

Curriculum Vitae

Part I: General Information

Date Prepared: March 1, 2008

Name: Frank Cecchin, M.D.

Office Address: Children's Hospital Boston, Department of Cardiology
300 Longwood Ave, Boston, MA 02115

Work E-mail: fcecchin@cardio.tch.harvard.edu **Work Fax:** (617) 739-6282

Place of Birth: Born October 23, 1960, New York, New York

Education:

1978-80 State University of New York at Stony Brook, Stony Brook, New York

1980-82 BS East Carolina University, Greenville, North Carolina, BS Honors Biochemistry

1983-1987 MD Brody School of Medicine, East Carolina University, Greenville, North Carolina

Postdoctoral Training:

1987-1991 Residency - Combined Internal Medicine / Pediatrics (4-year program)
Baylor College of Medicine, Houston, Texas

1991-1994 Pediatric Cardiology Fellowship
Baylor College of Medicine, Houston, Texas

1995 Pediatric Electrophysiology Fellowship
Baylor College of Medicine, Houston, Texas

Licensure and Certification:

1991 Board Certified by American Board of Pediatrics

1995-2002 Washington State Medical License

1996 Pediatric Cardiology Subspecialty Board Certification, American Board of Pediatrics

2003 Pediatric Cardiology Subspecialty Board Re-certification, American Board of Pediatrics

1998-2002 Alaska Medical License

2001-Present Massachusetts Medical License

Academic Appointments:

1995-2001 Assistant Professor of Pediatrics, University of Washington School of Medicine

2001 Associate Professor of Pediatrics, University of Washington School of Medicine

2001-2008 Assistant Professor of Pediatrics, Harvard Medical School

2008-Present Associate Professor of Pediatrics, Harvard Medical School

Hospital and Health Care Organization Service Responsibility:

1995-2001 Director of Pediatric Electrophysiology and Pacing Services,
Children's Hospital & Medical Center, Seattle, WA

1996-2001 Director of Exercise Laboratory, Children's Hospital & Medical Center, Seattle, WA

2001-2008 Associate in Cardiology, Children's Hospital Boston, Boston, MA

2008-Present Senior Associate in Cardiology, Children's Hospital Boston, Boston, MA

Frank Cecchin, M.D.

Major Administrative Responsibilities:

2003-Present	Director, Children's Hospital Boston –American Heart Association Heart Walk
2003-Present	Program Director, Congenital Heart Disease Awareness Day, Children's Hospital Boston
2005-Present	Board Member, Boston Heart Foundation
2001-Present	Director, Fellow & Resident Education in Electrophysiology, Children's Hospital Boston-Harvard Medical School

Other Professional Positions and Major Visiting Appointments:

1992-1994	Advisor, Internal Medicine / Pediatrics Residency Program, Baylor College of Medicine, Houston, Texas
1996	Visiting Professor, The WWAMI (Washington, Wyoming, Alaska, Montana, Idaho) Visiting Professor Program, Yakima and Toppenish, Washington
1997	Visiting Professor, The WWAMI Visiting Professor Program, Great Falls, Montana

Major Committee Assignments:

1991	Internal Medicine Committee on Residency Program Certification, Baylor College of Medicine, Houston
1995-1998	Pediatric Cardiology Yearly Symposium, Committee Chairperson, University of Washington, Seattle, WA
2002-Present	Resuscitation Committee, Member, Children's Hospital Boston
2005-Present	Curriculum Committee for Pediatric Cardiology Fellowship, Member, Children's Hospital Boston

Professional Societies:

1980-1982	Phi Kappa Phi Honor Society	Member
1981-1982	Alpha Epsilon Delta Academic Honor Society	Treasurer
1984-1985	American Association of Medical Chairmen	Student Representative
1984-1985	American Diabetes Association, Pitt County Chapter	Board of Directors
1999-2001	King County Medical Society	Member
1999-2001	Washington State Medical Association	Member
2000-2001	Spokane County Medical Society	Member
1986-Present	Alpha Omega Alpha, National Honor Medical Society	Member
1995-Present	Pediatric Electrophysiology Society	Member
1996-Present	American Academy of Pediatrics	Fellow
1997-Present	American Heart Association	Member
1997-Present	American College of Cardiology	Fellow
1998-Present	Heart Rhythm Society	Member
2003-Present	Society for Pediatric Research	Member

