

CURRICULUM VITAE

Kenneth A. Williams, M.D., F.A.C.E.P.

Business

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EDUCATION

Undergraduate: Hampshire College, Amherst, MA
BA, 1977

Postgraduate University of Massachusetts, Amherst, MA
Postgraduate Science Studies, 1980

University of Massachusetts, Amherst
Medical Informatics / Artificial Intelligence / Knowledge Engineering
1997

Medical School: University of Massachusetts Medical School, Worcester, MA
MD, 1984

POSTGRADUATE MEDICAL TRAINING

Residency: University of Pittsburgh
Residency in Emergency Medicine, 1984-1987

University of Pittsburgh
Chief Resident, 1986-1987

POSTGRADUATE HONORS AND AWARDS

1981 Exercise Physiology Fellowship, University of Massachusetts Medical School
1986-1987 Chief Residency, University of Pittsburgh Affiliated Residency in Emergency
Medicine
1986 Resident Research Award, Emergency Medicine Foundation

Current as of January, 2008

1994	Medical Informatics Course Fellowship, National Library of Medicine
2001	Scientific Forum Judge, Critical Care Transport Medicine Conference
2002	Judge, Flight Team Simulator Competition, AMTC
2002	Scientific Forum Judge, Critical Care Transport Medicine Conference
2002	President's Award, Association of Air Medical Services
2003	Judge, Flight Team Simulator Competition, AMTC
2003	Distinguished Physician Award, Air Medical Physician Association
2004	Judge, Flight Team Simulator Competition, AMTC

PROFESSIONAL LICENSES AND BOARD CERTIFICATION

License(s):	1985-1988	Licensed physician, Pennsylvania
	1987-present	Licensed physician, Massachusetts
	1997-present	Licensed physician, Rhode Island
Certifications:	1985	Diplomate, National Board of Medical Examiners
	1990-present	Fellow, American College of Emergency Physicians
	1990-present	Diplomate, American Board of Emergency Medicine recertified in 2000
Instructor:	1986-present	Advanced Cardiac Life Support [ACLS] Instructor
	1988-1998,	
	2004-present	Advanced Trauma Life Support [ATLS] Instructor
	1984-1998,	
	2003-present	Advanced Trauma Life Support [ATLS] Provider
	1997-2000	Advanced Pediatric Life Support [APLS] Provider

ACADEMIC APPOINTMENTS**The Warren Alpert Medical School of Brown University**

2000-2004	Clinical Associate Professor of Surgery
2004-2006	Clinical Associate Professor of Emergency Medicine
2006-present	Associate Professor of Emergency Medicine (Clinical)

The University of Massachusetts Medical Center & School

1987-1988	Associate Medical Director, Life Flight
1987-1990	Clinical Instructor in Medicine, Division of Emergency Medicine
1988-1992	Medical Director, Life Flight
1990-1992	Assistant Professor, Division of Emergency Medicine, Department of Medicine
1991-1997	Director, Emergency Medicine Informatics
1992-1994	Executive Medical Director, Life Flight
1992-1997	Assistant Professor, Department of Emergency Medicine
1994-1997	Chief, Division of Emergency Medical Services
1997-present	Associate Professor of Clinical Emergency Medicine

HOSPITAL APPOINTMENTS

- 1987-2000 Attending Physician, The University of Massachusetts Medical Center, Worcester, Massachusetts
- 1987-1989 Prehospital Medical Director, Emergency Department, Burbank Hospital, Fitchburg, Massachusetts
- 1987-1989 Staff Physician, Emergency Department, Burbank Hospital, Fitchburg, Massachusetts
- 1989-1994 Staff Physician, Emergency Department, Sturdy Memorial Hospital, Attleboro, Massachusetts
- 1989-1995 Attending Physician, Emergency Department, The Medical Center of Central Massachusetts, Worcester, Massachusetts
- 1991-1994 Staff Physician, Emergency Department, Framingham Union Hospital, Framingham, Massachusetts
- 1993-1996 Staff Physician, Emergency Department, Mercy Hospital, Springfield, Massachusetts
- 1994-1996 Medical Director, Emergency Department, Mercy Hospital, Springfield Massachusetts
- 1996-1998 Staff Physician, Emergency Department, Marlborough Hospital, Marlborough, Massachusetts
- 1996-1997 Staff Physician, Emergency Department, Lawrence General Hospital, Lawrence, Massachusetts
- 1997-2000 Staff Physician, Emergency Department, St. Anne's Hospital, Fall River, Massachusetts
- 1997-present Attending Physician, Emergency Department, RI Hospital, Providence, RI
- 1998-present Attending Physician, Emergency Department, Miriam Hospital, Providence, RI
- 2003-present Attending Physician, The Nantucket Cottage Hospital

OTHER APPOINTMENTS

International Organizations

Air Medical Physician Association [AMPA]

A professional association focused on quality patient care and education in the critical care transport environment. Membership approximately 400 physicians, 30% international members. AMPA sponsors several annual educational conferences attracting an international audience.

