

**CURRICULUM VITAE
ALFRED E. BUXTON, M.D.**

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EDUCATION

Undergraduate University of Rochester, Biology, A.B., 1969
Phi Beta Kappa, 1968

Medical School University of Pennsylvania, 1969-73, M.D.-1973
Alpha Omega Alpha, 1971
Saunders Prize - U of P Graduation, 1973

POSTGRADUATE TRAINING

Residency: Hospital of the University of Pennsylvania, Philadelphia, PA,
Internship, Medicine, 1973-74, Residency, Medicine-1974-75,
1977-78

Fellowship: Hospital of the University of Pennsylvania, Philadelphia, PA
Cardiology, 1978-80
Cardiac Electrophysiology, 1980-81

POSTGRADUATE HONORS AND AWARDS

Measey Foundation Fellow, University of Pennsylvania
Department of Medicine, 1981-82

Brown Medical School, Department of Medicine – Chairman’s
Award for Outstanding Teaching – June, 2002

Brown Medical School, Dean’s Teaching Excellence Award –
Pathophysiology/Cardiovascular - June, 2004

MILITARY SERVICE

Epidemic Intelligence Service Officer, Hospital Infections Branch,
Bacterial Diseases Division,
Bureau of Epidemiology, Centers for Disease Control,
USPHS, DHEW, Atlanta, Georgia, 1975-77

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

Pennsylvania MD 015536 E, 1974-1999
Rhode Island MD 10147, September, 1999 - present
American Board of Internal Medicine - Diplomate - 59603 - 1977
Cardiovascular Disease - ABIM – Diplomate - 59603 - 1981
Cardiac Electrophysiology - ABIM – Diplomate - 59603 – 1993, 2002

ACADEMIC APPOINTMENTS

Assistant Instructor in Medicine, University of Pennsylvania	7/1/74 - 6/30/75
Instructor in Medicine, Emory University	1975-77
Assistant Instructor in Medicine University of Pennsylvania	7/1/77 - 6/30/78
Assistant Professor of Medicine University of Pennsylvania	7/1/81 - 6/30/88
Associate Professor of Medicine University of Pennsylvania	7/1/88 - 1/31/93
Professor of Medicine and Cardiology Temple University	2/1/93-8/1/99
Professor of Medicine Brown University	November, 1999-present

HOSPITAL APPOINTMENTS

Visiting Medical Staff Grady Memorial Hospital Atlanta, Georgia	1975- 1977
Staff Physician in Student Health (A-1) University of Pennsylvania	9/1/77 - 4/30/79
Medical Staff Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	7/1/81-1/31/93
Director, Arrhythmia Evaluation Center Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	7/1/82-7/1/83
Director, Clinical Electrophysiology Laboratory Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	7/1/83 - 1/31/93
Associate Chief of Cardiology Temple University School of Medicine Philadelphia, Pennsylvania	2/1/93-8/1/99
Associate Director, Clinical Research Center Temple University School of Medicine Philadelphia, Pennsylvania	7/1/94-8/1/99
Director, Cardiology Fellowship Program Temple University School of Medicine Philadelphia, Pennsylvania	9/1/97-8/1/99

Director, Clinical Electrophysiology Laboratory
 Temple University Hospital
 Philadelphia, Pennsylvania 4/1/98-8/1/99

Director, Arrhythmia Services and Electrophysiology Laboratory
 Rhode Island and Miriam Hospitals 9/1/99-present

Director, Clinical Electrophysiology Fellowship Program
 Rhode Island and Miriam Hospitals 9/1/99-present

Director, Cardiology Division
 Rhode Island and Miriam Hospitals 8/1/04-present

Executive Director, Cardiology, VA Medical Center, Providence,
 and Memorial Hospital of RI 8/1/04-present

OTHER APPOINTMENTS

Associate Editor - Annals of Internal Medicine	1985-1990
Associate Editor - The American Journal of Cardiology	1986-present
Editorial Board - Circulation	1991-1993
Editorial Board - Journal of Cardiovascular Electrophysiology -	1998-present
Editorial Board – Journal of the American College of Cardiology	2000-2005
Editorial Board – Journal of the Heart Rhythm Society	2004-present

Editorial Consultant (manuscript reviewer):

The American Journal of Cardiology
 Annals of Internal Medicine
 Chest
 Circulation
 Journal of the American College of Cardiology
 Journal of Cardiovascular Electrophysiology
 PACE
 New England Journal of Medicine

Reviewer of Scientific Abstracts -

American College of Cardiology
 American Heart Association
 North American Society of Pacing and Electrophysiology/ Heart Rhythm Society

American College of Physicians:

Medical Knowledge Self-Assessment Program -(MKSAP X) - Cardiovascular Medicine
 Subcommittee-Author "Cardiac Arrhythmias" - 1992

NHLBI Clinical Trials Board - Ad hoc reviewer - ICD Trial, May, 1992

Member, National Advisory Panel to NIH CARD PORT "Sudden Cardiac Death" - Stanford
 University School of Medicine, Mark Hlatky, Principal Investigator – 1994 - 1999

Member, Medicare Coverage Advisory Committee on ICD Utilization (MADIT II Review)
 February 12, 2003

Committee Membership of the American Heart Association:

Committee on Electrocardiography and Electrophysiology
 July 1, 1994-June 30, 1995

Committee on Electrocardiography and Arrhythmias
 July 1, 1995-June 30, 1997

Council on Clinical Cardiology - Council Representative for Southeast Pennsylvania
 December, 1996-January, 1998

Committee Membership of the American College of Cardiology:

Committee on Electrocardiography Proficiency Assessment

1993 - 1997

Electrophysiology Database Subcommittee
1997 – 2000

ACC/AHA/ACP-ASIM Committee to Revise the 1995 Statement on Electrocardiography
1999 – 2002

ACC/AHA/ESC Ventricular Arrhythmias and Sudden Cardiac Death ACC/AHA/ESC guidelines
writing committee
2003 – 2005

Chairman, ACC/AHA/HRS Committee on Electrophysiology Data Standards
2003 –

Chairman, ACC/HRS National ICD Registry
2005 –

Committee Membership of the American Board of Internal Medicine:

Self Evaluation Process Committee for Clinical Cardiac Electrophysiology
1998 to 2000

Recent Advances in Cardiology Self Evaluation Process Committee
2002 to 2004

Self Evaluation Process Committee for Cardiology
2004 to present

Test Writing Committee on Clinical Cardiac Electrophysiology
2006-2008

ACC/FDA Workshop, "Sharing a Commitment to Improve Cardiovascular Devices". Chairperson,
Committee on Postmarket Surveillance of ICDs.
Bethesda, MD June 25,26, 2001

HOSPITAL & UNIVERSITY COMMITTEES

University of Pennsylvania School of Medicine:
Member, Admissions Interview Panel 1984 - 1985, 1987 - 1988

Temple University School of Medicine:
Member, Department of Medicine Committee on Appointments & Promotions
1994 - 1999

Member, Liaison Committee for Medical Education, Subcommittee on Clinical Science Departments
1994 - 1999

Member, General Clinical Research Center Advisory Committee,
7/1/95-8/1/99

Member, Medical School Committee on Curriculum, Biostatistics and Epidemiology
1/1/96-1997

