

Joseph P. Ornato, MD, FACP, FACC, FACEP

CURRICULUM VITAE

CURRENT POSITION

Professor and Chairman, Department of Emergency Medicine
Virginia Commonwealth University Medical Center's Medical College of Virginia
Richmond, Virginia

PERSONAL INFORMATION

Birthplace	New Haven, Connecticut
Citizenship	United States.
Office Address	Virginia Commonwealth University Medical Center Department of Emergency Medicine 401 N12th Street - Room G248 Richmond, Virginia 23298
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LICENSURE

Medical	Virginia, 0101037685 New York, 14745
Board Certification	Internal Medicine, 1974 Cardiology, 1977 Emergency Medicine, 1997

EDUCATION

College/Medical	Boston University Six-Year Medical Program Boston, Massachusetts A.B., magna cum laude M.D., magna cum laude
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MILITARY

1977-79	Major, United States Army Medical Corps Chief of Internal Medicine and Cardiology McDonald Army Hospital; Fort Eustis, Virginia
1979	Honorable Discharge from United States Army Medical Corps

POST-DOCTORAL TRAINING

1971-72	Intern, Internal Medicine Mount Sinai Hospital, New York, N.Y.
1972-74	Resident, Internal Medicine Mount Sinai Hospital, New York, N.Y.
1974-76	Fellow, Cardiology New York Hospital - Cornell University Medical Center, New York, N.Y.

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ACADEMIC APPOINTMENTS & WORK EXPERIENCE

1997-present	Professor & Chairman, Department of Emergency Medicine Professor of Internal Medicine (Cardiology)
1996-1997	Professor of Internal Medicine (Cardiology) & Emergency Medicine Chairman, Department of Emergency Medicine
1996-1997	Professor of Internal Medicine (Cardiology) & Emergency Medicine Director of Research, Department of Emergency Medicine
1995-Present	Special Consultant, Circulatory System Devices Panel Food and Drug Administration.
1990-Present	Medical Director, Richmond Ambulance Authority. Richmond, Virginia
1988-Present	Tenured Professor of Internal Medicine and Cardiology
Jan 1985-1996	Chief, Internal Medicine Section of Emergency Medical Services Graduate Faculty, Biomedical Engineering Medical College of Virginia, Richmond, Virginia
1984-1990	Co-Medical Director, Central Virginia Ambulance Service Richmond, Virginia
1985-88	Associate Professor of Internal Medicine and Cardiology Medical College of Virginia
1982-84	Associate Professor of Internal Medicine and Cardiology University of Nebraska Medical Center
1981-84	Director, Division of Emergency Medical Services Nebraska State Department of Health Lincoln, Nebraska
1981-84	Medical Director and Flight Physician Skymed Medical Rescue Helicopter Based at University of Nebraska Medical Center, Omaha, Nebraska
1984	Medical Consultant, Division of Emergency Medical Services Nebraska State Department of Health Lincoln, Nebraska
1979-85	Director of Emergency Medical Services University Hospital University of Nebraska Medical Center

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Omaha, Nebraska

- 1979-82 Assistant Professor of Internal Medicine
 and Cardiology
 University of Nebraska Medical Center
- 1977-78 Chief of Internal Medicine and Cardiology
 McDonald Army Hospital, Ft. Eustis, Va
- 1976-77 Assistant Professor of Internal Medicine
 and Cardiology
 Medical Director, Paramedic Program
 New York Hospital - Cornell University
 Medical Center, New York, N.Y.
- 1975-76 Instructor in Medicine (Cardiology)
 Medical Director, Paramedic Program
 New York Hospital - Cornell University
 Medical Center, New York, N.Y.

MEMBERSHIP IN SCIENTIFIC, HONORARY, & PROFESSIONAL SOCIETIES

- Fellow, American College of Emergency Medicine, 1997
- Fellow, American College of Cardiology, 1978
- Fellow, American College of Physicians, 2002
- Fellow, American Heart Association, 2003
- Alpha Omega Alpha, 1969
- Phi Beta Kappa, 1971
- Begg Society of Boston University School
of Medicine, 1968
- Member, Richmond Academy of Medicine
- Member, American College of Cardiology
- Member, American College of Emergency
Physicians
- Member, Virginia Chapter, American College of Emergency
Physicians
- Member, National Association of EMS Physicians (NAEMSP)
- Member, Nebraska Chapter (President, 1984), American College
Of Emergency Physicians
- Member, American Heart Association
- Member, Society for Academic Emergency Medicine (SAEM)
- Richmond Area Medical Society
- Member, Association of Academic Chairmen of Emergency Medicine,
1997-present
- Member, American Society of Chest Pain Centers, 1999-present

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MEDICAL AWARDS

Massachusetts Medical Society Award, 1971

Jewish Memorial Hospital Award, 1968

Virginia American Heart Association
1985-1986, Program Service Award

Medical College of Virginia Best Faculty Teacher Award 1992-93

Medical College of Virginia Best Faculty Teacher Award 1994-95

Virginia Commonwealth University Award of Excellence 1998

American Heart Association National Emergency Cardiovascular
Care Committee Lifetime Achievement Award 2000

American Heart Association Mid-Atlantic Affiliate Golden Heart
Award 2000

Michael Copass Medical Director Award, Metropolitan Emergency
Medical Services Directors 2005

MEMBERSHIP ON NATIONAL COMMITTEES

Member, American Heart Association Emergency Cardiac Care Business Management Committee
1996-1999.

Member, American Heart Association Cardiopulmonary/Critical Care Council Board of Directors 1996-1999

Past Chairman and Member, Emergency Cardiac Care Committee (National) of the American Heart Association, 1996-1999. This committee is responsible for coordinating the national standards on cardiopulmonary resuscitation and emergency cardiac care, published as the "JAMA Standards".

Chairman, Emergency Cardiac Care Committee (National) of the American Heart Association, 1993-96.

Liason Member, Committee on Electrocardiography and Arrhythmias, Council on Clinical Cardiology, American Heart Association, 1996-1999.

Member, American Heart Association National Automated External Defibrillator Task Force. 1993-1997.

Vice-Chairman, Emergency Cardiac Care Committee (National) of the American Heart Association, 1987-1992.

Chairman, Advanced Cardiac Life Support National Subcommittee, American Heart Association, 1987-90 (member of committee since 1985). This committee is responsible for coordinating writing of the advanced cardiac life support standards and all teaching material, including the ACLS textbook, slides, and instructor's manual.

Immediate past-Chairman, Advanced Cardiac Life Support National Subcommittee, American Heart Association, 1990-91

Member, Advisory Board, National Institutes of Health/National Heart, Lung, and Blood Institute National Heart Attack Alert Program, 1991-present.

Chairman, Science Base Subcommittee, National Institutes of Health/National Heart, Lung, & Blood Institute National Heart Attack Alert Program, 1992-present.

Member, University Association for Emergency Medicine Governance Committee 1985.

Member, American College of Cardiology Emergency Cardiac Care Committee 1988-2004. This committee is responsible for coordinating the position of the American College of Cardiology on matters relating to the evaluation and treatment of patients who have a cardiovascular emergency.

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Member, American Heart Association Cardiopulmonary and Critical Care Council Executive Committee, 1995-1998.

Member, American College of Cardiology Allied Health Professionals Committee, 1998-2000.

Member (American College of Cardiology National Representative), Joint Review Committee on Educational Programs for the Emergency Medical Technician-Paramedic, 1998-2000.

MEMBERSHIP ON OTHER MAJOR COMMITTEES

Member, New York City Regional EMS Council committee on Training of Emergency Medical Personnel for the City of New York, 1976

Chairman, Emergency Medical Services committee, UNMC, 1979-80; Member 1980-85

Chairman, CPR Committee, UNMC, 1979-85

Chairman, Paramedic Policy and Procedures Committee, (Advanced Care Committee 1983) Midlands EMS Council, 1979-85

Chairman, Statewide CPR Committee, Nebraska Chapter of American Heart Association, 1979-85

Chairman, Policy Review Committee, UNMC, 1980-82 Chairman, Medical Advisory Committee, Skymed Rescue Helicopter Service, 1981-85

Chairman, Statewide Emergency Cardiac Care Committee, Virginia Affiliate, American Heart Association, 1985-89. Member, 1989-present.

Chairman, Education and Community Programs Committee, Virginia Affiliate, American Heart Association, 1988-present.

Member, Executive Committee, University Hospital, 1980-82

Member, Midlands EMS Council Board of Directors, 1979-85

Member, Administrative Affairs Committee, Midlands EMS Council, 1979-85

Member, State of Nebraska EMS Advisory Committee, 1979-85

Member (State Representative), Rural EMS Council of Midwestern States, 1979-85

Member, Midlands EMS Council Committee on Trauma, 1980-85

Member, Medical Staff Bylaws Committee, UNMC, 1982-85

Member, Patent Committee, University of Nebraska, 1980-83

Member, Finance Committee, UNMC, 1984-85

Member, Richmond Academy of Medicine, 1985-present.

Member, Richmond Area Medical Control Committee, 1985-present

Chairman, American Heart Association Emergency Cardiac Care Committee, Virginia Affiliate, 1986-present.

Chairman, American Heart Association Advanced Cardiac Life Support, Virginia Affiliate, 1986-1989.

Member, American Heart Association Board of Directors, Virginia Affiliate, 1988-present.

Member, Richmond City Council Committee on Emergency Medical Care, 1987-89.

Member, Governor's Task Force on Emergency Medical Disaster Planning, 1989-90.

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Chairman, Governor's Task Force on Emergency Medical Disaster Planning Subcommittee on Resources, 1989-90.

Member, Hospital Disaster Committee, Medical College of Virginia, 1988-present.

Member, State Emergency Medical Services Advisory Board; Richmond, Virginia, 1988-90.

Member, State Emergency Medical Services Advisory Board, Disaster Response Committee; Richmond, Virginia, 1989-Present.

Member, State Emergency Medical Services Medical Control Committee, 1991-present.

Member, Richmond Ambulance Authority Medical Control Board, 1990-present.

Member, Citizen CPR Foundation Board of Directors, 1993-present.

Member, American Heart Association Automated External Defibrillator Task Force, 1993-94.

Member, Medical College of Virginia Associated Physicians Clinical Practice Committee, 1994-7.

Member, Medical College of Virginia Cardiovascular Therapeutics Subcommittee, 1995-present.

Chairman, Medical College of Virginia Promotion and Tenure Committee for the Department of Internal Medicine, 1996-present.

Member, Medical College of Virginia Hospitals Executive Committee, 1997-present.

Member, Medical College of Virginia Hospitals Trauma Care Committee, 1997-present.

Member, Medical College of Virginia Physicians Finance Committee, 1998-present.

Co-Chairman, Medical College of Virginia Hospitals Department of Emergency Medicine Patient Care Committee, 1997-present.

Member, Medical College of Virginia Graduate Medical Education Committee, 2000-present.

Member, Virginia Governor's Task Force on Bioterrorism, 2001-present.

Co-Director, Richmond Metropolitan Medical Response Team Task Force, 2002-4.

OTHER SIGNIFICANT SCHOLARLY ACTIVITY - TEACHING CERTIFICATION

National Affiliate Faculty and Instructor, Advanced Cardiac Life Support American Heart Association, 1979-present.

Instructor Trainer, Basic Cardiac Life Support American Heart Association, 1985

Instructor, Advanced Trauma Life Support American College of Surgeons, 1985

FDA Circulatory Device Panel Member, Hypothermia Technologies. July 29, 2004.

FDA Circulatory Device Panel Member, Resuscitation Outcomes. September 21, 2004.

OTHER VOLUNTEER ACTIVITIES

President, American Heart Association Virginia Affiliate, 1990-91

Member, Virginia Affiliate American Heart Association Board of Directors, 1988-1995

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EDITORIAL ACTIVITIES

American Editor-in-Chief, Resuscitation, 1993-present.

Member, Editorial Board of the American Journal of Emergency Medicine, 1986-present.

Member, Editorial Board of The Journal of Critical Illness, 1999-present.

Member, Editorial Board of Heart Disease & Stroke, 1991-94.

Editorial Consultant, Annals Emergency Medicine, 1989-1996.

Member, Editorial Board of Journal of Procedures in Emergency Medicine, 1994-present.

Member, Editorial Advisory Board of Currents In Emergency Cardiac Care a publication of the American Heart Association and the Citizen CPR Foundation, 1990-1997.

Member, Editorial Board, HealthNews, 2000-2004.

Review regularly for the following journals:

- New England Journal of Medicine
- Circulation
- Circulation Research
- American Journal of Cardiology
- American Journal of Emergency Medicine
- Annals of Emergency Medicine
- Journal of the American Medical Association (JAMA)
- Heart Disease & Stroke
- Journal of Trauma

PATENTED SCIENTIFIC INVENTIONS

1. Electronic clipboard for recording events during cardiac arrest (Patent #4,457,312)

MEDICAL MISSION VOLUNTEER ACTIVITY

Catholic Medical Mission volunteer to St. Lucia, Windward Islands, for 4 weeks, 1974

GRANT ACTIVITY

Medical Advisor, Creighton-Nebraska Health Foundation HEW 789 EMS Training Grant (1978-80) - \$1.5 Million. The Advanced Trauma Life Support (ATLS) course adopted by the American College of Surgeons was developed with the Creighton-Nebraska Health Foundation and the Lincoln Medical Education Foundation under this grant.

Principal Investigator, Chancellor Seed Research Grant to develop an automated recording system for cardiac arrest documentation (1979). Total award - \$1500.

Principal Investigator, Comparison of the intramuscular analgesic activity of butorphanol and morphine in patients with Sickle Cell Disease. Bristol Laboratories. Total award - \$29,950.

Co-investigator, Dose response evaluation of oral labetalol in patients presenting to the emergency department with severe hypertension. Glaxo, Inc. Total award - \$39,900.

Co-investigator. Cost analysis of parenteral therapy with labetalol HCl vs. sodium nitroprusside in the emergency department. Glaxo, Inc. \$5,000.

Co-investigator. Evaluation of the TSI laser-flow blood perfusion monitor. TSI Laboratories. \$6,000.

Co-investigator. Evaluation of the Omni-Flow 4500 infusion system during CPR. Omni-Flow, Inc. \$9,000.

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Co-investigator, Oral diltiazem for treatment of hypertensive urgency in the emergency department. Marion Laboratories. Total award - \$44,144.

Principal Investigator, FEF end-tidal CO₂ detector field trial. Fenem Inc. Total award -\$1,416.

Co-Principal Investigator, Development of a CPR data collection hardware & software system. Laerdal Medical Foundation. Total award -\$10,000.

Co-Principal Investigator, Time to Thrombolytic Therapy in Acute Myocardial Infarction, Health Technology Associates. Total award - \$54,932.

Co-Principal Investigator, Time to Thrombolytic Therapy in Acute Myocardial Infarction -Phase II, Beecham Laboratories, Inc. Total award - \$100,000.

Principal Investigator, A data management and acquisition system for the emergency department. SpaceLabs, Inc. Total award value (salary + equipment) approximately \$300,000.

Principal Investigator, Development of a prehospital bar code data entry system. SpaceLabs, Inc. 1992. Total award (Year 2 of continuing project) = \$17,541.

Principal Investigator, Time Insensitive Predictive Instrument NIH Grant, Subcontract from Tufts-New England Medical Center, 1993. Total award = \$114,133.