- 1994-Present Course Director, Educational Meetings. *CME through Brown University since 1998.*
- 1994-1998 Chair, Education Committee
- 1997-2004 Board of Directors
- 1998-Present Co-Chair, Education Committee
- 1998-2000 President-Elect

Current as of January, 2008

- 1999-Present Liaison, National Association of State EMS Directors
- 1999-2002 Liaison, Association of Air Medical Services Safety Committee
- 2000-Present Liaison, National Association of EMS Physicians
- 2000-2002 President
- 2003 Consulted by Dept. of State and CDC to participate in development of guidance for transport of SARS patients.
- 2004-Present Associate Editor, Medical Director's Handbook, published in 2006 as a bound textbook

Association of Air Medical Services [AAMS]

A US-based trade association representing all aspects of air medical care. Members include aircraft manufacturers, vendors, medical transport programs, and other interested parties. Significant international participation by equipment manufacturers and providers of care.

- 1986-1995 Safety Committee
- 1989-1995 Quality Assurance Committee
- 1998-Present Course Director, Air Medical Transport Conference, the major annual conference for air medical professionals.
- 1999-Present Safety Committee

Alliance for Critical Care Transport [ACCT]

An international alliance of air medical and critical ground transport organizations and associations intended to foster communication among members and improve patient care.

- 1999-Present Founding Member, AMPA Co-Representative

National Organizations

National Association of EMS Physicians [NAEMSP]

A primarily US association of physicians with special interest in Emergency Medical Services

- 1988-1995 Airmedical Committee
- 1998-Present Airmedical Committee
- 2000-Present Liaison, Air Medical Physician Association

American College of Emergency Physicians [ACEP]

The leading association of emergency physicians in the US.

- 1989-1993 EMT Textbook Editorial Board
- 1997-1999 Air Medical Transport Section, Newsletter Editor, Secretary/Treasurer

National Association of State EMS Officials [NASEMSO]

Current as of January, 2008

A closed association with membership limited to state EMS directors and affiliated officials who supervise and regulate emergency medical services in the US, approve training curricula and license EMTs and ambulances.

1998-Present Physician representative, Rhode Island
1999-Present Liaison, Air Medical Physician Association

National Council of State EMS Medical Directors

A Council of NASEMSO comprised of physician state medical directors with a mission to promote quality and advancement in EMS systems.

2006-Present Representative, Rhode Island

Society for Academic Emergency Medicine

The leading academic emergency medicine society in the United States

2007-Present Reviewer, Academic Emergency Medicine

Regional Organizations

The New England Emergency Medical Services Council

Members represent New England state EMS agencies.

1998-Present Rhode Island Physician Representative
1998-Present Member, Disaster Committee
2001-Present Member, Board of Directors

The North East AirMedical Alliance [NEAA]

An alliance of airmedical helicopter programs in New England and nearby states, founded as the New England Airmedical Alliance and expanded with a new name when New York programs joined. I organized the alliance in 1989. NEAA meets quarterly to discuss issues of mutual concern and sponsors an annual educational event for flight team members.

1989-1998 Founding Member

State Organizations

Massachusetts College of Emergency Physicians

State chapter of ACEP

1992-1993 Assistant Educational Program Coordinator
1993-1995 Educational Program Coordinator

Current as of January, 2008

1995-1997	Coordinator, Management Roundtable [bi-monthly CME program]
1997-1998	Chair, Membership Services [includes CME and other educational programs]
1998-1999	Treasurer
1998-1999	Councilor

Massachusetts Department of Health, Office of Emergency Medical Services

The lead agency responsible for ambulance and EMT regulation and training in Massachusetts

1988-1997	Helicopter Utilization Review Board
1992-1996	EMS 2000 Prehospital Care Committee
1992-1997	Protocol Development Committee
1992-1997	State Medical Services Committee
1993-1997	EMS for Children Advisory Council
1993-1997	DNR Committee

Hospital Association of Rhode Island

An association of hospitals in Rhode Island.

1998-Present	EMS Committee
2004-Present	Patient Tracking Committee

Rhode Island Chapter, American College of Emergency Physicians

State chapter of ACEP. Sponsors an annual educational conference and other activities.

1998-Present	EMS Task Force
1999-2000	Vice President
1999-Present	Representative to the Rhode Island Medical Society Council
2000-2001	President
2001-2003	Past President

Rhode Island Department of Health, Emergency Medical Services Division

The lead agency responsible for ambulance regulation, EMT training and practice, and EMT licensure in Rhode Island.