Member, Medical School Strategic Planning Committee, Research
12/96-3/97

Member, Research Enterprise Advisory Committee 11/97-8/1/99

Brown Medical School

Member, Department of Medicine Research Review Committee 2002-2003

Brown Medical School

Member, Department of Medicine Promotions Committee 2003-present

Brown Medical School

Member, Search Committee for Director, Department of Emergency Medicine 2005

MEMBERSHIP IN SOCIETIES

Fellow, American College of Cardiology 1983

Fellow, American College of Physicians 1983

Fellow, Council on Clinical Cardiology, American Heart Association

Member, American Federation for Clinical Research

Member, Heart Rhythm Society

ORIGINAL PUBLICATIONS IN PEER-REVIEWED JOURNALS

1. Fraser DW, Buxton AE, Naji A, Rudnick M, Barker CF, Weinstein AJ: Disseminated Mycobacterium kansasii infection presenting as cellulitis in a recipient of a renal homograft. Am Rev Resp Dis 112:125-129, 1975.
2. Ryder RW, Wachsmuth IK, Buxton AE, Evans DG, DuPont HL, Mason E, Barret FF: Infantile diarrhea produced by heat - stable enterotoxigenic Escherichia coli. N Engl J Med 295: 849-853, 1976.
3. Buxton AE, Morganroth J, Josephson ME, Perloff J, Shelburne JC: Isolated dextroversion of the heart with asymmetric septal hypertrophy. Am Heart J 92:785-79, 1976.
4. Ryder RW, Buxton AE, Wachsmuth IK, Mason E, Barrett FF: Heat stable enterotoxigenic Escherichia coli and necrotizing enterocolitis: Lack of an association. J Ped 91:302, 1977.
5. Abrutyn E, Goodhart GL, Roos K, Anderson R, Buxton AE: Acinetobacter calcoaceticus outbreak associated with peritoneal dialysis. Am J Epidem 107:328-335, 1978.
6. Buxton AE, Anderson RL, Werdegard D, Atlas E: Nosocomial respiratory tract infection and colonization with Acinetobacter calcoaceticus. Epidemiologic characteristics. Am J Med 65:507-513, 1978.
7. Buxton, AE, Anderson RL, Klimek J, Quintiliani R: Failure of disposable domes to prevent septicemia acquired from contaminated pressure transducers. Chest 64:508-513, 1978.
8. Gerding DN, Buxton AE, Hughes RA, Cleary PP, Abraczawski J, Stamm WE: Nosocomial multiply resistant Klebsiella pneumoniae: Epidemiology of an outbreak of apparent index case origin. Antimicrobial Agents and Chemotherapy 15:608-615, 1979.
9. Buxton AE, Highsmith AK, Garner JS, West CM, Stamm WE, Dixon RE, McGowan JE: Contamination of intravenous infusion fluid: Effects of changing administration sets. Ann Int Med 90:764-768, 1979.
10. Buxton AE, Goldberg S, Hirshfeld JW, Wilson J, Mann T, Williams DO, Oliva P: Refractory ergonovine induced coronary vasospasm: Importance of intracoronary nitroglycerin. Am J Cardiol 46:329-334, 1980.
11. Buxton AE, Josephson ME: Role of P wave duration as a predictor of post-operative atrial arrhythmias. Chest 80:68-73, 1981.
12. Buxton AE, Goldberg S, Harken AH, Hirshfeld JW, Kastor JA: Coronary artery spasm immediately following coronary artery bypass surgery: Recognition and management. N Engl J Med 304:1249-1253, 1981.

13. Josephson ME, Waxman HL, Cain ME, Gardner MJ, Buxton AE: Ventricular activation during ventricular endocardial pacing. II. Role of pacemapping to localize origin of ventricular tachycardia. *Am J Cardiol* 50:11-22, 1982.
14. Buxton AE, Hirshfeld JW, Untereker WJ, Goldberg S, Harken AH, Stephenson LW, Edie RN: Perioperative coronary artery spasm: Long-term follow-up. *Am J Cardiol* 50:444-450, 1982.
15. Waxman HL, Groh WC, Marchlinski FE, Buxton AE, Sadowski LM, Horowitz LN, Josephson ME, Kastor JA: Amiodarone for control of sustained ventricular tachyarrhythmias: Clinical and electrophysiologic effects in 51 patients. *Am J Cardiol* 50:1066-1074, 1982.
16. Gardner MJ, Waxman HL, Buxton AE, Cain ME, Josephson ME: Termination of ventricular tachycardia. Evaluation of a new pacing method. *Am J Cardiol* 50:1338-1345, 1982.
17. Roy D, Waxman HL, Buxton AE, Marchlinski FE, Cain ME, Gardner MJ, Josephson ME: Termination of ventricular tachycardia: Role of tachycardia cycle length. *Am J Cardiol* 50:1346-1350, 1982.
18. Waxman HL, Buxton AE, Sadowski LM, Josephson ME: The response to procainamide during electrophysiologic study for sustained ventricular tachyarrhythmias predicts the response to other medications. *Circulation* 67:30-37, 1982.
19. Lerman BB, Waxman HL, Buxton AE, Josephson ME: Disopyramide: Evaluation of electrophysiologic effects and clinical efficacy in patients with sustained ventricular tachycardia or ventricular fibrillation. *Am J Cardiol* 51:759-765, 1983.
20. Roy D, Waxman HL, Buxton AE, Josephson ME: Horizontal and Longitudinal dissociation of the A-V node during atrial tachycardia. *PACE* 6:569-576, 1983.
21. Waspe LE, Waxman HL, Buxton AE, Josephson ME: Mexiletine for control of drug-resistant ventricular tachycardia: Clinical and electrophysiologic results in 44 patients. *Am J Cardiol* 51:1176-1181, 1983.
22. Doherty, JU, Kienzle MG, Waxman HL, Buxton AE, Marchlinski FE, Josephson ME: Relation of mode of induction and cycle length of ventricular tachycardia: Analysis of 104 patients. *Am J Cardiol* 52:60-64, 1983.
23. Marchlinski FE, Waxman HL, Buxton AE, Josephson ME: Sustained ventricular tachyarrhythmias during the early postinfarction period: Electrophysiologic findings and prognosis for survival. *J Am Coll Cardiol* 2:240-250, 1983.
24. Ezri M, Lerman BB, Marchlinski FE, Buxton AE, Josephson ME: Electrophysiologic evaluation of syncope in patients with bifascicular block. *Am Heart J* 106:693-697, 1983.
25. Buxton AE, Waxman HL, Marchlinski FE, Simson MB, Cassidy DM, Josephson ME: Right ventricular tachycardia: Clinical and electrophysiologic characteristics. *Circulation* 68:917-927, 1983.
26. Roy D, Waxman HL, Kienzle MG, Buxton AE, Marchlinski FE, Josephson ME: Clinical characteristics and long-term follow-up in 119 survivors of cardiac arrest: Relation to inducibility at electrophysiologic testing. *Am J Cardiol* 52:969-974, 1983.
27. Buxton AE, Waxman HL, Marchlinski FE, Josephson ME: Electrophysiologic studies in nonsustained ventricular tachycardia: Relation to underlying heart disease. *Am J Cardiol* 52:985-991, 1983.
28. Lerman BB, Waxman HL, Buxton AE, Sweeney M, Josephson ME: Tachyarrhythmias associated with programmable automatic atrial antitachycardia pacemakers. *Am Heart J* 106:1029-1035, 1983.
29. Doherty JU, Kienzle MG, Waxman HL, Buxton, Marchlinski FE, Josephson ME: Programmed ventricular stimulation at a second right ventricular site: An analysis of 100 patients, with special

reference to sensitivity, specificity and characteristics of patients with induced ventricular tachycardia. *Am J Cardiol* 52:1184-1189, 1983.

30. Marchlinski FE, Buxton AE, Waxman HL, Josephson ME: Identifying patients at risk of sudden death after myocardial infarction: Value of the response to programmed stimulation, degree of ventricular ectopic activity and severity of left ventricular dysfunction. *Am J Cardiol* 52:1190-1196, 1983.
31. Ezri MD, Marchlinski FE, Buxton AE, Waxman HL, Josephson ME: Electrophysiologic effects of intravenous timolol. *Internatl J Cardiol* 3:329-337, 1983.
32. Buxton AE, Waxman HL, Marchlinski FE, Josephson ME: Electropharmacology of nonsustained ventricular tachycardia: Effects of Class I antiarrhythmic agents, verapamil and propranolol. *Am J Cardiol* 53:738-744, 1984.
33. Vassallo JA, Cassidy DM, Marchlinski FE, Buxton AE, Waxman HL, Doherty, JU, Josephson ME: Endocardial activation of left bundle branch block. *Circulation* 69:914-923, 1984.
34. Buxton AE, Marchlinski FE, Waxman HL, Flores BT, Cassidy DM, Josephson ME: Prognostic factors in nonsustained ventricular tachycardia. *Am J Cardiol* 53:1275-1279, 1984.
35. Buxton AE, Waxman HL, Marchlinski FE, Untereker WJ, Waspe LE, Josephson ME: Role of triple extrastimuli during electrophysiologic study of patients with documented sustained ventricular tachyarrhythmias. *Circulation* 69:532-540, 1984.
36. Poll DS, Marchlinski FE, Buxton AE, Doherty JU, Waxman HL, Josephson ME: Sustained ventricular tachycardia in patients with idiopathic dilated cardiomyopathy: Electrophysiologic testing and lack of response to antiarrhythmic drug therapy. *Circulation* 70:451-456, 1984.
37. Cassidy DM, Vassallo JA, Marchlinski FE, Buxton AE, Untereker WJ, Josephson ME: Endocardial mapping in humans in sinus rhythm with normal left ventricles: Activation patterns and characteristics of electrograms. *Circulation* 70:37-42, 1984.
38. Doherty JU, Kienzle MG, Buxton AE, Marchlinski FE, Waxman HL, Josephson ME: Discordant results of programmed ventricular stimulation at different right ventricular sites in patients with and without spontaneous sustained ventricular tachycardia: A prospective study of 56 patients. *Am J Cardiol* 54:336-342, 1984.
39. Lerman BB, Marchlinski FE, Kempf FC, Buxton AE, Josephson ME: Prognosis in patients with intra-Hisian conduction disturbances. *Int J Cardiol* 5:449-457, 1984.
40. Cassidy DM, Vassallo JA, Buxton AE, Doherty JU, Marchlinski FE, Josephson ME: The value of catheter mapping during sinus rhythm to localize site of origin of ventricular tachycardia. *Circulation* 69:1103-1110, 1984.
41. Marchlinski FE, Buxton AE, Waxman HL, Josephson ME: Electrophysiologic effects of intra-venous metoprolol. *Am Heart J* 107:1125-1131, 1984.
42. Doherty JU, Waxman HL, Kienzle MG, Cassidy DM, Marchlinski FE, Buxton AE, Josephson ME: Limited role of intravenous propafenone hydrochloride in the treatment of sustained ventricular tachycardia: Electrophysiologic effects and results of programmed ventricular stimulation. *J Am Coll Cardiol* 4:378-381, 1984.
43. Buxton AE, Waxman HL, Marchlinski FE, Josephson ME: Atrial conduction: Effects of extrastimuli with and without atrial dysrhythmias. *Am J Cardiol* 54:755-761, 1984.
44. Buxton AE, Marchlinski FE, Doherty JU, Cassidy DM, Vassallo JA, Flores BT, Josephson ME: Repetitive, monomorphic ventricular tachycardia: Clinical and electrophysiologic characteristics in patients with and patients without organic heart disease. *Am J Cardiol* 54:997-1002, 1984.
45. Almendral JM, Grogan EW, Cassidy DM, Vassallo JA, Marchlinski FE, Buxton AE, Doherty JU, Josephson ME: Timing of the right ventricular apical electrogram during sustained ventricular