Principal Investigator, Time Insensitive Predictive Instrument NIH Grant, Subcontract from Tufts-New England Medical Center Supplemental Fund Award, 1993. Total supplemental award = \$14,621.

Principal Investigator, Thrombolytic Predictive Instrument NIH Grant Proposal, Subcontract from Tufts-New England Medical Center, \$130,072.

Principal Investigator, Collaborative Organization for RheothRx Evaluation (CORE). 1993-95.

Principal Investigator, Multifaceted Education Program on Critical Pathways. Genentec, 1996. \$276,350.

Principal Investigator, Multicenter Randomized Controlled Inhospital Clinical Trial of Pneumatic Vest CPR. Cardilogic, Inc. 1997. \$180,000.

Principal Investigator, Investigation of an 80-lead body map ECG system for detecting acute coronary ischemia. Meridian Medical Corporation, Inc. Baltimore, MD. \$89,000.

Co-Investigator, Public Access Defibrillation Randomized Clinical Trial. National Institutes of Health (NHLBI), Subcontract from University of Washington Co-ordinating Center, Seattle, WA. \$118,400.

Principal Investigator, Bioterrorism Preparedness Training Center Grant. Health and Human Services Health Resources and Services Administration (HRSA), 2003-5. \$3.4 million.

Co-Chairman, NIH/NHLBI Resuscitation Outcomes Consortium (ROC). 2004-present.

SCIENTIFIC PAPERS

1. Wiatt AL, **Ornato JP**. Outpatient utilization of diazepam in a military hospital. *Military Medicine* 1980; 394-396.
2. Forney J, **Ornato JP**. The mechanism of blood flow during CPR: Blood flow with ventilation alone in a child. *Ann Emerg Med* 1980; 9: 624-6.
3. Cooper MA, **Ornato JP**. Involving and educating base station physicians in paramedic programs. *Ann Emerg Med* 1980; 9: 524-6.
4. **Ornato JP**, Fennigkoh L, Jaeger CS. The electronic clipboard: an automated system for accurately recording events during a cardiac arrest. *Ann Emerg Med* 1981; 10:138-41.

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5. **Ornato JP**, Hanssen CS. Training of university hospital attending staff in cardiopulmonary resuscitation. *Ann Emerg Med* 1981; 10:571-4.
6. **Ornato JP**, Bryson BL, Farquharson RR, Donovan PJ, Jaeger CS. The University of Nebraska Medical Center fixed-wing patient air transport system. *Nebraska Med J* 1982; 6:155-8.
7. **Ornato JP**, Bryson BL, Farquharson RR, Donovan PJ, Jaeger CS. Measurement of ventilation during cardiopulmonary resuscitation. *Crit Care Med* 1983; 2:79-82.
8. **Ornato JP**, Bryson BL, Elwood PC, Farquharson RR, Loeb NA. The emergency department physician perspective to management of the acute neurological problem. *Seminars in Neurology* 1983; 3:6-9.
9. **Ornato JP**, Farquharson RR, Loeb NA, Bryson BL, Elwood PC. Pre-hospital care and secondary transportation of the patient with a neurological emergency. *Seminars in Neurology* 1983; 3:1-5.
10. **Ornato JP**, Craren MA, Nelson N, Smith HD. The economic impact of cardiopulmonary resuscitation and emergency cardiac care programs. *Cardiovascular Reviews and Reports* 1983; 4:1083-88.
11. **Ornato JP**, Craren EJ, Nelson NM. Extending the "Good Life". *Emerg Med Serv* 1983; 12:45-46.
12. **Ornato JP**, Craren EJ, Nelson N, Smith HD. The impact of emergency cardiac care on the reduction in mortality from myocardial infarction. *J Cardiac Rehab* 1983; 3:863-866.
13. **Ornato JP**, Carveth WL, Windle JR. Pacemaker insertion for prehospital bradycardiac arrest. *Ann Emerg Med* 1984; 13:101-103.
14. **Ornato JP**. Life after life experiences following cardiac arrest. *Nebraska Med J* 1984;69:153-4.
15. Lester LB, **Ornato JP**. Resuscitation: Time-based flowsheets train medical personnel. *J Emerg Med Serv* 1984; 9:11.
16. **Ornato JP**, McNeill SE, Craren EJ, Nelson NM. Limitation on effectiveness of rapid defibrillation by emergency medical technicians (EMTs) in a rural setting. *Ann Emerg Med* 1984; 13:1096-99.
17. **Ornato JP**, Craren EJ, Nelson NM. EMS by the numbers, *J Emerg Med Serv* 1984; 9:68-69.
18. Wigton RS, Hoellerich VL, **Ornato JP**, Leu V, Mazzotta L, Cheng I. Use of clinical findings in the diagnosis of urinary tract infection in women. *Arch Internal Med*: 1985; 2222-27.
19. Muelleman RL, **Ornato JP**. Factors affecting the likelihood that cardiopulmonary resuscitation will be used by trained rescuers. *Nebraska Med J* 1985; 70:172-177.
20. **Ornato JP**, Lui CY, Donovan JP, Weldon DC. The difference between pulmonary artery diastolic pressure and pulmonary capillary wedge pressure as a hemodynamic sign of pulmonary embolism. *Nebraska Med J* 1985; 70:164-167.
21. **Ornato JP**, Craren EJ, Nelson NM, Kimball KF. Impact of improved emergency medical services and emergency trauma care on the reduction in mortality from trauma. *J Trauma* 1985; 25:575-9.
22. Craren EJ, **Ornato JP**, Nelson NM: The investment of EMS. *J Emerg Med Serv* 1985; 10:35-8.
23. **Ornato JP**, Ryschon TW, Gonzalez ER, Bredthauer JL. Rapid change in pulmonary vascular hemodynamics with pulmonary edema during cardiopulmonary resuscitation. *Am J Emerg Med* 1985; 3:137-42.
24. **Ornato JP**, Gorgen AL: Superiority of standing orders to start an IV during cardiac arrest over base station orders. *Nebraska Med J* 1985; 70:200-1.
25. Gonzalez ER, Christopher MA, **Ornato JP**, Starke H. Diuretic- induced hypokalemia: a possible cause of out-of-hospital cardiac arrest. *Nebraska Med J* 1985; 70:335-40.
26. **Ornato JP**, Gonzalez ER, Morkunas AR, Coyne MR, Beck CL. Treatment of presumed asystole during pre-hospital cardiac arrest: superiority of electrical countershock. *Am J Emerg Med* 1985; 3:395-9.

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27. **Ornato JP**, Mlinek EJ, Craren EJ, Nelson N. Ineffectiveness of the Trauma Score and the CRAMS Scale for accurately triaging patients to trauma centers. *Ann Emerg Med* 1985; 14:1061-4.
28. **Ornato JP**, Mlinek EJ, Craren EJ, Nelson N. Ineffectiveness of the Trauma Score and the CRAMS Scale for accurately triaging patients to trauma centers (letter). *Ann Emerg Med* 1985; 15:602-3.
29. Gonzalez ER, **Ornato JP**. Procainamide induced hypotension during cardiac resuscitation. *Clin Pharm* 1985; 4:504-5.
30. **Ornato JP**, Gonzalez ER, Starke H, Morkunas A, Coyne MR, Beck CL. Incidence and causes of hypokalemia associated with cardiac resuscitation. *Amer J Emerg Med* 1985; 3:503-6.
31. **Ornato JP**, Gonzalez ER, Coyne MR, Beck CL, Collins MS: Arterial pH in out-of-hospital cardiac arrest. Response time as a determinate of acidosis. *Canadian J Prehospital Med* 1986; 1:25-30.
32. **Ornato JP**. Management of paroxysmal supraventricular tachycardia. *Circulation* 1986; 74:108-10.
33. **Ornato JP**. Special resuscitation situations: Near drowning, traumatic injury, electrical shock, and hypothermia. *Circulation* 1986; 74:23-26.
34. **Ornato JP**. Standards and Guidelines in Cardiopulmonary Resuscitation (CPR) and Emergency Cardiac Care (ECC) (editorial). *Amer J Emerg Med* 1986; 4:192-3.
35. **Ornato JP**, Gonzalez ER, Garnett AR. Atrial fibrillation with high degree AV block masquerading as ventricular fibrillation masquerading as asystole during cardiac arrest. *Crit Care Med* 1986; 15:334-5.
36. **Ornato JP**. The resuscitation of near-drowning victims. *JAMA* 1986; 256:75-77.
37. **Ornato JP**. The resuscitation of near-drowning victims (letter). *JAMA* 1986; 267:87.
38. Cameron JL, Reese WA, Tayal VS, Clark, Jr. RF, Kelso D, Gonzalez ER, Garnett AR, **Ornato JP**. Bacterial contamination of ambulance oxygen humidifier water reservoirs: A potential source of pulmonary infection. *Ann Emerg Med* 1986; 15:1300-2.
39. Garnett AR, **Ornato JP**, Gonzalez ER, Johnson EB. The clinical value of end-tidal carbon dioxide monitoring during cardiopulmonary resuscitation. *JAMA* 1987; 257:512-5.
40. Lui CY, **Ornato JP**, Buell J, Grissom RL, Erickson CC: Lack of superiority of the vectorcardiogram over the electrocardiogram in detecting inferior wall myocardial infarction regardless of time since infarction. *J Electrocard* 1987; 20:241-6.
41. **Ornato JP**, Craren EJ, Gonzalez ER, Garnett AR, McClung BK, Newman MM. The cost effectiveness of emergency medical technicians and paramedics trained to defibrillate compared to basic emergency medical technicians for treating out-of-hospital ventricular fibrillation. *Amer J Emerg Med* 1988; 6:108-12.
42. **Ornato JP**, Gonzalez ER, Garnett AR, Levine RL, McClung BK. The effect of CPR compression rate on end tidal carbon dioxide concentration and arterial pressure in man. *Crit Care Med*. 1988; 16:241-5.
43. Gelfman DM, **Ornato JP**, Gonzalez ER: Dopamine-induced increase in atrioventricular conduction in atrial fibrillation-flutter. *Clinical Cardiology*, 1987; 10:671-3.
44. Talley DB, **Ornato JP**, Rittgers SE, Clarke AM. Predicted flow distribution in a simulated CPR model under various system and input configurations. *Med Comput Biol Eng*.
45. Garnett AR, Glauser FL, **Ornato JP**. Hypercarbic arterial acidosis following resuscitation from a low cardiac output state. *Resuscitation* 1989; 17:55-61.
46. Talley DB, **Ornato JP**, Clarke AM: Computer-aided characterization and optimization of the Thumper compression waveform in closed chest CPR. *Biomed Instrum Technol* 1990; 24:283-8.
47. **Ornato JP**, Levine RL, Young DS, Garnett AR, Gonzalez ER: The effect of applied chest compression force on systemic arterial pressure and end-tidal carbon dioxide concentration during cardiopulmonary resuscitation in man. *Ann Emerg Med*, 1989 18:732-737.

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48. **Ornato JP**, Hallagan LF, Reese WA, Clark RF, Tayal, Garnett AR, Gonzalez ER. Treatment of paroxysmal supraventricular tachycardia in the emergency department based on clinical decision analysis. *Am J Emerg Med* 1988; 6:555-560.
49. Gonzalez ER, **Ornato JP**, Ware D, Bull DS, Evens RP. Comparison of the intramuscular analgesic activity of butorphanol and morphine in patients with sickle cell disease. *Ann Emerg Med* 1988; 17:788-791.
50. Gonzalez ER, **Ornato JP**, Garnett AR, Racht EM, et. al. Dose-dependent vasopressor response to epinephrine during CPR in humans. *Ann Emerg Med* 1989; 18:920-926.
51. Gonzalez ER, **Ornato JP**. Cardiopulmonary resuscitation documentation: A survey of 135 medical centers. *Drug Intelligence and Clinical Pharmacy*, 1988; 22:559-562.
52. Gonzalez ER, **Ornato JP**, Levine RL. Vasopressor effect of epinephrine with and without dopamine during CPR. *Drug Intell Clin Pharm* 1988; 22:868-72.
53. Gonzalez ER, **Ornato JP**, Garnett AR, et al. Dose-response evaluation of epinephrine during cardiopulmonary resuscitation in humans. *Drug Intelligence and Clinical Pharmacy* 1987; 21:19.
54. Gonzalez ER, **Ornato JP**. Central vs. Mixed Venous Blood Gases During CPR (editorial). *Am J Emerg Med* 1988; 6:676.
55. Gonzalez ER, **Ornato JP**. Electrical countershock for prehospital bradysystolic cardiac arrest. *Emerg Med Serv* 1988; 17:42-44.
56. Hummell RS, **Ornato JP**, Weinberg SM, Clarke AM. Spark-generating properties of electrode gels used during defibrillation: A potential fire hazard. *JAMA* 1988; 260:3021-4.
57. **Ornato JP**. Providing Cardiopulmonary Resuscitation and Emergency Care During the Acquired Immune Deficiency Syndrome Epidemic. *Emerg Med Serv* 1989; 18:45-48.
58. **Ornato JP**. Role of the Emergency Department in Decreasing the Time to Thrombolytic Therapy in Acute Myocardial Infarction. *Clinical Cardiology* 1990; 13:V48-52.
59. Gonzalez ER, Vanderheyden BA, **Ornato JP**, Comstock TG: Computer-assisted optimization of aminophylline therapy in the emergency department. *Ann Emerg Med* 1989; 7:295-401.
60. **Ornato JP**, Garnett AR, Glauser FL: Relationship between cardiac output and end-tidal carbon dioxide concentration. *Ann Emerg Med* 1990; 19:1104-6.
61. **Ornato JP**, Siegel L, Craren EJ, Nelson N: Increased incidence of sudden cardiac death attributed to acute myocardial infarction during winter. *Coronary Artery Disease* 1990; 1:199-203.
62. **Ornato JP**: The role of the emergency department in thrombolytic therapy in acute myocardial infarction (editorial). *Amer J Emerg Med* 1991; 9:86-7.
63. Heckerling PS, Tape TG, Wigton RS, Hissong KK, Leikin JB, **Ornato JP**, Cameron JL, Racht EM: Clinical prediction rule for pulmonary infiltrates. *Ann Intern Med* 1990; 113:664-70.
64. Dudley SC, Baumgarten CM, **Ornato JP**: Reversal of low voltage and infarction pattern of the surface electrocardiogram after renal hemodialysis for pulmonary edema. *J Electrocardiol* 1990; 23:341-5.
65. **Ornato JP**, Hallagan LF, McMahan SB, Peeples EH, Rostafinski AG: Attitudes of BCLS instructors about mouth-to-mouth resuscitation during the AIDS epidemic. *Ann Emerg Med* 1990; 19:151-6.
66. Gonzalez ER, **Ornato JP**, Jones LA, Bleecker GC, Strauss MJ, and the Virginia Thrombolytic Study Group: Hospital delays in thrombolytic therapy: a multicenter prospective assessment of critical factors. *Ann Emerg Med* 1992; 21:1215-21.
67. **Ornato JP**, Racht EM, Fitch JJ, Berry JF: The need for ALS in urban and suburban EMS systems. *Ann Emerg Med* (editorial) 1990; 19:1469-70.

