

John K. Triedman, M.D.

Curriculum Vitae

Updated: 17 July 2008

I. General information

Office Address: Department of Cardiology
Children's Hospital, Boston
300 Longwood Ave.
Boston, MA 02115
(617) 355-6432 (office)
(617) 566-5671 (fax)

E-mail: john.triedman@cardio.chboston.org (work)
triedman@yahoo.com (webmail)

Date of birth: 26 January 1958

Place of birth: Boston, MA

Education:

1980 B.A. Harvard College, Cambridge, MA
1986 M.D. Harvard Medical School, Boston, MA

Postdoctoral training:

Internships and Residencies-

1986 - 1987 Intern in Pediatrics, Children's Hospital, Boston
1987 - 1989 Resident in Pediatrics, Children's Hospital, Boston

Clinical Fellowships-

1988 - 1990 Clinical Fellow, Department of Cardiology, Children's Hospital, Boston
1991 Chief Fellow, Department of Cardiology, Children's Hospital, Boston

Licensure/Certification:

1989 Massachusetts General Licensure, No. 70701
1989 Certification, American Board of Pediatrics (recertified 1999)
1992 Certification, American Board of Pediatrics, Sub-board in Pediatric Cardiology (recertified 1999, 2006)
2006 Rhode Island General Licensure, No. MD12260
2007 Testamur, IBHRE/NASPEExam for Special Competency in Pacing and Defibrillation - Physician

Academic appointments:

1988 - 1992 Clinical Fellow in Pediatrics, Children's Hospital, Boston
1992 - 1995 Instructor in Pediatrics, Harvard Medical School, Boston
1994 - 1996 Visiting Scientist, Massachusetts Institute of Technology, Cambridge
1995 - 2002 Assistant Professor of Pediatrics, Harvard Medical School, Boston
2002 - Associate Professor of Pediatrics, Harvard Medical School, Boston

Hospital appointments:

1992 - Associate Physician, Brigham and Women's Hospital, Boston
1992 - 1995 Assistant in Cardiology, Children's Hospital, Boston
1995 - 2002 Associate in Cardiology, Children's Hospital, Boston
2002 - Senior Associate in Cardiology, Children's Hospital, Boston
2004 - Associate Physician, Beth Israel Deaconess Medical Center, Boston
2007 - Staff Physician, Rhode Island Hospital, Providence

Professional societies:

1988 - American College of Cardiology (Fellow, 1995)
1993 - American Heart Association, Councils on Basic Science/Circulation
1995 - North American Society of Pacing and Electrophysiology/Heart Rhythm Society (Fellow, 2006)
1997 - Pediatric and Congenital Electrophysiology Society (Executive Committee, 1999 – 2009, President 2005 - 2007)
1998 - Institute of Electrical and Electronics Engineers
2001 - Society for Pediatric Research

Major Administrative Responsibilities:

1992 - 1996 Coordinator, Senior Clinical Fellowship Program, Dept. of Cardiology, Children's Hospital, Boston
1997 - Medical Director, Cardiology Information Services Children's Hospital, Boston
1997 - 1998 Board Member, Boston Children's Heart Foundation
2002 - 2006 Acting Chief, Cardiac Catheterization Laboratories, Children's Hospital, Boston

Major Committee Assignments:

1998 - 2000 Information Technology Evaluation Committee, Children's Hospital
1998 - 2001 Chairman, Information Technology Resource Allocation Committee, Children's Hospital
1999 - 2003 Medical Director, Cardiovascular Information Service
2007 Volunteer member, Cardiovascular Work Group, CCHIT
2008 - Publications Committee, Heart Rhythm Society

Editorial Activities:

Editorial board
2002 - Journal of Cardiovascular Electrophysiology
2003 – 2007 Heart Rhythm
Ad hoc reviewer
1994 - American Heart Journal
American Journal of Cardiology
American Journal of Physiology
Circulation
European Heart Journal
Heart Rhythm
Journal of the American College of Cardiology
Journal of Cardiovascular Electrophysiology (through 2001)
Journal of Interventional Cardiac Electrophysiology
Journal of Pediatrics
Journal of Thoracic and Cardiovascular Surgery
Pacing and Clinical Electrophysiology

Awards and Honors:

1980 Magna cum laude, Harvard College
1980 Phi Beta Kappa, Harvard College
1993 Young Investigator Award Finalist, American College of Cardiology,
for "Blood pressure modulation by central venous pressure and
respiration: buffering effects of the heart rate reflexes"

III. Bibliography:

Original reports-

1. London ML, Ho J, **Triedman JK**, Verrier ED, Levin J, Merrick SH, Hanley FL, Browner WS, Mangano DT. A randomized trial of pentastarch (hydroxyethyl starch) vs albumin for volume expansion following cardiac operations. *J Thor Cardiovasc Surg* 97:785-97, 1989.
2. **Triedman JK**, Saul JP, Cohen RJ. Mild hemodynamic stress alters autonomic modulation of heart rate. *Hypertension* 21:236-47, 1993.
3. **Triedman JK**, Bridges ND, Mayer JE, Lock JE. Prevalence and risk factors for aortopulmonary collaterals after Fontan and bidirectional Glenn procedure. *J Am Coll Cardiol* 22:207-215, 1993.