- tachycardia: Relation to surface QRS morphology and potential clinical implications. *Am J Cardiol* 54:1003-1007, 1984.
46. Marchlinski FE, Buxton AE, Vassallo JA, Waxman HL, Cassidy DM, Doherty JU, Josephson ME: Comparative electrophysiologic effects of intravenous and oral procainamide in patients with sustained ventricular arrhythmias. *J Am Coll Cardiol* 4:1247-1254, 1984.
 47. Doherty JU, Waxman HL, Kienzle MG, Cassidy DM, Marchlinski FE, Buxton AE, Josephson ME: Limited role of intravenous propafenone hydrochloride in the treatment of sustained ventricular tachycardia: Electrophysiologic effects and results of programmed ventricular stimulation. *J Am Coll Cardiol* 4:378-81, 1984.
 48. Almendral JA, Gottlieb C, Marchlinski FE, Buxton AE, Doherty JU, Josephson ME: Entrainment of ventricular tachycardia by atrial depolarizations. *Am J Cardiol* 56:298-304, 1985.
 49. Vassallo JA, Cassidy D, Simson MB, Buxton AE, Marchlinski FE, Josephson ME: Relation of late potentials to site of origin of ventricular tachycardia associated with coronary heart disease. *Am J Cardiol* 55:985-989, 1985.
 50. Marchlinski FE, Buxton AE, Flores BT, Doherty JU, Waxman HL, Josephson ME: Value of Holter monitoring in identifying risk for sustained ventricular arrhythmia recurrence on amiodarone. *Am J Cardiol* 55:709-712, 1985.
 51. Doherty JU, Rogers DP, Grogan EW, Falcone RA, Buxton AE, Marchlinski FE, Cassidy DM, Kienzle MG, Almendral JM, Josephson ME: Electrophysiologic evaluation and follow-up characteristics of patients with recurrent unexplained syncope or presyncope. *Am J Cardiol* 55:703-708, 1985.
 52. Cassidy DM, Vassallo JA, Buxton AE, Doherty JU, Marchlinski FE, Josephson ME: Catheter mapping during sinus rhythm: Relation of local electrogram duration to ventricular tachycardia cycle length. *Am J Cardiol* 55:713-716, 1985.
 53. Cassidy DM, Vassallo JA, Miller JM, Poll DS, Buxton AE, Josephson ME: Endocardial catheter mapping in patients in sinus rhythm: Relationship to underlying heart disease and ventricular arrhythmia. *Circulation* 73:645-652, 1986.
 54. Eysmann SB, Marchlinski FE, Buxton AE, Josephson ME: ECG changes after cardioversion of ventricular arrhythmias. *Circulation* 73:73-81, 1986.
 55. Buxton AE, Josephson ME: Role of electrophysiologic studies in identifying arrhythmogenic properties of antiarrhythmic drugs. *Circulation* 73(Suppl I): II-67 - 11-72, 1986.
 56. Vassallo JA, Cassidy DM, Miller JM, Buxton AE, Marchlinski FE, Josephson ME: Left ventricular endocardial activation during right ventricular pacing: Effect of underlying heart disease. *J Am Coll Cardiol* 7:1228-33, 1986.
 57. Marchlinski FE, Flores BT, Buxton AE, Hargrove WC, Addonizio VP, Stephenson LW, Harken AH, Doherty JU, Grogan EW, Josephson ME: The automatic implantable cardioverter-defibrillator: Efficacy, complications, and device failures. *Ann Int Med* 104:481-488, 1986.
 58. Vassallo JA, Cassidy DM, Marchlinski FE, Miller JM, Buxton AE, Josephson ME: Abnormalities of endocardial activation pattern in patients with previous healed myocardial infarction and ventricular tachycardia. *Am J Cardiol* 58:479-484, 1986.
 59. Poll DS, Marchlinski FE, Buxton AE, Josephson ME: Usefulness of programmed stimulation in idiopathic dilated cardiomyopathy. *Am J Cardiol* 58:992-997, 1986.
 60. Almendral JM, Rosenthal ME, Stamato NJ, Marchlinski FE, Buxton AE, Frame LH, Miller JM, Josephson ME: An analysis of the resetting phenomenon in sustained uniform ventricular tachycardia: incidence and the relation to termination. *J Am Coll Cardiol* 8:294-300, 1986.

61. Kadish AH, Marchlinski FE, Josephson ME, Buxton AE: Amiodarone: Correlation of early and late electrophysiologic studies with outcome. *Am Heart J* 112:1134-1140, 1986.
62. Kienzle MG, Doherty JU, Cassidy DM, Buxton AE, Marchlinski FE, Waxman HL, Josephson ME: Electrophysiologic sequelae of chronic myocardial infarction: Local refractoriness and electrogram characteristics of the left ventricle. *Am J Cardiol* 58:63-69, 1986.
63. Marchlinski FE, Buxton AE, Miller JM, Vassallo JA, Flores BT, Josephson ME: Amiodarone versus amiodarone and Type IA agent for rapid ventricular tachycardia. *Circulation* 74:1037-1043, 1986.
64. Rosenthal ME, Stamato NJ, Almendral JM, Marchlinski FE, Buxton AE, Miller JM, Josephson ME: Influence of the site of stimulation on the resetting phenomenon in ventricular tachycardia. *Am J Cardiol* 58:970-976, 1986.
65. Buxton AE, Marchlinski FE, Doherty JU, Flores BT, Josephson ME: Hazards of intravenous verapamil in patients with sustained ventricular tachycardia. *Am J Cardiol* 59:1107-1110, 1987.
66. Buxton AE, Marchlinski FE, Flores BT, Miller JM, Doherty JU, Josephson ME: Nonsustained ventricular tachycardia in patients with coronary artery disease: Role of electrophysiologic study. *Circulation* 75:1178-1185, 1987.
67. Buxton AE, Simson MB, Falcone RA, Marchlinski FE, Doherty JU, Josephson ME: Results of signal-averaged electrocardiography and electrophysiologic study in patients with nonsustained ventricular tachycardia after healing of acute myocardial infarction. *Am J Cardiol* 60:8085, 1987.
68. Kadish AH, Buxton AE, Waxman HL, Flores B, Josephson ME, Marchlinski FE: Usefulness of electrophysiologic study to determine the clinical tolerance of arrhythmia recurrences during amiodarone therapy. *J Am Coll Cardiol* 10:90-6, 1987.
69. Marchlinski FE, Buxton AE, Miller JM, Josephson ME: Prevention of ventricular tachycardia induction during right ventricular programmed stimulation by high current strength pacing at the site of origin. *Circulation* 76:332-342, 1987.
70. Josephson ME, Buxton AE, Marchlinski FE, Miller JM, Orishimo TF: Therapy of ventricular tachycardia: Role of electrophysiology studies 1987. *Jpn J. Electrocardiology* 8:2:121-139, 1988.
71. Miller JM, Marchlinski FE, Buxton AE, Josephson ME: Relationship between the 12-lead electrocardiogram during ventricular tachycardia and endocardial site of origin in patients with coronary artery disease. *Circulation* 77, 4:759-766, 1988.
72. Kleiman RB, Miller JM, Buxton AE, Josephson ME, Marchlinski FE: Prognosis following sustained ventricular tachycardia occurring early after myocardial infarction. *Am J Cardiol* 62:528-533, 1988.
73. Marchlinski FE, Buxton AE, Kindwall KE, Miller JM, Rosenthal ME, Gottlieb CD, Bloom RB, Josephson ME: Comparison of individual and combined effects of procainamide and amiodarone in patients with sustained ventricular tachyarrhythmias. *Circulation* 78, 3:583-591, 1988.
74. Berger MD, Waxman HL, Buxton AE, Marchlinski FE, Josephson ME: Spontaneous compared with induced onset of sustained ventricular tachycardia. *Circulation* 78, 4:885-892, 1988.
75. Vassallo JA, Marchlinski FE, Cassidy DM, Buxton AE, Josephson ME: Shortening of ventricular refractoriness with extrastimuli: Role of the degree of prematurity and number of extrastimuli. *J Electrocardiol* 2:227-236, 1988.
76. Buxton AE, Britton N, Simson MB: Application of the signal-averaged electrocardiogram in patients with nonsustained ventricular tachycardia after myocardial infarction: Implications for prediction of sudden cardiac death risk. *J Electrocardiology* 21:S40-45, 1988.
77. Almendral JM, Gottlieb CD, Rosenthal ME, Stamato NJ, Buxton AE, Marchlinski FE, Miller JM, Josephson ME: Entrainment of ventricular tachycardia: Explanation for surface electrocardiographic phenomena by analysis of electrograms recorded within the tachycardia circuit. *Circulation* 77:569-580, 1988.