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68. **Ornato JP**, Kerber RE, Thies W: Keeping American Heart Association ACLS standards and guidelines current. *Ann Emerg Med* (editorial) 1990; 20:216-7.
69. Cummins RO, Thies W, Pepe PE, **Ornato JP**: Improving survival from sudden cardiac arrest: the "chain of survival" concept. *Circulation* 1990; 83:1832-47.
70. **Ornato JP**: The earliest thrombolytic treatment of acute myocardial infarction: ambulance or emergency department? *Clinical Cardiology* 1990; 13:27-31.
71. Tape TG, Heckerling PS, **Ornato JP**, Wigton RS: Use of clinical judgement analysis to explain regional variation in physician accuracy in diagnosing pneumonia. *Medical Decision Making* 1991; 11:189-97.
72. McMahan S, **Ornato JP**, Racht EM, Cameron J: Multiagency prehospital evaluation of the pharyngo-tracheal lumen (PTL) airway. *Prehospital and Disaster Med* 1992; 7(1):13-18.
73. **Ornato JP**: Problems faced by the urban emergency department in providing rapid triage and intervention of the patient with suspected acute myocardial infarction. *Heart and Lung* 1991; 20:584-8.
74. Gonzalez ER, **Ornato JP**: The dose of epinephrine during cardiopulmonary resuscitation in humans: What should it be? *DICP, The Ann of Pharmacotherapy* 1991 July/August; Vol. 25;773-778.
75. **Ornato JP**, Shipley JB, Racht EM, Slovis CM, Wrenn KD, Pepe PE, Almeida SL, Ginger VF, Fotre TV. Multicenter study of a portable, hand-sized colorimetric end-tidal carbon dioxide detection device. *Ann Emerg Med* 1991; 21:518-23.
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23. **Ornato JP**, Peberdy MA: Cardiopulmonary Resuscitation. In "Textbook of Cardiovascular Medicine" (Ed. Eric J. Topol, MD). Lippincott-Raven Pub. (Philadelphia). 1998:1779-1806.
24. **Ornato JP**. Cardiopulmonary Resuscitation. In "Cardiology" (Ed. John DiMarco, MD). Mosby International (London, UK). 2000.
25. **Ornato JP**. Critical decision making in the patient with an acute coronary syndrome. In "Emergency Medicine Clinics of North America" (Ed. William J. Brady, MD and Richard A. Harrigan, MD). W.B. Saunders Company (Philadelphia, PA). pp283-94, 2000.
26. **Ornato JP**. Critical pathways approach using nuclear cardiac imaging in the emergency department. In "Critical pathways in Cardiology" (Ed. Christopher P. Cannon, MD). Lippincott, Williams & Wilkins (Baltimore, MD). 2000.
27. **Ornato JP**. Cardiopulmonary Resuscitation. In "Essential Cardiology" (Ed. Clive Rosendorff, MD, PhD). WB Saunders Company (Philadelphia, PA). pp 535-46, 2000.
28. **Ornato JP**. How to attain the rank of Professor. SAEM faculty handbook. Society of Academic Emergency Medicine. 2000.
29. **Ornato JP**. Valvular heart disease. In The Clinical Practice of Emergency Medicine (3rd Edition, Ed. Harwood-Nuss A). Lippincott-Williams & Wilkins (Philadelphia). 2001; 700-3.
30. **Ornato JP**. Use of 80-lead body surface mapping electrocardiography in the emergency department. In "Emergency Department Diagnosis and Treatment of Acute MI" (Ed. William J. Brady, MD and Richard A. Harrigan, MD). W.B. Saunders Co.(Philadelphia, PA), 2002.
31. **Ornato JP**, Peberdy MA: Cardiopulmonary Resuscitation. In "Textbook of Cardiovascular Medicine - 2nd Edition" (Ed. Eric J. Topol, MD). Lippincott-Raven Pub. (Philadelphia). 2002:1499-1528.
32. **Ornato JP**. Cardiopulmonary Resuscitation. In "Essential Cardiology" (2nd Edition, Ed. Clive Rosendorff, MD, PhD). WB Saunders Company (Philadelphia, PA). 2004.
33. **Ornato JP**. Sudden cardiac death. In Emergency Medicine (Ed. Tintinalli JE). McGraw-Hill (New York). 2004; 61-5.
34. **Ornato JP**. Cardiopulmonary Resuscitation (Ed. **Ornato JP** and Peberdy MA). Humana Press (Totawa, New Jersey). 2005:1-764.
35. The Future of Cardiopulmonary Resuscitation. In Cardiopulmonary Resuscitation (Ed. **Ornato JP** and Peberdy MA). Humana Press (Totawa, New Jersey). 2005:741-5.
36. ECG in Emergency Medicine and Acute Care. Eds. Chan TC, Brady WJ, Harrigan RA, **Ornato JP**, Rosen P. Elsevier/Mosby 2005; pp. 388.
37. **Ornato JP**. Electrocardiographic body surface mapping. In ECG in Emergency Medicine and Acute Care. Eds. Chan TC, Brady WJ, Harrigan RA, **Ornato JP**, Rosen P. Elsevier/Mosby 2005; 367-88.
38. **Ornato JP**. Valvular heart disease. In The Clinical Practice of Emergency Medicine (4th Edition, Ed. Harwood-Nuss A). Lippincott-Williams & Wilkins (Philadelphia). 2005.
39. **Ornato JP**. Cardiopulmonary Resuscitation. In "Essential Cardiology" (2nd Edition, Ed. Clive Rosendorff, MD, PhD). WB Saunders Company (Philadelphia, PA). 2005.
40. **Ornato JP**. Cutting Edge Imaging Technologies for Identifying and Risk Stratifying Suspected Acute Coronary Syndrome Patients in the Emergency Department. (Eds. Peacock F, Tiffany B). McGraw-Hill (New York). 2005.

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MAJOR CONTRIBUTIONS IN PUBLICATIONS CREDITED TO A COMMITTEE

1. Standards and Guidelines for Cardiopulmonary Resuscitation (CPR) and Emergency Cardiac Care (ECC). JAMA 1986; 255:2905- 2989.
2. Basic Cardiac Life Support Heartsaver Manual. American Heart Association. Dallas, Texas. 1987.
3. Advanced Cardiac Life Support Textbook. American Heart Association. Dallas, Texas. 1987.
4. Acid-Base Balance Chapter, Advanced Cardiac Life Support Textbook. American Heart Association. Dallas, Texas. 1987.
5. Special Resuscitation Situations Chapter, Advanced Cardiac Life Support Textbook. American Heart Association. Dallas, Texas. 1987.
6. American Heart Association, Emergency Cardiac Care Committee: Risk of Infection During CPR Training and Rescue: Supplemental Guidelines; JAMA 1989 262:2714-2715.
7. American Heart Association, Emergency Cardiac Care Committee: Risk of Infection During CPR Training and Rescue: Supplemental Guidelines; JAMA 1989 262:2714-2715.
8. American College of Cardiology, Subcommittee on Emergency Cardiac Care: Guidelines for In-Hospital Cardiac Monitoring; J Amer Coll Cardiol. JACC Vol. 18. No. 6; November 15, 1991:1431-3.
9. American Heart Association ACLS Subcommittee Task Force on Early Defibrillation: Automated External Defibrillation Chapter. Textbook of Advanced Cardiac Life Support. American Heart Association 1990.
10. American Heart Association ACLS Subcommittee Task Force on Early Defibrillation: Automated External Defibrillation Instructor's Supplement. Textbook of Advanced Cardiac Life Support (Instructor Supplement). American Heart Association 1990.
11. American Heart Association ACLS Subcommittee Task Force on Early Defibrillation: Handbook on Early Defibrillation with Automated External Defibrillation. American Heart Association 1990.
12. American Heart Association Emergency Cardiac Care Committee and the Advanced Cardiac Life Support Subcommittee: A new initiative from the American Heart Association: Automated external defibrillators and the advanced cardiac life support program. Amer J Emerg Med 1990; 9:86-7.
13. American Heart Association Emergency Cardiac Care Committee and the Advanced Cardiac Life Support Subcommittee: Encouraging early defibrillation: the American Heart Association and automated external defibrillators. Ann Emerg Med 1990.
14. Recommended Guidelines for Uniform Reporting of Data from Cardiac Arrest. The "Utstein Style." American Heart Association, European Resuscitation Council, Heart and Stroke Foundation of Canada and Australian Resuscitation Council. Ann Emerg Med 1991; 20:861-74.
15. Cummins RO, Thies W, and the members of the members of the ECC Committee and ACLS Subcommittee of the American Heart Association: Automated external defibrillators and ACLS: A new initiative from the American Heart Association. Am J Emerg Med 1991; 9 (Jan):91-94.
16. American Heart Association: Advanced Cardiac Life Support Algorithms and Drugs. 1993.
17. American Heart Association: Advanced Cardiac Life Support Textbook 1994.
18. American Heart Association: Advanced Cardiac Life Support Instructor's Manual. 1994.
19. National Heart Attack Alert Program Coordinating Committee Access to Care Subcommittee. Staffing and equipping emergency medical services systems: Rapid identification and treatment of acute myocardial infarction. Amer J Emerg Med 1995; 13:58-66.
20. National Heart Attack Alert Program Coordinating Committee Working Group on Educational Strategies to Prevent Prehospital Delay in Patients at High Risk for Acute Myocardial Infarction. Educational strategies to prevent prehospi-

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tal delay in patients at high risk for acute myocardial infarction: A report by the National Heart Attack Alert Program. *J Thrombosis and Thrombolysis* 1998; 6:47-61.

21. National Heart Attack Alert Program Coordinating Committee, Access to Care Subcommittee. Access to timely and optimal care of patients with acute coronary syndromes - Community planning considerations: A report by the National Heart Attack Alert Program. *J Thrombosis and Thrombolysis* 1998; 6:19-46.

REVIEW ARTICLES

1. **Ornato JP.** Silent mitral stenosis. *Pract Cardiol* 1: 50-51, 1975.
2. **Ornato JP.** Left ventricular aneurysm following myocardial infarction. *Pract Cardiol* 2: 47-49, 1976.
3. **Ornato JP.** Management of prehospital cardiac arrest. *Pract Cardiol* 2: 46-47, 1976.
4. **Ornato JP.** Management of angina pectoris. *Pract Cardiol* 2: 47-49, 1976.
5. **Ornato JP.** Advances in cardiopulmonary resuscitation. *Family Practice Recertification* 5 (9): 61-74, 1983.
6. Holmes DR, **Ornato JP**, Sinkinson CA. The risks and proper role of temporary cardiac pacing: indications, available equipment, choosing a site for insertion (Part I). *Emerg Med Reports* 5: 149-156, 1984.
7. Holmes DR, **Ornato JP**, Sinkinson CA. The risks and proper role of temporary cardiac pacing: indications, available equipment, choosing a site for insertion (Part II). *Emerg Med Reports* 5: 157-164, 1984.
8. **Ornato JP**, Gonzalez ER. Refractory ventricular fibrillation. *Emerg Decisions*: 35-42, April, 1986.
9. Gonzalez ER, **Ornato JP.** Electrical countershock for pre-hospital bradyasystolic cardiac arrest. *Emerg Med Serv* 1988; Vol. 17, No. 6:42-45.
10. **Ornato JP**, Gonzalez ER, Coyne MR, Beck CL, Collins MS: Arterial pH in out-of-hospital cardiac arrest. Response time as a determinate of acidosis. *Canadian J Prehospital Med* 1986; 1:25-30.
11. **Ornato JP**, Gonzalez ER: Cardiopulmonary resuscitation: The revised approach. *Emergency Decisions* 1987; Vol. 3, No. 7:55-62.
12. Brown DD, Garson A, **Ornato JP.** Paroxysmal supraventricular tachycardia: the problem is diagnosis. *Patient Care* 1987; 21:26-48.
13. **Ornato JP:** Cardiac arrest: A cardiologist's approach. *Cardiology Illustrated*. II 4:3-13.
14. Beyda DH, Lilja P, Modell JH, **Ornato JP.** Early resuscitation in near-drowning. *Patient Care* 1989; 70-94.
15. **Ornato JP**, Smith M: Thrombolytic therapy in acute MI. *Patient Care* 1990; 76-94.
16. Peberdy MA, **Ornato JP.** Coronary artery disease in women. *Heart Disease & Stroke* 1992; September/October:315-9.
17. **Ornato JP**, Peberdy MA, Gonzalez ER. Use of thrombolytic therapy in older patients. *Journal Critical Illness* 1993; 8:865-75.
18. **Ornato JP.** Thrombolysis in the emergency department: how to optimize the time to treatment. *Emergency Medicine* 1995; 27:44-58.
19. Peberdy MA, **Ornato JP**, Overton J. Use of mechanical cardiopulmonary resuscitation in the emergency medical services setting. *CPR Innovator* 1994.
20. Grauer K, **Ornato JP**, Pepe PE. Are you up-to-date on ACLS? *Patient Care*. 1995; 29:32-59.

BOOK REVIEWS

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1. **Ornato JP:** Synopsis of Cardiac Physical Diagnosis. Am J Emerg Med September, 1989.

EDUCATIONAL TAPES AND VIDEOCASSETTES

1. **Ornato JP**, Loeb N. Emergency Medicine Review Self-Study Course (25 audiocassette tape course with instructional manual). University of Nebraska Medical Center. Omaha, Nebraska. 1984.
2. American Heart Association Emergency Cardiac Care Committee. Basic Cardiac Life Support Instructional Videotape. 1987.
3. Actronics, Inc. (in association with the American Heart Association): Megaocode Instructional Videodisk. Release date, June 20, 1988

MAJOR LECTURES, COURSES DIRECTED, AND KEYNOTE ADDRESSES

1. Advanced Trauma Life Support Course, University of Nebraska Medical Center, July 12-13, 1979. Omaha, Nebraska.
2. Advanced Cardiac Life Support Course, Creighton University, Sept 5, 1979. Omaha, Nebraska.
3. Advanced Medical Life Support Course. "Introduction and Overall Patient Assessment - EMS System Implementation". University of Nebraska Medical Center, Sept 25, 1979. Omaha, Nebraska.
4. Advanced Medical Life Support Course. "Cardiovascular Emergencies - Part I", Sept 25, 1979. Omaha, Nebraska.
5. Advanced Medical Life Support Course. "Cardiovascular Emergencies - Part II", Sept 26, 1979. Omaha, Nebraska.
6. Advanced Medical Life Support Course. "Logic of Advanced Cardiac Life Support", Sept 26, 1979. Omaha, Nebraska.
7. Omaha Fire Division Paramedic Continuing Education Lectures, Sept 17 - Jan 14, 1979 (8 lecture hours). Omaha, Nebraska.
8. Advanced Medical Life Support Course. "General Medical Emergencies", Nov 14, 1979. Hastings, Nebraska.
9. Base Station Physicians Course, Dec 17, 1979. Omaha, Nebraska.
10. Advanced Trauma Life Support Course. "Stabilization and Transport, Trauma Indices and Upper Airway Management", March 7, 1980. Omaha, Nebraska.
11. "Dissecting Hematoma of the Aorta", University of Nebraska Medical Grand Rounds, April 18, 1980. Omaha, Nebraska.
12. "Accident Scene: Practical Demonstration of Moving and Transporting", University of Nebraska Medical Center Symposium on Neurological Emergencies, May 15, 1980. Omaha, Nebraska.
13. "Legal Issues in Emergency Care: Air Transport and Trauma Center", Continuing Education Course, University of Nebraska Medical Center, June 23 and 24, 1980. Omaha, Nebraska.
14. "Cardiac Arrhythmia Review for Internal Medicine House Staff", July 15, 1980. Omaha, Nebraska.
15. Advanced Cardiac Life Support Course. July 15, 1980. Omaha, Nebraska.
16. Advanced Trauma Life Support Course. "Shock", July 28, 1980. Omaha, Nebraska.
17. Advanced Trauma Life Support Course. "Stabilization and Transportation of the Injured" July 29, 1980. Omaha, Nebraska.
18. Advanced Trauma Life Support Course. "Initial Assessment" July 31, 1980. Omaha, Nebraska.

