

WILLIAM H. SPENCER III, M.D.
CURRICULUM VITAE

25 Courtenay Drive, ART 7063
Charleston, SC 29425

EDUCATION

Mooresville High School, Mooresville, NC	1953-1957
Duke University, Durham, NC- B.A.	1957-1961
Duke University School of Medicine - M.D.	1961-1965

MEDICAL TRAINING

Internship and Junior Assistant Residency - Osler Medical Service, Johns Hopkins Hospital Baltimore, MA	1965-1967
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Senior Assistant Residency - Duke University Medical Center Durham, NC	1969-1970
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Fellow, Cardiovascular Disease Service Duke University Medical Center Durham, NC	1970-1972
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PRACTICE

Private Practice - Partner Houston Cardiovascular Associates	1972-1994
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Baylor Cardiovascular Consultants Baylor College of Medicine	1994-1996
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Baylor Heart Clinic - Director	1996-2000
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Baylor College of Medicine Professor of Medicine	2000 to present
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Medical University of South Carolina Professor of Medicine	2000 to present
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MILITARY SERVICE

National Communicable Disease Center Atlanta, GA Streptococcus Unit - Lt. Commander	1967-1969
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TEACHING APPOINTMENTS

Clinical Instructor of Medicine Baylor College of Medicine, August 1972-July 1977	
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Clinical Asst. Professor of Medicine
Baylor College of Medicine, August 1977-July 1984

Clinical Associate Professor of Medicine
Baylor College of Medicine, August 1984-July 1990

Clinical Professor of Medicine
Baylor College of Medicine, August 1990-July 1994

Professor of Medicine
Baylor College of Medicine, August 1994 to present
Temple Professor of Medicine - Baylor College of Medicine, 1995 to present
Medical University of South Carolina, 2000 to present

HOSPITAL APPOINTMENTS

The Methodist Hospital, Houston, TX - Active Staff
Acting Director, Pacemaker Clinic, January 1992-July 1993
Assistant Director, Pacemaker Clinic, July 1993-July 1994
Director, Pacemaker Clinic, July 1994-June 2000

St. Luke's Episcopal Hospital, Houston, TX - Consulting Staff, 1973-2000
Woman's Hospital, Houston, TX - Consulting Staff, 1978-1986
Diagnostic Center Hospital, Houston, TX - Consulting Staff - 1993-2000

BOARDS

American Board of Internal Medicine, October 1970 - #34419
Subspecially Board in Cardiovascular Diseases, July 1973 - #34419

HONORS AND HONORARIES

Undergraduate:

Angier B. Duke Scholar, Duke University, Durham, NC
Phi Beta Kappa, Duke University, Durham, NC
Order of Hippocrates, Duke University, Durham, NC

Medical School:

Alpha Omega Alpha Medical Honorary
Roche Award 1963 & 1965
Lang Award 1965
Valedictorian 1965

Awards:

Distinguished Medical Alumnus, Duke University Medical Center, October 2000

Fraternity:

Alpha Tau Omega - Vice President, 1960-1961

MEDICAL SOCIETIES

American Heart Association
Council on Clinical Cardiology, Fellow
First Vice President, Houston Division - 1985
President, Houston Division - 1987
Chairman, Medical Campaign, Houston Division - 1990-1991

American College of Cardiology - Fellow

ACC-Cardiac Pacemaker Committee - March 1989 to present
ACC-Member, Annual Scientific Session Program
Committee - March 1989-March 1990
ACC/AHA-Member, Committee to Develop Guidelines for
Cardiovascular Evaluation for Non-Cardiac Surgery - 1994

American College of Physicians - Fellow

Harris County Medical Society

Houston Cardiology Society - Charter Member
Past President - 1986-1987

Houston Electrophysiology Society - 1988 to present

American Medical Association

Texas Medical Association

North American Society of Pacing & Electrophysiology
Finance Committee - 1986 to present
Chairman, Building Committee
NASPEExam - Examination of Special Competency -
Cardiac Pacing. Cert.#213 - 10-28-87

Michael E. DeBakey International Surgical Society

American Society of Cardiovascular Interventionists - 1990

OTHER

Editorial Board of CLINICAL CARDIOLOGY - 1988 to present

Duke Heart Center Board – 1998 to present

Heartbeat International
Operating Committee - 1990-1993
Board of Directors
Chairman, Ways & Means Committee
Member, Industry Relations Committee

International Medical Education Corporation Advisory Board – 1990-1995

International Academy of Cardiology, International Scientific Advisory Boards –
1998 to-date

Editorial Board of THE JOURNAL OF HEART DISEASE – 1999-2000

Editorial Board of CURRENT OPINION IN CARDIOLOGY - 1999

Aeromedical Services, The Methodist Hospital
Committee member for the development of aeromedical service

Chief Investigator:

- 1) Percutaneous Excimer Laser Coronary Angiography
- 2) Percutaneous Peripheral Excimer Laser Angioplasty
- 3) Intraoperative Excimer Laser Coronary Angioplasty

Co-Investigator:

- 1) Simultaneous Electrophysiologic Imaging of Both Atria During Septal Pacing Using Non-Contact, Multi-Electrode Cavitory Probes

Course Director - Annual "Advanced Pacing Concepts" Meetings

Coordinator - William L. Winters, Jr., M.D. Annual Lectureship

PUBLICATIONS:

1. Spencer WH, Thornsberry C, Moody MD, Wenger NK: Rheumatic fever chemoprophylaxis and penicillin-resistant-gingival organisms. *Ann. IM*, 1969.
2. Spencer WH, Peter RH, Orgain ES: Detection of a left atrial myxoma by echocardiography. *Arch. Intern. Med.* 128:787-789, 1971.
3. Spencer WH, Behar VS, Orgain ES: Apexcardiograms in patients with prolapsing mitral valves. *Amer. J. Card.*: 32:276-282, 1971. Contribution: Chief Investigator and Author.
4. Lawrie GM, Morris GC, Howell JF, Ogura JW, Spencer WH, Peterson PK, Lee JT: Results of coronary bypass more than five years after operation in 434 patients. *Amer J. Card.*, Vol. 40:655, 1977.
5. Chapman DW, Cashion WR, Costin JC, Spencer WH: Chapter 8, "Clinical Manifestations of Ischemic Heart Disease: for the Text "Rehabilitation in Ischemic Heart Disease". 1981. Edited by Wm. P. Blocker, M.D., David Cardus, M.D., Robert Chahine, M.D., p. 89-97.
6. Film: "Anatomic Approach to Percutaneous Pacemaker Implantation" in conjunction with Baylor College of Medicine and Cordis 1981.
7. Nielson AP, Cashion WR, Spencer WH, Norton HJ, Devine GW, Schuenemeyer TD, Griffin JC: Chronic assessment of unipolar and bipolar stimulation and sensing thresholds using a lead configuration programmable pacemaker. *Jrnl. of Amer. Coll. Card.*, Vol. 5, May, 1985, pp. 1198-1204.
8. Contribution to Current Therapy in Cardiovascular Disease-2 with chapter entitled "Pacemakers: Implantation Techniques and Selection of Devices" – Nicholas J. Fortuin, M.D., Edited B.C. Decker Inc., pp. 233-235.
9. Rodgers G, Ruplinger J, Spencer WH, et al: Helicopter transport of patients with acute myocardial infarction. *Texas Medicine*, Oct., 1988, pp. 35-37.
10. Ostojic M, Young JB, Nedeljkovic S, Spencer WH, Winters WL, Pratt CM, Quinones MA, Milosevic M: Prediction of left ventricular ejection fraction using a unique method of chest x-ray and electrocardiographic heart volume and mass interrelationship". *Amer. H. Jrnl.*
11. Spencer WH, Markowitz T, Alagona P: Rate augmentation and atrial arrhythmias in DDDR pacing. *PACE* 213:1847-1951, December, 1990.
12. Contributor to Interventional Cardiology: Future Directions. Second Edition with chapter entitled "Optimal Pacing Therapy: Hemodynamics, Modes, and Devices". Edited by John H.K. Vogel, M.D. and Spencer B. King, III, M.D., 1991.

13. Fromm RF, Hoskins E, Cronin L, Pratt CM, Spencer WH, Roberts R: Bleeding complications following initiation of thrombolytic therapy for acute myocardial infarction: A comparison of helicopter-transported and nontransported patients. *Ann. Emer. Med.*, 108:892-894, August, 1991.
14. Gallik DM, Guidry GW, Mahmarian JJ, Verani MS, and Spencer WH: Comparison of ventricular function in atrial rate adaptive versus dual chamber rate adaptive pacing during exercise. *PACE*, 17(2):179-185, Feb., 1993.
15. Raghavan C, Gallinghouse J, MacLellan R, Kirkpatrick C, Metcalf J, Bray C, Zhu W, Rizo-Patron C, Spencer W, Maloney J: Adequacy of rate control therapy for atrial fibrillation in a pacemaker clinic population. Abstract in *PACE*, April 1994, 17(4)II:796.
16. Brinker J, Crossley G, Reynolds D, Spencer W, Johnson WB, Hurd H, et al: Chronic performance of a new bipolar steroid eluting active fixation lead: A multicenter randomized trial. *PACE*, April, 1994, 17(4)II:853.
17. Crossley GH, Brinker JA, Reynolds D, Spencer W, et al: Steroid elution improves the stimulation threshold in an active-fixation atrial permanent pacing lead. A randomized, controlled study. *Circ.*, 92(10):2935-2939, Nov.15, 1995.
18. Raghaven C, Cashion WR, Spencer WH: Malposition of Transvenous Pacing Lead in the Left Ventricle - A Case Report. *Clin. Cardio.* 19, 335-338 (May 1996).
19. Lakkis N, Kleiman N, Killip D, Spencer WH. Hypertrophic obstructive cardiomyopathy: Alternative therapeutic options. *Clin. Cardiol.* 20, 417-418 (May,1997).
20. Zhu D, and Spencer WH: Pacing Therapy for Atrial Tachyarrhythmias. *Clin. Cardiol.* 19(9): 737-42, 1996, (Sept. 1997).
21. Spencer WH, Zhu D, Kirkpatrick C, Killip D, Durand JB: Subclavian venogram as a guide to lead implantation. *PACE*; 21(3):499-502; March, 1998.
22. Spencer WH, Zhu DW, Markowitz et al. Atrial septal pacing: A method for pacing both atrial simultaneously. *PACE*; 20(11): 2739-2745, Nov., 1997.
23. Spencer WH. Nonsurgical septal reduction in hypertrophic obstructive cardiomyopathy. *ACC Educational Highlights*, 12(5):1-4, Fall, 1997.
24. Nagueh SF, Lakkis NM, He Z-X, Middleton K, Killip D, Zoghbi WA, Quinones MA, Roberts R, Verani MS, Kleiman NS, Spencer III WH. Role of myocardial contrast echocardiography during nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy. *JACC* 1998 Jul;32(1):225-9.
25. Lakkis NM, Nagueh SF, Kleiman NS, Killip D, He ZX, Verani MS, Roberts R, Spencer WH. Echocardiography-guided ethanol septal reduction for hypertrophic obstructive cardiomyopathy. *Circulation* 1998 Oct 27;98(17):1750-5.
26. Nagueh SF, Lakkis NM, Middleton KJ, Spencer III WH, Zoghbi WA, et al. Doppler estimation of left ventricular filling pressures in patients with hypertrophic cardiomyopathy. *Circulation* 1999 Jan 19;99(2):254-61.
27. Nagueh SF, Lakkis NM, Middleton KJ, Killip D, Zoghbi WA, Quinones MA, Spencer III WH. Changes in left ventricular diastolic function 6 months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy. *Circulation* 1999 Jan 26;99(3):344-7.