4. **Triedman JK**, Saul JP. Comparison of intraarterial with continuous noninvasive blood pressure measurement in postoperative pediatric patients. *J Clin Monit* 10:11-20, 1994.
5. **Triedman JK**, Saul JP. Blood pressure modulation by central venous pressure and respiration: buffering effects of the heart rate reflexes. *Circulation* 89:169-180, 1994.
6. Weindling SN, Saul JP, **Triedman JK**, Burke RP, Jonas RA, Gamble WJ, Walsh EP. Staged pacing therapy for congenital complete heart block in premature infants. *Am J Cardiol* 74:412-413, 1994.
7. Erickson CC, Walsh EP, **Triedman JK**, Saul JP. Efficacy and safety of radiofrequency ablation in infants <18 months of age. *Am J Cardiol* 74:944-947, 1994.
8. Barbieri R, Di Virgilio V, **Triedman JK**, Bianchi AM, Cerutti S, Saul JP. Continuous quantification of respiratory and baroreflex control of heart rate: use of time-variant bivariate spectral analysis. *Computers in Cardiol* 21:765-768, 1994.
9. Rhodes LA, Walsh EP, Gamble W, **Triedman JK**, Saul JP. Benefits and potential risks of atrial anti-tachycardia pacing after repair of congenital heart disease. *PACE* 19:1005-1016, 1995.
10. **Triedman JK**, Saul JP, Weindling SN, Walsh EP. Radiofrequency ablation of intraatrial reentrant tachycardia following surgical palliation of congenital heart disease. *Circulation*, 91:707-714, 1995.
11. **Triedman JK**, Perrott MH, Cohen RJ, Saul JP. Respiratory sinus arrhythmia: time domain characterization using autoregressive moving average analysis. *Am J Physiol*, 268:H2232-H2238, 1995.
12. Fishberger SB, Saul JP, **Triedman JK**, Epstein MR, Walsh EP: Use of adenosine-sensitive nondecremental accessory pathways in assessing the results of radiofrequency catheter ablation. *Am J Cardiol*, 75:1278-1281, 1995.
13. Patton DJ, **Triedman JK**, Perrott MH, Vidian AA, Saul JP. Baroreflex gain: characterization using autoregressive moving average analysis. *Am J Physiol*, in press, 270:H1240-H1249, 1996.
14. **Triedman JK**, Walsh EP, Saul JP. Response of fetal tachycardia to transplacental procainamide therapy. *Cardiol in the Young*, 6:235-238, 1996.
15. Epstein MR, Knapp LD, Martindill M, Lulu JA, **Triedman JK**, Calkins H, Huang SKS, Walsh EP, Saul JP, for the Atakr Investigator Group. Embolic complications associated with radiofrequency catheter ablation. *Am J Cardiol*, 77:655-658, 1996.

16. Barbieri R, Waldmann RA, Di Virgilio V, **Triedman JK**, Bianchi AM, Cerutti S, Saul JP. Continuous quantification of baroreflex and respiratory control of heart rate by use of bivariate autoregressive techniques. *Ann Noninvas Electrocardiol*, 1:264-277, 1996.
17. Perry JC, Fenrich AL, Hulse JE, **Triedman JK**, Friedman RA, Lamberti JJ. Pediatric use of intravenous amiodarone: efficacy and safety in critically ill patients from a multicenter protocol. *J Am Coll Cardiol*, 27:1246-1256, 1996.
18. Cote JM, Epstein MR, **Triedman JK**, Walsh EP, Saul JP. Low temperature mapping predicts site of successful ablation while minimizing myocardial damage. *Circulation*, 94:253-257, 1996.
19. **Triedman JK**, KJ Jenkins, SD Colan, JP Saul, EP Walsh. High-density endocardial activation mapping of the right atrium in three dimensions by composition of multi-electrode catheter recordings. *J. Electrocardiol.*, 29(suppl):234-240, 1996.
20. **Triedman JK**, Jenkins KJ, Colan SD, Van Praagh R, Lock JE, Walsh EP. Multipolar endocardial mapping of the right heart using a basket catheter: acute and chronic animal studies. *PACE*, 20[Pt 1]:51-59, 1997.
21. Laohaprasitiporn D, Walsh EP, Saul JP, **Triedman JK**. Predictors of permanence of successful radiofrequency lesions created with controlled catheter-tip temperature. *PACE*, 20[Pt 1]:1283-91, 1997.
22. **Triedman JK**, KJ Jenkins, SD Colan, JP Saul, Walsh EP. Intraatrial reentrant tachycardia after palliation of congenital heart disease: characterization of multiple macroreentrant circuits using fluoroscopically-based 3-D endocardial mapping. *J Cardiovasc Electrophysiol*, 8:259-270, 1997.
23. Walsh EP, Saul JP, Sholler GF, **Triedman JK**, Jonas RA, Mayer JE, Wessel DL. Evaluation of a staged treatment protocol for rapid automatic junctional tachycardia after operation for congenital heart disease. *J Am Coll Cardiol*, 29:1046-1053, 1997.
24. Epstein MR, Saul JP, Fishberger SB, **Triedman JK**, Walsh EP. Spontaneous automatic junctional rhythm: an unusual but useful observation prior to radiofrequency catheter ablation for atrioventricular node reentrant tachycardia in young patients. *PACE*, 20:1654-1661, 1997.
25. Saul JP, **Triedman JK**. RF ablation of intraatrial reentrant tachycardia after surgery for congenital heart disease. *PACE*, 20:2112-2117, 1997.