Community Service Related to Professional Work:

1984-1986	Chairman, American Diabetes Association, Pitt County Chapter, Public Education Committee
1984-1986	Clinician, North Carolina Youth Diabetes Camp
2001	Medical Director, Project Adam Washington State program to place automatic defibrillators in high schools
2003-2005	Board of Directors, American Heart Association – Boston Affiliate
2003-Present	Chairman, American Heart Association – Boston Affiliate, CDYC Committee

Editorial Duties:

1995-Present	Manuscript Reviewer for <i>Circulation</i> , <i>The American Journal of Cardiology</i> , <i>Archives of Pediatrics and Adolescent Medicine</i> , <i>International Journal of Cardiology</i> , <i>Journal of Cardiovascular Electrophysiology</i> , <i>Journal of the American Medical Association</i> , <i>Heart Rhythm</i> , <i>Pacing and Clinical Electrophysiology</i> , <i>Pediatrics</i>
2003-2006	Abstract Reviewer, American Heart Association Scientific Sessions
2008-Present	Editorial Advisory Board- <i>Indian Pacing and Electrophysiology Journal</i>

Awards and Honors:

1977	Wilhelm R. Frisell Research Award for Medical Students
1981	Undergraduate Research Grant, North Carolina Academy of Science
1980-1982	Academic Merit Scholarship, East Carolina University
1982	Mary C. Helms Award for Research and Scholarship
1989	Texas Pediatric Society Resident Essay Award, <i>Cholesterol Screening in Children</i>
1990	Highest Score Among Texas Physicians for the FLEX Examination
1991	American Board of Pediatrics, Examination score ranked in top 15 percentile
1998	Recipient, <i>Heart of a Child Award</i> , CARE, Cardiac Arrhythmias Research & Education Foundation, Inc.
2000	Finalist, Children's Hospital and Regional Medical Center Family Service Award
2001	Finalist, American Heart Association <i>Hero Award</i>
2001	Finalist, Children's Hospital and Regional Medical Center Family Service Award
2005-Present	Listed in Best Doctors in America

Part III: Bibliography

Original Articles

- 1) Caro JF, Folli F, **Cecchin F**, Sinha MK: Chemical Mediator of Insulin Action Stimulates Lipid Synthesis and Down Regulates the Insulin Receptors in Primary Cultures of Rat Hepatocytes. *Biochemical and Biophysical Research Communications*. 1983;115(1):375-82.
- 2) Caro JF, **Cecchin F**, Sinha MK: Is Glycosylation in the Liver Needed for Insulin Binding, Processing, and Action? Evidence for Heterogeneity. *Journal of Biological Chemistry*. 1984;259(20):12810-6.
- 3) **Cecchin F**, Ittoop O, Sinha MK, Caro JF: Insulin Resistance in Uremia: Insulin Receptor Kinase Activity in Liver and Muscle from Chronic Uremic rats. *American Journal of Physiology*. 1988;254(4 Pt 1):E394-01.
- 4) Caro JF, **Cecchin F**, Folli F, Marchini C, Sinha MK: Effect of T3 on Insulin Action, Insulin Binding, and Insulin Receptor Kinase Activity in Primary Cultures of Rat Hepatocytes. *Hormone and Metabolic Research*. 1988;20(6):327-32.
- 5) Johnsrude CL, Perry JC, **Cecchin F**, O'Brien Smith E, Fraley K, Friedman RA, Towbin JA: Anomalous Left Coronary Artery from the Pulmonary Artery in Infants: Electrocardiographic Discrimination from Myocarditis and Cardiomyopathy. *The American Journal of Cardiology*. 1995;75:71-4.
- 6) Johnsrude CL, Towbin JA, **Cecchin F**, Perry JC: Postinfarction Ventricular Arrhythmias in Children. *American Heart Journal*. 1995;129:1171-7.
- 7) Fisher DJ, Geva T, Feltes TF, **Cecchin F**, Nihill MR, Grifka R, Real G, Ott D: A Protocol for the Lifelong Management of Patients with a Single Functional Ventricle. *Texas Heart Institute Journal*. 1995;22(4):284-95.
- 8) **Cecchin F**, Johnsrude CL, Perry JC, Friedman RA: Effect of Age and Surgical Technique on Symptomatic Arrhythmias after the Fontan Procedure. *The American Journal of Cardiology*. 1995;76:386-91.
- 9) Fenrich AL, Friedman RF, **Cecchin F**, Kearney D: Left-sided Atrioventricular Nodal Ablation Using the Transseptal Approach: Clinico-Histopathological Correlation. *Journal of Cardiovascular Electrophysiology*. 1998;9:757-60.
- 10) Lupinetti FM, Duncan BW, Scifres AM, Fearneyhough CT, Killian K, Rosenthal GL, **Cecchin F**, Jones TK, Herndon SP: Intermediate-term Results in Pediatric Aortic Valve Replacement. *Annals of Thoracic Surgery*. 1999;68(2):521-5.