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19. University of Nebraska Medical Center Physician's Assistant Training Course. "Basics of Evaluation and Initial Management of Blunt Trauma of Thorax and Abdomen", Aug 25 and 22, 1980. Omaha, Nebraska.
20. Advanced Trauma Life Support Course. "Stabilization and Transportation" Aug 16, 1980. Omaha, Nebraska.
21. Base Station Physicians Course, July 11, 1980. Omaha, Nebraska.
22. University of Nebraska Family Practice Review Course. "Supraventricular Arrhythmias", Oct 7, 1980. Omaha, Nebraska.
23. University of Nebraska Family Practice Review Course. "Ventricular Arrhythmias", Oct 8, 1980. Omaha, Nebraska.
24. University of Nebraska Physician's Assistant Training Course. "Enzymes in Diagnostic Procedures, Oct 8, 1980. Omaha, Nebraska.
25. "Cardiovascular Physical Examination for Medical Students", University of Nebraska Medical Center. Feb 1981 (8 - 90 min class periods). Omaha, Nebraska.
26. University of Nebraska Cardiology Grand Rounds. "Sudden Cardiac Death", Feb 18, 1981. Omaha, Nebraska.
27. Basic Cardiac Life Support. UNMC Continuing Education, February 17, 1981. Omaha, Nebraska.
28. "Mechanism of Action: Diagnosis and Treatment of Cardiac Arrhythmias", American Association of Family Practice Course, April 23, 1981. Osmond, Nebraska.
29. "Emergency Medicine and UNMC's Outreach Service Across Nebraska", Northwest Medical Society's Annual Pre-Med Day, April 27, 1981. Chadron, Nebraska.
30. "Cardiac Emergencies and Sudden Cardiac Death", Internal Medicine Housestaff Lecture, University of Nebraska Medical Center, May 26, 1981. Omaha, Nebraska.
31. University of Nebraska Medical Grand Rounds. "Heat Related Emergencies" Medicine Grand Rounds, July 10, 1981. Omaha, Nebraska.
32. "Arrhythmias", University of Nebraska Medicine Resident Orientation Lecture, July 17, 1981. Omaha, Nebraska.
33. "Sudden Cardiac Death", Veterans Administration Internal Medicine Resident Lecture, July 18, 1981. Omaha, Nebraska.
34. University of Nebraska Physician's Assistant Course. "Clinical Correlation of Enzymes", Sept 18, 1981. Omaha, Nebraska.
35. "Environmental Emergencies", Emergency Medicine Review Course, University of Nebraska Medical Center, Sept 30, 1981. Omaha, Nebraska.
36. "New Aspects of Cardiopulmonary Resuscitation", University of Nebraska Continuing Educational Network Telephone Conference, Oct 16, 1981. Omaha, Nebraska.
37. "Cardiovascular Physical Examination Medical Student Course", University of Nebraska Medical Center (16 hr course), Oct 20 - Nov 12, 1981. Omaha, Nebraska.
38. Advanced Cardiac Life Support Course, University of Nebraska Medical Center, February 3, 1982. Omaha, Nebraska.
39. Base Station Physician Course, Lincoln Medical Education Foundation, Feb 17, 1982. Lincoln, Nebraska.
40. "UNMC Emergency Patient Transport System", Nebraska State Legislature Unicameral Club, Keynote Speaker, Feb 22, 1982. Lincoln, Nebraska.
41. Advanced Cardiac Life Support Course, University of Nebraska Medical Center, March 16, 1982. Omaha, Nebraska.

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42. Advanced Cardiac Life Support Course, St Joseph's Hospital, April 2, 1982. Omaha, Nebraska.
43. "Emergency Cardiac Pacemakers", Emergency Medicine Board Review Course, University of Nebraska Medical Center, April 12, 1982. Omaha, Nebraska.
44. "Environmental Emergencies", Emergency Medicine Board Review Course, University of Nebraska Medical Center, April 13, 1982. Omaha, Nebraska.
45. Basic Life Support Course for Physicians, Nebraska Medical Society Annual Session, May 2, 1982. Omaha, Nebraska.
46. Advanced Cardiac Life Support Course, University of Nebraska Medical Center, May 6, 1982. Omaha, Nebraska.
47. "Head, Neck and Spinal Injuries", Nebraska Community College, June 13, 1982. Norfolk, Nebraska.
48. "Use of EOA and MAST", Paramedic Continuing Education Lecture, March 31, 1982. Arlington, Nebraska.
49. "CPR: are we doing anything right?" Medical Grand Rounds, University of Nebraska Medical Center, June 11, 1982. Omaha, Nebraska.
50. Advanced Trauma Life Support Instructor's Course. "Head, Neck, Spinal Trauma", Nebraska Community College, June 13, 1982. Norfolk, Nebraska.
51. Advanced Cardiac Life Support Course. "Invasive Techniques", June 30, 1982. Omaha, Nebraska.
52. Advanced Cardiac Life Support Course. University of Nebraska Medical Center, Aug 26, 1982. Omaha, Nebraska.
53. Advanced Cardiac Life Support Course. University of Nebraska Medical Center, Sept. 2, 1982. Omaha, Nebraska.
54. "Pacemakers", Emergency Medicine Review Course, University of Nebraska Medical Center, Sept 13, 1982. Omaha, Nebraska.
55. "Enzymes in Diagnosis", Freshman Medical Student Clinical Correlation Lecture, University of Nebraska Medical Center, Sept 17, 1982.
56. Advanced Trauma Life Support Course. "Thoracic Trauma", University of Nebraska Medical Center, Sept 20-21, 1982. Omaha, Nebraska.
57. Advanced Trauma Life Support Course, "Stabilization and Transport", University of Nebraska Medical Center, Sept 21, 1982. Omaha, Nebraska.
58. "Enzymes in Emergency Medicine", Clinical Correlation Class for Physician Assistants, University of Nebraska Medical Center, Sept 23, 1982. Omaha, Nebraska.
59. "Emergency Medicine for Obstetricians", University of Nebraska Medical Center, Oct 20 & 27, 1982. Omaha, Nebraska.
60. "Cardiovascular Clinical Diagnosis", Freshman Medical Student Clinical Correlation Lecture, University of Nebraska Medical Center, Oct 19 & Nov 11, 1982. Omaha, Nebraska.
61. "Ethics of Cardiopulmonary Resuscitation". Humanities Grand Rounds, University of Nebraska Medical Center, Nov 24, 1983. Omaha, Nebraska.
62. Advanced Cardiac Life Support Course. University of Nebraska Medical Center, Jan 12-13, 1983. Omaha, Nebraska.
63. "Arrhythmias". Paramedic Nurse Consultant Course, University of Nebraska Medical Center, March 16, 1983. Omaha, Nebraska.

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64. "Pacemakers". Emergency Medicine Review Course, University of Nebraska Medical Center, April 18, 1983. Omaha, Nebraska.
65. "Environmental Emergencies". Emergency Medical Review Course, University of Nebraska Medical Center, April 23, 1983. Omaha, Nebraska.
66. Advanced Trauma Life Support Course, University of Nebraska Medical Center, May 24, 1983. Omaha, Nebraska.
67. Advanced Cardiac Life Support Course, "Invasive Techniques", University of Nebraska Medical Center, June 30, 1983. Omaha, Nebraska.
68. "The Cardiac Patient". Nebraska State Emergency Medical Services Conference. July 23, 1983. Omaha, Nebraska.
69. "Enzymes in Cardiac Diagnosis". Physician Assistant and Medical Students, University of Nebraska Medical Center, Sept 21, 1983. Omaha, Nebraska.
70. Emergency Medicine Review Course - Course Coordinator & Lecturer, "Cardiology" and "New Cardiovascular Drugs" sections, University of Nebraska Medical Center, Sept 26-Oct 1, 1983. Omaha, Nebraska.
71. Advanced Trauma Life Support Course, University of Nebraska Medical Center, Nov 3, 1983. Omaha, Nebraska.
72. "Coronary Artery Disease", Introduction to Clinical Medicine Course, University of Nebraska Medical Center, Dec 7, 1983. Omaha, Nebraska.
73. Basic Cardiac Life Support Course. University of Nebraska Medical Center, Jan 10, 1984. Omaha, Nebraska.
74. Advanced Trauma Life Support Course. "Stabilization and Transportation", University of Nebraska Medical Center, March 16, 1984. Omaha, Nebraska.
75. "Cardiogenic Shock Management - Case Review". Family Practice Review Course, University of Nebraska Medical Center, April 3, 1984. Omaha, Nebraska.
76. "Advances in Resuscitation". Family Practice Review Course, University of Nebraska Medical Center, April 3, 1984. Omaha, Nebraska.
77. "Emergency use of temporary cardiac pacemakers". Emergency Medicine Review Course, University of Nebraska Medical Center, April 9, 1984. Omaha, Nebraska.
78. "New Cardiovascular Drugs". Emergency Medicine Review Course, University of Nebraska Medical Center, April 9, 1984. Omaha, Nebraska.
79. "Environmental Emergencies". Emergency Medicine Review Course, University of Nebraska Medical Center, April 14, 1984. Omaha, Nebraska.
80. "New Emergency Department Techniques and Equipment", Emergency Medicine Review Course, University of Nebraska Medical Center, April 14, 1984. Omaha, Nebraska.
81. "Systems of Emergency Care". Emergency Medicine Course for Medical Students, University of Nebraska Medical Center, April 16, 1984. Omaha, Nebraska.
82. "Initial Emergency Management/Triage/Diaster Medicine". Emergency Medicine Course for Medical Students, University of Nebraska Medical Center, April 18, 1984. Omaha, Nebraska.
83. "Stabilization and Transportation of the Sick and Injured". Emergency Medicine Course for Medical Students, University of Nebraska Medical Center, April 20, 1984. Omaha, Nebraska.
84. "Hemodynamic Monitoring". Intensive Care Review Course. University of Nebraska Medical Center, April 17, 1984. Omaha, Nebraska.
85. "Acute Emergency Management". Sophomore Introduction to Clinical Medicine Course, University of Nebraska Medical Center, April 16,18,20, 1984. Omaha, Nebraska.

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86. Multiple Trauma Workshop, Continuing Education for Iowa Western Community College, April 28, 1984. Council Bluffs, Iowa.
87. "Research in Emergency Nursing". Senior Nursing Students, University of Nebraska Medical Center, April 30, 1984. Omaha, Nebraska.
88. Advanced Cardiac Life Support Course, course coordinator. University of Nebraska Medical Center, May 9, 1984. Omaha, Nebraska.
89. "Cardiology Case Discussion". Family Practice Review Course. University of Nebraska Medical Center, May 15, 1984. Omaha, Nebraska.
90. "Advances in Cardiac Resuscitation". Family Practice Review Course, University of Nebraska Medical Center, May 15, 1984. Omaha, Nebraska.
91. "Advances in Resuscitation". Family Practice Review Course, University of Nebraska Medical Center, Sept 6, 1984. Omaha, Nebraska.
92. "Emergency Medical Service Organization", Emergency Medicine Review Course, University of Nebraska Medical Center, Sept 17-19, Sept 27-Oct 1, 1984. Omaha, Nebraska.
93. "New Techniques in Resuscitation". Intern Conference and Clinical Management Conference, McGuire VA Hospital, May 6 and May 8, 1985. Richmond, Virginia.
94. "Environmental Emergencies", Shock/Syncope Lecture for M-II Students, Medical College of Virginia, July 1, 1985. Richmond, Virginia.
95. "Codes & Medicine", Blackstone Family Practice Center, Inc. Teaching Conference, July 29, 1985. Blackstone, Virginia.
96. "New Concepts in the Use of Drugs During Resuscitation", Emergency Medicine Conference, Aug 20-21, 1985. Washington, DC.
97. Statewide EMS Symposium on the Advances and Controversies in Cardiac Resuscitation, Virginia Chapter American College of Emergency Physicians, Dec 6, 1985. Highland Springs, Virginia.
98. "Prehospital use of mechanical CPR devices", Williamsburg Community Hospital, Feb. 11, 1986. Williamsburg, Virginia.
99. "Shock and syncope", Cardiovascular M-II lecture and workshop, February 21, 24 & 25, 1986. Medical College of Virginia, Richmond, Virginia.
100. "Field management and transportation of the critically ill patient", American Heart/American Lung Association Critical Care Conference, Feb 21, 1986. Williamsburg, Virginia.
101. "Recent Advances in CPR: New Concepts, Technology and Pharmacology", American Heart/American Lung Association Critical Care Conference, Feb 21, 1986. Williamsburg, Virginia.
102. "CPR Rescuer Safety" American Heart Association National Affiliate Update Conference, Feb 27-Mar 1, 1986. Salt Lake City, Utah.
103. "The new AHA CPR and ECC Standards". American Heart Association Vermont Affiliates Current Concepts in Resuscitation Conference, April 5, 1986. Rutland, Vermont.
104. "Clinical Research in Cardiac Resuscitation". Richmond Academy of Medicine/Department of Internal Medicine Faculty Research Seminar, Medical College of Virginia, Apr 7, 1986, Richmond, Virginia.
105. "BCLS/ACLS Instructor Update". American Heart Association Maryland Affiliate, Essex Community College, Apr 12, 1986. Baltimore, Maryland.
106. "The effect of prehospital EMT defibrillation on survival from out-of-hospital cardiac arrest". The Wisconsin State Medical Society Annual Meeting, Apr 19, 1986. Milwaukee, Wisconsin.