26. **Triedman JK**, Bergau DM, Saul JP, Epstein MR, Walsh EP. Efficacy of radiofrequency ablation for control of intraatrial reentrant tachycardia in patients with congenital heart disease. *J Am Coll Cardiology*, 30:1032-1038, 1997.
25. Tanel RE, **Triedman JK**, Walsh EP, Epstein MR, DeLucca JM, Mayer JE, Fishberger SB, Saul JP. High rate atrial pacing as an innovative bridging therapy in a neonate with congenital long QT syndrome. *J Cardiovasc Electrophysiol*, 8:821-817, 1997.
26. Tanel RE, Walsh EP, **Triedman JK**, Epstein MR, Bergau DM, Saul JP. A five-year experience with radiofrequency catheter ablation: implications for arrhythmia management in the pediatric and young adult patient. *J Peds*, 131:878-887, 1997.
27. Barbieri R, Bianchi AM, **Triedman JK**, Mainardi LT, Cerutti S, Saul JP. Model dependency of multivariate autoregressive spectral analysis: hemodynamic control during manipulation of autonomic state. *IEEE Engin Med Biol*, 16:74-85, 1997.
30. Epstein MR. Walsh EP. Saul JP. **Triedman JK**. Mayer JE Jr. Gamble WJ. Long-term performance of bipolar epicardial atrial pacing using an active fixation bipolar endocardial lead. *PACE*. 21:1098-1104, 1998.
31. Alexander ME, Walsh EP, Saul JP, Epstein MR, **Triedman JK**. Value of programmed ventricular stimulation in patients with congenital heart disease. *J Cardiovasc Electrophysiol* 10:1033-1044, 1999.
32. Zupancic JAF, **Triedman JK**, Alexander M, Walsh EP, Richardson DK, Berul CI. Cost-effectiveness and implications of newborn screening for prolongation of qt interval for the prevention of sudden infant death syndrome. *J. Peds*. 136:481-489, 2000
33. Perry YY, **Triedman JK**, Gauvreau K, Lock JE, Jenkins KJ. Sudden death in patients after transcatheter device implantation. *Am. J. Cardiol*. 85:992-995, 2000
34. Gehrman J, Hammer PE, Maguire CT, **Triedman JK**, Berul CI. Phenotypic screening for heart rate variability in the mouse. *Am. J. Physiol*, 279:H733-H740, 2000
35. Bevilacqua L, Rhee E, Epstein MR, **Triedman JK**. Focal ablation of chaotic atrial rhythm in an infant with cardiomyopathy. *J. Cardiovasc Electrophysiol.*, 11:577-581, 2000
36. Collins KK, Love BA, Walsh EP, Saul JP, Epstein MR, **Triedman JK**. Location of acutely successful radiofrequency catheter ablation in patients with congenital heart disease and intraatrial reentrant tachycardia. *Am. J. Cardiol.*, 86:969-974, 2000
37. **Triedman JK**, Alexander ME, Berul CI, Bevilacqua LM, Walsh EP. Estimation of the atrial response to entrainment pacing using electrograms recorded from remote sites. *J. Cardiovasc. Electrophysiol.*, 11:1215-1222, 2000