Frank Cecchin, M.D.

- 11) Stefanelli CB, Stevenson JG, Jones TK, Lester JR, **Cecchin F**: A Case for Routine Screening of Coronary Artery Origins During Echocardiography: Fortuitous Discovery of a Life Threatening Coronary Anomaly. *Journal of the American Society of Echocardiography*. 1999;12(9):769-72.
- 12) Huang TC, **Cecchin F**, Mahoney P, Portman M: QTc Prolongation and Syncope Associated with Pseudohypoparathyroidism and Hypocalcemia. *The Journal of Pediatrics*. 2000;136:404-7.
- 13) Starnes SL, Duncan BW, Kneebone JM, Rosenthal GL, Jones TK, Grifka RG, **Cecchin F**, Owens DJ, Fearneyhough C, Luinetti FM: Vascular Endothelial Growth Factor and Basic Fibroblast Growth Factor in Children with Cyanotic Congenital Heart Disease. *The Journal of Thoracic and Cardiovascular Surgery*. 2000;119(3):534-9.
- 14) Harris JP, **Cecchin F**, Perry JC. Infantile chaotic atrial tachycardia: Association with viral infections. *Annals of Non-invasive Electrocardiology*: 2000;5(3):279-83.
- 15) Schaffer MS, Gow, RM, Moak, JP, Saul JP, **Participating members of the Pediatric Electrophysiology Society**. Mortality following radiofrequency catheter ablation (from the Pediatric Radiofrequency Ablation Registry) *American Journal of Cardiology* 2000 Sep 15;86(6):639-43.
- 16) Davis JA, **Cecchin F**, Jones TK, Portman MA: Major coronary artery anomalies in a normal pediatric population: Incidence and clinical importance. *Journal of the American College of Cardiology*: 2001;37(2):593-7.
- 17) Moak JP, Barron KS, Hougen TJ, Wiles HB, Balaji S, Narayanswami S, Cohen MH, Nordenberg A, VanHare GF, Friedman RA, Perez M, **Cecchin F**, Schneider DS, Nehgme RA, Buyon JP. Congenital heart block: Development of late-onset cardiomyopathy, a previously underappreciated sequela. *Journal of the American College of Cardiology*. 2001 Jan;37(1):238-42.
- 18) Shah M, Garrote M, Garabedian H, **Cecchin F**. Catheter ablation of a right atrial to right ventricular connection in a neonate. *Pacing & Clinical Electrophysiology*. 2001;Sep 24(9 Pt 1):1427-9.
- 19) **Cecchin F**, Jorgenson D, Berul I, Perry JC, Zimmerman AA, Duncan BW, Lupinetti FM, Snyder D, Lyster TD, Rosenthal GL, Atkins D. Accuracy of automatic external defibrillator arrhythmia analysis algorithm in children. *Circulation*. 2001;103:2483-8.
- 20) Van Hare GF, Chiesa NA, Campbell RM, Kanter RJ, **Cecchin F**, for the Pediatric Electrophysiology Society. Atrioventricular node reentrant tachycardia in children: effect of slow pathway ablation on fast pathway function. *J Cardiovasc Electrophysiol*. 2002;13:203-9.
- 21) Stephenson EA, Collins KK, Dubin AM, Epstein MR, Hamilton RM, Kertesz NJ, Alexander ME, **Cecchin F**, Triedman JK, Walsh EP, and Berul CI. Circadian and Seasonal Variation of Malignant Arrhythmias in a Pediatric and Congenital Heart Disease Population. *J Cardiovasc Electrophysiol*. 2002; 13:1009-14.
- 22) Alexander ME, **Cecchin F**, Walsh EP, Triedman JK, Bevilacqua LM, Berul CI. Implications of ICD therapy in congenital heart disease and pediatrics. *J Cardiovasc Electrophysiol*. 2004; Jan;15(1):72-6.
- 23) Khairy P, Seslar SP, Triedman JK, **Cecchin F**. Ablation of AV node reentrant tachycardia in tricuspid atresia. *J Cardiovasc Electrophysiol*. 2004; Jun;15(6):719-22.
- 24) Fortescue EB, Berul CI, **Cecchin F**, Walsh EP, Triedman JK, Alexander ME. Patient, Procedural, and Hardware Factors Associated with Pacemaker Lead Failures in Pediatrics and Congenital Heart Disease. *Heart Rhythm*. 2004; Jul;1(2):150-9.
- 25) Stephenson EA, **Cecchin F**, Alexander ME, Triedman JK, Walsh EP, Berul CI. Relation of Right Ventricular Pacing in Tetralogy of Fallot to Electrical Resynchronization. *Amer J Cardiol* 2004; 93:1449-52.
- 26) Elwood T, **Cecchin F**, Low JL, Bradford JM, Goldstein B. Preoperative Heart Rate Variability and Adverse Events in Children Emerging from Anesthesia. *Pediatric Critical Care Medicine* 2005; Jan;6(1):54-7.