1997-2000	Chair, Air Ambulance Committee
1998-Present	Rules and Regulations Committee
1998-Present	Physician Medical Consultant
1998-Present	Ambulance Service Advisory Board
1998-Present	Medical Affairs Committee
2000-Present	EMS-Children Committee
2002-Present	Emergency Medical Dispatch Committee
2003-Present	Statewide Trauma System Project: Chair, EMS Subcommittee

Rhode Island 1 Disaster Medical Assistance Team [RI-1-DMAT]

A team of medical professionals organized under the Federal Emergency Management Agency [FEMA] to provide emergency care in time of disaster. The group trains in part by providing coverage at local mass events such as the Tall Ships Festival, Newport Jazz Festival, the Quonset Air Show, and the Gravity Games. The team responded to the World Trade Center September 11, 2001 attack and has been deployed for other disaster events such as the Egypt Air Flight 990 crash (1999), the West Warwick Station fire (2003), and Florida Hurricanes (2004).

1998-Present Senior Medical Officer
1998-Present Liaison, USCG

United States Coast Guard, Group Woods Hole,

1999-Present Passenger Vessel Risk Management Working Group / Marine Incident Group, Representing RI Dept. of Health

Rhode Island Medical Society

1999-Present Council, representing RI ACEP

Rhode Island Emergency Management Agency

2002-Present Domestic Preparedness Committee
2003-Present Multiple Casualty Incident Task Force

American Red Cross, Rhode Island Chapter

2003-Present Volunteer Medical Consultant, Disaster Health Services

Local Organizations

Central Massachusetts Emergency Medical Services Corporation

The regional EMS council for Worcester County.

1987-1997 University of Massachusetts Medical Center Representative
1988-1997 Advanced Life Support and Medical Services Committee
1989-1997 Board of Directors
1992-1992 Chair, Training and Education Committee
1992-1993 Chair, Advanced Life Support and Medical Services Committee
1994-1997 Medical Director, Massachusetts EMS Region II

Western Massachusetts EMS Committee, Inc.

Current as of January, 2008

The regional EMS council for the western third of Massachusetts

1994-1996 Physician's Council

City of Springfield, Massachusetts

1994-1996 Commissioner, Emergency Medical Services Commission

City of Providence, Rhode Island

2004-Present Medical Director, Emergency Management Agency and Office of Homeland Security / Metropolitan Medical Response System / Medical Emergency Distribution System

Town of Uxbridge, Massachusetts

2008-Present Medical Reserve Corps Volunteer

Hospital Committees & Appointments

Rhode Island Hospital, Providence RI

1997-1999 Emergency Department Redesign Committee

1998-1999 Emergency Department Information Systems Committee

1998-2002 University Emergency Medicine Foundation New Ventures Committee

2001-2002 HEICS Implementation Committee

2006-Present Helipad Design Committee

2006-Present Medical Director, Lifeguard EMS

Mercy Hospital, Springfield MA:

1994-1996 Chair, Ambulatory Care & ED Quality Assurance Committee

1994-1996 Chair, Emergency Department Provider Committee

1994-1996 Medical Chief/Administrative Committee

1994-1996 Co-chair, Pediatric Quality Improvement Team

1995-1996 Co-chair, Ambulatory Care Quality Improvement Committee

1995-1996 Mortality Review Committee

University of Massachusetts Medical Center, Worcester MA

1989-1991 Patient Care Evaluation Committee

1990-1997 Trauma Services Committee

1991-1993 Competitive Edge Task Force

1992-1995 Utilization Management Committee

1993-1997 Clinical Advisory Group

1993-1997 Quality Assurance Committee

Current as of January, 2008

1993-1997 Founder and Chair, Life Flight Medical Advisory Committee

1994-1997 Trauma Peer Review Committee

1997-1997 Information Resources Division Budget Committee

Burbank Hospital, Fitchburg, MA:

1988-1989 Quality Assurance Committee

MEMBERSHIP IN SOCIETIES

1984-Present American College of Emergency Physicians [ACEP]

1984-1987 Pennsylvania Chapter, American College of Emergency Physicians [PACEP]

1985-1988 American Society for Testing and Materials [ASTM], EMS Committee

1987-1998 Massachusetts College of Emergency Physicians [MACEP]

1988-1995,

1998-Present National Association of EMS Physicians [NAEMSP]

1989-1998 New England Airmedical Alliance, founding member

1992-2001 American Medical Informatics Association [AMIA]

1994-Present Air Medical Physician Association [AMPA]

1995-2002 Society for Medical Decision Making [SMDM]

1998-Present National Association of State EMS Directors/Officials [NASEMSD, now NASEMSO]

2006-Present National Council of State EMS Medical Directors

1998-Present Rhode Island Chapter, American College of Emergency Physicians [RIACEP]