38. Stamm C, Friehs I, Mayer JE, Zurakowski D, **Triedman JK**, Walsh EP, Lock JE, Jonas RA, del Nido PJ. Long-term results of the lateral tunnel Fontan operation. *J Thorac. Cardiovasc. Surg.*, 121:28-41, 2001.
39. Love BA, Collins KK, Walsh EP, **Triedman JK**. Electroanatomic characterization of conduction barriers in sinus/atrially paced rhythm and association with intra-atrial reentrant tachycardia circuits following congenital heart surgery. *J. Cardiovasc. Electrophysiol.*, 12:17-25, 2001
40. Delacretaz E, Ganz LI, Soejima K, Friedman PL, Walsh EP, **Triedman JK**, Sloss LJ, Landzberg MJ, Stevenson WG. Multiple atrial macroreentry circuits in adults with repaired congenital heart disease: entrainment mapping combined with three-dimensional electroanatomic mapping. *J. Am. Coll. Cardiol.*, 37:1665-1676, 2001.
41. **Triedman JK**, Alexander ME, Berul CI, Bevilacqua LM, Walsh EP. Electroanatomical mapping of entrained and exit zones in patients with repaired congenital heart disease and intraatrial reentrant tachycardia. *Circulation*, 103:2060-2065, 2001.
42. Rosales AM, Walsh EP, Wessel D, **Triedman JK**. Postoperative ectopic atrial tachycardia in children with congenital heart disease. *Am. J. Cardiol.*, 88:1169-1172, 2001.
43. Love BA, Barrett K, **Triedman JK**, Walsh EP, Berul CI. Supraventricular tachycardia in children and young adults with implantable defibrillators. *J. Cardiovasc. Electrophysiol.* 12:1097-1101, 2001
44. Wakimoto H, Maguire CT, Kover P, Hammer PE, Gehrman J, **Triedman JK**, Berul CI. Induction of atrial tachycardia and fibrillation in the mouse heart. *Cardiovascular Res.* 50:463-473, 2001.
45. Berul CI, **Triedman JK**, Forbess J, Bevilacqua L, Alexander ME, Dahlby D, Gilkerson JO, Walsh EP. Minimally invasive cardioverter defibrillator implantation for children: an animal model and pediatric case report. *PACE*, 24:1789-1794, 2001.
46. **Triedman JK**, Alexander ME, Love BA, Collins KK, Berul CI, Bevilacqua LM, Walsh EP. Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial reentrant tachycardia in congenital heart disease patients. *J. Am. Coll. Cardiol.*, 39:1827-1835, 2002.
47. Barbieri R, **Triedman JK**, Saul JP. Heart rate control and mechanical cardiopulmonary coupling to assess central volume status: A systems analysis approach. *Am. J. Physiol. Regul. Integr. Comp. Physiol.*, 283:R1210-R1220, 2002.

48. Kirsh JA, Walsh EP, **Triedman JK**. Prevalence of and risk factors for atrial fibrillation and intraatrial reentrant tachycardia among patients with congenital heart disease. *Am. J. Cardiol.*, 90:40-43, 2002.
49. Stephenson EA, Collins KK, Dubin AM, Epstein MR, Hamilton RM, Kertesz NJ, Alexander ME, Cecchin F, **Triedman JK**, Walsh EP, Berul CI. Circadian and seasonal variation of malignant arrhythmias in a pediatric and congenital heart disease population. *J. Cardiovasc. Electrophysiol.*, 13:1009-1014, 2002.
50. Hammer PE, Brooks DH, **Triedman JK**. Estimation of entrainment response using electrograms from remote sites: validation in animal and computer models of reentrant tachycardia. *J. Cardiovasc. Electrophysiol.*, 14:52-61, 2003.
51. Fitzgerald TN, Rhee E, Brooks DH, **Triedman JK**. Estimation of cardiac conduction velocities using small data sets. *Ann. Biomed. Engin.*, 31:250-261, 2003.
52. Mandapati R, Walsh EP, **Triedman JK**. Pericaval and periannular intraatrial reentrant tachycardias among patients with congenital heart disease. *J. Cardiovasc. Electrophysiol.*, 14:119-125, 2003.
53. Mandapati R, Alexander ME, Bevilacqua LM, **Triedman JK**, Walsh EP. Radiofrequency ablation of septal accessory pathways in the pediatric age group. *Am. J. Cardiol.* 92:947-50, 2003.
54. Collins KK, Rhee EK, Delucca JM, Alexander ME, Bevilacqua LM, Berul CI, Walsh EP, Mayer JE, Jonas RA, Del Nido PJ, **Triedman JK**. Modification to the Fontan procedure for the prophylaxis of intraatrial reentrant tachycardia: a prospective randomized blinded trial. *J. Thorac. Cardiovasc. Surg.*, 127:721-9, 2004.
55. Alexander ME, Cecchin F, **Triedman JK**, Walsh EP, Berul CI. Implications of ICDs in pediatrics and congenital heart disease. *J. Cardiovasc. Electrophysiol.* 15:72-6, 2004.
56. Stephenson EA, Cecchin F, Alexander ME, **Triedman JK**, Walsh EP, Berul CI. Relation of right ventricular pacing in tetralogy of Fallot to electrical resynchronization. *Am. J. Cardiol.*, 93:1449-52, 2004.
57. 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*, 1:150-9, 2004.
58. Fitzgerald TN, Brooks DH, **Triedman JK**. Comparative psychometric analysis of vector and isochrone cardiac activation maps. *IEEE Trans. Biomed. Engin.* 51:847-55, 2004.