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107. EMT-Defibrillation Standards Seminar, April 25-27, 1986. San Francisco, California.
108. "Advances in CPR". Medical College of Virginia Course: Emergency Medicine for the Primary Care Physician, May 2-4, 1986. Williamsburg, Virginia.
109. "BCLS/ACLS Changes in Perspective". American Heart Association North Carolina Affiliate 37th Annual Meeting, Delegate Assembly and Scientific Sessions, May 16-17, 1986. Winston-Salem, North Carolina.
110. Advanced Cardiac Life Support Provider and Instructor Course. American Heart Association. May 26-31, 1986. Kuala Lumpur, Malaysia.
111. "Special Resuscitation Situations". Singapore Cardiac Society. May 31, 1986. Singapore, Malaysia.
112. "Advances in CPR technique". Medical Staff Meeting Tidewater Memorial Hospital, July 22, 1986. Tappanock, Virginia.
113. "Changes in BCLS and ACLS for Paramedics and EMTs". Emergency Medical Services of Montgomery County Fire & Rescue Services, August 22-24, 1986. Bethesda, Maryland.
114. "Recent advances in CPR and ACLS". University of Virginia Medical Center, August 29, 1986. Charlottesville, Virginia.
115. "The new Standards and Guidelines on resuscitation for practicing physicians". Mary Washington Hospital Medical Staff Conference, Sept 4, 1986. Fredericksburg, Virginia.
116. "New Standards and Guidelines in CPR". Heart and Stroke Foundation of Ontario Educational Symposium and Conference on Citizen CPR, Sept 19-21, 1986. Toronto, Canada.
117. Advanced Cardiac Life Support Course. Tidewater Life Support Learning Center, October 11-12, 1986. Norfolk, Virginia.
118. "Pathophysiology, risk factors, and complications of coronary artery disease". Virginia Society of Hospital Pharmacists Annual Conference. Oct 24-26, 1986. Williamsburg, Virginia.
119. "The scientific rationale behind the new changes in BCLS and ACLS". Council of the Pre-hospital Emergency Services of Metropolitan Montreal (Urgencies Sante'), Nov 5-6, 1986. Montreal, Canada.
120. "New advances and guidelines in CPR/ACLS for prehospital providers". Tenth Annual Prehospital Emergency Care and Crisis Intervention Conference, Nov 13-15, 1986. Salt Lake City, Utah.
121. "Life After Life Experiences", Tenth Annual Prehospital Emergency Care and Crisis Intervention Conference, Nov 13-15, 1986. Salt Lake City, Utah.
122. "Special Resuscitation Situations (Near Drowning, Electrocutation, Hypothermia, Trauma)", Tenth Annual Prehospital Emergency Care and Crisis Intervention Conference, Nov 13-15, 1986. Salt Lake City, Utah.
123. "Difficult clinical judgements during cardiac arrest". Tenth Annual Prehospital Emergency Care and Crisis Intervention Conference, Nov 13-15, 1986. Salt Lake City, Utah.
124. "Should all EMT Services upgrade to EMT-D?". Tenth Annual Prehospital Emergency Care and Crisis Intervention Conference, Nov 13-15, 1986. Salt Lake City, Utah.
125. "Future technological directions for EMS". Keynote address, Statewide EMS Symposium, Nov 14-16, 1986. Richmond, Virginia.
126. "EMT-D for the state of Virginia". Statewide EMS Symposium, Nov 14-16, 1986. Richmond, Virginia.
127. "New trends in CPR". Critical Care Update Workshop, Veterans Administration, Nov 19, 1986. Richmond, Virginia.
128. Advanced Cardiac Life Support Instructor's Course. University of Virginia, Dec 6-7, 1986. Charlottesville, Virginia.

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129. "New directions in acid-base management during resuscitation". University of North Carolina Mountain Area Health Education Center Symposium, Dec 9-10, 1986. Chapel Hill, North Carolina.
130. "Defibrillation by EMTs". Emergency Medical Technician Refresher Course. St Mary's Hospital, Jan 24, 1987. Richmond, Virginia.
131. "Future directions in prehospital emergency cardiac care". Keynote speaker, Tidewater Virginia EMS Council Board of Directors Annual Meeting, Feb 10, 1987. Norfolk, Virginia.
132. "Mastering the New CPR Standards". Virginia Chapter American College of Emergency Physicians 1987 Scientific Assembly, February 11-15, 1987. Washington, DC.
133. "Research in the emergency department - roundtable discussion". Virginia Chapter American College of Emergency Physicians 1987 Scientific Assembly, February 11-15, 1987. Washington, DC.
134. "Invasive and non-invasive devices in critical care". Virginia Chapter American College of Emergency Physicians 1987 Scientific Assembly, February 11-15, 1987. Washington, DC.
135. "Sudden cardiac death in the young adult". American Heart/American Lung Association 11th Annual Heart/Lung Critical Care Conference, February 20-21, 1987. Williamsburg, Virginia.
136. "Current management of cardiac arrest". American Heart/American Lung Association 11th Annual Heart/Lung Critical Care Conference, February 20-21, 1987. Williamsburg, Virginia.
137. "ACLS Update". Medical Grand Rounds, Reading Hospital & Medical Center, Apr 9, 1987. Reading, Pennsylvania.
138. "Future directions for emergency cardiac care in Virginia". Keynote speaker, 11th Annual Northern Virginia EMS Council Meeting, Apr 16, 1987. Fredricksburg, Virginia.
139. "EMT defibrillation in Virginia". Chesapeake EMS Council Board of Directors Annual Meeting, Apr 21, 1987. Portsmouth, Virginia.
140. "New technologies in the treatment of medical emergencies". Medical College of Virginia Comprehensive Review Course in Emergency Medicine, Apr 24-26, 1987. Williamsburg, Virginia.
141. "Scientific rationale behind the changes in the BCLS AHA Standards". North Dakota Statewide CPR Instructor Conference, May 28, 1987. Bismarck, North Dakota.
142. "New BCLS and ACLS Standards". Keynote speaker, French National CPR Instructors' Conference, May 30, 1987. Montreal, Canada.
143. "Emergency resuscitation in the hospital setting". Keynote speaker, Roanoke Valley Hospital quarterly medical staff meeting, July 15, 1987. Roanoke, Virginia.
144. "Management of Sudden Death Risk". Preventing Sudden Death Seminar, September 15-16, 1987. Winchester Medical Center, Winchester, Virginia.
145. "ACLS Update" program. Eastern Virginia Medical Authority, September 18, 1987, Norfolk, Virginia.
146. Central Shenandoah EMS Council Annual Social & Business Meeting. Keynote speaker, October 14, 1987. Fishersville, Virginia.
147. Virginia Society of Cardiovascular Rehabilitation Annual Meeting. ALS Update, October 18, 1987. Williamsburg, Virginia.
148. Virginia Emergency Medical Services Symposium. Speaker, October 31, 1987. Norfolk, Virginia.
149. Advanced Cardiac Life Support instructor course. Faculty Member, December 12, 1987. University of Virginia, Charlottesville, Virginia.
150. "Current Trends in Emergency Cardiac Care". Speaker EMS Peninsulas Council, Inc., Seminars in Excellence Series, February 4, 1988. Riverside Hospital, Newport News, Virginia.

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151. Virginia Commonwealth University Grand Rounds. "Frontiers in CPR at MCV", February 11, 1988. Richmond, Virginia.
152. Emergency Medicine Residency at Brooke Army Medical Center, Grand Rounds: The use of end-expiratory CO₂; High impulse CPR; and Fire potential of electrode gels, March 19, 1988. Department of the Army, Fort Sam Houston, Texas.
153. Virginia Commonwealth University Internal Medicine Grand Rounds. "Aortic Dissection", August 25, 1988.
154. Virginia Commonwealth University, Continuing Education - Virginia Hospital Television Network Teleconference - "Acute Chest Pain: Diagnostic Dilemmas and Risk", September 28, 1988.
155. Nippon Medical School, Osaka, Japan; Symposium - "Clinical and Research Experience with the Michigan Instrument's CPR Thumper", November 25, 1988.
156. Medical Education Program Merck Sharp & Dohme "Newer Therapeutic Approaches in Cardiovascular Disease" (course director); Portsmouth Naval Hospital; Portsmouth, Virginia; June 21, 1989
157. Anne Arundel County Medical Society CME Program; Therapeutic Options in Treating a Patient with Acute Myocardial Infarction; Holiday Inn, Annapolis, Maryland; October 4, 1989.
158. Henrico Doctors; ACLS in Perspective, Richmond, Virginia; July 26, 1989
159. MCV Affiliate Hospital Continuing Medical Education Program, Northampton-Accomack Hospital; Thrombolytic Therapy; Nassawadox, Virginia; July 19, 1989.
160. "Thrombolytic Therapy in the Emergency Department." Beecham Symposium, August, 18-20, 1989. Hamilton, Bermuda.
161. ParaScope 1989 - Lecture, Cardiovascular drugs in the 90's; Workshop, Advanced Cardiac Life Support; Bethesda, Maryland August 27, 1989.
162. Florida Society of Critical Care Medicine/Upjohn Company - Advances in Acute MI Therapy; Marcos Island, Florida; September 3, 1989
163. MCV Hospital Department of Internal Medicine Resident Rounds - Acute MI Management; September 7, 1989.
164. Kuakini Fifth Annual Symposium for Mobile Intensive Care Technicians and Emergency Care "Advances and Issues in Pre-Hospital Emergency Care" - ACLS Update and Future Directions in Pre-Hospital Cardiac Care; Kuakini Medical Center, Honolulu, Hawaii; September 14-15, 1989.
165. MCV Hospital Department of Internal Medicine, Division of Cardiology - Cardiology Core Curriculum - Evaluation of Patient with Chest Pain Who is Having an MI - Approach with Thrombolysis/PTCA. October 25, 1989.
166. Eighth Annual Cardiology Symposium - Updates in Clinical Cardiology: Advances for Today's Use - Washington Adventist Hospital, Department of Seminars - Cardiology; Bethesda, Maryland - Update for Appropriate Use of Thrombolytic Agents; October 27, 1989.
167. First European CPR Congress, Antwerp, Belgium - Cardiology Pulmonary Resuscitation in the age of AIDS, November 4, 1989.
168. MCV Hospital Department of Oral and Maxillofacial Surgery Department Conference; Richmond Eye and Ear Hospital - Evaluation of Chest Pain; November 10, 1989.
169. American Society of Hospital Pharmacists Meeting, Atlanta, Georgia - Symposium - "Thrombolytic Therapy in the Treatment of AMI - Where Should Thrombolytic Therapy Be Given: In the Field, Emergency Department or CCU?" December 3, 1989.
170. MCV Affiliate Hospital Continuing Medical Education Program; John Randolph Hospital, Hopewell, Virginia - Thrombolytic Therapy; January 8, 1990
171. The Upjohn Company Medical Sciences Liaison_ Cardiovascular Disease Unit Meeting, Dallas, Texas - The Use of Thrombolytic Agents in the Emergency Department; February 13, 1990.

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172. Thrombolytic therapy in AMI; Continuing education lecture: Emporia, Virginia. February 20, 1990.
173. Use of thrombolytic therapy in the E.D. University of Maryland, Baltimore, MD. March 3, 1990.
174. The E.D. is the most important site for thrombolytic therapy. American College of Emergency Physicians symposium. Tucson, AZ. March 12, 1990.
174. High dose epinephrine. American College of Cardiology symposium. New Orleans, LA. March 18, 1990.
175. Field vs. E.D. thrombolytic treatment of AMI. American College of Cardiology symposium. New Orleans, LA. March 22, 1990.
176. Thrombolytic update. Grand Rounds - DC General Hospital. Washington, DC. March 28, 1990.
177. Automated external defibrillation. US Air Force review course. Washington, DC. April 4, 1990.
178. Changes in ACLS. American Heart Association New York Affiliate annual meeting. Syracuse, NY. April 25, 1990.
179. ACLS Instructor Course Director. Richmond, VA. May 5-6, 1990.
180. Thrombolytic review. Suburban Hospital Grand Rounds. Washington, DC. May 18, 1990.
181. End-tidal carbon dioxide in field EMS use. Houston, TX. June 14, 1990.
182. Future directions in ACLS - capnography during CPR. National Association of EMS Physicians annual meeting. Keynote address. June 15, 1990.
183. Quality assurance in ACLS. International resuscitation symposium. Stavanger, Norway. June 21, 1990.
184. Early use of thrombolytics. Virginia Heart Institute Grand Rounds. Richmond, VA. June 29, 1990.
185. Clinical research in EMS. Virginia ACEP annual symposium keynote address. August 1, 1990.
186. Use of thrombolytics in AMI. Holstein, TN. August 29, 1990.
187. Field vs. ED use of thrombolytics: a debate. European Congress of Cardiology. Stockholm, Sweden. September 20, 1990.
188. Thrombolytic review. Medical College of Pennsylvania Emergency Medicine Grand Rounds. Philadelphia, PA. September 28, 1990.
189. Emergency Medicine Grand Rounds. Methodist Hospital. Indianapolis, IN. October 9, 1990.
190. Case discussion: Medico-legal implications of AMI. American Academy of Family Practice review course. Dallas, TX. October 10, 1990.
191. Rapid identification and triage of the acute MI patient. NIH/NHLBI Symposium Group Leader. Bethesda, MD. October 11-12, 1990.
192. Update on resuscitation. University of Florida. Orlando Regional Medical Center Emergency Medicine Grand Rounds. October 25, 1990.
193. End-tidal carbon dioxide monitoring during CPR. Wisconsin Chapter American College of Emergency Physicians Annual Scientific Meeting. Oshkosh, WI. November 15, 1990.
194. Treatment of the acute MI patient. University of South Carolina Medical Symposium. November 17, 1990.
195. Advances in the treatment of acute MI. University of Maryland Symposium. December 5, 1990.
196. Utstein conference to set international standards for record-keeping during resuscitation. London, England. December 6-9, 1990.

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197. Use of transesophageal echocardiography during resuscitation. Johns Hopkins Emergency Medicine Grand Rounds. Baltimore, MD. February 8, 1991.
198. Resuscitation Seminar. Hawaii American Heart Association Annual CPR Conference. Honolulu, Hawaii. February 22-24, 1991.
199. Thrombolytic therapy in the emergency department. Baylor University Symposium. Houston, TX. March 9, 1991.
200. Controversies in airway management during resuscitation. Maryland Shock-Trauma Center Symposium. Baltimore, MD. March 23, 1991.
201. Thrombolytic symposium. Texas Academy of Family Practice Annual Meeting. Dallas, TX. May 11, 1991.
202. Acute MI - early management. George Washington Continuing Education symposium speaker. Washington, DC. May 12, 1991.
203. Problems associated with managing acute MI in busy, urban emergency departments. American Association of Critical Care Nurses Annual Meeting. Boston, MA. May 12, 1991.
204. The new AHA process for setting standards and guidelines in ACLS. International Emergency Medicine and Disaster Meeting. Montreal, Canada. May 15, 1991.
205. Management of the patient with acute MI in the emergency department. Ohio Family Practice Annual Meeting. Columbus, OH. August 10, 1991.
206. Advanced resuscitation techniques. Shadyside Hospital Grand Rounds. Pittsburgh, PA. August 16, 1991.
207. Fall 1991 Anesthesia Symposium. Roanoke Memorial Hospitals, Anesthesia Department, Roanoke, VA. September 14, 1991.
208. Use of automated external defibrillators. Speak at National Association of EMS Coordinators. Charleston, WV. September 23, 1991.
209. Resuscitation in the emergency department. Norfolk Nurse's Association Annual Trauma Symposium. Norfolk, VA. September 27, 1991.
210. Thrombolytic symposium panel speaker (symposium chaired by HJC Swan, MD). American Heart Association Annual Scientific Session, Anaheim, CA. November 11, 1991.
211. Update on resuscitation and use of transesophageal echo during CPR. Virginia Emergency Medical Services Annual Statewide Symposium. Williamsburg, VA. November 15, 1991.
212. ACLS Research and Advances in Resuscitation Keynote presentation. New York State Emergency Medical Services Annual Meeting. Albany, NY. November 25, 1991.
213. Early management of AMI. American Society of Hospital Pharmacists Annual Scientific Meeting. New Orleans, LA. December 8, 1991.
214. Thrombolysis in AMI. Peninsula General Hospital Symposium. Salisbury, MD. February 8, 1992.
215. Monitoring during Resuscitation. Keynote presentation. American Heart Association Emergency Cardiac Care and CPR Guidelines 1992 Conference. Dallas, Texas. February 23, 1992.
216. Resuscitation guidelines for 1992. VA Hospital Internal Medicine Grand Rounds. Richmond, VA. March 6, 1992.
217. Advances in Emergency Cardiac Care. Presentation to the Board of Directors, Northern Virginia American Heart Association Council. Annandale, VA. March 10, 1992.
218. Oral and Maxillofacial Surgery Department Weekly Conference. Richmond Eye and Ear Hospital, Richmond, VA. March 27, 1992.