1999-Present Rhode Island Medical Society [RIMS]

2006-Present Society for Academic Emergency Medicine

ORIGINAL PUBLICATION IN PEER-REVIEWED JOURNALS

1. **Williams K**, Aghababian, R., Shaughnessy, M.: Statewide EMS Helicopter Utilization Review: The Massachusetts Experience. *Journal of Airmedical Transport*, vol 9 no 9 p 14 September 1990.
2. Aghababian R, **Williams K**, Holbrook J, Lew R: Computer applications in quality assurance. *Emergency Medicine Clinics of North America* August 1992; 10(3):627-647.
3. Karcz A, Holbrook J, Burke MC, Doyle MJ, Erdos MS, Friedman M, Green ED, Iseke RJ, Josephson GW, **Williams K**: Massachusetts emergency medicine closed malpractice claims: 1988-1990. *Ann Emerg Med* March 1993;22:553-559.
4. Bruhn J, **Williams K**, Aghababian R: True costs of air medical vs. ground ambulance systems. *Air Medical Journal* Aug. 1993;12(8):262-268.
5. **Williams K**, Rose W, Simon R: Teamwork in Emergency Medical Services. *Air Medical Journal* Dec 1999;18;4:149-53.

6. **Williams K:** Emergency Medical Services – Scene of Injury to Emergency Department – Key Issues for Spinal Cord Injuries, *Medicine and Health/Rhode Island*, March, 2000; 83:3, 72-75.
7. Kobayashi L, Shapiro M, Suner S, **Williams K:** Disaster Medicine: The potential role of high fidelity medical simulation for Mass casualty incident training. *Medicine & Health Rhode Island* Vol 86, No. 7, July 2003, p196-200.
8. Woolard R, Lai M, Shapiro M, Kobayashi L, Jay G, Suner S, **Williams K**, Sullivan F: Emergency department design after 9/11/2001. *Medicine & Health Rhode Island* Vol 86, No. 7, July 2003, 204-206.
9. **Williams K**, Suner S, Sullivan S, Woolard R: Rhode Island Disaster Initiative. *Medicine & Health Rhode Island* Vol 86, No. 7, July 2003, 207-210.
10. Lubin J, Chung S, **Williams K:** An Assessment of Public attitudes toward automated external defibrillators. *Resuscitation* 2004;62(1):43-47.
11. Thomas F, Robinson K, Judge T, Eastlee C, Frazer E, Thomas SH, Romig L, Blumen I, Brozen R, **Williams K**, Swanson ER, Hartsell S, Johnson J, Hutton K, Heffernan J, North M, Johnson K, Petersen P, Toews R, Zalar CM: The 2003 Air Medical Leadership Congress: Findings and Recommendations. *Air Med J.* 2004 May-Jun;23(3):20-36.

OTHER PEER-REVIEWED PUBLICATIONS

1. **Williams K:** Voice recognition knowledgebase reporting systems for ambulatory care patient records. *J Ambulatory Care Manage* July 1992; 15(3):55-66.
2. **Williams K:** Speak to me: Managing risk with voice recognition technology. *Healthcare Informatics* September 1992; 9(9):58-62.
3. **Williams K:** Airmedical Care. *European Hospital Decisions*. Accepted for publication, September 2000.
4. **Williams K:** Air Medical Care Programmes. *Emergency Response and Disaster Management 2001*. International Assn. Of Emergency Managers, London. 3; 2001, 9-12.
5. **Williams K:** Great Fakes: Simulation in Air Medical Training *Air Medical Journal Forum* Vol 20, Number 6 January / February 2001
6. **Williams K:** A Cookbook for Safety. *Air Medical Journal Forum* Vol 20, Number 2 March / April 2001
7. **Williams K:** A Scene Flight at 31,000 feet: A New Habit? *Air Medical Journal Forum* Vol 20, Number 3 May / June 2001.
8. **Williams K:** Singing and Dancing Together: CCTMC Report. *Air Medical Journal Forum* Vol 20, Number 4 July / August 2001
9. **William K:** Ethics in Air Medical Care *Air Medical Journal Forum* Vol 20, Number 5 September / October 2001.
10. **Williams K:** Heroic Measures: September 11, 2001 *Air Medical Journal Forum* Vol 20, Number 6 November / December 2001.
11. **Williams K:** AMPA for Everyone. *Air Medical Journal Forum* Vol 21, Number 2. July/August 2002.
12. **Williams K:** The Air Medical Leadership Congress. *Air Medical Journal Forum*. Vol 21, Number 3 September/October 2002.