28. Sun H, Velipasaoglu EO, Wu DE, Kopelen HA, Zoghbi WA, Spencer III WH, Khoury DS. Simultaneous multi-site mapping of the right and the left atrial septum in the canine intact beating heart. *Circulation* 1999 Jul 20;100(3):312-9.
29. Nagueh SF, Lakkis NM, Middleton KJ, Killip D, Zoghbi WA, Quinones MA, Spencer WH. Changes in left ventricular filling and left atrial function six months after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy. *JACC*, 1999;34(4):1123-1128.
30. Cheng TO, Spencer WH III, Lakkis NM, Nagueh SF, Kleiman NS, Killip D, He Z-X, Verani MS, Roberts R. Transcatheter alcohol septal ablation for hypertrophic obstructive cardiomyopathy (letter). *Circulation* 1999;100:1250-1252
31. Lakkis N, Nagueh S, Killip D, Torre G, Roberts R, Spencer WH. Non-surgical septal reduction for symptomatic hypertrophic obstructive cardiomyopathy: The Baylor Experience(1996-1999). *J Intervent Card* June 2000;13(3):157-59.
32. Spencer WH, Roberts R. Alcohol septal ablation in hypertrophic obstructive cardiomyopathy: the need for a registry. *Circulation* 2000 Aug 8;102(6):600-1.
33. Lakkis NM, Nagueh SF, Dunn JK, Killip D, Spencer WH. Nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy: One year follow-up. *JACC* 2000 Sep; 36(3):852-5.
34. Nagueh SF, Ommen SR, Lakkis NM, Killip D, Zoghbi WA, Schaff HV, Danielson GK, Quinones MA, Tajik AJ, Spencer WH. Comparison of ethanol septal reduction therapy with surgical myectomy for the treatment of hypertrophic obstructive cardiomyopathy. Submitted to *Circulation* 01-04-01.
35. Mazur W, Nagueh SF, Lakkis NM, Middleton KJ, Killip D, Roberts R, Spencer III WH. Regression of left ventricular hypertrophy after nonsurgical septal reduction therapy for hypertrophic obstructive cardiomyopathy. *Circulation* 2001;103(11):1492-96.
36. Nagueh SF, Stetson SJ, Lakkis NM, Killip D, Perez-Verdia A, Entman ML, Spencer III WH, Torre-Amione G. Decreased expression of tumor necrosis factor and regression of hypertrophy following non-surgical septal reduction therapy for patients with hypertrophic obstructive cardiomyopathy. *Circulation* 2001 April 10;103(14) :1844-1850.
37. Spencer WH. Profiles in Cardiology: Earl Bakken. *Clin. Cardiol.* 24,423(2001).
38. Lakkis N, Plana JC, Nagueh S, Killip D, Roberts R and Spencer WH. Efficacy of nonsurgical septal reduction therapy in symptomatic patients with obstructive hypertrophic cardiomyopathy and provokable gradients. *Amer J Cardiol.*, 88(5); September 2001, 583-586.
39. Nagueh SF, Ommen SR, Lakkis NM, Killip D, Zoghbi WA, Schaff HV, Danielson GK, Quinones MA, Tajik AJ, Spencer III WH. Comparison of ethanol septal reduction therapy with surgical myectomy for the treatment of hypertrophic obstructive cardiomyopathy. *JACC* 38(6); November 15, 2001, 1701-1706.
40. Nielsen CD, Spencer III WH. Role of controlled septal infarct in hypertrophic obstructive cardiomyopathy. *Cardiol Rev.* 2002 Mar-Apr; 10(2): 108-118
41. Nielsen CD, Killip D, Spencer III WH. Nonsurgical septal reduction therapy for obstructive cardiomyopathy in South Carolina: the MUSC experience (1999 through 2001). *J S C Med Assoc.* 2002 Apr; 98 (2): 62-5
42. Runquist L, Gazes PC, Nielsen CD, Killip D, Spencer III WH. Echocardiographic findings after nonsurgical septal radiation therapy for hypertrophic cardiomyopathy (HOCM). *Amer J Cardiol.* (in press).

43. Park T, Lakkis NM, Middleton KJ, Franklin J, Zoghbi WA, Quinones, MA, Spencer III, WH, Nagueh SF. Acute effect of nonsurgical septal reduction therapy on regional left ventricular asynchrony in patients with hypertrophic obstructive cardiomyopathy. *Circulation* Vol. 106(4), July 23, 2002, 412-415.
44. Gold MR, Spencer III WH. T wave alternans for ventricular arrhythmia risk stratification. *Current Opinion in Cardiology*. 2003, Vol. 18 (1), 1-5.
45. Fernandes VL, Nielsen C, Nagueh SF, Herrin AE, Silfka C, Franklin J, Spencer III WH. Follow-up of alcohol septal ablation for symptomatic hypertrophic obstructive cardiomyopathy. *JACCInt* 1(5), October 23, 2008, 561-570.
46. Cuoco FA, Spencer III WH, Fernandes VL, Nielsen CD, Nagueh S, Sturdivant JL, Leman RB, Wharton JM, Gold MR. Implantable cardioverter-defibrillator therapy for primary prevention of sudden death after alcohol septal ablation of hypertrophic cardiomyopathy. *JACC* 52 (21), 2008, 1718-1723.