59. Chetaille P, Walsh EP, **Triedman JK**. Outcomes of radiofrequency catheter ablation of atrioventricular reciprocating tachycardia in patients with congenital heart disease. *Heart Rhythm* 1:168-73, 2004.
60. Khairy P, Seslar SP, **Triedman JK**, Cecchin F. Ablation of atrioventricular nodal reentrant tachycardia in tricuspid atresia. *J Cardiovasc Electrophysiol* 15:719-22, 2004.
61. Suematsu Y, Marx GR, **Triedman JK**, Mihaljevic T, Mora BN, Takamoto S, del Nido PJ. Three-dimensional echocardiography– guided atrial septectomy: An experimental study. *J. Thorac. Cardiovasc. Surg.*, 128:53-9, 2004.
62. Morwood JK, **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* 3:301-8, 2004.
63. Suematsu Y, Marx GR, Stoll JA, DuPont PE, Cleveland RO, Howe RD, **Triedman JK**, Mihaljevic T, Mora BN, Savord BJ, Salgo IS, del Nido PJ.. Three-dimensional echocardiography–guided beating-heart surgery without cardiopulmonary bypass: A feasibility study. *J. Thorac. Cardiovasc. Surg.*, 128:579 - 87, 2004.
64. Khairy P, **Triedman JK**, Juraszek A, Cecchin F. Inability to cannulate the coronary sinus in patients with supraventricular arrhythmias: congenital and acquired coronary sinus atresia. *J Interv Card Electrophysiol* 12:123-7, 2005.
65. Fitzgerald TN, Brooks DH, **Triedman JK**. Identification of cardiac rhythm features by mathematical analysis of vector fields. *IEEE Trans. Biomed. Engin.* 52:19-29, 2005.
66. **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*, 2:700-5, 2005.
67. Suematsu Y, Martinez JF, Wolf BK, Marx GR, Stoll JA, DuPont PE, Howe RD, **Triedman JK**, del Nido PJ. Three-dimensional echo-guided beating heart surgery without cardiopulmonary bypass: atrial septal defect closure in a swine model. *J Thorac Cardiovasc Surg* 130:1348-57, 2005.
68. Saul JP, Scott W, Brown S, Marantz P, Acevedo V, Etheridge S, Perry J, **Triedman JK**, Burriss S, Cargo P, Graepel J, Koskelo EK, Wang R. Intravenous amiodarone for incessant tachyarrhythmias in children: A randomized double-blind anti-arrhythmic drug trial. *Circulation*, 112:3470-7, 2005.
69. Choi YH, Stamm C, Hammer PE, Kwaku KF, Marler JJ, Friehs I, Jones M, Rader CM, Roy N, **Triedman JK**, Walsh EP, McGowan FX, del Nido PJ, Cowan DB. Cardiac conduction through engineered tissue. *Am J Pathol*, 169:72-85, 2006.

70. 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* 14:27-36, 2005.
71. Stephenson EA, Batra AS, Knilans TK, Gow RM, Gradaus R, Balaji S, Dubin AM, Rhee EK, Ro PS, Thøgersen 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*, 17:41-6, 2006.
72. Huang J, Dupont PE, Undurti A, **Triedman JK**, Cleveland RO. Producing diffuse ultrasound reflections from medical instruments using a quadratic residue diffuser. *Ultrasound Med Biol*. 32:721-7, 2006.
73. 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*. 17:359-65. 2006
74. 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*. 3:253-8, 2006.
75. 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*. 17:754-9, 2006.
76. Huang J, **Triedman JK**, Vasilyev NV, Suematsu Y, Cleveland RO, Dupont PE. Imaging artifacts of medical instruments in ultrasound-guided interventions. *J Ultrasound Med*. 26:1303-22, 2007.
77. Khairy P, Fernandes SM, Mayer JE, **Triedman JK**, Walsh EP, Lock JE, Landzberg MJ. Long-term survival, modes of death, and predictors of mortality in patients with Fontan surgery. *Circulation* 117:85-92, 2008.
78. Moniotte S, **Triedman JK**, Cecchin F. Successful cryoablation of ventricular tachycardia arising from the proximal right bundle branch in a child. *Heart Rhythm* 5:142-144, 2008.
79. 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*. 21:65-68, 2008.