13. Thomas, S and **Williams, K**: Flight Physician Training Program – Core Content. Position Paper, National Association of EMS Physicians, Air Medical Services Task Force. *Prehospital Emergency Care* Oct/Dec 2002. Vol 6 Number 4. 459-460.
14. AMPA [**Williams K**, President] Medical Direction and Medial Control of Air Medical Services. Position Statement of the Air Medical Physician Association. *Prehospital Emergency Care* Oct/Dec 2002. Vol 6 Number 4. 461-463.
15. AMPA [**Williams K**, President] Medical Condition List and Appropriate Use of Air Medical Transport. Position Statement of the Air Medical Physician Association. *Prehospital Emergency Care* Oct/Dec 2002. Vol 6 Number 4. 464-470.
16. AMPA [**Williams K**, President] Appropriateness of Air Medical Transport in Acute Coronary Syndromes. Position Statement of the Air Medical Physician Association. *Prehospital Emergency Care* Oct/Dec 2002. Vol 6 Number 4. 471.
17. **Williams K**: Smallest state tackles big readiness project. *Homeland Protection Professional*, January/February, 2003, p16-20.
18. Kobayashi L, **Williams K**, Morey J, Shapiro M, Counihan T, TATRC Reserve Medical Component Training (RCT) Case Scenarios. MedEdPORTAL; 2007.
Available from:
<http://services.aamc.org/jsp/mededportal/retrieveSubmissionDetailById.do?subId=524>

BOOKS AND BOOK CHAPTERS

1. **Williams K**: Childhood Emergency Sourcebook 118pp. illus Preschool Enrichment Team, Holyoke, MA 1985, reprinted 1988.
2. **Williams K**: The Pregnant Patient. In: May H, Aghababian R, Fleisher G [eds]: Emergency Medicine, second edition Boston, Little Brown and Co. 1992.
3. Diaz O, **Williams K**: Nicotine. In: Viccellio P [ed]: Handbook of Toxicology. Boston, Little Brown and Co. 1992.
4. **Williams K**: Air Medical Systems, chapter in Harwood-Nuss, Linden, Emergency Medicine, 2nd edition Lippincott-Raven, 1996, submitted revision for 3rd edition, 2000
5. **Williams K**: Emergency Medical Informatics, chapter in Harwood-Nuss, Linden, Emergency Medicine, 2nd edition Lippincott-Raven, 1996, submitted revision for 3rd edition, 2000
6. **Williams K**: Restuccia M, Allison E J Jr, March J, Hunt R, Emergency Medical Services/Disaster Medicine [7 chapter sections] in Aghababian R, Emergency Medicine, The Core Curriculum, Lippincott-Raven, 1998
7. **Williams K**: Emergency Medical Services Systems, chapter in Stine, Emergency Medicine, Little Brown, 1995
8. **Williams K**, & Williams A: Advanced Directives, in Rosen, Barkin et al, The 5 Minute Emergency Medicine Consult, Williams & Wilkins, 1999.
9. Lubin J, & **Williams K**: Peritonsillar Abscess, in emedicine, an internet online medical text www.emedicine.com, 1999.
10. **Williams K**: Public Relations, Transfer Agreements, EMS System Activation. A 3 chapter section in Air Medical Crew National Standard Curriculum, second edition, US Dept of Transportation. Accepted for publication, July 2000.

11. Rayman R, & **Williams K**: The Passenger and The Patient Inflight. In DeHart R , Davis J [ed.] Fundamentals of Aerospace Medicine, 3rd Edition, Lippincott Williams & Wilkins, 2002.
12. Robinson K, & **Williams K**: Medical Oversight. in Standards for Critical Care and Specialty Ground Transport. James S ed. Air & Surface Transport Nurses Association, 2002.
13. **Williams K**, Williams A et al: Disaster and MCI Response, Principles and Direction of Air Medical Transport, AMPA, Blumen, Lemkin eds. Section editors Brozen, Doyle... **Williams** 2006.
14. Robinson K, Suzzo J, **Williams K**: Air Medical Transport. In The Medical Student Survival Guide, Emergency Medicine Resident's Association. 2007.

PUBLICATIONS SUBMITTED OR IN PREPARATION

Kobayashi L, Shapiro MJ, Williams KA, Jay GD, et al: Implementation of High-Fidelity Medical Simulation for Disaster Medicine Education and Mass Casualty Incident Preparedness. (In preparation).