ABSTRACTS:

1. Spencer WH, Thornsberry C, Moody MD, Wenger NK: Rheumatic fever chemoprophylaxis and penicillin-resistant gingival organisms. *Circulation* 40 (Suppl.III): 191, 1969. Presented at Forty-Second Annual Scientific Session, American Heart Association, Dallas, TX.
2. Spencer WH, Fuller DW, Floyd WKL: Effect of digoxin on the multi-stage exercise electrocardiogram. Presented at the Annual Scientific Session of the American College of Physicians, April 1974, New York City, NY.
3. Raizner AE, Ishimori T, Verani MS, Spencer WH, Guinn G, Chahine RA, Howell JF, Miller RR: Surgical relief of myocardial ischemia due to myocardial bridges. Abstract. American College of Cardiology, Sept., 1979. Bethesda, MA.
4. Spencer WH, Cashion WR, Flynn J: The usefulness of programmable polarity. Abstract. N.A.S.P.E., April, 1982, Atlanta, GA.
5. Griffin JC, Spencer WH, Cashion WR, Schuenemeyer TD: Unipolar or bipolar pacing? A rational basis for choice. Abstract. American Heart Association Scientific Session, November, 1982.
6. Spencer WH, Cashion WR, Schuenemeyer TD, Luck JC, Applegate J: Unipolar or bipolar pacing? A rational basis for choice. Poster Abstract. Fifth Annual Scientific Session, N.A.S.P.E., March 1983. New Orleans, LA.
7. Griffin JC, Spencer WH, Cashion WR, Schuenemeyer TD, Luck JC, Applegate J: Pacemaker mediated tachycardia, a preventable complication of cardiac pacing. Abstract. Fifty Sixth Scientific Session American Heart Association, Nov., 1983. Anaheim, CA.
8. Nielsen AP, Griffin JC, Herre JM, Luck JC, Mann DE, Cashion WR, Spencer WH, Schuenemeyer TD, Margro S, Wyndham CR: Effect of amiodarone on acute and chronic pacing thresholds. Abstract. N.A.S.P.E., May, 1984. New York, NY.
9. Cashion WR, Spencer WH, Nielsen AP, Schuenemeyer TD, and Griffin JD: Preliminary experience with an activity regulated rate-responsive single-chamber pacemaker. Abstract. N.A.S.P.E., May, 1984. New York, NY.
10. Griffin JC, Spencer WH, Cashion WR, Nielsen AP, Schueneyer TD: Exercise capability of patients receiving DDD pacemakers. Abstract. N.A.S.P.E., May, 1984. New York, NY.

11. Nielsen AP, Rokey R, Duo LC, Verani MS, Quinones MA, Spencer WH, Cashion WR, Griffin JC: A prospective comparison of DDD and VVI pacing in patients with non-fixed heart rates at rest and during exercise. Abstract. N.A.S.P.E., May, 1985. Toronto, CAN.
12. Nielsen AP, Rokey R, Duo LC, Verani MS, Quinones MA, Spencer WH, Cashion WR, Griffin JC: A prospective comparison of cardiac performance during DDD and VVI pacing for sick sinus syndrome. Abstract. American College of Cardiology. March, 1985. Atlanta, GA.
13. Ostojic M, Young JB, Nedeljkovic S, Spencer WH, et al: Prediction of ejection fraction using routine chest x-ray and ECG: A practical noninvasive method based on the concept of volume/mass relationship. Abstract. American College of Cardiology. March, 1986. Atlanta, GA.
14. Ostojic M, Young JB, Spencer WHJ, Winters WL, Pratt CM, Vasiljevic Z, Seferovic P, Radotic M, Nedeljkovic S. Abstract. American Heart Association. March, 1986. San Francisco, CA.
15. McGrew FA and Spencer WH: Physiologic benefits of activity responsive pacing - a multicenter study. Abstract. N.A.S.P.E., May, 1986. New Orleans, LA.
16. Spencer WH, Goodman DA, Hargus J, Westley V, and Lin, HT: Exercise performance in three rate-responsive pacing modes. Abstract. International Conf. on the Management of Cardiac Arrhythmias. September, 1987. London, ENGLAND.
17. Goodman DA, Hargus J, Westley V, Lin HT, and Spencer WH: Comparison of exercise performance in three rate-responsive pacing modes. Abstract. American Heart Association 60th Scientific Session. November, 1987. Anaheim, CA.
18. Gering L, Ruplinger J, Cronin L, VanderMolen MK, Rodgers G., Maloof J, Nelson J, Spencer WH, Roberts R, Pratt CM: Thrombolytic therapy via aeromedical service: Sources of delay in tertiary versus community hospitals. Abstract American College of Cardiology, March, 1988. Atlanta, GA.
19. Hausknecht MJ, Westley VW, Berkley WG, Vela D, Spencer WH: Maximum heart rate in rate responsive pacing: How fast is fast enough? Abstract. American Heart Association. November, 1988. Washington, D.C.
20. Spencer WH, Alagona P, Mead H, Schallhorn R, Markowitz T: The Synergyst II investigators: Early clinical results of a dual chamber rate modulated pacemaker. Abstract. N.A.S.P.E., 1989.
21. Spencer WH, Markowitz T: DDD/VVIR: A new mode of cardiac pacing for exercise. Abstract. N.A.S.P.E. 1990. San Diego, CA.
22. Raizner A, Litvack F, Goldenberg T, Spencer WH, et al: Improved results in patients with long coronary stenoses using Excimer laser angioplasty. Abstract. American Heart Association Scientific Session, 1990. Dallas, TX.
23. Spencer WE, Marches T, Allegheny P: Rate augmentation and atrial arrhythmias in DDDR pacing. Abstract. Cardiostim 90, 1990. Nice, FRANCE.
24. Spencer WE, Marches T: DDD/VVIR: A new mode of cardiac pacing for exercise. Abstract. Cardiostim 90, 1990. Nice, FRANCE.
25. Spencer WE, Marches T, Allegheny P: Rate augmentation and atrial arrhythmias in DDDR pacing. Abstract. Second International Congress on Rate Adaptive Cardiac Pacing and Implantable Defibrillators. N.A.S.P.E., 1990. Munich, GERMANY.
26. Khoury DA, Assar MD, Spencer WE.: Facilitated atrial defibrillation with two sequential shocks. Abstract. Amer. C. Card. Annual Session, Sept. 1995.