- 27) Shah M, Jones TK, **Cecchin F**. Improved localization of right-sided accessory pathways with microcatheter assisted right coronary artery mapping in children. *J Cardiovasc Electrophysiol* 2004; Nov;15(11):1238-43.
- 28) Stephenson EA, **Cecchin F**, Walsh EP, Berul CI The Utility of Routine Follow-up Defibrillator Threshold Testing in the Congenital Heart Disease and Pediatric Population. *J Cardiovasc Electrophysiol* 2005; Jan;16(1):69-73.
- 29) Morwood JG, Triedman JK, Berul CI, Khairy P, Alexander ME, **Cecchin F**, Walsh EP Radiofrequency catheter ablation of ventricular tachycardia in children and young adults with congenital heart disease. *Heart Rhythm*. 2004; Sep;1(3):301-8.
- 30) Khairy P, Triedman JK, Jurasek A, **Cecchin F**. Inability to cannulate the coronary sinus in patients with supraventricular arrhythmias: congenital and acquired coronary sinus atresia. *J Interv Card Electrophysiol* 2005; Mar;12(2):123-7.
- 31) Triedman JK, DeLucca JM, Alexander ME, Berul CI, **Cecchin F**, Walsh EP. Prospective trial of electroanatomically guided, irrigated catheter ablation of atrial tachycardia in patients with congenital heart disease. *Heart Rhythm* 2005 Jul;2(7):700-5.
- 32) Bar-Cohen Y, Walsh EP, Love BA, **Cecchin F**. First appropriate use of automated external defibrillator in an infant. *Resuscitation* 2005 Oct;67(1):135-7.
- 33) Fortescue EB, Berul CI, **Cecchin F**, Walsh EP, Triedman JK, Alexander ME. Comparison of modern steroid-eluting epicardial and thin transvenous pacemaker leads in pediatric and congenital heart disease patients. *J Interv Card Electrophysiol* 2005 Oct;14(1):27-36.
- 34) Dubin AM, Janousek J, Rhee E, Strieper MJ, **Cecchin F**, Law IH, Shannon KM, Temple J, Rosenthal E, Zimmerman FJ, Davis A, Karpawich PP, Al Ahmad A, Vetter VL, Kertesz NJ, Shah M, Snyder C, Stephenson E, Emmel M, Sanatani S, Kanter R, Batra A, Collins KK. Resynchronization therapy in pediatric and congenital heart disease patients: an international multicenter study. *J Am Coll Cardiol* 2005 Dec 20;46(12):2277-83.
- 35) Stephenson EA, Batra AS, Knilans TK, Gow RM, Gradaus R, Balaji S, Dubin AE, Rhee EK, Ro PS, Thogerson AM, **Cecchin F**, Triedman JK, Walsh EP, Berul CI. A multicenter experience with novel Implantable cardioverter defibrillator configurations in the pediatric and congenital heart disease population. *J Cardiovasc Electrophysiol* 2006 Jan;17:41-46.
- 36) Seslar SP, Berul CI, Burklow TR, **Cecchin F**, Alexander ME. Transient Prolonged Corrected QT interval in Lyme Disease. *J Pediatrics* 2006 May;148(5):692-7.
- 37) Bar-Cohen Y, Berul CI, Alexander ME, Fortescue EB, Walsh EP, Triedman JK, **Cecchin F**. Age, Size and Lead Factors Alone do not Predict Venous Obstruction in Children and Young Adults with Transvenous Lead Systems. *J Cardiovasc Electrophysiol* 2006 Jul;17(7):754-9.
- 38) Bar-Cohen Y, Khairy P, Morwood J, Alexander ME, **Cecchin F** Berul CI. Inaccuracy of Wolff-Parkinson-White Accessory Pathway Localization Algorithms in Children and Patients with Congenital Heart Defects. *J Cardiovasc Electrophysiol* 2006 Jul;17(7):712-6.
- 39) Seslar SP, Alexander ME, Berul CI, **Cecchin F**, Walsh EP, Triedman JK. Ablation of nonautomatic focal atrial tachycardia in children and adults with congenital heart disease. *J Cardiovasc Electrophysiol*. 2006 Apr;17(4):359-65.
- 40) Bar-Cohen Y, **Cecchin F**, Alexander ME, Berul CI, Triedman JK, Walsh EP. Cryoablation for accessory pathways located near normal conduction tissues or within the coronary venous system in children and young adults. *Heart Rhythm*. 2006 Mar;3(3):253-8.
- 41) Alexander ME, **Cecchin F**, Huang KP, Berul CI. Microvolt t-wave alternans with exercise in pediatrics and congenital heart disease: limitations and predictive value. *Pacing Clin Electrophysiol*. 2006 Jul;29(7):733-41.