78. Schmitt CG, Kadish AH, Marchlinski FE, Miller JM, Buxton AE, Josephson ME: Effects of lidocaine and procainamide on normal and abnormal intraventricular electrograms during sinus rhythm. *Circulation* 77:1030-1037, 1988.
79. Josephson ME, Buxton AE, Marchlinski FE, Miller JM: Therapy of ventricular tachycardia: Role of electrophysiology studies 1987. *Jpn J Electrocardiology* 8:121, 1988.
80. Schmitt C, Kadish AH, Balke WC, Turk K, Buxton AE, Josephson ME, Marchlinski FE: Cycle length-dependent effects on normal and abnormal intraventricular electrograms: Effect of procainamide. *J Am Coll Cardiol* 12:395-403, 1988.
81. Marchlinski FE, Buxton AE, Josephson ME, Schmitt C: Predicting ventricular tachycardia cycle length after procainamide by assessing cycle length-dependent changes in paced QRS duration. *Circulation* 79:39-46, 1989.
82. Kadish AH, Rosenthal ME, Vassallo JA, Cassidy DM, Buxton AE, Marchlinski FE, Miller JM, Josephson ME: Sinus mapping in patients with cardiac arrest and coronary disease - Results and correlation with outcome. *PACE* 12:301-310, 1989.
83. Buxton AE, Marchlinski FE, Miller JM, Morrison DF, Frame LH, Josephson ME: The Human Atrial Strength-Interval Relation: Influence of Cycle Length and Procainamide. *Circulation* 79:271-280;1989.
84. Vaitkus PT, Buxton AE, Josephson ME, Marchlinski FE: Cycle-Length response of ventricular tachycardia associated with coronary artery disease to procainamide and amiodarone. *Am J Cardiol* 66:710-714, 1990.
85. Vaitkus PT, Kindwall KE, Miller JM, Marchlinski FE, Buxton AE, Josephson ME: Influence of gender on inducibility of ventricular arrhythmias in survivors of cardiac arrest with coronary artery disease. *Amer J Cardiol* 67: 537-539, 1991.
86. Buxton AE, Rosenthal ME, Marchlinski FE, Miller JM, Flores B, Josephson ME: Usefulness of the electrophysiologic laboratory for evaluation of proarrhythmic drug response in coronary artery disease. *Am J Cardiol* 67:835-842, 1991.
87. Vaitkus PT, Kindwall KE, Marchlinski FE, Miller JM, Buxton AE, Josephson ME: Differences in electrophysiologic substrate in patients with coronary artery disease and cardiac arrest or ventricular tachycardia: Insights from endocardial mapping and signal-averaged electrocardiography. *Circulation* 84:672-678, 1991.
88. Evans GT, Scheinman MM, Bardy G, et al: Predictor of in-hospital mortality after DC catheter ablation of atrioventricular junction: Results of a prospective, International, Multicenter Study. *Circulation* 84:1924-1937, 1991.
89. Hook BG, Rosenthal ME, Marchlinski FE, Buxton AE, Josephson ME: Results of electrophysiological testing and long-term follow-up in patients sustaining cardiac arrest only while receiving type IA antiarrhythmic agents. *PACE* 15:324-333,1991.
90. Hook BG, Marchlinski FE, Josephson ME, Buxton AE: Effect of high current stimulation in patients with sustained ventricular tachycardia rendered noninducible by antiarrhythmic drugs. *Am J Cardiol* 70:752-757, 1992.
91. Buxton AE, Josephson ME, Marchlinski FE, Miller JM: Polymorphic ventricular tachycardia induced by programmed stimulation: Response to Procainamide. *J Am Coll Cardiol* 21:90-8,1993.
92. Buxton, AE, Kleiman RB, Kindwall KE, Josephson ME: Endocardial Mapping During Sinus Rhythm in Patients with Coronary Artery Disease and Nonsustained Ventricular Tachycardia. *Am J Cardiol* 71:695-698, 1993.
93. Buxton AE, Fisher JD, Josephson ME, Lee KL, Pryor DB, Prystowsky EN, Simson MB, DiCarlo L, Echt DS, Packer D, Greer GS, Talajic M, et al: Prevention of Sudden Death in Patients with

- Coronary Artery Disease: The Multicenter Unsustained Tachycardia Trial (MUSTT). *Prog Cardiovasc Dis* 36: 215-226, 1993.
94. Vaitkus PT, Miller JM, Buxton AE, Josephson ME, Laskey WK: Ischemia-induced changes in human endocardial electrograms during percutaneous transluminal coronary angioplasty. *Am Heart J* 127:1481-1490, 1994.
 95. The AVID Investigators: Antiarrhythmics versus defibrillators (AVID)-Rationale, design, and methods. *Am J Cardiol* 75:470-475, 1995.
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INVITED PRESENTATIONS

1. Tachycardias: Mechanisms, Diagnosis, and Treatment, sponsored by The University of Pennsylvania School of Medicine and the University of Limburg, Maastricht, Philadelphia, PA. April, 1982
2. Symposium on Chronic Antiarrhythmic Therapy "Electrical stimulation to predict and assess antiarrhythmic efficacy" Ghent, Belgium, June 3-4, 1982
3. Kentucky Medical Association and Kentucky Chapter, American College of Physicians - "Sudden cardiac death", and "Reentrant cardiac arrhythmias" Louisville, Kentucky, 23, 1982.

4. Coney Island Hospital - Medical Grand Rounds, "Electrophysiologic approach to ventricular tachycardia" Brooklyn, NY, April 7, 1983.
5. St. Michael's Medical Center - "Electrophysiological approach to the management of ventricular tachycardia." Newark, NJ, April 13, 1983.
6. International workshop on "New progress in the identification of patients at risk of ventricular tachyarrhythmias" Altenberg, Germany. August 31-September 3, 1983.
7. Cardiology Rounds, "Antiarrhythmic drugs-present and future." Brandywine Hospital, December 2, 1983.
8. Upstate Medical Center - "Management of intractable ventricular arrhythmias" Syracuse, NY, December 8, 1983.
9. St. Joseph's Hospital, "The role of electrophysiologic techniques in the selection of antiarrhythmic agents for ventricular arrhythmias" Reading, PA. May 12, 1984.
10. National Institutes of Health Symposium, "Role of electrophysiologic studies in identifying arrhythmogenic properties of antiarrhythmic drugs." Bethesda, MD. September 6, 1984.
11. Hartford Hospital, "Nonsustained ventricular tachycardia: prognosis and treatment" Hartford, CT. October 5, 1984.
12. St. Louis University Medical Center, "Cardiac arrhythmias: New perspectives in assessment and treatment - 1984 Update" St. Louis, MO. October 19, 1984.
13. North Penn Hospital, "Ventricular tachycardia." Lansdale, PA. October 26, 1984.
14. American College of Cardiology, Pennsylvania Affiliate, "Cardiac mapping." Harrisburg, PA. December 5, 1984.
15. St. Luke's Hospital, "The Long QT Syndrome" Bethlehem, PA. December 18, 1984.
16. New York Medical College, "Surgery for ventricular tachycardia." Valhalla, NY. February 26, 1985.
17. Medical Grand Rounds, The Reading Hospital and Medical Center, "Ventricular Tachycardia." Reading, PA. March 20, 1985.
18. Lancaster General Hospital, "Arrhythmias in the geriatric patient: new concepts and current therapy." Lancaster, PA. March 28, 1985.
19. American Association for Thoracic Surgery, "Surgery for Ventricular Tachycardia". New Orleans, LA. April 30, 1985.
20. International symposium on invasive cardiovascular therapy--recent advances and future developments, "Surgical therapy of ventricular tachycardia". Cologne, Germany. May 5-8, 1985.
21. Maine Medical Center, -Medical Grand Rounds, - "Ventricular Tachycardia." Portland, ME. December 4, 1985.
22. Medical College of Pennsylvania, "Surgical approaches to Ventricular Tachycardia". Philadelphia, PA. December 10, 1985.
23. Clinical Pathologic Conference, Temple University, "Sudden Death." Philadelphia, PA. December 18, 1985.
24. Medical Grand Rounds - New York Medical College, "Nonsustained ventricular tachycardia - mechanism & management". Valhalla, NY. January 14, 1986.
25. Albert Einstein Medical Center, -"Rationale for treatment of Ventricular Tachycardia". Philadelphia, PA. January 29, 1986.