27. Assar MD, Khoury DS, Spencer WE.: Effect of ventricular rate stabilization on atrial defibrillation threshold. Abstract. Amer. C. Card. Annual Session, Sept. 1995.
28. Spencer WE, Kirkpatrick C, Zhu D: The value of venogram guided percutaneous extrathoracic subclavian venipuncture for lead implantation. N.A.S.P.E., 1996, Seattle, Washington
29. Zuo-Xinang He, Nasser M, Lakkis S, Nagueh S, Mahmarian JJ, Kleiman NS, Spencer WH, Verani MS. Left ventricular septal hypoperfusion following nonsurgical septal reduction therapy in patients with obstructive hypertrophic cardiomyopathy. Abstract. ACC Annual Session, Oct. 1997.
30. Nagueh SF, Spencer WH, Lakkis M, Zoghbi WA, Kleiman NS, et al. Left ventricular remodeling after nonsurgical septal reduction therapy for obstructive hypertrophic cardiomyopathy. Abstract accepted for AHA Scientific Session, Nov. 1997.
31. Zhu DW, Sun H, Espada R, Reardon M, Letsou G., Spencer WH. Application of biatrial pacing in post coronary artery bypass grafting patients for prevention of atrial fibrillation. Abstract. PACE,20; Sept, 97, II. P. 234-9.
32. Malanuk, RM, Nielsen CD, Spencer WH 3rd. Sudden cardiac death in hypertrophic cardiomyopathy. J S C Med Assoc. 2001 Oct;97 (10):424-7
33. Spencer WH. Effects of dual chamber pacing on the efficacy septal ablation for hypertrophic obstructive cardiomyopathy. Abstract. NASPE Scientific Session, May, 1998. Accepted for oral presentation.
34. He ZX, Lakkis NM, Nagueh S, Mahmarian JJ, Kleiman N, Spencer WH, Verani MS. Left ventricular septal hypoperfusion following nonsurgical septal reduction therapy in patients with obstructive hypertrophic cardiomyopathy. Abstract. Society of Nuclear Med., June, 1998.
35. Torre-Amione G, Stetson S, Youker K, Vooletich M, Durand J-B, Nagueh S, Killip D, Lakkis N and Spencer WH. Cellular mechanisms for cardiac recovery after ethanol-induced septal ablation in patients with hypertrophic obstructive cardiomyopathy (HOCM). Abstract. ACC, October 1999 Scientific Session.
36. Torre-Amione G, Stetson SS, Youker KA, Durand JB, Nagueh SF, Spencer WH, et al. Regulation of tumor necrosis factor by volume and pressure overload in human myocardium: Effect of chronic ventricular unloading and pressure overload elimination. Congestive Heart Failure, 1999: Abstract, September/October, p. 4.
37. Gollob MH, Seger JJ, Nattamma J, Petrakian A, Jayaram K, Killip D, Spencer WH. Assessment for ventricular arrhythmia substrate following ethanol induced septal infarction in hypertrophic obstructive cardiomyopathy. Abstract. NASPE, 21st Annual Scientific Sessions, May 2000.
38. Lakkis NM, Nagueh SF, Middleton K, Killip DM, Spencer WH. Nonsurgical septal reduction therapy for symptomatic patients with diagnosed hypertrophic obstructive cardiomyopathy and provokable gradients: Is it an effective therapy? Abstract. AHA73rd Scientific Session, Nov. 2000.
39. Gollob MH, Seger JJ, Nattamma J, Petrakian A, Jayaram K, Killip D, Joseph J, Spencer WH. T-wave alternans as a predictor of sudden death risk in hypertrophic cardiomyopathy. Abstract. Canadian Cardiovasc Congress, Oct. 2000.
40. Fernandes VL, Nagueh SF, Lakkis NM, Gollob, MH, Franklin J, Killip D, Roberts R, Spencer WH. The long-term follow-up results of alcohol septal ablation for symptomatic hypertrophic obstructive cardiomyopathy: the baylor experience. Abstract. American College of Cardiology 51st Annual Scientific Session, March 2002.

41. Crawford FA, Nielsen CD, Fernandes V, Frankis M, Spencer WH 3rd. Reduction in mitral regurgitation after alcohol septal ablation in patients with hypertrophic obstructive cardiomyopathy. Submitted AHA 2002.

PROFESSIONAL ACTIVITIES

January 4, 1996

Cardiology Grand Rounds - BCM/TMH
"New Applications of Pacing Therapy"
Houston, TX

January 5, 1996

NASPE Finance & Budget Committee
Washington, D.C.

January 14-20, 1996

American College of Cardiology - @ Snowmass
Presentation: "Role of Dual-Chamber Pacing for Management of Cardiomyopathy"
"New Applications of Cardiac Pacing"
"Rationale for the Preoperative Evaluation & Treatment for the Cardiac Patient Prior to Noncardiac Surgery"

January 25-28, 1996 - (15.5 hrs. Cate. 1)

15th Annual Perspectives for Newer Diagnostic & Therapeutic Techniques in Clinical Cardiology
Presentation: "Pacemakers: Role of Pacing in the Dilated & Hypertrophic Cardiomyopathies"
"Rationale for the Preop. Eval. & Treatment of the Cardiac Patient"
Panel: "Thromboembolic Disease"
Orlando, FL

February 10-17, 1996

11th Annual ACC Cardiovascular Conference at Hawaii
Presentation: "Rationale for Preoperative Evaluation and Treatment of the Cardiac Patient Prior to Noncardiac Surgery"
"Current Status of Cardiac Pacing for Cardiomyopathy"
"New Applications for Cardiac Pacing"
Kohala Coast, Hawaii