Williams, K.A., Sullivan, F., Suner, S., Shapiro, M., Kobayashi, L., Woolard, B., Hill, W. and Seekell, C., (xxxx) 'Rhode Island disaster initiative', *Int. J. Risk Assessment and Management*, Vol. x, No. x, pp.xx-xx. (in press)

ABSTRACTS

1. **Williams K**, White S, Kaplan R: Lung Compliance Changes in Tension Pneumothorax, A Sheep Model. Presented at UAEM, May 1987.
UAEM, The University Assn. of Emergency Medicine, became the Society for Academic Emergency Medicine subsequently, and is an organization of academic emergency physicians.
2. **Williams K**, Kaplan R, Stewart R: Blood Ethanol Estimation from Saliva Testing, A Clinical Trial. Presented at UAEM, May 1987.
3. LaPlante G, Gore J, Corrao J, **Williams K**: Feasibility and Safety of Transport in AMI Patients by Helicopter During Thrombolytic Therapy with rT-PA. Presented at ASHBEAMS Annual Meeting, September, 1988.
ASHBEAMS, the American Society for Hospital Based Emergency Air Medical Services, became the Association of Air Medical Services [AAMS]. It is a trade organization that sponsors scientific and academic sessions at an annual conference.
4. **Williams K**, Klainer P, Aghababian R, Podgorny E: Emergency Transfer of Cardiac Patients: A Decade of Evolution. Presented at the 3rd International Conference on Emergency Medicine, Toronto, 1990.
This is an annual conference, occasionally held in the USA, focusing on emergency medicine issues of international interest.
5. **Williams K**, Bradstreet B, Spencer W: LogER: An Integrated Emergency Department Patient Log System, 1996 AMIA Annual Fall Symposium, Washington, DC, October, 1996.

AMIA, the American Medical Informatics Association, is the primary physician and medical organization involved in computer applications and information management in clinical medicine and medical education.

6. Williams A, **Williams K.**: The Virtual Doctor Home Page: A Lay Public Medical Resource, Presented at the 1996 AMIA Annual Fall Symposium, Washington, DC, October, 1996
7. Eliot C, **Williams K**, Woolf B: An intelligent learning environment for Advanced Cardiac Life Support, paper presentation, 1996 AMIA Annual Fall Symposium, Washington, DC, October, 1996.
8. Lubin J, Chung S, **Williams K**: An assessment of public attitudes and knowledge about automated external defibrillation. Poster presented at NAEMSP, January 2002, Tucson, AZ.
9. **Williams K**, Sullivan F, Suner S, Shapiro M, Kobayashi L, Woolard R, Seekell C: Do first responders enter unsafe environments? Poster presented at New England Research Director's Conference, April 2004 and at SAEM, May 2004 moderated session.
10. **Williams K**, Sullivan F, Suner S, Shapiro M, Kobayashi L, Woolard R, Seekell C, Trespalacios F: Triage Behavior of First Responders. Presented at SAEM, May 2004
11. Suner S, **Williams K**, Shapiro M: Effect of Personal Protective Equipment (PPE) on Rapid Patient Assessment and Treatment During a Simulated Chemical Weapons of Mass Destruction (WMD) Attack. Presented at SAEM, May 2004 moderated session

SCHOLARLY WORK PUBLISHED IN OTHER MEDIA

Video

- Interviewed for feature on speech recognition technology for "Invention", Discovery Channel, 1991.
- Interviewed for feature on prehospital physicians for "The Doctor is In", New Hampshire Public Television, 1991.
- Featured on "Abdominal Pain Risk Management" for CME TV, a physician educational video series, 1992.
- Interviewed for program on New England Life Flight, Greater Media Cable, 1992.
- Interviewed for program on New England Life Flight, First Priority, Pittsfield Cable Television, 1993.
- Featured in Kurzweil AI VoiceEM Training Video, 1994
- Interviewed for program on emergency care, Boston Channel 5 Chronicle, April, 1994
- Interviewed for news feature on inhaled toxins, Springfield Channel 22, August, 1994
- Interviewed for news feature on airmedical care, Springfield Channel 40, October 1994

- Interviewed for news feature on apparent death and hypothermia, Providence Channel 12, January 25, 2001.
- Interviewed regarding anthrax and other bioterrorism threats, Providence Channel 10, September, 2001
- Interviewed regarding dedication of Lifeguard EMS ambulance, Providence Channel 12, March 2006. Event attended by entire RI Congressional Delegation.
- Interviewed regarding cyanide exposure to Providence firefighters, Providence TV Channels, aired November, 2006
- Interviewed regarding the Station Nightclub Fire and disaster response, CNN (background audio), January 2006

Audio

- Tape distributed of lecture "The Medical Record of the Year 2000." delivered at the New England Healthcare Assembly, April, 1992.
- Interviewed for NPR feature on ambulance diversion and emergency department overcrowding, WRNI, public radio, Providence, RI, May, 2001.
- Audio Digest tape of lecture delivered in New Hampshire on Receiving the HAZMAT Patient distributed, Fall 2005