- 42) Bautista-Hernandez V, Marx GR, Gauvreau K, Mayer JE Jr, **Cecchin F**, del Nido PJ. Determinants of left ventricular dysfunction after anatomic repair of congenitally corrected transposition of the great arteries. *Ann Thorac Surg*. 2006 Dec;82(6):2059-65.
- 43) Berul CI, Villafane J, Atkins DL, **Cecchin F**, Kirsh, JA, Johns JA, Kanter RJ, Karpawich PP. Pacemaker Lead Prolapse through the Pulmonary Valve in Children. *Pacing Clin Electrophysiol*. 2007 Oct;30(10):1183-9.
- 44) Moniotte S, Triedman JK, **Cecchin F**. Successful Cryoablation of Ventricular Tachycardia Arising from the Proximal Right Bundle Branch in a Child. *Heart Rhythm*. 2008 Jan;5(1):142-144.
- 45) Webster G, Margossian R, Alexander ME, **Cecchin F**, Triedman JK, Walsh EP, Berul CI. Impact of Transvenous Ventricular Pacing Leads on Tricuspid Regurgitation in Pediatric and Congenital Heart Disease Patients. *J Interv Card Electrophysiol*. 2008 Jan;21(1):65-68.
- 46) Khairy P, Harris L, Landzberg, MJ, Viswanathan S, Barlow A, Gatzoulis MA, Fernandes SM, Beauchesne L, Therrien LJ, Chetaille, P, Gordon P, Muhl IV, **Cecchin F**. Implantable Cardioverter-defibrillators in Tetralogy of Fallot. *Circulation*. 2008 Jan 22;117(3):363-70.
- 47) Frangini P, **Cecchin F**, Jordao L, Martuscello M, Alexander ME, Triedman JK, Walsh EP, Berul CI. How Revealing are Insertable Loop Recorders in Children? *Pacing Clin Electrophysiol*. 2008 Mar;31(10):338-43.
- 48) Mong S, Pomeroy SL, **Cecchin F**, Juraszek A, Alexander ME. Cardiac Risk After Craniopharyngioma Therapy. *Pediatric Neurology*. 2008 Apr;38(4):256-60.
- 49) Jolley M, Stinstra J, Pieper S, MacLeod R, Brooks DH, **Cecchin F**, Triedman JK, A Computer Modeling Tool for Comparing Novel ICD Electrode Orientations in Children and Adults. *Heart Rhythm*. 2008 Apr;5(4):545-50.
- 50) Webster G, Jordao L, Martuscello M, Mahajan M, Alexander ME, **Cecchin F**, Triedman JK, Walsh EP, Berul CI. Digital Music Players cause Interference with Interrogation Telemetry for Pacemakers and Implantable Cardioverter-Defibrillators without affecting Device Function. *Heart Rhythm*. 2008 Apr;5(4):565-72..
- 51) Berul CI, Van Hare GF, Kertesz NJ, Dubin AM, **Cecchin F**, Collins KK, Cannon BC, Alexander ME, Triedman JK, Walsh EP, Friedman RA. Results of a multicenter retrospective implantable cardioverter-defibrillator registry of pediatric and congenital heart disease patients. *J Am Coll Cardiol*. 2008 Apr 29;51(17):1685-91.
- 52) Miyake CY, **Cecchin F**, Walsh EP, Berul CI. Ectopic Atrial Rhythm is a Preablation Predictor of Atrioventricular Nodal Reentrant Tachycardia in Children. *Pediatr Cardiol*. 2008 Jun 28.
- 53) **Cecchin F**, Frangini PA, Brown DW, Fynn-Thompson F, Alexander ME, Triedman, JK, Gauvreau K, Walsh EP, Berul CI. Cardiac Resynchronization Therapy (and Multisite Pacing) in Pediatrics and Congenital Heart Disease: Five Years Experience in a Single Institution. *J Cardiovasc Electrophysiol*. In Press.

