, Colan SD, Duffy CE, Fulton DR, Glode MP, Mason WH, Meissner HC, Rowley AH, Shulman ST, Reddy V, Sundel RP, Wiggins JW, Colton T, Melish ME, Rosen FS. A single intravenous infusion of gamma globulin as compared with four infusions in the treatment of acute Kawasaki syndrome. *N Engl J Med* 1991 324: 1633-1639.
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50. Jenkins KJ, Hanley FL, Colan SD, Mayer JE, Castaneda AR, Wernovsky G. Function of the anatomic pulmonary valve in the systemic circulation. *Circulation* 1991; 84[Suppl III]: III-173-III-179.
51. van der Velde ME, Parness IA, Colan SD, Spevak PJ, Lock JE, Mayer JE, Sanders SP. Two-dimensional echocardiography in the pre- and postoperative management of totally anomalous pulmonary venous connection. *J Am Coll Cardiol* 1991; 18: 1746-1751.
52. Rhodes LA, Colan SD, Perry SB, Jonas RA, Sanders SP. Predictors of survival in neonates with critical aortic stenosis. *Circulation* 1991; 84: 2325-2335.
53. Maguire JF, O'Rourke PP, Colan SD, Geha RS, Crone R. Cardiotoxicity during treatment of severe childhood asthma. *Pediatrics* 1991; 88: 1180-1186.
54. Wong PC, Sanders SP, Jonas RA, Colan SD, Parness IA, Geva T, Van Praagh R, Spevak PJ. Pulmonary valve - moderator band distance and association with development of double-chambered right ventricle. *Am J Cardiol* 1991; 68: 1681-1686.
55. Matitiau A, Geva T, Colan SD, Sluysmans T, Parness IA, Spevak PJ, van der Velde M, Mayer JE, Sanders SP. Bulboventricular foramen size in infants with double inlet left ventricle or tricuspid atresia with transposed great arteries: influence on initial palliative surgery and rate of growth. *J Am Coll Cardiol* 1992; 19: 142-148.
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58. Shapiro F, Sethna N, Colan S, Wohl ME, Specht L. Spinal fusion in Duchenne muscular dystrophy: a multidisciplinary approach. *Muscle Nerve* 1992; 15: 604-614.

59. Aoyagi T, Mirsky I, Flanagan MF, Currier JJ, Colan SD, Fujii AM. Myocardial function in immature and mature sheep with pressure overload hypertrophy. *Am J Physiol* 1992; 262 (Heart Circ Physiol 31): H1036-H1048.
60. Lipshultz SE, Orav EJ, Sanders SP, Hale AR, McIntosh K, Colan SD. Cardiac structure and function in children with human immunodeficiency virus infection treated with zidovudine. *N Engl J Med* 1992; 327: 1260-1265.
61. Lillehei CW, Colan S. Echocardiography in the preoperative evaluation of vascular rings. *J Pediatr Surg* 1992; 27: 1118-1121.
62. Wernovsky G, Giglia TM, Jonas RA, Mone SM, Colan SD, Wessel DL. Course in the intensive care unit following "preparatory" pulmonary artery banding and aortopulmonary shunt placement for transposition of the great arteries with low left ventricular pressure. *Circulation* 1992; 86:Suppl II: 133-139.
63. Sluysmans T, Sanders SP, van der Velde M, Matitiau A, Parness IA, Spevak PJ, Mayer JE Jr, Colan SD. Natural history and patterns of recovery of contractile function in single left ventricle after Fontan operation. *Circulation* 1992; 86: 1753-1761.
64. Aoyagi T, Fujii AM, Colan SD, Flanagan MF, Mirsky I. Different responses of extent of contraction and velocity of contraction to dobutamine. *Am J Physiol (Heart Circ Physiol 32)* 1992; 263: H1250-H1261.
65. Nishimura RA, Pieroni DR, Bierman FZ, Colan SD, Kaufman JW, Sanders SP, Seward JB, Tajik AJ, Wiggins JW, Zahka KG. Second natural history study of congenital heart defects: aortic stenosis: echocardiography. *Circulation* 1993; 87: I66-I72.
66. Nishimura RA, Pieroni DR, Bierman FZ, Colan SD, Kaufman JW, Sanders SP, Seward JB, Tajik AJ, Wiggins JW, Zahka KG. Second natural history study of congenital heart defects: pulmonary stenosis: echocardiography. *Circulation* 1993; 87: I73-I79.
67. Pieroni DR, Nishimura RA, Bierman FZ, Colan SD, Kaufman JW, Sanders SP, Seward JB, Tajik AJ, Wiggins JW, Zahka KG. . Second natural history study of congenital heart defects: ventricular septal defect: echocardiography. *Circulation* 1993; 87: I80-I88.
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69. Pasquini L, Sanders SP, Parness IA, Colan SD, Van Praagh S, Mayer JE Jr, Van Praagh R. Conal anatomy in D-loop transposition of the great arteries with ventricular septal defect: an echocardiographic and pathologic study. *J Am Coll Cardiol* 1993; 21: 1712-1721.
70. Hourihan M, Colan SD, Wernovsky G, Maheswari U, Mayer JE Jr, Sanders SP. Growth of the aortic anastomosis, annulus, and root after the arterial switch procedure performed in infancy. *Circulation* 1993; 88: 615-620.