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219. ACLS Update. Colorado Heart Association. Vail, CO. October 10, 1992.
220. Emergency Medicine Board Review Course Lecture on CPR. Johns Hopkins Medical Center. Baltimore, MD. October 17, 1992.
221. Keynote speaker, Canadian Heart/Stroke Foundation Annual Scientific Session. "Chain of Survival". Toronto, Canada. November 14, 1992.
222. Plenary address, American Heart Association Annual Scientific Session. Prehospital management of acute myocardial infarction. New Orleans, LA. November 16, 1992.
223. "Prehospital thrombolysis". National Association of EMS Physician's Annual Scientific Meeting. Naples, FL. Jan 12, 1993.
224. "Monitoring the effectiveness of CPR". National Association of EMS Physician's Annual Scientific Meeting. Naples, FL. Jan 12, 1993.
225. "Hemodynamic changes during CPR". Norfolk Cardiovascular Society. Norfolk, VA. Jan 19, 1993.
226. "Emergency department evaluation of the patient with chestpain". MCV Resident's Rounds. Richmond, VA. Feb 10, 1993.
227. "Missed acute myocardial infarction". Emergency and Critical Care Medicine Annual Course. Orlando Regional Medical Center. Orlando, FL. Feb 20, 1993.
228. "Monitoring blood flow during CPR". Emergency and Critical Care Medicine Annual Course. Orlando Regional Medical Center. Orlando, FL. Feb 20, 1993.
229. "Review of ACLS changes". MCV Nurse Anesthesia Program. Richmond, VA. Mar 1, 1993.
230. "ACLS Paramedic Update". Richmond Ambulance Authority. Richmond, VA March 11, 1993.
231. "Changes in Richmond's EMS System". MCV Internal Medicine Grand Rounds. Richmond, VA. July 8, 1993.
232. "Emergency Cardiac Care Legislative Priorities". American Heart Association Affiliate Staff Annual Conference. Washington, DC. July 12, 1993.
233. "Automated External Defibrillators". International Association of Rescue and Emergency Care. Richmond, VA. August 16, 1993.
234. "New horizons in ACLS". Johns Hopkins Hospital Emergency Medicine Grand Rounds. Baltimore, MD. September 3, 1993.
235. "The New ACLS Algorithms". MCV Paramedic Class 1993. September 14, 1993.
236. "Optimizing Time to Treatment of Patients with Acute Myocardial Infarction". National Registry of Myocardial Infarction Annual Symposium. San Diego, CA. October 2, 1993.
237. "ACLS Changes in 1993". Riverside Hospital Critical Care Symposium. Hampton, VA. October 13, 1993.
238. "Improving Prehospital Emergency Cardiac Care". American Heart Association Annual Scientific Sessions. Atlanta, GA. November 10, 1993.
239. "New ACLS Changes". Virginia State EMS Symposium. Richmond, VA. November 14, 1993.
240. "Improving Chart Documentation". Louise Obici Memorial Hospital. Suffolk, VA. November 16, 1993.
241. "Prehospital resuscitation in the United States". SAMU. Paris, France. January 24, 1994.
242. "American Heart Association Guidelines for Cardiopulmonary Resuscitation". 2nd Annual Congress on Resuscitation. Lyon, France. January 25, 1994.
243. "Technetium sestamibi for screening patients with chest pain". MCV Resident's Rounds. Richmond, VA. February 3, 1994.

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244. MCV Nurse Anesthesia Pathophysiology Course. "Management of cardiac arrest". Richmond, VA. March 1, 1994.
245. Keynote address. Emergency Cardiac Care Update - 1994. Richmond, VA. May 13, 1994.
246. Emergency Medicine Grand Rounds: "Resuscitation Research". University of New York at Stonybrook. Long Island, NY. June 2, 1994.
247. Internal Medicine Grand Rounds: "High Technology Triage and Evaluation of Patients with Chest Pain in the Emergency Department". Medical College of Virginia. June 16, 1994.
248. Internal Medicine Resident Rounds: "Management of Acute Myocardial Infarction - 1994". Medical College of Virginia. August 25, 1994.
249. American College of Cardiology Florida Chapter Consensus Conference. "A high technology strategy for triage and evaluation of patients with chest pain". Tampa, FL. August 27, 1994.
250. American College of Emergency Physicians Annual Scientific Assembly. "Management of chest pain in the ED". Orlando, FL. September 12, 1994.
251. Lutheran General Hospital. "Emergency Department use of Perfusion Imaging". Chicago, IL. September 21, 1994.
252. American Heart Association Indianapolis Affiliate ACLS Annual Workshop. Keynote address: "The National Heart Attack Alert Program". October 14, 1994.
253. Chicago Symposium on Advances in CPR Research and Utstein III: Setting Guidelines on Laboratory Research. "Management of bradyasystolic cardiac arrest". Chicago, IL. October 17, 1994.
254. European Resuscitation Council Annual Scientific Assembly Keynote Lecture: "Prevention and Treatment of Sudden Cardiac Death". Mainz, Germany. October 22, 1994.
255. Italian Resuscitation Council Lecture: "Improving Emergency Cardiac Care". Trieste, Italy. October 24, 1994.
256. Rome Emergency Medical Services Central Operations Conference: "Organizing EMS for Optimal Cardiac Care". Rome, Italy. October 25, 1994.
257. Milan EMS Center Conference: "Delivering Effective Emergency Cardiac Care in an Urban Environment". Milan, Italy. October 27, 1994.
258. American Heart Association Annual Scientific Sessions Cardiovascular Conference: "New forms of CPR". Dallas, TX. November 13, 1994.
259. American Heart Association Public Access Defibrillation Conference: "The need for integrated communications capability in a public access defibrillator". Washington, DC. December 9-10, 1994.
260. Prevention of endocarditis in cardiac patients and managing office emergencies. Richmond Dental Society. Richmond, VA. January 11, 1995.
261. Management of in-hospital cardiac arrest. Medical College of Virginia Oral and Maxillofacial Grand Rounds. Richmond, VA. February 3, 1995.
262. High technology triage of patients with chest pain. 17th Annual Conference on Emergency Medicine for the primary care physician. Williamsburg, VA. April 21, 1995.
263. Advances in CPR. 17th Annual Conference on Emergency Medicine for the primary care physician. Williamsburg, VA. April 21, 1995.
264. Evaluation of patients with chest pain in the emergency department. Grand Rounds, Portsmouth Naval Hospital. Portsmouth, VA. May 17, 1995.

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265. Technological assessment of chest pain patients in an emergency department environment. St. Agnes Hospital Grand Rounds. Baltimore, MD. May 18, 1995.

266. Trends and treatment in acute myocardial infarction patient care - the National Registry of Myocardial Infarction experience. Pasadena, CA. August 4, 1995.

267. Evaluation of chest pain in the Emergency Department. George Washington University Medical Center Cardiovascular Emergency Symposium at American College of Emergency Physicians Annual Scientific Sessions. Washington, DC. September 10, 1995.

268. What's new in cardiopulmonary resuscitation? Virginia Thoracic Society. Richmond, VA. October 1, 1995.

269. Evaluation of chest pain in the emergency department. Riverside Hospital Medical Grand Rounds. Newport News, VA. October 5, 1995

270. Clinical pathways in the evaluation of chest pain in the emergency department. Second National Congress of Chest Pain Centers. Phoenix, AZ. October 8, 1995.

271. Antiarrhythmic therapy in the ACLS guidelines. Symposium on intravenous amiodarone. American Heart Association Scientific Sessions. Anaheim, CA. November 12, 1995.

272. American Heart Association ACLS Guidelines Update. Italian National Conference on Emergency Medicine. Keynote Speaker. Florence, Italy. December 14, 1995.

273. Cost effective method for triaging patients with chest pain. Richmond Memorial Hospital Grand Rounds. Richmond, VA. December 19, 1995.

274. Critical pathway approach to managing patients with chest pain. Internal Medicine Grand Rounds. State University of New York Medical Center. Syracuse, NY. January 18, 1996.

275. Advanced Cardiac Life Support for Cardiologists. American College of Cardiology Scientific Sessions. Course Director. Orlando, FL. March 24, 1996.

276. Emergency department strategies for managing patients with chest pain. American College of Cardiology Scientific Sessions. Meet the Experts Session. Orlando, FL. March 25, 1996.

277. New ways to triage and treat patients with chest pain. American College of Cardiology Scientific Sessions. Plenary Session Chairman's Introductory Address. Orlando, FL. March 25, 1996.

278. Minimizing hypoxic injuries of cardiac arrest. Panel presentation. Wolf Creek CPR Conference IV. Palm Springs, CA. April 15, 1996.

279. Advances in CPR: Anticipating changes in guidelines. Wolf Creek CPR Conference IV. Palm Springs, CA. April 16, 1996.

280. Emergency department evaluation of chest pain. Aggressive Management of CV Emergencies Course at American College of Cardiology Heart House. Bethesda, MD. May 1, 1996.

281. Management of Cardiac Arrest. Aggressive Management of CV Emergencies Course at American College of Cardiology Heart House. Bethesda, MD. May 3, 1996.

282. Management of hypertensive urgency and emergency. Aggressive Management of CV Emergencies Course at American College of Cardiology Heart House. Bethesda, MD. May 1, 1996.

283. Are chest pain centers cost effective? American Heart Association Plenary Session Address. American Heart Association Scientific Sessions, New Orleans, LA. November, 1996.

284. Cardiac Arrest Survival Act Legislative Initiative. National Heart Attack Alert Program Coordinating Committee Presentation. National Heart, Lung, and Blood Institute, National Institutes of Health. Bethesda, MD. December 10, 1996.

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285. Nuclear imaging in the Emergency Department Setting. Grand Rounds presentation, Orlando Regional Medical Center. Orlando, FL. December 12, 1996.
286. Public use of automated defibrillators. American Heart Association Fairfax Chapter Board of Directors. Fairfax, VA. February 19, 1997.
287. Resuscitation 1997. MCV Anesthesia Grand Rounds. Richmond, VA. February 27, 1997.
288. Current trends in cardiovascular care. Richmond Critical Care Nurse Association Annual Scientific Session Keynote Speaker. Richmond, VA. March 1, 1997.
289. American College of Cardiology Annual Scientific Sessions. Fireside Chat. CPR Update. Anaheim, CA. March 16, 1997.
290. Use of Tc-99m in evaluating ED patients with chestpain. Portsmouth Naval Hospital Emergency Medicine Grand Rounds. Portsmouth, VA. March 26, 1997.
291. Evaluation of the difficult ECG. National Registry Myocardial Infarction Regional Meeting Workshop. Washington, DC. April 4, 1997.
292. Informed consent for resuscitation research. American Heart Association Public Access Defibrillation-2 Meeting. Crystal City, VA. April 18, 1997.
293. Public access defibrillation research initiatives. American Heart Association Public Access Defibrillation-2 Meeting. Crystal City, VA. April 18, 1997.
294. Cardiopulmonary resuscitation. American College of Cardiology Emergency Cardiac Care Bethesda Conference. Bethesda, MD. May 29, 1997
295. Evaluating patients with chest pain in the ED. American College of Cardiology Emergency Cardiac Care Bethesda Conference. Bethesda, MD. May 29, 1997
296. Medicolegal aspects of chestpain evaluation. American College of Cardiology Emergency Cardiac Care Bethesda Conference. Bethesda, MD. May 30, 1997
297. Technological advances in the evaluation of ED patients with chestpain. National Heart Attack Alert Program Science Base Subcommittee. Bethesda, MD. June 2, 1997.
298. CPR advances. Dimensions of Cardiovascular/Critical Care Conference. Richmond, VA. June 6, 1997.
299. Cost effective evaluation of chest pain patients. MCV Squaw Valley Conference. Squaw Valley, CA. September 13, 1997.
300. American Heart Association CPR Guidelines Process. Amiodarone Symposium. American College of Emergency Physicians Annual Scientific Sessions. San Francisco, CA. October 15, 1997.
301. MCV's Chest Pain Program. . American College of Emergency Physicians Annual Scientific Sessions. San Francisco, CA. October 16, 1997.
302. Optimizing early evaluation of patients with chest pain. American Heart Association Annual Scientific Sessions How To Session. Orlando, FL. November 12, 1997.
303. Chest pain diagnostic strategies. Allegheny General Hospital Department of Emergency Medicine Grand Rounds. Pittsburgh, PA. January 9, 1998.

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304. Automated external defibrillation. American Heart Association Richmond Chapter Board of Directors. Richmond, VA. January 29, 1998.
305. Strengthening the Chain of Survival: The Role of IV Amiodarone. Seven national phone teleconferences (3/9/98 - 4/27/98).
306. Emergency Cardiac Care 1998 lecture on AEDs in EMS. Chesterfield, VA. March 7, 1998.
307. National Institutes of Health/National Library of Medicine Information Technologies Symposium. Chest pain evaluation challenges. Rockville, MD. April 15, 1998.
308. Chest pain centers. Lankenau Hospital Conference. Philadelphia, PA. April 25, 1998.
309. Medical Student Pathophysiology Lecture on Cardiac Arrest. Richmond, VA. May 20, 1998.
310. Emergency Cardiac Care Update. Manufacturer's Forum moderator. Orlando, FL. May 30, 1998.
311. Public access defibrillation update. National Association of EMS Physician's Annual Meeting. Lake Tahoe, CA. July 8, 1998.
312. Critical pathways for chest pain management. Clinical Laboratory Manager's Association. Philadelphia, PA. August 21, 1998.
313. Chest pain evaluation units. National Registry of Myocardial Infarction Investigator's Meeting. Boston, MA. September 20, 1998.
314. MI management. George Washington University Symposium at American College of Emergency Physicians Annuals Scientific Sessions. San Diego, CA. October 10, 1998.
315. Partnering for rapid treatment and evaluation of MI. DuPont Symposium at American College of Emergency Physicians Annuals Scientific Sessions. San Diego, CA. October 12, 1998.
316. Critical approaches for triaging patients with chest pain. Dade Behring Symposium at American College of Emergency Physicians Annuals Scientific Sessions. San Diego, CA. October 13, 1998.
317. Use of IV amiodarone for managing refractory VT/VF. Medical College of Virginia Symposium at American College of Emergency Physicians Annuals Scientific Sessions. San Diego, CA. October 13, 1998.
318. Organizing an effective chest pain ED triage and treatment program. Emergency Medicine Grand Rounds. University of Florida. Gainesville, FL. October 30, 1998.
319. Chest pain triage in the ED. American Heart Association Annual Scientific Sessions. Dallas, TX. November 8, 1998.
320. The preferred method for noninvasive evaluation of chest pain. American Heart Association Annual Scientific Sessions. Dallas, TX. November 9, 1998.
321. Thrombolysis 98 - Improving MI Care. American Heart Association Annual Scientific Sessions. Dallas, TX. November 8, 1998.
322. Chest pain evaluation. Grand Rounds. Johns Hopkins Medical Center, Department of Emergency Medicine. Baltimore, MD. January 20, 1999.
323. National Association of EMS Physicians Consensus Conference. Chairman of Conference. Dallas, Texas. February 27, 1999.