March 22-24, 1996

American College of Cardiology Scientific Session
Orlando, FL

April 10-13, 1996 (14.0 credits, Cate I)

Nonpharmacological Management of Atrial Fibrillation Symposium
St. George's Hospital Medical School
London, ENGLAND

April 15-16, 1996

N.A.S.P.E.
Chair, Clinical Tutorial - "Common Pacemaker Problems"
Seattle, WA

June 11-12, 1996

4th Annual Pacific Northwest Cardiovascular Symposium
Presentation: "New Applications of Pacing Therapy"

Seattle, WA

September 28-29, 1996
Neurocardiogenic Syncope - An Interventional Symposium
Leesburg, VA

October 19, 1996
B.A.R.F. Symposium
Presentation: "PTCA and Noncardiac Surgery"
Houston, TX

October 24-27, 1996

Program Director: Current Concepts in Cardiac Pacing for Cardiologist - Medtronic, Inc.
Presentation: 1) Role of Pacing in Heart Failure and Cardiomyopathies
2) Alternate Pacing Sites and Algorithmic Strategies to Synchronize the Atria"
Charleston, S.C.

November 10, 1996
AHA Scientific Session
NASPE Budget Committee
Atrial Septal Pacing meeting - Medtronic
New Orleans, LA

November 14, 1996
Cardiac Grand Rounds - Ulrich Sigwart, M.D.
Royal Brompton Hospital, London, England
Supervised first alcohol ablation for HOCM in U.S.
Houston, TX

December 5, 1996
Program Director
William L. Winters, Jr. Lectureship
Lecturer: Allan M. Ross, M.D.
Houston, TX

January 13-17, 1997
28th Annual Cardiovascular Conference at Snowmass
Presentation: 1) Atrial Septal Pacing - Synchronizing the Atria
2) Nonsurgical Myocardial Reduction for HOCM"
Snowmass, CO

January 24-25, 1997
Medtronic - Brady Research Dept.
Research Advisory Meeting
Daytona Beach, FL

January 29-31, 1997
4th Annual Innovations in the Treatment of Heart Disease
Presentations: 1) Cardiac Pacing for Dilated and Hypertrophic Cardiomyopathy
2) Atrial Septal Pacing for Arrhythmia Management
Vancouver, British Columbia

February 6, 1997
Cardiology Grand Rounds - "New Applications in Cardiac Pacing"

Houston, TX

February 6, 1997

Cardiology Grand Rounds

Presentation: "New Applications of Pacing Therapy"

Houston, TX

February 10-14, 1997

12th Annual Cardiovascular Conference at Hawaii

Presentations: 1) Atrial Septal Pacing - Synchronizing the Atria

2) Role of Pacing in Heart Failure and the Cardiomyopathies

Kohala Coast, Hawaii -- (21 credit hrs.)

March 16-19, 1997

ACC Annual Scientific Session

BCM Present Therapy and Future Prevention of Heart Disease"

Presentation: "Hypertrophic Obstructive Cardiomyopathy: Alternative Therapeutic Options"

Anaheim, CA - (4.5 credit hrs.)

May 7-10, 1997

N.A.S.P.E. Annual Scientific Session

Chair, Clinical Tutorial Session - "Pacing in Sinus Node Dysfunction)

Presentation: "Atrial Septal Pacing"

New Orleans, LA - 24 CME credit hrs)

June 8-11, 1997

Europace '97

Presentation: "Atrial Septal Pacing: A Method of Pacing the Atria Simultaneously"

Athens, Greece

September 3, 1997

Wiktor Stent Training Course

Houston, TX

September 5, 1997

NASPE Budget & Finance Committee

St. Louis, MO

September 25-28, 1997

Cardiology Research Foundation

Transcatheter Cardiovascular Therapeutics - IX

Live Demonstration-HOCM

Washington, D.C. (41 CME credit hrs)

October 14-18, 1997

International Committee on Diagnosis & Management of Hypertrophic Cardiomyopathy Sudden
Death and Athletes

Minneapolis, MN (19 hr AMA, Cate. I)

October 23-26, 1997

Current Concepts in Cardiac Pacing for Cardiologists

Program Director

Presentations: New Techniques in Pacemaker Lead Implantation & Pacing in Unusual Sites

Hypertrophic Obstructive Cardiomyopathy Lead Extraction

Long Island, NY

December 3-4-, 1997
Program Director
William L. Winters, Jr. Lectureship
Antonio Gotto, Jr., M.D. - Guest Lecturer
Houston, TX

January 10-17, 1998
ACC Cardiovascular Conference at Snowmass
Presentations: New Techniques in Pacing
Nonsurgical Septal Reduction in Hypertrophic Obstructive Cardiomyopathy
Bradycardia Pacing - Indications and Devices
Snowmass, CO

January 28-29, 1998
Medtronic, Inc. meeting
Presentation: Rate Optimization and Arrhythmias Management in Paced Patients
Charleston, SC

January 30 - February 2, 1998
17th Annual ACC Disneyworld Meeting
Presentations: Ultrafast CT Scan for Coronary Calcification
Nonsurgical Septal Reduction in Patients with HOCM
New Techniques in Pacing
Lake Buena Vista, FL

March 29-April 2, 1998
ACC Scientific Session
Atlanta, GA

April 17-19, 1998
4th Annual Challenges in Cardiovascular Management
Presentation: "New Therapies for IHSS: Pacing and Nonsurgical Septal Reduction"
"Review in Advances in Pacing"
Puerto Rico

May 5-9, 1998
N.A.S.P.E. Scientific Session
Faculty: Clinical Tutorial "Rate Adaptive Pacing"
San Diego, CA

May 16-19-98
First International Congress on Heart Disease
Presentations: "New Developments in Cardiac Pacing" and "Nonsurgical Septal Reduction in Hypertrophic Obstructive Cardiomyopathy".
Washington, D.C.