Print

- Featured in article on New England Life Flight, "Hovering between life and death." Inside Worcester magazine, September 1990.
- Featured in article on New England Life Flight, "Aerial Trauma Response." Springfield Sunday Republican, March 29, 1992.
- Interviewed for feature article Hassig, J: At-the-scene data capture. Healthcare Informatics March 1992; 9(3):18.
- Featured in cover article on New England Life Flight, Hospital News, May, 1992; 10[5].
- Featured in article on New England Life Flight, "On the Life Flight." Worcester Telegram and Gazette, 1992.
- Interviewed for article on speech recognition systems, AMA American Medical News, April 26, 1993.
- Interviewed for article on Life Flight expansion, Worcester Telegram and Gazette, April, 1994
- Interviewed for article on Life Flight expansion, Hampshire Gazette, April, 1994
- Interviewed for article on Life Flight expansion, Univ. of Mass Amherst Collegian, April, 1994
- Interviewed for article on health during commercial flight, Women's World, April, 2000
- Invited to provide Congressional testimony, Task Force on Homeland Security, June 24, 2003.

- Interviewed for feature on homeland security funding, Providence Journal, August, 2003

INVITED PRESENTATIONS

Regional

1. Emergency Medicine in Australia
Emergency Medicine Grand Rounds Presentation, Univ. of Pittsburgh, December, 1986
2. Torticollis
Emergency Medicine Grand Rounds Presentation, Univ. of Pittsburgh, February, 1987
3. Law and Emergency Medicine
Emergency Medicine Grand Rounds Presentation, Univ. of Pittsburgh, June, 1987
4. Vaginitis
Emergency Medicine Grand Rounds Presentation, Univ. of Mass, November, 1987
5. Abdominal Pain
Emergency Medicine Grand Rounds Presentation, Univ. of Mass, February, 1988
6. History of Emergency Medicine and Airmedical Care
Mass Assn. of EMTs Annual Convention, Springfield, Mass October, 1988
7. Advanced Life Support
Testimony before Mayor's Select Committee on Ambulance Care, Fitchburg, Mass October, 1988
8. Advanced Paramedic Skills
Burbank Hospital Prehospital Care Conference, November, 1988
9. The Moribund Trauma Patient and Life Flight
Emergency Medicine M&M Conference, Univ. of Mass, January, 1989
10. Orthopedic Emergencies
CEDNEP Nursing Triage Program Lecture, Univ. of Mass, April 1989
11. Helicopter Utilization Review
Emergency Medicine M&M Conference, Univ. of Mass, April 1989
12. Medical Direction Options
Burbank Hospital Prehospital Care Conference, April, 1989

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13. Advanced Paramedic Skills
Burbank Hospital Prehospital Care Conference, May, 1989
14. Prehospital Care
Emergency Medicine Conference, Univ. of Mass, June, 1989
15. Airway Management
Emergency Medicine Conference, Univ. of Mass, June, 1989
16. Introduction to Prehospital and Emergency Care
Medical Student Lecture, Univ. of Mass, September, 1989
17. Patient Satisfaction and the Business of Medicine
Emergency Medicine Conference, Univ. of Mass, September, 1989
18. Musculoskeletal Injuries
CEDNEP Nursing Triage Program, Univ. of Mass, September, 1989
19. Medical Direction
Massachusetts Assn. of EMTs seminar, December, 1989
20. Quality Assurance and Patient Satisfaction
Emergency Medicine Conference, Univ. of Mass, February, 1990
21. Documentation and Computers in the ED
Emergency Medicine Conference, Univ. of Mass, March 1990
22. Emergency Medicine: Past, Present and Future
Medical Student Lecture, Univ. of Mass, May 1990
23. Airmedical Care and Medical Direction
EMT Class Lecture, May 1990
24. Airmedical Services: a Technology Assessment
Emergency Medicine Conference, Univ. of Mass, July 1990
25. Voice Activated Dictation of Emergency Medical Reports,
Risk Management Seminar, Univ. of Mass, July 1990
26. Prehospital Care Rounds
Univ. of Mass, August, 1990
27. The Future of Emergency Medicine
Medical Student Lecture, September 1990
28. Emergency Procedures Lab

- Resident and Flight Nurse Cadaver Lab, October 1990
29. Prehospital Care Rounds
Univ. of Mass, October, 1990
 30. ACLS Airway Management, Lecture and Skill Lab
Univ. of Mass, November, 1990
 31. Use of Airmedical Services
Barre Regional Health Center, November, 1990
 32. Prehospital Care Rounds
Univ. of Mass, December 1990
 33. Airmedical Care in New England; A Decade of Progress
Medical Grand Rounds, Univ. of Mass, January, 1991
 34. Emergency Thoracic Decompression
CMEMS Paramedic Course, February, 1991
 35. Prehospital Care Rounds
Univ. of Mass, February, 1991
 36. Quality Management and ED Triage
ED Triage Training Course, Univ. of Mass, March, 1991
 37. Medical Emergencies
EMT Course, Holy Cross College, March, 1991
 38. Airmedical Helicopter and Emergency Department Tour
JCC Preschool, March, 1991
 39. Emergency Procedures Lab
Resident and Flight Nurse Cadaver Lab, April, 1991
 40. Abdominal Pain in the ED
Resident Conference, Univ. of Mass, April, 1991
 41. Oral Board Simulation Course
Univ. of Mass EM Residency, June, 1991
 42. Prehospital Care Rounds
Univ. of Mass, June, 1991
 43. Airmedical Care, A Community Service
Gardner Rotary Club, Gardner, Mass, June, 1991