26. Cardiology Conferences, University of Iowa, "Cardiac electrophysiologic studies in patients with nonsustained ventricular tachycardia" and "Atrial fibrillation and flutter: Insights from the clinical EP lab." Iowa City, IA. June 18-19, 1986.
27. Symposium on Cardiac Arrhythmias, "Arrhythmogenic effects of antiarrhythmic drugs: Role of electrophysiologic studies." Munich, Germany. September 23-26, 1986.
28. Medical Grand Rounds, Graduate Hospital, "Sudden Death". Philadelphia, PA. October 17, 1986.
29. St. Joseph's Medical Center, - "Sudden Death." Hazleton, PA. October 17, 1986.
30. Cardiology Conference, George Washington University Medical Center, - "Nonsustained ventricular tachycardia" and "Non-pharmacologic treatment of ventricular arrhythmias". Washington, D.C. November 8, 1986.
31. New York Medical College, "Sudden Death." Valhalla, NY. December 2, 1986.
32. Ventricular tachycardia arrhythmia update Symposium, "The role of the electrophysiologic test in the diagnosis and management of ventricular tachyarrhythmias." Dallas, TX. February 6-7, 1987.
33. Medical Grand Rounds, Coney Island Hospital, "Ventricular Tachycardia." Brooklyn, NY. September 10, 1987.
34. South Nassau Community Hospital, "Evaluation of risk for sudden death". Oceanside, NY. January 12, 1988.
35. Reading Hospital Grand Rounds, "Life threatening arrhythmias." Reading, PA. February 3, 1988.
36. Grand Rounds, West Chester County Medical Center, "Ventricular tachycardia." Valhalla, NY. May 17, 1988.
37. Medical Grand Rounds - Bethesda Naval Hospital, - "Sudden Cardiac Death." Bethesda, MD. September 15, 1988.
38. Brandywine Hospital, - "Identification of patients at risk for sudden cardiac death." Caln Township, PA. October 14, 1988.
39. North American Society of Pacing and Electrophysiology, "Electrophysiologic Core Curriculum: Symposium - Evaluation and management of patients with ventricular Tachyarrhythmias." Toronto, CANADA. May 4, 1989.
40. Hartford Hospital, "Nonsustained ventricular tachycardia." Hartford, CT. April 6, 1990.
41. Eighth Annual Cardiology Seminar - Bellin Memorial Hospital, "Identification of patients at risk for sudden cardiac death." Green Bay, WI. May 10, 1990.
42. Medical Grand Rounds - Ottawa Heart Institute, "Proarrhythmic potential of antiarrhythmic drugs." Ottawa, Ontario, CANADA. October 3, 1990.
43. Post Graduate Cardiology Rounds - Ottawa Heart Institute, "Ventricular arrhythmias -- How should we treat them?" Ottawa, Ontario, CANADA. October 3, 1990.
44. Medical Grand Rounds - Ottawa Heart Institute, - "Sudden cardiac death." Ottawa, Ontario, CANADA. October 4, 1990.
45. Medical Grand Rounds - Hopital du Sacre-Coeur, - "Treatment of nonsustained ventricular tachycardia." Montreal, Quebec, CANADA . October 4, 1990.
46. Medical Grand Rounds - Hotel-Dieu de Montreal, "Treatment of nonsustained ventricular tachycardia." Montreal, Quebec, CANADA . October 5, 1990.
47. Medical Grand Rounds - Royal Victoria Hospital - "Ventricular tachycardia and surgical

- approach for ventricular tachycardia." Montreal, Quebec, CANADA. October 5, 1990.
48. Medical Grand Rounds - The Medical Center at Princeton - "Nonsustained ventricular tachycardia." Princeton, NJ. November 6, 1990.
 49. Medical Grand Rounds - Doylestown Hospital, - "Current perspectives in antiarrhythmic therapy" Doylestown, PA. January 22, 1991.
 50. Medical Grand Rounds - Bay State University Medical Center, "Ventricular arrhythmias" Springfield, MA. February 4, 1991.
 51. Medical Grand Rounds - Southern Illinois University Hospital, - "Pharmacologic therapy for ventricular tachyarrhythmias and patients at risk for sudden cardiac death." Springfield, IL. March 19, 1991.
 52. Medical Grand Rounds, Montefiore Medical Center - "Management of Nonsustained Ventricular Tachycardia." Bronx, New York. May 4, 1991.
 53. University of Massachusetts, "When and how to treat nonsustained ventricular tachycardia". Worcester, Massachusetts. May 8, 1991.
 54. New York Cardiology Fellows Society Debate, "Nonsustained ventricular tachycardia - Co-conspirator or innocent bystander" New York, New York. May 16, 1991.
 55. Medical Grand Rounds, University of Pennsylvania - "Management of Nonsustained Ventricular Tachycardia." Philadelphia, PA. July 3, 1991
 56. Medical Grand Rounds - Abington Memorial Hospital - "Electrophysiology of the Heart." Abington, PA. December 3, 1991.
 57. Medical Grand Rounds - Washington Hospital Center, "Therapy for SVA: Treatment Methods and Modalities." Washington, DC. December 4, 1991.
 58. Symposium - Columbia University, Supraventricular Arrhythmias: Clinical Perspectives and Management, "Mechanisms and Non-Pharmacological Therapy." New York, NY. Dec. 7, 1991.
 59. Symposium: Supraventricular Arrhythmias: Clinical Perspectives and Management, "Therapy: Non-Pharmacological." Philadelphia, PA. January 4, 1992.
 60. Symposium: Future Directions in the Treatment of Cardiac Arrhythmias, "Nonsustained Ventricular Tachycardia - Significance, Management and Current Clinical Trials." Boston, MA. February 7, 1992.
 61. Medical Grand Rounds - St. Joseph's Hospital, "Treatment of Ventricular Arrhythmias." Reading, PA. February 21, 1992.
 62. Medical Grand Rounds - Temple University, Mechanisms of Nonsustained Ventricular Tachycardia." Philadelphia, PA. February 21, 1992.
 63. Cardiology Grand Rounds - Montefiore Medical Center, "The MUSTT Study." Bronx, NY. February 25, 1992.
 64. Cardiology Update - American Heart Association, Nassau Region, "Sudden Cardiac Death After Myocardial Infarction: Who is at risk, What can we do?" Garden City, NY. March 11, 1992.
 65. University of Pennsylvania Symposium on Supraventricular Arrhythmias: Clinical Perspectives and Management, "General Mechanisms" and "Mechanism and Diagnosis of Atrial Fibrillation/Flutter." Philadelphia, PA. March 14, 1992.
 66. Cardiology Grand Rounds - Rhode Island Hospital - Brown University Program in Medicine, "Nonsustained ventricular tachycardia - clinical significance, mechanisms, and management". Providence, RI. April 3, 1992.

67. Cardiology Grand Rounds - Albert Einstein Medical Center, "Treatment Methods and Modalities for Supraventricular Arrhythmias". Philadelphia, PA. April 22, 1992.
68. Fifth Annual Scientific Session of Advances in Arrhythmia Management and Cardiac Pacing - Mercy Heart Institute, "Implantable Cardioverter Defibrillators: Era of Improved Technology and Expanded Indications, Role of Anti-arrhythmic Medications - Amiodarone Prolongs Survival." Sacramento, CA. April 24,25, 1992.
69. Samuel Epstein Lecture - Coney Island Hospital, "Arrhythmias - To treat or not to treat." Brooklyn, NY. May 6, 1992.
70. Grand Rounds - Deborah Heart & Lung Center, ""Treatment Methods and Modalities for Supraventricular Arrhythmias." Browns Mills, NJ. May 7, 1992.
71. AICD Clinical Symposium, "The MUSTT Study." Chicago, IL. May 13, 1992.
72. Clinical Tutorial, North American Society of Pacing and Electrophysiology - "Nonsustained VT: Who and How to Treat." Chicago, IL. June 2, 1992.
73. Medical Grand Rounds - Wayne General Hospital, "Management of NSVT." Wayne, NJ. May 14, 1992.
74. Pacing & Electrophysiology Symposium, "Drug Therapy for Ventricular Arrhythmias." Cromwell, CT. June 3, 1992.
75. Cardiology Grand Rounds - Yale University School of Medicine, "Treatment Methods and Modalities for Supraventricular Arrhythmias." New Haven, CT. June 26, 1992.
76. Columbia University Symposium: Issues in Arrhythmia Management: What Constitutes Appropriate Therapy in 1992? - What Constitutes Prognostically Significant Ventricular Ectopy?" Lake George, NY. August 22, 1992.
77. Cardiology Grand Rounds - University of Vermont, "Non-Sustained Ventricular Tachycardia" Burlington, VT. September 9, 1992.
78. Clinical Electrophysiology: Cardiovascular Board Review, presented by The American College of Cardiology, with the cooperation of: The Pennsylvania Chapter - American College of Cardiology, Likoff Cardiovascular Institute, and Hahnemann University. Philadelphia, PA. September, 1992.
79. American Heart Association, New Hampshire Affiliate, Annual Scientific Session: Diagnosis and Management of Cardiac Arrhythmias, "Post Infarction Ventricular Ectopy: Who to Treat." Waterville Valley, NH. October 3, 1992.
80. Medical Grand Rounds - Episcopal Hospital, "Treatment of Ventricular Tachycardia - Post Myocardial Infarction." Philadelphia, PA. October 8, 1992.
81. Medical Grand Rounds - Coney Island Hospital, "From PVC To Sudden Death." Brooklyn, NY. October 22, 1992.
82. Grand Rounds - New York University Medical Center, "The Significance of Nonsustained Ventricular Tachycardia after Myocardial Infarction." New York, NY. December 3, 1992.
83. Cardiology Grand Rounds - Medical College of Pennsylvania, "NSVT: What is its Clinical Significance." Philadelphia, PA. December 8, 1992.
84. Visiting Professor - Methodist Hospital, "Ventricular Tachycardia." Philadelphia, PA. January 5, 1993.
85. North American Society of Pacing and Electrophysiology Policy Conference "Standardized Reporting of of ICD Patient Outcome" , "An Appropriate Definition of Sudden Death." Montefiore Medical Center, Bronx, NY. February 9, 1993.