July 10, July 17, July 31, 1998
Training Sessions for HOCM w/ethanol
Houston, TX

September 10-13, 1998
Sequoia Hospital, Redwood City, CA
Presenting two cases – HOCM w/ethanol

September 10, 1998
Presented Cardiology Grand Rounds
The Methodist Hospital, Baylor College of Medicine
Non-Surgical Septal Reduction in Hypertrophic Obstructive Cardiomyopathy”
Houston, TX

September 30, 1998
Medical University of South Carolina
Division of Cardiology
Presentation: “Therapeutic Alternatives in Hypertrophic Obstructive Cardiomyopathy”
Charleston, SC

October 8-11, 1998
Transcatheter Cardiovascular Therapeutics – X
Faculty Member – “Alcohol Septal Ablation to Treatment HOCM: Case Selection, Complications , Early and Late Clinical Results”

October 29-30, 1998
Second European Workshop HOCM, Heart Center North Rhine-Westphalia,
Bad Oeynhausen, Germany
Faculty

November 10, 1998
AHA – Dallas, TX
Abstract Accepted: Efficacy of Ethanol Septal Ablation in Patients with Resting LVOT Gradient Compared to Patients with Dobutamine-Provoked Gradient

December 3, 1998
Program Coordinator: William L. Winters, Jr. Lectureship
Houston, TX

January 18-22, 1999
ACC Cardiology Symposium – Presenter
Snowmass, CO

January 29-31, 1999
ACC “18th Annual Perspectives on New Diagnostic & therapeutic Techniques in Clinical Cardiology”
Presenter: “Hypertrophic Cardiomyopathy: Nonsurgical Septal Reduction-Current Status”
“Update on Cardiac Pacing: Choice of a Pacemaker: and :Pacing Mode in 1999”

February 4-7, 1999
Medtronic – Emerging Roles of Stimulatoin Therapy in Clinical Cardiology Program
Program Director
Presenter: “Assessment and Treatment of Hypertrophic Obstructive Cardiomyopathy”; Choice of Pacemaker and Pacing Mode – 1999”; “Recent Advances in the Evaluation of Syncope”
Tucson, AZ

February 13-21, 1999
ACC Cardiovascular Conference
Presenter:”Assessment and Treatment of Hypertrophic Obstructive Cardiomyopathy”: Choice of a Pacemaker and Pacing Mode – 1999”; “New Developments in the Evaluation of Syncope”
Hawaii

March 6-11, 1999

ACC '99 – 48th Annual Scientific Session

Chair: “Transcatheter Septal Ablation for the Treatment of Hypertrophic Obstructive Cardiomyopathy”
New Orleans, LA

March 18-19, 1999

Duke Heart Center
Heart Center Board Meeting
Palm Beach, FL

March 22-23, 1999

Cedars-Sinai Medical Center – Cardiology Grand Rounds – Rajenda Makkar, M.D.
Presenter – “Catheter IV Septal Ablation in Hypertrophic Cardiomyopathy” –
Los Angeles, CA

March 25, 1999

Huffington Center on Aging
Speaker – “Heart Healthy Living: The New Frontier”
Houston, TX

April 15, 1999

Third Annual Frontiers in Interventional Cardiology Course
Moderator – Live-case demonstration being televised from the Hermann Hospital Cath Lab
Hyatt Regency Downtown – Houston, TX

April 16, 1999

Duke Heart Center Special Medicine Grand Rounds
Presenter – “Hypertrophic Obstructive Cardiomyopathy”
Durham, NC

May 12-15, 1999

NASPE
Chair – Faculty Clinical Tutorial – “Update of Pacing Indications”
Toronto

May 16-19, 1999

1st International Congress on Heart Disease
Presenter: “Assessment and Treatment of Hypertrophic Obstructive Cardiomyopathy”
Washington, DC

May 21, 1999 (25 hr, Category I)

Emory Practical Interventional Course – Coronary and Peripheral Intervention
The Emory University School of Medicine
Presenter – “Alcohol Septal Ablation in the Treatment of IHSS”
Atlanta, GA

May 25, 1999

Guild of Baylor College of Medicine
Speaker – “Hypertrophic Obstructive Cardiomyopathy”
Houston, TX

July 15, 1999

Cortlandt Communications, Inc.
Interview-recording session w/ Dr. William L. Winters, Jr.
on “Nonsurgical Alcohol Septal Ablation”

Houston, TX

July 29, 1999

Cardiology Rounds and Conference
Proctoring alcohol ablation
St. Joseph, MO

September 30, 1999

TMH Service Corp. –
Presentation – “Heart Attack as Therapy”
Houston, TX

October 7, 1999

Duke Heart Center Board Meeting
Durham, NC

October 15-17, 1999

Medtronic Program – “Cardiac Device Therapy in the New Millennium”
Co-Chair and Presenter
HOCM, Non-Surgical vs. Surgical Therapy, Subclavian Venogram as an Aid to Pacemaker Implantation and
Syncope Case Presentation: Reveal ILB
Santa Fe, NM

October 20, 1999

Film Interview – Health Channel Series
Houston, TX

November 6-9, 1999

American Medical Association 72nd Scientific Session
Council on Clinical Cardiology - Moderator
How to do Alcohol Ablation for HOCM
Septal Ablation Myomectomy
Atlanta, GA

November 10-11, 1999

Medical Education Program/Cardiology Grand Rounds
Presentations: “Clinical Perspectives of Cardiovascular Risk”; “Morbidity and Mortality of Coronary Artery
Disease ”
Scott & White
Temple, TX

December 6, 1999

Program Director
William L. Winters, Jr. Lectureship
Lecturer: James Young, M.D.
Houston, TX