71. Jenkins KJ, Sanders SP, Orav EJ, Coleman L, Mayer JE Jr, Colan SD. Individual pulmonary vein size and survival in infants with totally anomalous pulmonary venous connection. *J Am Coll Cardiol* 1993; 22: 201-206.
72. Pasquini L, Parness IA, Colan SD, Wernovsky G, Mayer JE, Sanders SP. Diagnosis of intramural coronary artery in transposition of the great arteries using two-dimensional echocardiography. *Circulation* 1993; 88: 1136-1141.
73. Jenkins KJ, Walsh EP, Colan SD, Bergau DM, Saul JP, Lock JE. Multipolar endocardial mapping of the right atrium during cardiac catheterization: description of a new technique. *J Am Coll Cardiol* 1993; 22: 1105-1110.
74. Gentles TL, Colan SD, Giglia T, Mandell VS, Mayer JE Jr, Sanders SP. Right ventricular decompression and left ventricular function in pulmonary atresia with intact ventricular septum: the influence of "less extensive" coronary abnormalities. *Circulation* 1993; 88:II-183 - II-188.
75. Aoyagi T, Fuji AM, Flanagan MF, Arnold LW, Brathwaite KW, Colan SD, Mirsky I. Transition from compensated hypertrophy to intrinsic myocardial dysfunction during development of left ventricular pressure-overload hypertrophy in conscious sheep. Systolic dysfunction precedes diastolic dysfunction. *Circulation* 1993; 88: 2415-2425.
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77. Spevak PJ, Mandell V, Colan SD, van der Velde ME, Jonas RA, Lock JE, Sanders SP. Reliability of color Doppler flow mapping in the identification and localization of multiple ventricular septal defects. *Echocardiography* 1993; 10: 573-581.
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80. Weindling SN, Wernovsky G, Colan SD, Parker A, Boutin C, Mone SM, Costello J, Castaneda A, Treves T. Myocardial perfusion, function, and exercise tolerance after the arterial switch operation. *J Am Coll Cardiol* 1994; 23: 424-433.
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83. Boutin C, Jonas RA, Sanders SP, Wernovsky G, Mone SM, Colan SD. Rapid two-stage arterial switch operation: acquisition of left ventricular mass following pulmonary artery banding in infants with transposition of the great arteries. *Circulation* 1994; 90: 1304-1309.
84. Boutin C, Wernovsky G, Sanders SP, Jonas RA, Castaneda AR, Colan SD. Rapid two-stage arterial switch operation: evaluation of left ventricular systolic mechanics late after acute pressure overload stimulus in infancy. *Circulation* 1994; 90: 1294-1303.
85. Matitiau A, Perez-Atayde A, Sanders SP, Sluysmans T, Parness IA, Spevak PJ, Colan SD. Infantile dilated cardiomyopathy: Relation of outcome to left ventricular mechanics, hemodynamics and histology at the time of presentation. *Circulation* 1994; 90: 1310-1318.
86. Flanagan MF, Aoyagi T, Currier JJ, Colan SD, Fujii AM. Effect of young age on coronary adaptations to left ventricular pressure overload hypertrophy in sheep. *J Am Coll Cardiol* 1994; 24: 1786-1796.
87. Lipshultz SE, Orav EJ, Sanders SP, McIntosh K, Colan SD. Limitations to the use of left ventricular fractional shortening as an index of contractility in HIV-infected children. *J Pediatr* 1994; 125: 563-570.
88. Hornberger LK, Sanders SP, Sahn DJ, Rice MJ, Spevak PJ, Benacerraf BR, McDonald RW, Colan SD. In utero pulmonary artery and aortic growth and the potential for progression of pulmonary outflow tract obstruction in tetralogy of Fallot. *J Am Coll Cardiol* 1995; 25: 739-745.
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93. Lipshultz SE, Orav J, Sanders SP, Colan SD. Immunoglobulins and left ventricular structure and function in pediatric HIV infection. *Circulation* 1995; 92: 2220-2225.