86. American College of Cardiology, Symposium on "Ventricular Tachycardia Mechanisms and Therapy": "Monomorphic VT in Chronic CAD." Anaheim, CA. March 16, 1993.
87. European Society of Cardiology - Update in Sudden Cardiac Death, - "Current Status and Preliminary Results of the MUST Trial." Vienna, Austria. March 25-27, 1993.
88. North American Society of Pacing and Electrophysiology, Meet the Experts Panel, "The Spectrum of Approaches to Nonsustained VT." San Diego, CA. May 7, 1993.
89. North American Society of Pacing and Electrophysiology, - "The MUST Trial." San Diego, CA. May 8, 1993.
90. University of Nebraska Medical Center, - "Mechanisms of Sudden Death in Patients with Coronary Artery Disease." Omaha, NE. May 15, 1993.
91. Cardiology Grand Rounds - Beth Israel Hospital, "Mechanisms and Significance of Nonsustained VT in the Post-infarction Patient." Boston, MA. June 3, 1993.
92. Cardiology Grand Rounds - University of Massachusetts, "Mechanisms and Treatment of Supraventricular Tachycardia." Worcester, MA. June 10, 1993.
93. Medical Grand Rounds - University of New Mexico, "Approaches to Prevention of Sudden Cardiac Death after Acute Myocardial." Albuquerque, NM. July 8, 1993.
94. Cardiology Conference - Albany Medical College, "The MUSTT Trial." Albany, NY. July 16, 1993.
95. Beth Israel Medical Center, Symposium on Sudden Cardiac Death, "Mechanisms of Sudden Cardiac Death", "Methods to screen for risk of Sudden Death." Boston, MA. September 9, 1993.
96. Winthrop University Hospital, "Prevention of Sudden Death After Myocardial Infarction – The MUST Trial" Mineola, NY. September 30, 1993.
97. Houston EP Society, -"Mechanisms and Clinical Significance of Nonsustained VT." Houston, TX. October 20, 1993
98. University of Texas Medical Center, -"Mechanisms and Pharmacological Treatment of Supraventricular Tachycardia." Houston, TX. October 21, 1993.
99. American Heart Association, Delaware Affiliate, Annual Scientific Sessions, "The Management of Patients with Nonsustained VT." Wilmington, DE. October 23, 1993.
100. American Heart Association Cardiovascular Conference, - "Electrophysiologic Studies in the Evaluation of Syncope." Atlanta, GA. November 9, 1993.
101. Lankenau Hospital, Cardiology Grand Rounds, "Evaluation of the Patient with Nonsustained VT." Philadelphia, PA. November 24, 1993.
102. Medical Grand Rounds, New York Medical College, "Prediction of Risk for Sudden Death in the Patient with Coronary Artery Disease." Valhalla, NY. 15, 1993.
103. American Heart Association, Maine Affiliate, Annual Scientific Sessions, "Mechanisms and Management of Nonsustained Ventricular Tachycardia." Portland, ME. January 29, 1994.
104. Medical Grand Rounds, Monmouth Medical Center, "Prevention of Sudden Death After Myocardial Infarction." Long Branch, NJ. February 24, 1994.
105. Medical Grand Rounds, Bryn Mawr Hospital, "The relation of nonsustained VT to Sudden Death after Myocardial Infarction." Bryn Mawr, PA. March 10, 1994.
106. American College of Cardiology, - Symposium on Prevention of Sudden Death, "Ongoing Clinical Trials with Antiarrhythmic Drugs and Defibrillators." Atlanta, GA. March 15, 1994.

107. Temple University Geriatric Board Review Course. "Arrhythmias in the Elderly" Lancaster, PA. March 18, 1994.
108. University of Kentucky, " The Relationship Between Non-sustained Ventricular Tachycardia and Sudden Death." Lexington, KY. May 10, 1994.
109. Clinical Electrophysiology: Cardiovascular Board Review, presented by The American College of Cardiology, "Interpretation of Intracardiac Tracings in Patients with Bypass Tracts." Philadelphia, PA. September 21-24, 1994.
110. Clinical Electrophysiology: Cardiovascular Board Review, presented by The American College of Cardiology, "Atypical Ventricular Tachycardias." Philadelphia, PA. September 21-24, 1994.
111. Clinical Electrophysiology Board Review, presented by Harvard medical School, "Nonsustained Ventricular Tachycardia: Significance, Mechanisms, Management." Boston, MA. September 26-29, 1994.
112. Clinical Electrophysiology Board Review, presented by Harvard medical School, "Ventricular Tachycardias Associated with Nonischemic Heart Disease." Boston, MA. September 26-29, 1994.
113. Symposium on Current Cardiac Therapy, Oakwood Hospital, - "Primary Prevention of Sudden Cardiac Death." Detroit, MI. October 5, 1994.
114. Plenary Session VII: "Risk Stratification and Interventions for Ventricular Arrhythmias", American Heart Association 67th Scientific Sessions, - "Nonsustained Ventricular Tachycardia in Ischemic Heart Disease." Dallas, TX, November 15, 1994.
115. Symposium: Cardiac Transplantation and the Management of End-Stage Heart Failure in the 1990s, presented by Temple University School of Medicine, "Management of Arrhythmias in Patients with Congestive Heart Failure." Philadelphia, PA. December 10, 1994.
116. Presbyterian Medical Center, - "Primary Prevention of Sudden Death in Patients with Ischemic Heart Disease." Dallas, TX. March 22, 1995.
117. Presbyterian Medical Center, - "Mechanisms of Sudden Death in Ischemic Heart Disease" Philadelphia, PA. April 12, 1995.
118. Allegheny General Hospital, - "The Relationship of Nonsustained VT to Sudden Death in Ischemic Heart Disease." Pittsburgh, PA. April 20, 1995.
119. North American Society of Pacing and Electrophysiology, Core Curriculum - The Major Multicenter Trials, " The Multicenter UnSustained Tachycardia Trial." Boston, MA, May 6, 1995.
120. Albany Medical College, - "Approach to Management of the Patient with Non-sustained Ventricular Tachycardia." Albany, NY. June 16, 1995.
121. Vanderbilt University Cardiology Grand Rounds, - "The Primary Prevention of Sudden Death in Patients with Coronary Artery Disease." Nashville, TN. November 8, 1995.
122. University of Michigan Cardiology Grand Rounds, - " Mechanisms of Sudden Death in Patients with Coronary Artery Disease." Ann Arbor, MI. January 16, 1996.
123. Cooper Hospital/University Medical Center Cardiology Grand Rounds, - "The spectrum of ventricular arrhythmias in coronary artery disease." Camden, NJ. March 8, 1996.
124. University of Louisville Cardiology Grand Rounds, - "Sudden Death in Patients with Coronary Artery Disease - Ongoing Trials." Louisville, KY. March 20, 1996.
125. Hahneman University Cardiology Grand Rounds, - "Approach to the Patient with Coronary Disease and Ventricular Tachycardia." Philadelphia, PA. April 12, 1996.