January 6-7, 2000

University of California Davis
Presentation & proctor – “Alcohol Septal Ablation for IHSS”
Sacramento, CA

January 15-22, 2000

ACC Cardiovascular Conference at Snowmass

Presentations: “Arrhythmias, Drugs, Pacemakers”, “The Role of Pacing in the Cardiomyopathies ”,
“Hypertrophic Cardiomyopathy: Results of Nonsurgical Septal Reduction Therapy”.
Snowmass, CO

January 28-30, 2000

ACC – 19th Annual Perspectives on New Diagnostic and Therapeutic Techniques in Clinical Cardiology
Presentations: “Use of Cardiac Pacemakers in Cardiomyopathies”, T-Wave Alternans for Arrhythmic Risk
Stratification”, Hypertrophic Cardiomyopathy: Results of Nonsurgical Septal Reduction Therapy”.
Buena Vista, FL

February 7-14, 2000

ACC – 15th Annual Cardiovascular Conference at Hawaii
Presentation: “The Role of Pacing in the Cardiomyopathies”, Hypertrophic Cardiomyopathy: Results of
Nonsurgical Septal Reduction Therapy”
Honolulu, Hawaii

February 15, 2000

Baylor-10, Speaker – “Heart Attack as Therapy”
River Oaks Country
Houston, TX

February 18, 2000

The Parkinson Foundation – Speaker “Heart Attack as Therapy”
W. University Community Center
Houston, TX

February 22, 2000

University of Virginia Medical School – Cardiology Grand Rounds
Charlottesville, VA.

February 27-29, 2000

Interventional Cardiology 2000: An International Symposium
Promedica
Presentation: Hypertrophic Cardiomyopathy: Results of Nonsurgical Septal Reduction Therapy.
Aspen, CO

March 12-15, 2000

ACC 49th Annual Scientific Session
Oral Contributions – Co-Chair: Session: Adjunctive Nondrug Therapies for Heart Failure
Symposia Participant – Session: Hypertrophic Obstructive Cardiomyopathy: Advances in Management.
Presentation: Role of Ethanol Septal Reduction Therapy
Luncheon Panel Participant – Update on Pacing
Anaheim, CA

March 30-31, 2000

Cardiac Grand Rounds
University of Florida
Gainesville, FL

April 27-28, 2000

ACC – 8th Annual Cardiology Fiesta in San Antonio – Update on Cardiac Diagnostic and Therapeutic
Techniques.

Presentation: Myocardial Ablation to Treat Hypertrophic Cardiomyopathy
San Antonio, TX – 19.5 hrs. credit, Category 1

May 31-June 3, 2000

ACC - CME-“Cardiology for the Primary Physician”

Presentation: Treatment of Hypertrophic Obstructive Cardiomyopathy”

Charleston, SC – 18.5 hrs. credit, Category 1

July 5-6, 2000

Scripps Clinic – Proctor two cases-HOCM

Give Cardiology Grand Rounds – “Results of Septal Ablation in Hypertrophic Obstructive Cardiomyopathy”.

La Jolla, CA

September 20-21, 2000

Proctor cases with Dr. Randy Thompson – HOCM

Kansas City, MO

September 28, 2000

Medical College of Virginia

Give Cardiac Catheterization Conference –HOCM

Richmond, VA

October 19-22, 2000

Transcatheter Cardiovascular Therapeutics – 12

Presentations: “Nonsurgical Septal Reduction Procedures for Obstructive Hypertrophic Cardiomyopathy”

and “Alcohol Septal Ablation for HOCM 0 Technique and Results from the SHOCK Registry” – TCT How-To

Operator Workshops (2)

Washington, DC – (24 hrs. CME)

October 26-November 11, 2000

Presentations: “Therapy for Hypertrophic Obstructive Cardiomyopathy” and “Techniques of Nonsurgical Septal Reduction Therapy” – and proctoring 3 cases

Sydney, Australia

Auckland and Perth, New Zealand

December 6, 2000

Program Director – William L. Winters, Jr. M.D. Lectureship

Kim Eagle, M.D. – Guest Lecturer

Houston, TX

December 8, 2000

Cardiology Grand Rounds: Alcohol Septal Ablation in Hypertrophic Obstructive Cardiomyopathy

St. Luke's Episcopal Hospital

Houston, TX

January 16-19, 2001

The 32nd Annual Cardiovascular Conference at Snowmass

Presentations: Results of Alcohol Septal Ablation for Hypertrophic Cardiomyopathy and

Resynchronization Therapy for Heart Failure: The Pacing Approach

Snowmass, CO – (23 Hrs. CME)

January 31, 2001

Cardiology Grand Rounds & proctoring HOCM cases
Oschner Clinic
New Orleans, LA

February 12-16, 2001

ACC - 16th Annual Cardiovascular Conference at Hawaii

Presentations: Results of Alcohol Septal Ablation for Hypertrophic Cardiomyopathy and
Resynchronization Therapy for Heart Failure: The Pacing Approach
Kohala Coast, Big Island, Hawaii

March 16-18, 2001

Heartbeat International meeting – workshop – “Septal Reduction in the Catheterization Laboratory” Attending
ACC meeting, Anaheim, CA.

March 29-30, 2001

Cardiology Grand Rounds

Proctor HOCM cases – invited by Dr. Fernando Leya, Loyola University Med. Ctr.
Chicago, IL

April 20, 2001

New Frontiers in Cardiovascular Medicine: Evolution of Endovascular and Pharmacologic Interventions.
Presentation: “Alcohol Ablation for Hypertrophic Cardiomyopathy”.
Houston, TX

April 27-29, 2001

Course Director – Hypertrophic Cardiomyopathy: Therapeutic Advances

Presentation: - “Current North American Results and Registry”

Kiawah Island, S.C.