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324. Use of technitium-99m sestamibi for evaluating patients with chest pain. Grand Rounds, Columbia Presbyterian Medical Center. New York City. March 2, 1999.
325. Telemedicine for Emergency Cardiac Care. American College of Cardiology Annual Scientific Sessions. New Orleans, LA. March 8, 1999.
326. Public Access Defibrillation and Resuscitation. American College of Cardiology Annual Scientific Sessions. New Orleans, LA. March 9, 1999.
327. Effectiveness of chest pain centers. Meet the Experts Session. American College of Cardiology Annual Scientific Sessions. New Orleans, LA. March 10, 1999.
328. Advances in Emergency Cardiac Care. MCV Taking it to the Streets Conference. Chesterfield, VA. March 13, 1999.
329. Medical College of Virginia Department of Anesthesiology Grand Rounds. Richmond, VA. March 18, 1999.
330. Use of IV amiodarone in EMS. Department of Emergency Medicine Grand Rounds. Orlando Regional Medical Center. Orlando, FL. April 1, 1999.
331. IV amiodarone. Department of Emergency Medicine Grand Rounds. Albert Einstein Hospital. Bronx, NY. May 25, 1999.
332. Strategies for evaluating and treating patients with chest pain - Prehospital. Mt. Sinai Medical Center. New York, NY. May 26, 1999.
333. Strategies for evaluating and treating patients with chest pain - Emergency Department. Mt. Sinai Medical Center. New York, NY. May 26, 1999.
334. New technologies for evaluating patients with acute MI. National Registry of Myocardial Infarction-3 Investigator's National Meeting. Chicago, IL. June 6, 1999.
335. Prehospital use of IV amiodarone. University of North Carolina. Chapel Hill, NC. June 22, 1999.
336. MCV's Cardiac Evaluation System. Internal Medicine Resident Conference. Richmond, VA. July 19, 1999.
337. Emergency Cardiac Care Bethesda Conference (Co-Chair). American College of Cardiology. Bethesda, MD. September 13-14, 1999.
338. Public access defibrillation. Presentation at American Heart Association Evidence Evaluation Conference. Dallas, Tx. September 26-28, 1999.
339. Active compression decompression CPR. Presentation at American Heart Association Evidence Evaluation Conference. Dallas, Tx. September 26-28, 1999.
340. Prehospital fibrinolysis. Presentation at American Heart Association Evidence Evaluation Conference. Dallas, Tx. September 26-28, 1999.
341. The science of capnography. American College of Emergency Physicians Annual Scientific Sessions Satellite Symposium. Las Vegas, NV. October 10, 1999.
342. Decision making process for developing EMS guidelines at the local level. American College of Emergency Physicians Annual Scientific Sessions Satellite Symposium. Las Vegas, NV. October 11, 1999.
343. Advances in resuscitation. American College of Chest Physicians Annual Meeting. Chicago, IL. November 4, 1999.

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344. CPR update. University of Virginia Emergency Medicine Symposium. Charlottesville, VA. November 5, 1999.
345. Evidence based approach to Guideline development. American Heart Association Annual Scientific Sessions Satellite Symposium. Atlanta, GA. November 8, 1999.
346. Update on ACLS Guidelines. Charlottesville, VA. November 15, 1999.
347. Prehospital fibrinolysis. American Heart Association National Consensus Conference. Dallas, TX. February 6, 2000.
348. Transforming good science into good patient care: The role of practice guidelines. Orlando Regional Medical Center Critical Care Medicine Symposium. Orlando, FL. February 24, 2000.
349. ACLS Guidelines 2000. Orlando Regional Medical Center Critical Care Medicine Symposium. Orlando, FL. February 24, 2000.
350. Management of the patient with chest pain. American College of Cardiology Annual Scientific Sessions. Anaheim, CA. March 14, 2000.
351. Bethesda Conference Report. American College of Cardiology Annual Scientific Sessions. Anaheim, CA. March 14, 2000.
352. Critical pathway approach to the patient with chest pain. Cardiovascular Emergencies 2000 Course. Heart House Learning Center, American College of Cardiology. Bethesda, MD. May 4-6, 2000.
353. ACLS for experienced providers: An introduction. Cardiovascular Emergencies 2000 Course. Heart House Learning Center, American College of Cardiology. Bethesda, MD. May 4-6, 2000.
354. Emergency cardiac care on the streets. Cardiovascular Emergencies 2000 Course. Heart House Learning Center, American College of Cardiology. Bethesda, MD. May 4-6, 2000.
355. Management of hypertensive urgency and emergency. Cardiovascular Emergencies 2000 Course. Heart House Learning Center, American College of Cardiology. Bethesda, MD. May 4-6, 2000.
356. Medicolegal issues in emergency cardiac care. Cardiovascular Emergencies 2000 Course. Heart House Learning Center, American College of Cardiology. Bethesda, MD. May 4-6, 2000.
357. Advances in Resuscitation 2000. New York State Chapter of American College of Emergency Physicians Scientific Sessions. Lake George, NY. July 11, 2000.
358. Resuscitation Update. St. Raphael's Hospital Department of Emergency Medicine. New Haven, CT. July 14, 2000.
359. Public Access Defibrillation in the United States. Brazilia, Brazil. August 1, 2000.
360. Emergency Medical Services in the United States. Salvador, Brazil. August 3, 2000.
361. New ACLS Guidelines. Greensville Memorial Hospital. Emporia, VA. September 7, 2000.
362. Managing Acute Cardiac Emergencies. Sponsored by University of Massachusetts Department of Emergency Medicine. Richmond, VA. September 8, 2000.
363. Advances in ACLS. MCV Emergency Medicine Grand Rounds. Richmond, VA. September 6, 2000.
364. Advances in ACLS: The new recommendations. State of the Art Update on Emergency and Acute Care. Vanderbilt University Medical Center. Nashville, TN. September 15, 2000.

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365. Public Access Defibrillation. Symposium Honoring the 40th Anniversary of CPR. Johns Hopkins University. Baltimore, MD. September 18, 2000.
366. Public Access Defibrillation Workshop. Emergency Cardiac Care Update. San Diego, CA. September 21, 2000.
367. Prehospital and hospital management of cardiac arrest. Sharp Memorial Hospital Cardiology Grand Rounds. San Diego, CA. September 22, 2000.
368. Public Access Defibrillation Plenary Presentation. Emergency Cardiac Care Update. San Diego, CA. September 24, 2000.
369. American College of Cardiology Task Force on Management of Acute Coronary Syndromes and Chest Discomfort Evaluation in the Hospital Plenary Report. Society of Chest Pain Providers Conference on the Chest Pain Center. Baltimore, MD. October 6, 2000.
370. Chest pain management using cardiac nuclear imaging. Los Angeles, CA. October 12, 2000.
371. Prehospital approach to chest pain management. National Registry of Myocardial Infarction Investigators Meeting. Salt Lake City, UT. October 13, 2000
372. High technology approach to chest pain evaluation. National Registry of Myocardial Infarction Investigators Meeting. Salt Lake City, UT. October 14, 2000.
373. Acute Coronary Syndromes: Management Controversies and Literature Update. American College of Emergency Physicians Scientific Assembly. Philadelphia, PA. September 23, 2000.
374. Update in the American Heart Association Guidelines for ACLS. American College of Emergency Physicians Scientific Assembly. Philadelphia, PA. September 25, 2000.
375. Fibrinolytic Therapy in Acute Myocardial Infarction: New Therapies, New Options for 2000. American College of Emergency Physicians Scientific Assembly. Philadelphia, PA. September 26, 2000.
376. New Cardiac Drugs: How, What, and When to Use Them in the Emergency Department. American College of Emergency Physicians Scientific Assembly. Philadelphia, PA. September 26, 2000.
377. New ACLS Guidelines for EMS Providers. Virginia Emergency Medical Services Symposium. Norfolk, VA. November 9, 2000.
378. Public Access Defibrillation. American Heart Association Annual Scientific Sessions. New Orleans, LA. November 12, 2000.
379. Waiver of Informed Consent for Emergency Care Research. American Heart Association Annual Scientific Sessions Satellite Symposium. New Orleans, LA. November 13, 2000.
380. New ACLS Guidelines for EMS Providers. Hanover EMS. Hanover, VA. November 20, 2000.
381. New ACLS Guidelines for EMS Providers. Hanover EMS. Hanover, VA. November 27, 2000.
382. New ACLS Guidelines for EMS Providers. Hanover EMS. Hanover, VA. December 4, 2000.
383. Treatment of cardiac arrhythmias. Robert Wood Johnson Medical Center Symposium. Newark, NJ. December 9, 2000.
384. Use of IV amiodarone in the critical care unit. Walter Reed Medical Center. Washington, DC. January 16, 2001.
385. Police AED forum. Moderator and keynote speaker. National Center for Early Defibrillation Symposium. Ft. Myers, FL. January 17, 2001.

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386. Public Access Defibrillation Update. Emergency Medicine Grand Rounds, Johns Hopkins Medical Center. Baltimore, MD. February 2, 2001.
387. Prehospital and Emergency Department management of chest pain. Tampa, FL. February 8, 2001.
388. New strategies for management of out-of-hospital cardiac arrest. Singapore University Medical Center, Singapore. February 17, 2001.
389. Prehospital cardiac arrest management. National Symposium, Kuala Lumpur, Malaysia. February 21, 2001.
390. Chest pain management in the ED. University of Virginia Emergency Medicine Review Course. Orlando, FL. March 2, 2001.
391. High tech approach to chest pain management. Cardiology Grand Rounds, Hershey Medical Center, Hershey, PA. March 8, 2001.
392. Cost effective management of chest pain. Cost Effectiveness Symposium. Hershey Medical Center, Hershey, PA. March 9, 2001.
393. Management of CHF in the ED. Emergency Medicine Resident Conference. Medical College of Virginia, Richmond, VA. March 13, 2001.
394. Integrating the new upstream treatments for acute coronary syndromes. American College of Cardiology Satellite Symposium. Orlando, FL. March 17, 2001.
395. Keynote speaker, Summary Session (Myocardial Ischemia and Infarction). American College of Cardiology Sessions. Orlando, FL. March 21, 2001.
396. ACLS 2001. John Randolph Medical Center Grand Rounds. Hopewell, VA. April 24, 2001.
397. ARRIVE Registry. Turtle Creek III Conference, Dallas, TX. April 30, 2001.
398. Automated External Defibrillators. Food and Drug Administration, Rockville, MD. May 14, 2001.
399. New Ventricular Fibrillation ACLS Protocols. Prehospital Grand Rounds, Richmond Ambulance Authority, Richmond, VA. June 19, 2001.
400. Silent Myocardial Infarction. National Heart Attack Alert Program Annual Meeting, Alexandria, VA. June 25, 2001.
401. Acute Myocardial Infarction Update. American College of Emergency Physicians Virginia Chapter Symposium, Williamsburg, VA. July 27, 2001.
402. ACLS Advances. Department of Anesthesiology Grand Rounds, Medical College of Virginia, Richmond, VA. August 23, 2001.
403. ACLS for Cardiologists. Bridgeport Hospital Cardiology Grand Rounds. Bridgeport, CT. September 7, 2001.
404. ACEP Bioterrorism Panel. Special Plenary Session Speaker. ACEP National Scientific Sessions. Chicago, IL. October 15, 2001.
405. Creating an AED Program. American Heart Association Annual Scientific Sessions. Anaheim, CA. November 4, 2001.
406. ACLS 2001. Winchester Medical Center Grand Rounds. Winchester, VA. November 28, 2001.

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407. Chest Pain Evaluation 2002. Columbia University Medical Center. Cardiology Grand Rounds. January 22, 2002.
408. Should mouth-to-mouth ventilation be deleted from prearrival CPR instructions? University of Texas Southwestern Medical Center Eagles Conference. Dallas, TX. February 9, 2002.
409. World Trade Center Terrorist Attack - A View from Ground Zero. ACEP Virginia Annual Scientific Sessions. Homestead, VA. February 12, 2002.
410. Should buffers be used in trauma resuscitation? MCV Multidisciplinary Trauma Conference. Richmond, VA. February 19, 2002.
411. Chest Pain Evaluation. Northwestern University Cardiology Grand Rounds. Chicago, IL. March 8, 2002.
412. World Trade Center Terrorist Attack. The 56th J. Shelton Horsley Memorial Lecture of the Richmond Academy of Medicine. Richmond, VA. March 12, 2002.
413. Improving Ventilation: Alternate ACLS Ventilation Devices. American College of Cardiology Scientific Sessions. Atlanta, GA. March 17, 2002.
414. The Utstein Guidelines. National Highway Traffic Safety Conference. Crystal City, VA. March 20, 2002.
415. Early recognition and treatment of acute coronary syndromes. National CV Health Conference. Sponsored by National Heart, Lung, and Blood Institute. Washington, DC. April 12, 2002.
416. STRIVE Acute Coronary Syndromes Critical Pathways Workshop. Atlanta, GA. April 15, 2002.
417. STRIVE Acute Coronary Syndromes Critical Pathways Workshop. Miami, FL. April 16, 2002.
418. STRIVE Acute Coronary Syndromes Critical Pathways Workshop. Baltimore, MD. April 25, 2002.
419. Use of adjuncts during resuscitation. NASPE Satellite Symposium. San Diego, CA. May 8, 2002.
420. Chest pain evaluation in the ED. Emergency Medicine Grand Rounds. Christiana Hospital. Wilmington, DE. July 10, 2002.
421. Update on ACLS. Virginia Beach, VA. July 24, 2002.
422. Sudden Death Treatment Strategies. Emergency Cardiac Care Update Symposium. Washington, DC. September 7, 2002.
423. PRIME ECG detects AMI missed by 12-lead ECGs. Emergency Medicine Grand Rounds, Virginia Commonwealth University Health System. September 18, 2002.
424. Use of 80-lead body mapping to evaluate chest pain patients in the ED. Emergency Medicine Grand Rounds. Wayne State University. Detroit, MI. September 26, 2002.
425. How to detect an acute coronary syndrome. University of Cincinnati Satellite Symposium at American College of Emergency Physicians Annual Scientific Sessions. Seattle, WA. October 6, 2002.
426. Advances in cardiac arrest management. University of Massachusetts Emergency Medicine Symposium. Williamsburg, VA. October 19, 2002.
427. ACLS 2002. Virginia EMS Symposium. Norfolk, VA. November 7, 2002.
428. Public Access Defibrillation and Community Intervention. American Heart Association Annual Scientific Sessions Plenary Presentation. Chicago, IL. November 19, 2002.