Reviews, Chapters, and Editorials:

Feigin RD, **Cecchin F**: Kawasaki Disease. Principles and Practice of Pediatrics. 2nd Ed. Oski FA, DeAngelis CD, Feigin RD, McMillan JA, Warshaw JB (editors). Philadelphia: J. B. Lippincott Company. 1994:1422.

Feigin RD, **Cecchin F**: Kawasaki Disease. Principles and Practice of Pediatrics. 3rd Ed. Oski FA, DeAngelis CD, Feigin RD, McMillan JA, Warshaw JB (editors). Philadelphia: J. B. Lippincott Company. 1998.

Frank Cecchin, M.D.

Berul CI, **Cecchin F**. Indications and Techniques of Pediatric Cardiac Pacing. *Expert Review of Cardiovascular Therapy* 2003; 1(2):165-76.

Walsh EP, **Cecchin F**. Recent Advances in Pacemaker and Implantable Defibrillator Therapy for Young Patients. *Current Opinion in Cardiology*. 2004;19:91-6.

Feigin RD, **Cecchin F**, Wissman SD. Kawasaki Disease. Principles and Practice of Pediatrics. 4th Ed. Oski FA, DeAngelis CD, Feigin RD, McMillan JA, Warshaw JB (editors). Philadelphia: J. B. Lippincott Company. 2006.

Walsh EP, Alexander ME, **Cecchin F**. Pediatric Cardiology. Electrocardiography and Introduction to Electrophysiologic Techniques. 4th Ed. Fyler D, Keane B (editors) Philadelphia: Philadelphia : Hanley & Belfus. 2006.

Walsh EP, **Cecchin F**. Arrhythmias in Adults with Congenital Heart Disease. *Circulation*. 2007 Jan 30;115(4):534-45.

Clinical Communications:

Ablation of Idiopathic Ventricular Tachycardia using a Microcatheter.1998 Case description commissioned by Cardima, Inc to demonstrate a unique use of microcatheter technology.

Other Published Material

Cecchin F: Heart Attacks: When Time is Muscle. *Heart to Heart*. 1989;2(4). (A nationally distributed magazine for patients, sponsored by Parke-Davis.)

Published Book Review. The Science and Practice of Pediatric Cardiology, Arthur Garson MD, Timothy Bricker MD, David Fisher MD, Michael Neish MD Nov 1998.

Published Book Review. Current Concepts in Diagnosis and Management of Arrhythmias in Infants and Children. Barbara Deal MD, Grace Wolff MD, Henry Gelband MD April 1998

Published Book Review. Clinical Pediatric Arrhythmias, Paul Gillette MD, Arthur Garson MD Oct 1999.

Cecchin F. Promise/Proof. 2003. Review of pediatric resuscitation energy protocols in a brochure for physicians. Sponsored by Phillips Medical Systems.