80. 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* 5:565-572, 2008.
81. Permaul P, Schneider LC, **Triedman JK**. Hypotension from epinephrine in a food-allergic patient with long QT syndrome. *Ann Allergy Asthma Immunol* 100:174-175, 2008.
82. Webster G, Jordao L, Martuscello M, Mahajan T, 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* 5:545-550, 2008.
83. Frangini PA, Cecchin F, Jordao L, Martuscello M, Alexander ME, **Triedman JK**, Walsh EP, Berul CI. How revealing are insertable loop recorders in pediatrics? *Pacing Clin Electrophysiol* 31:338-343, 2008.
84. 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*. 51:1685-91, 2008.
85. Takahashi K, Fynn-Thompson F, Cecchin F, del Nido P, **Triedman JK**. Clinical outcomes of Fontan revision surgery with and without associated arrhythmia intervention. *Int J Cardiology* 2008, in press.
86. **Triedman J**. Recent advances in the predictive modeling of defibrillation utilizing finite element models. *J Electrocardiol* 2008, in review.
87. **Triedman J**. In adults with congenital heart disease, an LV ejection fraction <0.30 is not an indication for ICD implantation. *Circulation* 2008, in review.
88. Takahashi K, Cecchin F, Fortescue E, Berul C, Alexander M, Walsh E, Fynn-Thompson F, **Triedman JK**. Permanent atrial pacing lead implant route after Fontan operation. *PACE* 2008, preparation.

Proceedings-

1. Saul JP, Berger RD, **Triedman JK**. Transfer function analysis: insights into heart rate and blood pressure control. In: Cerutti S, Minuco G, eds. *Spectral Analysis of Heart Rate Variability Signal*. Lavoro: Fondazione Clinica del Lavoro; 1990.

2. **Triedman JK**, Perrott MH, Saul JP. Autoregressive parameterization of cardiovascular control: comparison with Fourier techniques. Proc Intl Conf IEEE Engin Med Biol Soc 14:467-468, 1992.
3. **Triedman JK**. Atrial activation sequence mapping techniques in the catheterization laboratory. In: Liebman J, ed. Electrocardiology '96: from the cell to the body surface. Singapore: World Scientific; 1996, p. 315 - 325.
4. Barbieri R, **Triedman JK**, Di Virgilio V, Cerutti S, Saul JP. Arterial pressure control during non-hypo/hypertensive changes in central venous volume: assessment with multivariate autoregressive modeling. Comput.Cardiol., 23:000-000, 1996.
5. Fitzgerald TN, **Triedman JK**. Spatial resolution of catheter-based atrial pace activation mapping using signal-averaged electrograms. Comput. Cardiol., 25:117-120, 1998.
6. Fitzgerald TN, **Triedman JK**. Spatial resolution of catheter-based ventricular pace activation mapping using signal-averaged electrograms. Comput. Cardiol., 25:517-520, 1998.
7. Hammer PE, Brooks DH, **Triedman JK**. Entrainment response in a model of reentrant tachycardia. Comput. Cardiol., 28:229-232, 2001.
8. Fitzgerald TN, Rhee EK, Brooks DH, **Triedman JK**. Estimation of cardiac conduction velocities using small data sets. Comput. Cardiol., 28:13-16, 2001.
9. Kynor DB, Dietz AJ, Friets EM, Peterson JN, Bergstrom UC, **Triedman JK**, Hammer PE. Visualization of cardiac wavefronts using data fusion. SPIE Proceedings, Volume 4684, Medical Imaging 2002, pp 1186-1194.
10. Dietz AJ, Kynor DB, Friets EM, **Triedman JK**, Hammer PE. Effects of uncertainty in camera geometry on three-dimensional catheter reconstruction from biplane fluoroscopic images. SPIE Proceedings, Volume 4684, Medical Imaging 2002, pp 237-248.
11. Heverly M, Dupont PE, **Triedman JK**. Minimizing tissue motion during needle insertion. ICRA, Barcelona , 2005.
12. Jolley M, **Triedman J**, Westin CF, Weinstein DM, MacLeod R, Brooks D. Image based modeling of defibrillation in children. Conf Proc IEEE Eng Med Biol Soc 2006, 1:2564-2567.
13. Stinstra JG, Jolley M, Callahan M, Weinstein D, Cole M, Brooks DH, **Triedman J**, MacLeod RS. Evaluation of different meshing algorithms in the computation of defibrillation thresholds in children. Conf Proc IEEE Eng Med Biol Soc 2007, 2007:1422-1425.

14. **Triedman JK**, Jolley M, MacLeod R, Stinstra J, Brooks D, Pieper S. A system for image based finite element modeling of novel defibrillation strategies. IEEE/NIH BISTI Life Science Systems and Applications Workshop, Bethesda 2007, pp 117 - 120.