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429. World Trade Center Disaster Management. Emergency Medicine Student Interest Group lecture. Virginia Commonwealth University Health System. January 15, 2003.
430. Deleting mouth-to-mouth ventilation at the dispatch office. Eagles Conference. University of Texas Health Sciences System. Dallas, TX. February 21, 2003.
431. Ruling out myocardial infarction on the scene with EMS telemedicine. Eagles Conference. University of Texas Health Sciences System. Dallas, TX. February 22, 2003.
432. Medical simulation for bioterrorism training. METI Conference. Tampa, FL. February 27, 2003.
433. Sudden Cardiac Death. Krannert Cardiovascular Research Institute. Indianapolis, IN. April 14, 2003.
434. Advances in prehospital cardiac care. National Association of Public Utility Model Directors Meeting. Tampa, FL. April 25, 2003.
435. Comprehensive emergency cardiac care. Bridging the Gap meeting. Emory University. Atlanta, GA. April 25, 2003.
436. Richmond's high tech approach to emergency cardiac care. Duke/UNC Emergency Cardiac Care Conference. Chapel Hill, NC. May 31, 2003.
437. Use of 80-lead body map ECG to detect acute ST-elevation myocardial infarction. World Congress of Cardiology. Washington, DC. July 13, 2003.
438. Advances in prehospital resuscitation. Indiana University. Dinner presentation. Indianapolis, IN. August 4, 2003.
439. Acute chest pain evaluation. American College of Chest Physicians. Orlando, FL. October 28, 2003.
440. ACLS update 2003. Virginia State EMS Symposium. Norfolk, VA. November 6, 2003.
441. PAD Clinical Trial results presentation. Late-Breaking Clinical Trials. American Heart Association. Orlando, FL. November 11, 2003.
442. Cutting Edge Advances in CPR. Indianapolis ACEP. Indianapolis, IN. February 3, 2004.
443. Richmond's High Tech EMS System. Charlotte EMS Council presentation. Charlotte, NC. February 13, 2004.
444. Ventilation Hot Topics in Resuscitation. UT Southwestern Eagles Conference. Dallas, TX. February 20, 2004.
445. Use of AEDs to prevent sudden death. American College of Cardiology Annual Scientific Session Symposium on Frontiers in CV Research. New Orleans, LA. March 8, 2004.
446. Evaluation and Triage of Chest Pain Patients. American College of Cardiology Annual Scientific Session Panel. New Orleans, LA. March 8, 2004.
447. Advances in ACLS. American Association of Critical Care Nurses. Richmond, VA. March 16, 2004.
448. Current management of acute coronary syndromes. 15th Annual Emergency Medicine for the Critically Ill Symposium. Orlando, FL. March 26, 2004.
449. Management of STEMI patients. St. Joseph Heart Institute Cardiology Grand Rounds. Tampa, FL. April 8, 2004.
450. Cutting edge issues in resuscitation. University of Cincinnati Department of Emergency Medicine Grand Rounds. Cincinnati, OH. April 27, 2004.

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451. Public Access Defibrillation Trial - Implications for 911 Dispatchers. Navigator Conference. Las Vegas, NV. May 6, 2004.
452. Acute care of patients with ACS/NSTEMI. NY Palace Hotel. New York, NY. May 25, 2004.
453. A view from Ground Zero. Virginia Academy of Sciences. Richmond, VA. May 26, 2004.
454. Hot topics in CPR. 1st Annual Tresch Memorial Lecture, Medical College of Wisconsin. Milwaukee, WI. June 4, 2004.
455. Regionalization of emergency medical care. Duke University Medical Center Symposium. Raleigh/Durham, NC. June 19, 2004.
456. Emergency preparedness for cardiovascular specialists. American College of Cardiology/Communicable Diseases Centers joint meeting. Heart House. Bethesda, MD. August 13, 2004.
457. New STEMI Guidelines. Bronson Heart Hospital Grand Rounds, Kalamazoo, MI. September 24, 2004.
458. Research in Cardiopulmonary Resuscitation. National Registry of CPR Scientific Conference. New Orleans, LA. September 30, 2004.
459. CPR vs. defibrillation first. Emergency Cardiac Care Update Conference. New Orleans, LA. October 1, 2004.
460. Fibrinolysis in Cardiac Arrest. Genentech Investigators National Meeting. Los Angeles, CA. October 8, 2004.
461. Basic Disaster Life Support - Disaster Paradigm. Henrico County Training Center. Richmond, VA. October 21, 2004.
462. Basic Disaster Life Support - Natural Disasters. Henrico County Training Center. Richmond, VA. October 21, 2004.
463. Optimal chest pain evaluation strategy. NIH/NHLBI National Heart Attack Alert Program Annual Meeting. Rockville, MD. October 25, 2004.
464. Resuscitation Outcomes Consortium Panel. American Heart Association Resuscitation Symposium. New Orleans, LA. November 5, 2004.
465. Nationwide Public Access Defibrillation. American Heart Association Annual Scientific Sessions. New Orleans, LA. November 6, 2004.
466. How to implement a public access defibrillation program. American Heart Association Annual Scientific Sessions. New Orleans, LA. November 8, 2004.
467. Advances in Cardiopulmonary Resuscitation 2004. Virginia EMS Symposium. Norfolk, VA. November 12, 2004.
468. Acute Coronary Syndromes. CRUSADE Conference. Atlanta, GA. November 15, 2004.
469. Basic Disaster Life Support - Disaster Paradigm. CIA Training Facility, Camp Peary, VA. October 21, 2004.
470. Basic Disaster Life Support - Natural Disasters. CIA Training Facility, Camp Peary, VA. October 21, 2004.
471. Use of AEDs in North America. American College of Cardiology 37th Annual Cardiovascular Symposium. New York NY. December 11, 2004.

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472. State-of-the-art Emergency Cardiac Care 2005. National Association of EMS Physicians Annual Meeting. Naples, FL. January 15, 2005.

473. New STEMI Guidelines: What they mean to emergency physicians. Indiana ACEP Annual Meeting. Indianapolis, IN. March 1, 2005.

TELEVISION APPEARANCES

1. "Prehospital Cardiac Care", David Susskind Show (90 minutes), WNEW (New York), nationally syndicated. 1976.
2. "Isopropyl Alcohol Consumption", Oct 16, 1979. Nebraska Educational Television Network (Channel 26).
3. "Hypothermia", Something Extra, Oct 26, 1979. Nebraska Educational Television Network (Channel 26).
4. "Emergency air transport system", Channel 6 News, Dec 12, 1979. Omaha, Nebraska.
5. "Hypothermia", Channel 7 News, Dec 14, 1979. Omaha, Nebraska.
6. "Emergency Air Transport", Channel 7 News, Dec 20, 1979. Omaha, Nebraska.
7. "Trauma Center Categorization", Channel 6 News, June 3, 1980. Omaha, Nebraska.
8. "Heat Stroke", Channel 6 News, June 26, 1980. Omaha, Nebraska.
9. "Heat Stroke", Channel 7 News, July 10, 1980. Omaha, Nebraska.
10. "Hypothermia and Cold Water Drowning", Channel 7 News, Dec 17, 1980. Omaha, Nebraska.
11. "Rescue Delivery Systems", Channel 6 News, April 15, 1981. Omaha, Nebraska.
12. "Treatment of multiple trauma victims", Channel 12 News, May 6, 1981. Omaha, Nebraska.
13. "University of Nebraska Rescue Helicopter Service", Channel 7 News, July 8, 1981. Omaha, Nebraska.
14. "University of Nebraska Rescue Helicopter Service", Channel 6 News, July 8, 1981. Omaha, Nebraska.
15. "University of Nebraska Rescue Helicopter Service", Channel 3 News, July 9, 1981. Omaha, Nebraska.
16. "Hyperthermia", Channel 3 News, July 13, 1981. Omaha, Nebraska.
17. "Cardiopulmonary Resuscitation", Channel 12 News, July 16, 1981. Omaha, Nebraska.
18. "SKYMED Helicopter Service", Channel 3 News. Oct 1981. Omaha, Nebraska.
19. "SKYMED Helicopter Service", Channel 6 News. Oct 1981. Omaha, Nebraska.
20. "SKYMED Helicopter Service", Channel 12 News. Oct 1981. Omaha, Nebraska.
21. "Trauma Center/Air Ambulance", Nebraska Educational Television Network 30 minute Special ("What's NU"). Oct, 1982.
22. "Heat Stroke", Channel 12 News, August, 1985. Richmond, Virginia.
23. "Hyperthermia", Channel 12 News, November, 1985. Richmond, Virginia.
24. "Hypothermia", Channel 12 News, Feb, 1986. Richmond, Virginia.
25. "The Many Faces of EMS --- EMT-Defibrillation", Hospital Satellite Network. Feb 4-6, 1986. San Diego, California.

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26. "Emergency Medical Services", Channel 12 Health Matters Series (30 minutes), March, 1986. Richmond, Virginia.
27. "The new CPR Standards", Channel 12 News, June 12, 1986. Richmond, Virginia.
28. "Heat related injury". Channel 8 News, June 19, 1986.
29. "Cardiac Arrest". Channel 6 News, January 1988. Richmond, Virginia.
30. "How To Beat Heart Attacks". Channel 12 Health Matters Series, January 29, 1988. Richmond, Virginia.
31. "Richmond EMS system". BLAB TV. March 90.
32. Richmond Ambulance System. BLAB TV. Richmond, VA. June 6, 1990.
33. "All ALS EMS system". Channels 6, 8, & 12, Richmond. March 90.
34. "First responder defibrillation". Channels 8 & 12, Richmond. November 90.
35. Lifetime Medical Television. New England Journal of Medicine Updates. "Advances in Cardiopulmonary Resuscitation". Nov 1992.
36. "Mass CPR Training". Channel 12, Richmond. May 9, 1994.
37. "High technology triage of patients with chest pain in the emergency department". CBS Good Morning America (national broadcast). September 21, 1995.
38. "Paramedic 12-lead implementation in Richmond". 3 local Richmond TV stations. June 96.
39. "Cardiac emergencies". America Health Network. December 11, 1996.
40. "Early defibrillation in EMS". NBC Dateline. June 1997.
41. "Heimlich maneuver in near drowning". Inside Edition. July 1997.
42. "Chain of survival in EMS: The role of automated external defibrillators". ABC 20/20. October 1997.
43. American Heart Association "Act in Time" Program - aired in multiple markets with over 5 million viewers including WCBS in New York City, WTTG (FOX) in Washington, DC, WPLG (ABC) in Miami, FL, and KXTV (ABC) in Sacramento, CA.
44. School Shooting Press Conference, Richmond, VA. June 15, 1998.
45. Prehospital use of IV amiodarone. Live uplink to 20 stations nationwide from the American College of Emergency Physicians meeting in Las Vegas, NV. October 10, 1999.
46. National Press Conference on Emergency Cardiac Care. 30 media organizations present, including USA Today, CNN, Time Magazine, ABC News. American College of Cardiology Annual Scientific Sessions. Anaheim, CA. March 14, 2000.
47. New ACLS Guidelines for EMS Providers. Emergency Medical Services Satellite TV Network (EMSAT). November 15, 2000.
48. Amiodarone for cardiac arrest. WRIC (ABC) Richmond, VA. May 23, 2001.
49. Improving prehospital care systems. Discovery Channel (national). July, 2001.

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50. TIMI-TV cybersession. Implementing the new Acute Coronary Syndrome Guidelines. August 21, 2001.
51. World Trade Center Terrorist Attack - A View from Ground Zero. Press Conference. ABC, NBC, CBS Richmond, VA affiliates. September 14, 2001
52. AED use in the United States. American College of Cardiology ACCEL. March 8, 2004.
53. Nationwide Public Access Defibrillation. American College of Cardiology ACCEL. November 8, 2004.

RADIO INTERVIEWS AND INTERNET BROADCASTS

1. "Emergency Medical Care at the University of Nebraska Medical Center". Produced by the University of Nebraska Continuing Education Department (3 tapes aired on 20 Nebraska and Western Ohio stations), June 1979. Omaha, Nebraska.
2. KLING Talk Show, "Emergency Services in the Metro Area", Aug 27, 1979. Council Bluffs, Iowa.
3. KFAB Talk Show, "Trauma Center and Air Transport", Oct 23, 1979. Omaha, Nebraska.
4. KLING Talk Show, "Trauma Center", Nov 1, 1979. Council Bluffs, Iowa.
5. "Winter Induced Diseases". Produced by the University of Nebraska Continuing Education Department (aired on 20 Nebraska and Western Ohio stations), Dec 1979. Omaha, Nebraska.
6. "Summer Induced Diseases". Produced by the University of Nebraska Continuing Education Department (aired on 20 Nebraska and Western Ohio stations), May 1979. Omaha, Nebraska.
7. "Cold related injury". 3 local Richmond radio stations. Jan 87.
8. "Heat related injury". 3 local Richmond radio stations. June 87.
9. "Paramedic 12-lead implementation in Richmond". 2 local Richmond radio stations. June 96.
10. American Heart Association National Heart Attack Warning Project. 80 nationwide radio stations. February 1998.
11. Public access defibrillation. Dallas Radio. February 22, 1998.
12. Amiodarone in the new ACLS Guidelines from the American College of Emergency Physicians Scientific Sessions in Philadelphia, PA. 40 nationwide radio stations. October 25, 2000.
13. Advances in the Pharmacologic Management of Tachyarrhythmias. Live Internet Broadcast. November 16, 17, 20, 27, 30, 2000.
14. "EMS House Calls for Chest Pain". Radio, Internet, and News coverage. April 12-14, 2002. ABC News.com; Palm Beach Post, West Palm Beach; WTOP AM, Washington, DC; WPXI TV, Pittsburgh; Excite.com, CA; Minneapolis Star Tribune, MN; Newsday, NY; Greenville Daily Reflector, NC; Anchorage Daily News, AK; WRIC-TV, Richmond; Daily Sentinel, CO; Inside Central Florida; Rock Hill Herald, SC; WCBS TV, NY; WOWT TV, NE; KVOA TV, AZ; Los Angeles Times; Longview News Journal, Las Vegas Sun; Huron Daily Tribune, MI; KOTV TV, OK; Washington Post; WSOC TV, NC; WFTV TV, FL; Milwaukee Journal Sentinel; Greenwich Times, CT; Firehouse, NY; The Sacramento Bee, CA; CBS News, NY; The Bakersfield Californian; Access Arizona; Beaufort Gazette, SC; The Island Packet, SC; Atlanta Journal-Constitution; Beaumont Enterprise, TX; KGTV TV, CA; WVUE-TV, New Orleans; Active Dayton, OH; Fargo Forum, ND; Houston Chronicle; The Morning Call, PA; Raleigh News & Observer, NC; Lexington Herald Leader, KY; Orlando Sentinel, FL; Seattle Times, WA; WMAR TV, MD; Arizona Republic; The Detroit News, MI; Miami Herald; The Orange County Register, CA; The Daily Oklahoman, OK; The Bedford Times-Mail, IN; Centre Daily Times, PA; Goshen News, IN; Rochester Post Bulletin, MN; The Tallahassee Democrat, FL; Buffalo News, NY; Bloomington Herald Times, IN; The Canton Repository, OH; The State, Columbia, SC; KCBS TV, Los Angeles; Record Searchlight, CA; Fall River Herald News, MA; Messenger-Inquirer, KY; Bryan College Station Eagle, TX; The Gleaner; KY; KWTW TV, OK, The Times of India, New Delhi, India; Black Enterprise Magazine, WINS

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AM, NY; Myrtle Beach Sun News, SC; Columbus Dispatch, OH; Shanghai Daily, China; CNN Interactive; Baltimore Sun, D; Duluth News-Tribune, MN; Yakima Herald-Republic, WA.

15. Public Access Defibrillation Clinical Trial Results presented at American Heart Association Scientific Sessions 2003. National Press Conference. Generated >100 print and radio pieces, including Chicago Tribune, Chicago Sun Times, Baltimore Sun, Newark Star Ledger, Washington Times, New York Times, Los Angeles Daily News, Philadelphia Inquirer, Miami Herald, Minneapolis Star Tribune.