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96. Mone SM, Colan SD, Sanders SP. Control mechanisms for physiologic hypertrophy of pregnancy. *Circulation* 1996; 94: 667-672.
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98. Fishberger SB, Colan SD, Saul JP, Mayer JE Jr, Walsh EP. Myocardial mechanics before and after ablation of chronic tachycardia. *PACE* 1996; 19: 42-49.
99. Triedman JT, Jenkins KJ, Colan SD, Saul JP, Walsh EP. High-density endocardial activation mapping of the right atrium in 3 dimensions by composition of multi-electrode catheter recordings. *J Electrocard* 1996; 29(Suppl):234-40.
100. Holzman RS, van der Velde M, Kaus SJ, Body SC, Colan SD, Sullivan LJ, Soriano SG. Sevoflurane depresses myocardial performance less than halothane during induction of anesthesia in children. *Anesthesiology* 1996; 85:1260-1267.
101. Egito EST, Moore P, O'Sullivan J, Colan SD, Perry SB, Lock JE, Keane JF. Transvascular balloon dilation for neonatal critical aortic stenosis: Early and midterm results. *J Am Coll Cardiol* 1997; 29:442-447.
102. Miller TL, Orav EJ, Colan SD, Lipshultz SE. Nutritional status and cardiac mass and function in children infected with the human immunodeficiency virus. *Am J Clin Nutr* 1997; 66: 660-664.
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Computer Software

1. TGAD: A Pascal and assembly language program for analog-to-digital conversion of physiologic data and automatic computation of derived indices of contractility. Placed in the public domain by S. D. Colan 1985.
2. WF: A Pascal program for the echocardiography laboratory that provides complete scheduling, reporting, analysis, and database functionality. First placed in the public domain by S. D. Colan in 1988 with periodic updates.
3. ZSCORE: A Pascal and assembly language program which calculates normal deviates for a dataset based on a linear or nonlinear model of normative data. Placed in the public domain by S. D. Colan 1990.

Patents

1998 Triedman JK, Jenkins KJ, Colan SD. "System and Method for Endocardial Activation Mapping Using a Multi-Electrode Catheter". U.S. Patent Serial No. 08/713,429.

Intellectual Property Agreements

2000-2010 Intellectual property agreement between VMI, Inc of Ottawa, Ontario, Canada and Boston Children's Hospital for commercialization of software for echocardiographic analysis written by S.D.Colan