Reviews, chapters, and educationally relevant publications-

1. **Triedman JK**, Witman GB, Chee DO, Triedman LJ. The human tumor colony forming assay: review and clinical applications. Rhode Island Medical Journal 68:361-6, 1985
2. **Triedman JK**, Perry SB, Keane JF, Lock JE. Therapy of critical aortic stenosis in the infant and neonate. In: Emery R, Arom K, eds. The Aortic Valve. Philadelphia: Hanley and Belfus; 1990.
3. **Triedman JK**, Perry SB, vander Velde M, Lock JE. Closure of congenital and acquired intracardiac shunts using transcatheter techniques: a review. Indian Heart Journal 44:123-131, 1992.
4. Saul JP, Walsh EP, **Triedman JK**. Mechanisms and therapy of complex arrhythmias in infants and children. J Cardiovasc Electrophysiol, 6:1129-1148, 1995.
5. **Triedman JK**. Arrhythmias in pediatric patients – special considerations. In: Ganz LI, ed. Management of Cardiac Arrhythmias. Totowa, NJ: Humana Press; 2001, pp. 461 – 490.
6. **Triedman JK**. Reentrant atrial tachycardias. In: Walsh EP, Saul JP, **Triedman JK**, eds. Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease. Philadelphia: Lippincott, Williams & Wilkins; 2001.
7. **Triedman JK**. Advanced concepts and techniques of cardiac mapping. In: Walsh EP, Saul JP, **Triedman JK**, eds. Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease. Philadelphia: Lippincott, Williams & Wilkins; 2001.
8. **Triedman JK**. Technical aspects of intraatrial reentrant tachycardia ablation. In: Walsh EP, Saul JP, **Triedman JK**, eds. Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease. Philadelphia: Lippincott, Williams & Wilkins; 2001.
9. **Triedman JK**, Van Hare GF. Management of late postoperative atrial flutter. In: Walsh EP, Saul JP, **Triedman JK**, eds. Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease. Philadelphia: Lippincott, Williams & Wilkins; 2001.
10. **Triedman JK**. Arrhythmia management in patients with Fontan physiology. Prog. Pediatr. Cardiol., 16:69-77, 2002.

11. **Triedman JK.** Arrhythmias in adults with congenital heart disease. *Heart*, 87:383-389, 2002.
12. Cannon JW, Howe RD, Dupont PE, **Triedman JK**, Marx GR, del Nido PJ. Application of robotics in congenital cardiac surgery. *Seminars. Thorac. Cardiovasc. Surg. Pediatric Cardiac Surgery Annual*. 6:72-83, 2003.
13. **Triedman JK.** Atrial arrhythmias in congenital heart disease. In: Zipes D, Jalife J, eds. *Cardiac Electrophysiology: From Cell to Bedside*, 4th edition. Philadelphia: Saunders; 2004, pp 558 - 568.
14. **Triedman JK.** So far, so good... *J. Cardiovasc. Electrophysiol.*, 15:284-285, 2004.
15. **Triedman JK**, Perry J, Van Hare G. Risk stratification for prophylactic ablation in asymptomatic Wolff–Parkinson–White Syndrome (Letter). *New Engl J Med* 352:92-3, 2005.
16. **Triedman JK.** Virtual reality in interventional electrophysiology. *Circulation*, 112:3677-9, 2005.
17. Van Hare GF, Perry J, Berul CI, **Triedman JK.** Cost effectiveness of neonatal ECG screening for the long QT syndrome. *Eur Heart J*. 28:137, 2007.
18. **Triedman JK.** Atypical atrial tachycardias in congenital heart disease. *Heart Rhythm*, 2008, 5:315-317.
19. **Triedman JK.** Untitled contribution. In: Al-Ahmad A, David Callans D, Hsia H, Natale A, eds. *Electroanatomical Mapping: An Atlas for Clinicians*. Oxford: Wiley-Blackwell; 2008, in press.
20. **Triedman JK.** Atrial arrhythmias in congenital heart disease. In: Zipes D, Jalife J, eds. *Cardiac Electrophysiology: From Cell to Bedside*, 5th edition. Philadelphia: Saunders; 2008, in press.
21. **Triedman JK.** Brugada and short QT syndromes. *PACE* 2008, in press.

Books-

1. Walsh EP, Saul JP, **Triedman JK**, eds. *Cardiac Arrhythmias in Children and Young Adults with Congenital Heart Disease*. Philadelphia: Lippincott, Williams & Wilkins; 2001.

Patents-

1. **Triedman JK, Jenkins KJ, Colan SD.** *Method for endocardial activation mapping using a multi-electrode catheter.* U.S. Patent 5,848,972. 1998 Dec 15.