126. American Heart Association, Council on Clinical Cardiology, Basic Science, and Nursing Symposium: "Sudden Cardiac Death: Past, Present and Future", - "Prospective Identification of the Problem." Washington, DC .April 20, 1996.
127. North American Society of Pacing and Electrophysiology, - Mini-Course, "Prevention of Cardiac Arrest in High Risk Individuals", "The MUSTT Trial: Rationale and Status." Seattle, WA. May 15, 1996.
128. North American Society of Pacing and Electrophysiology, - Meet the Experts Luncheon, "Who Needs Electrophysiologic Testing for Ventricular Tachycardia-Ventricular Fibrillation?" Seattle, WA. May 17, 1996.
129. American College of Cardiology - Santa Fe Colloquium on Cardiovascular Therapy, "Arrhythmias Complicating Acute Myocardial Infarction." Santa Fe, NM. October 11, 1996.
130. University of Texas - Houston, - Cardiology Grand Rounds, - "Prevention of Sudden Death after Myocardial Infarction." Houston, TX. October 24, 1996.
131. Tulane University Cardiology Symposium - "Nonsustained Ventricular Tachycardia in Coronary Artery Disease - To Treat or Not to Treat." New Orleans, LA. November 9, 1996.
132. Temple University School of Medicine, - Medical Grand Rounds, - "Treatment of Ventricular Arrhythmias in Patients with Coronary Artery Disease." Philadelphia, PA. November 13, 1996.
133. Cook County Hospital, - Cardiology Rounds, - "Mechanisms and Therapy of Atrial Arrhythmias" Chicago, IL. November 21, 1996.
134. Rush-Presbyterian Medical Center, - Cardiology Grand Rounds, - "Treatment of Supraventricular Arrhythmias - Drugs versus Ablation." Chicago, IL November 21, 1996.
135. St. Mary Medical Center, - "Mechanisms of Sudden Death in Patients with Coronary Artery Disease." Langhorne, PA. December 10, 1996.
136. Conemaugh Memorial Medical Center, - "Ventricular Arrhythmias After Myocardial Infarction - Contrasts and Comparisons." Johnstown, PA. December 11, 1996.
137. Beth Israel Hospital, - "The Primary Prevention of Sudden Cardiac Death-Impact of Recent Trials." Boston, MA. April 14, 1997.
138. United Health Services Hospitals, Krembs Cardiac Teaching Day - "Current Treatment of Atrial Fibrillation." Binghamton, NY. September 18, 1997.
139. Cook County Hospital, - Cardiology Rounds, - "Acute & Chronic Therapy of Atrial Fibrillation." Chicago, IL. October 17, 1997.
140. Northwestern University Medical Center, Cardiology Grand Rounds - "The Primary Prevention of Sudden Death in Ischemic Heart Disease." Chicago, IL. October 17, 1997.
141. American Heart Association Council on Clinical Cardiology, Cardiovascular Seminar, - "Drug Therapy and ICD Placement for Ventricular Arrhythmias - Randomized Trials". Orlando, FL. November 10, 1997.
142. University of Louisville, Cardiology Grand Rounds - "Mechanisms of Sudden Cardiac Death" Louisville, KY. March 18, 1998.
143. Germantown Hospital, Medical Grand Rounds - "Management of Atrial Fibrillation." Philadelphia, PA. April 3, 1998.
144. North American Society of Pacing and Electrophysiology, MiniCourse - "Risk Stratification for Sudden Cardiac Death, Noninvasive vs. Invasive - Electrophysiologic Studies." San Diego, CA. May 6, 1998.

145. North American Society of Pacing and Electrophysiology, Core Curriculum - "Recent Clinical Trials – MUSTT." San Diego, CA. May 7, 1998.
146. Cardiostim, Eleventh World Congress of Electrophysiology - "The Multicenter Unsustained Tachycardia Trial." Nice, FRANCE. June 20, 1998.
147. Madrid Interventional Cardiology Course - The Multicenter Unsustained Tachycardia Trial" Madrid, SPAIN. July 10, 1998.
148. University of Maryland, Cardiology Grand Rounds – “Electrophysiologic Characterization of Patients with Ventricular Arrhythmias Complicating Coronary Artery Disease.” Baltimore, MD. Dec. 3,1998.
149. American College of Cardiology , National Meeting – “The Multicenter UnSustained Tachycardia Trial” (“Late breaking clinical trials”). New Orleans, LA. March 8, 1999.
150. Tenth Madrid Arrhythmia Course – “The MUSTT Trial.” Madrid, SPAIN. April 15, 1999.
151. North American Society of Pacing and Electrophysiology, 20th Annual Meeting – Mini-Course – “Clinical Trials – Results of the MUSTT Trial.” Toronto, Ontario. May 12, 1999.
152. North American Society of Pacing and Electrophysiology, 20th Annual Meeting – Core Curriculum – “An Update on the Recent Clinical Trials – New Results of the MUSTT Trial” Toronto, Ontario. May 13, 1999.
153. North American Society of Pacing and Electrophysiology, 20th Annual Meeting - Core Curriculum – “Primary Prevention Trials in Patients with Congestive Heart Failure.” Toronto, Ontario. May 15, 1999.
154. Northwestern University Cardiology Conference – “Electrophysiologic and Clinical Characteristics of Patients with Coronary Artery Disease and Ventricular Tachyarrhythmias.” Chicago, IL November 16, 1999.
155. Chicago Electrophysiological Society – “The Multicenter Unsustained Tachycardia Trial.” Chicago, IL. November 16, 1999.
156. Massachusetts General Hospital Cardiology Grand Rounds – “Prevention of Sudden Death in Patients with Coronary Artery Disease.” Boston, MA. December 22, 1999.
157. Hartford Hospital - Visiting Professor - “Primary Prevention of Sudden Death in Patients with CAD.” Hartford, CT. February 8, 2000.
158. St. Francis Hospital - “Prevention of Sudden Death - Clinical Approaches.” Hartford, CT February 10, 2000
159. Montreal Heart Institute - “Results of the MUSTT Trial” Montreal, Canada February 17, 2000.
160. Legacy Heart Institute - Cardiac Visiting Professor - “What has the MUSTT Taught Us?” Portland, OR. March 1, 2000.
161. Maine Medical Center - Medical Grand Rounds - “Primary Prevention of Sudden Death” Portland, ME. March 29, 2000.
162. Baystate Medical Center - Annual Symposium - “Primary Prevention of Sudden Death in 2000: ICDs? Drugs?” Springfield, MA .March 31, 2000.
163. University of Miami - Cardiology Grand Rounds - “New Findings from the MUSTT Study” Miami, FL April 5, 2000.
164. Cleveland Clinic - Visiting Professor - Heart Center Grand Rounds - “Prevention of Sudden Death in Patients with Coronary Disease.” Cleveland, OH. April 26, 2000.

165. American College of Physicians - Annual Session Workshop - "Antiarrhythmic Therapy: Drugs, Devices, and Ablation." Philadelphia, PA. April 15, 2000.
166. Congress - 2000: Future of Arrhythmology - "The Role of ICD Therapy in the Primary Prevention of VT/VF" Maastricht, The Netherlands. April 16, 2000.
167. North American Society of Pacing and Electrophysiology, 21st Annual Meeting – Core Curriculum – "MUSTT Substudies." Washington, DC. May 18, 2000.
168. North American Society of Pacing and Electrophysiology, 21st Annual Meeting – Featured Symposium - "Risk Stratification for Sudden Death." Washington, DC. May 19, 2000.
169. Cardiostim 2000 - 12th International Congress - "The Multicenter Unsustained Tachycardia Trial and Its Implications." Nice, France. June 14, 2000.
170. Cardiostim 2000 - 12th International Congress - "Risk Stratification for Sudden Death: Is There a Role for Electrophysiologic Study?" Nice, France. June 15, 2000.
171. Cardiostim 2000 - 12th International Congress - "Has MADIT Made It? Can We Trust MUSTT?" Nice, France. June 16, 2000.
172. Cardiostim 2000 - 12th International Congress - "Nonsustained VT from Holter: Diagnostic Value Revisited by MADIT and MUSTT." Nice, France. June 16, 2000.
173. Heart Failure Society of America – 4th Annual Scientific Meeting – "ICD Clinical Trials and their Relevance in Heart Failure" Boca Raton, Florida. September 13, 2000
174. American College of Cardiology, Michigan Chapter Annual Meeting - "Identification of Patients at Risk for Sudden Death" Traverse City, MI. October 14, 2000.
175. American Heart Association 73rd Scientific Sessions, Plenary Session II: "Who Needs an ICD the Week After MI?" New Orleans, LA . November 13, 2000.
176. Penn State College of Medicine, Cardiology Grand Rounds: "How to Prevent Sudden Death After MI – Results of Recent Trials." Hershey, PA. November 20, 2000.
177. St. Luke's-Roosevelt Hospital Center, Cardiology Grand Rounds: "Utility of the Signal-Averaged ECG to Predict Sudden Death – Results of the MUSTT Trial." New York, NY. December 6, 2000.
178. Eastern Virginia Medical School, Conference on Sudden Cardiac Death: Prevention and Treatment: "Primary and Secondary Prevention of Sudden Cardiac Death." Norfolk, VA. January 11, 2001.
179. Veterans Administration Hospital, Cardiology Grand Rounds, "Prevention of Sudden Death After MI – Results of recent Trials" West Roxbury, MA. February 22, 2001.
180. University of California at San Diego, Cardiology Grand Rounds, "Risk Stratification and Prevention of Sudden Death After MI" San Diego, CA. April 11, 2001.
181. North American Society of Pacing and Electrophysiology, 22nd Annual Meeting – Mini-Course - Advances in Non-Invasive Risk Stratification – "Risk Stratification in Patients with Ischemic Heart Disease: Should we Resuscitate the Signal-Averaged ECG?" Boston, MA. 2, 2001.
182. Case Western Reserve University, Cardiology Grand Rounds, "Identification of Patients with Coronary Artery Disease at Risk for Sudden Death." Cleveland, OH. May 10, 2001.
183. University of Pennsylvania, Cardiology Grand Rounds, "Prevention of Sudden Death in Patients with Ischemic Heart Disease." Philadelphia, PA. May 24, 2001.
184. Heart Failure Society of America – 5th Annual Scientific Meeting – "Prevention of Sudden Death in Patients with Heart Failure- Evidence from Recent Clinical Trials." Washington, DC. Sept.11, 2001.