Descriptive Summaries of Selected Published Works-

1. Triedman JK, KJ Jenkins, SD Colan, JP Saul, EP Walsh. Intraatrial reentrant tachycardia after palliation of congenital heart disease: characterization of multiple macroreentrant circuits using fluoroscopically-based 3-D endocardial mapping. *J Cardiovasc Electrophysiol*, 8:259-270, 1997.

Role: Principal Investigator on NIH R21 grant. Conceived, designed and performed study, data analysis and interpretation. Also conceived, developed and submitted U.S. Patent #5,848,972 to claim the techniques developed as intellectual property.

Importance in the field: This study presented the development of a novel, three-dimensional technique for in vivo arrhythmia mapping, which had been presented in earlier publications and which is one of several techniques in current general clinical use. The paper focused on the application of this approach to the analysis of complex atrial arrhythmias occurring in postoperative congenital heart patients. In this aspect, it represented first delineation of the specific arrhythmia circuits underlying this significant pathology.

2. Triedman JK, Alexander ME, Berul CI, Bevilacqua LM, Walsh EP. Electroanatomical mapping of entrained and exit zones in patients with repaired congenital heart disease and intraatrial reentrant tachycardia. *Circulation*, 103:2060-2065, 2001.

Role: Conceived, designed and performed study, data analysis and interpretation.

Importance in the field: This was the first attempt to organize important functional data characterizing reentrant arrhythmias and obtained by overdrive pacing in relation to cardiac anatomy. The study revealed the typical geometries of clinical arrhythmia circuits, described arrhythmia mechanisms previously unsuspected in the patient group and demonstrated the application of data fusion principles to clinical arrhythmia analysis.

3. Triedman JK, Alexander ME, Love BA, Collins KK, Berul CI, Bevilacqua LM, Walsh EP. Influence of patient factors and ablative technologies on outcomes of radiofrequency ablation of intra-atrial reentrant tachycardia in congenital heart disease patients. *J. Am. Coll. Cardiol.*, 39:1827-1835, 2002.

Role: Conceived, designed and performed study, data analysis and interpretation.

Importance in the field: This retrospective clinical study is recognized as the only valid data on the recurrence risk of atrial tachycardias in congenital heart patients undergoing interventional therapy. It also represents continued efforts to development of sensitive and quantitative measures of clinical outcome among patients with stochastic clinical processes, such as recurrent arrhythmia.

4. Hammer PE, Brooks DH, Triedman JK. Estimation of entrainment response using electrograms from remote sites: validation in animal and computer models of reentrant tachycardia. *J. Cardiovasc. Electrophysiol.*, 14:52-61, 2003.

Role: Conceived, designed and supervised performance of study, data analysis and interpretation.

Importance in the field: In this work, I significantly extended the theoretical basis of entrainment pacing of reentrant processes by generalizing its application to the entire endocardial surface. This specific paper developed the specific new relation empirically from computational modeling and experimental study of the phenomenon in an acute animal model of atrial reentrant tachycardia.

5. Chetaille P, Walsh EP, **Triedman JK**. Outcomes of radiofrequency catheter ablation of atrioventricular reciprocating tachycardia in patients with congenital heart disease. *Heart Rhythm* 1:168-73, 2004.

Role: Conceived, designed and supervised performance of study, data analysis and interpretation.

Importance in the field: This study presents the largest and most comprehensive data series available on the procedural and clinical outcomes of radiofrequency ablation in patients with congenital heart defects.

6. Saul JP, Scott W, Brown S, Marantz P, Acevedo V, Etheridge S, Perry J, Triedman JK, Burriss S, Cargo P, Graepel J, Koskelo EK, Wang R. Intravenous amiodarone for incessant tachyarrhythmias in children: A randomized double-blind anti-arrhythmic drug trial. *Circulation*, 112:3470-7, 2005.

Role: Planning committee, site investigator and coauthor of industry sponsored prospective multicenter study of effects of antiarrhythmic agent in critically ill children.

Importance in the field: This study redefined the use of intravenous amiodarone in the care of children with life-threatening arrhythmia, highlighting its relatively limited therapeutic effects and adverse event profile.

7. Jolley M, Triedman J, Westin CF, Weinstein DM, MacLeod R, Brooks D. Image based modeling of defibrillation in children. *IEEE EMBC*, New York, 2006

Role: Conceived, designed and supervised performance of study, data analysis and interpretation, organized multiinstitutional collaborative effort.

Importance in the field: This paper, presented last fall in New York, is the first presentation of new work which will be documented in several manuscripts to be submitted this summer. In it, we describe a novel system for the derivation of conductivity models which allow for rapid, user-guided computational modeling of cardiac defibrillation in children and young adults. This represents a major new effort to develop patient-specific, image-guided physiological modeling for the prediction of clinical outcomes, and addresses a growing perceived need for such tools in the pediatric electrophysiology community.