185. North American Society of Pacing and Electrophysiology, 23rd Annual Meeting – Core Curriculum – Update on Clinical Trials – “The MUSTT Study – Recent Substudies.” San Diego, CA May 9, 2002.
186. North American Society of Pacing and Electrophysiology, 23rd Annual Meeting – Featured Symposium – Impact of Device Therapy on the Management of Patients with Ventricular Arrhythmias – “Lessons from Primary Prevention Trials in Patients with Coronary Artery Disease” San Diego, CA. May 10, 2002.
187. 11th International Congress on Cardiovascular Pharmacotherapy – “Management of Ventricular Arrhythmias.” Montreal, Canada. May 21, 2002.
188. Indiana University School of Medicine, Cardiology Grand Rounds – “Prevention of Sudden Death in Patients with Coronary Artery Disease” Indianapolis, IN. July 15, 2002.
189. University of Minnesota, Cardiology Grand Rounds - “Prevention of Sudden Death in Patients with Coronary Artery Disease” Minneapolis, MN. December 11, 2002.
190. Temple University School of Medicine Medical Grand Rounds – “Prevention of Sudden death in Patients with Ischemic Heart Disease.” Philadelphia, PA. January 8, 2003.
191. Northwestern University School of Medicine, Cardiology Research Conference - “Prevention of Sudden death in Patients with Ischemic Heart Disease.” Chicago, IL. April 8, 2003.
192. Cornell Medical School – Update on Cardiac Arrhythmias – “Primary Prevention of Sudden Death.” New York, NY. April 12, 2003.
193. North American Society of Pacing and Electrophysiology, 24th Annual Meeting – Controversies Electrophysiology – Risk stratification in coronary disease: All you need is EF – Antagonist. - Washington, DC May 15, 2003.
194. North American Society of Pacing and Electrophysiology, 24th Annual Meeting – Core Curriculum – Noninvasive risk stratification in coronary disease – data from the MUSTT study - Washington, DC May 16, 2003.
195. American Heart Association 76th Annual Scientific Sessions – Cardiovascular Seminar – Electrophysiology of Sudden Cardiac Death, “Prevention of Sudden Cardiac Death – Role of Devices”. Orlando, FL November 9, 2003.
196. Beth Israel/Deaconess Medical Center, Cardiology Grand Rounds – “Mechanisms and Prevention of Sudden Death in Patients with Coronary Artery Disease”. Boston, MA October 24, 2003.
197. American College of Cardiology, Annual Scientific Session – Chair, Panel, “New Implantable Cardioverter Defibrillator Indications” New Orleans, LA. March 8, 2004.
198. Temple University School of Medicine, “Advances in Management of Heart Failure – Interventional Treatment of Heart Failure – ICDs and Pacemakers” Philadelphia, PA May 1, 2004
199. Tulane University School of Medicine, Medicine Grand Rounds, “Prevention of Sudden Death – How Should Recent Trials Affect management?” New Orleans, LA May 12, 2004
200. Tulane University School of Medicine, Cardiology Grand Rounds, “Prevention of Sudden Death in Patients with Coronary Disease – A New Paradigm) New Orleans, LA May 12, 2004
201. Heart Rhythm Society Annual Meeting. Chair, Featured Symposium: “Sudden Cardiac Death –An Evolving Paradigm” San Francisco, CA May 21, 2004
202. Heart Rhythm Society Annual Meeting. Featured Debate – “Risk Stratification for VT by Noninvasive Methods is Possible – Antagonist” San Francisco, CA May 21, 2004
203. University of Pennsylvania School of Medicine. Leonard Horowitz Memorial Lecture. “Does Everyone with Heart Disease Need an ICD? Can We Identify the Low risk Patient?”

204. Vanderbilt University. Cardiology Grand Rounds. "Prevention of Sudden Death – How Benefits from the ICD?"
Nashville, TN October 20, 2004
205. DAVID II Trial Steering Committee Meeting, Keynote Address. "The Current State of Clinical Trials for Prevention of Sudden Death. Where are we now? Where Do we Go?"
Seattle, WA October 22, 2004
206. American Heart Association Annual Scientific Sessions – "Controversies in Clinical Cardiology: Everyone with an Ejection Fraction of <0.40 Should Receive an AICD: Con"
New Orleans, LA November 8, 2004.
207. Brigham and Womens' Hospital. Cardiology Grand Rounds - "Does Everyone with Heart Disease Need an ICD?"
Boston, MA January 27, 2005
208. UMDNJ, Cooper Hospital. Cardiology Grand Rounds - "Identifying Patients with Coronary Disease Who Need an ICD"
Camden, NJ February 9, 2005
209. American College of Cardiology, Annual Scientific Session – Great Debates in Electrophysiology: Patients With Idiopathic Dilated Cardiomyopathy Should Now Undergo Implanted Cardioverter Defibrillator Implantation When the Ejection Fraction Is Less Than 35%-- Antagonist
Orlando, FL March 6, 2005
210. Heart Rhythm Society Annual Meeting, Featured Debate: "Electrophysiologic Testing Should be Performed in All Coronary Disease Patients with EF 30-40% - Protagonist".
New Orleans, LA May 6, 2005.
211. American Heart Association Annual Scientific Sessions, Plenary Session: "Primary Prevention of Sudden Death in Ischemic Heart Disease".
Dallas, TX November 16, 2005
212. Society of Geriatric Cardiology, 12th Annual Scientific Session: Debate - "Interventions Such as ICDs Should be Used in the Elderly" (Pro)
Atlanta, GA March 11, 2006
213. American College of Cardiology, Annual Scientific Session – Co-Chair – "Great Debates in Electrophysiology"
Atlanta, GA March 12, 2006
214. American College of Cardiology, Annual Scientific Session – Panelist – "Analysis of Complex Arrhythmias"
Atlanta, GA March 12, 2006

GRANTS

1. Principal Investigator – "Mechanisms of Nonsustained Ventricular Tachycardia", National Institutes of Health, F 32 HL06201-01, 1980-81.
2. Principal Investigator – "Mechanisms of Nonsustained Ventricular Tachycardia", Pennsylvania Affiliate, American Heart Association, 1980-81.
3. Co-Investigator – "Ventricular Tachycardia: Electrophysiologic Substrates; NIH #HL28093", Principal Investigator, Mark E. Josephson, M.D., 8/1/82 - 7/31/88
4. Co-Investigator, Training Grant, "Clinical and Experimental Electrophysiology", NIH #HLO7346, University of Pennsylvania (7/1/83-1/31/93)
5. Co-Investigator – "Implantable Cardiac Defibrillators versus Antiarrhythmic Drug Therapy", National Institutes of Health, N01-HC-25117, 1993-1998, approximately \$8,000/year.
6. Principal Investigator – "Randomized Trial of Electrophysiologically Guided Therapy in Patients with Nonsustained Ventricular Tachycardia, Left Ventricular Dysfunction and Coronary Artery Disease", National Institutes of Health, 1 UO1-HL45700, 1991-1998, \$7,460,386. total award.

7. Principal Investigator – “Randomized Multicenter UnSustained Tachycardia Trial II”, 2004-2009, Total Award, Medtronic - \$10,000,000., St. Jude - \$2,000,000.
8. Principal Investigator – Medtronic Corp – “INISGHT Registry” of ICD Utilization – Approximately \$20,000./year, 2004 – 2006.

UNIVERSITY TEACHING ROLES

Emory University School of Medicine, Introductory Physical Diagnosis, 1975-76, 4 months, 4 students

University of Pennsylvania Medical School ID-205, Instructor "Applied Physiology" (1983-1990), approximately 30 students.

Elective Course: University of Pennsylvania Medical School - Medicine 314A, throughout the year (1981-86), 3-4 students.

University of Pennsylvania Medical School - AE-250 "Advanced Cardiac Life Support" - one hour lecture/year (1984-92), approximately 30 students.

"Mechanisms of Tachyarrhythmias", Bridge Curriculum, University of Pennsylvania School of Medicine, 1992, second year medical school class.

Introductory Physical Diagnosis Course Temple University School of Medicine - 5 months yearly (1994-1995), 4 students.

“Mechanisms of Cardiac Arrhythmias”, Temple University School of Medicine, 1999, second year medical school class.

“Introduction to Electrophysiology, the ECG, and Arrhythmias”, Brown Medical School, 2001-present, second year curriculum.

HOSPITAL TEACHING ROLES

Arrhythmia Evaluation Center, Hospital of the University of Pennsylvania, Director, one morning/week (1981-1993), 3 fellows.

Attending Physician – Cardiology Consult Service, Hospital of the University of Pennsylvania - two months/year (1981-1993), 1 fellow, 2 residents, 4 students.

Attending, Cardiology Clinic, Temple University Hospital, one morning/week, (2/1/93-8/1/99), 1-6 fellows.

ECG Interpretation Lecture Series, Temple University Hospital, 10 months/ year, 1 hr/wk, (1995-1999), 12 fellows.

Attending Physician, Cardiology Consultation Services, Temple University Hospital, 3 months/yr, (1995-1999), 1 fellow, 1 resident, 1 –2 students.

Brown Medical School Medical Housestaff Training Program – Administrate/Organize and deliver 9 lectures per year to housestaff on management of cardiac arrhythmias (2000-present)

Brown Medical School Emergency Room Housestaff Training Program – Administrate/Organize and deliver 3 lectures per year to housestaff on management of cardiac arrhythmias (1999-present)