44. Emergency Medicine Clinical Computing
Univ. of Mass EM resident conference, July, 1991
45. Airway Management Workshop
Univ. of Mass EM resident conference, July, 1991
46. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, August, 1991
47. Airway Workshop
Univ. of Mass EM resident conference, August, 1991
48. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, Sept, 1991
49. Airway Workshop
Univ. of Mass EM resident conference, Sept, 1991
50. Trends in Trauma, Airmedical Care
Trauma Conference, UMMC, Sept. 1991
51. Prehospital Care Rounds
UMMC, Sept, 1991
52. Introduction to Emergency Medicine
UMMC Medical Student Emergency Medicine Course, Sept, 1991
53. Community Importance of Airmedical Care
Greendale Retired Men's Club, Oct, 1991
54. Emergency Medicine Information Systems
Univ. of Mass. EM resident conference, Nov, 1991
55. Medical Computer Applications
Guest Lecture, Worcester State College, Nov. 1991
56. Emergency Procedures Lab
Resident and Flight Nurse Cadaver Lab, Nov., 1991
57. Voice Recognition Computer Systems for Emergency Medicine
Presentation to Board of Trustees, UMMC, Nov., 1991
58. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, Dec, 1991

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59. Expert Witness: in your future?
Univ. of Mass EM resident conference, Jan, 1992
60. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, Feb, 1992
61. Airway Management Workshop[
Univ. of Mass. EM resident conference, Feb, 1992
62. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, March, 1992
63. Air Medical Care
Harrington Memorial Hospital ED Rounds, May, 1992
64. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, May, 1992
65. Advanced skills cadaver lab
Univ. of Mass, May, 1992
66. The value of helicopter ambulance systems.
Greendale Retired Men's Club, May, 1992
67. Airmedical Care in New England, a Decade of Progress.
Shrewsbury Rotary, May, 1992
68. Oral Board Review Course
Univ. of Mass, June, 1992
69. Emergency Medicine Information Systems
Univ. of Mass Resident Lecture, June, 1992
70. Spinal Cord Trauma: Perspective from the accident scene.
New England Rehabilitation Hospital, Salem, NH, June, 1992
71. Voice recognition and emergency medical records generation.
Mass. Medical Records Assn. annual meeting, Sturbridge, Mass, June, 1992
72. Use of voice recognition documentation systems in academic emergency departments.
Emergency Medicine Residency Conference, Boston City Hospital, July, 1992
73. Emergency Medicine Information Systems
Univ. of Mass EM resident conference, August, 1992
74. Emergency Medicine, Hub of the Universe.

- UMMC Medical School Emergency Medicine Course
Univ. of Mass, September, 1992
75. Emergency Medicine Information Systems: Development of Scoring Systems
Univ. of Mass EM resident conference, September, 1992
 76. Advanced skills cadaver lab
Univ. of Mass, January 1993
 77. EMS Technology of the Future
Second annual Trauma Conference, UMMC, February 1993
 78. Use of air medical services
Western Massachusetts EMS council, March, 1993
 79. EMS 2000: Technology of the Future
EMS week keynote speech, Franklin Medical Center, Greenfield, MA May, 1993
 80. Emergency Medical Services
Univ. of Mass EM resident conference, July, 1993
 81. Quality Improvement at Life Flight
Univ. of Mass Quality Leadership Training, July 1993
 82. Emergency Medical Services
Univ. of Mass EM resident conference, September, 1993
 83. Airmedical Care
Univ. of Mass EM Resident Lecture, October 1994
 84. ACLS Megacode Teaching Session,
UMMC, November 1993
 85. Emergency Medical Services
Univ. of Mass EM Resident Lecture, December 1993
 86. ATLS Testing Session,
UMMC, January 1994
 87. Emergency Medical Informatics: An Introduction
Emergency Medicine Faculty Retreat, UMMC
March, 1994
 88. Use of Airmedical Services
Northeast Division, National Ski Patrol Training Program
Princeton MA, March, 1994

89. Airmedical Care
Univ. of Mass EM Resident Lecture, March 1994
90. Advanced Skills Cadaver Lab, Life Flight
UMMC March 1994
91. Trauma in Pregnancy
Joint Mass ENA / ACEP Conference, Marlborough MA, March 1994
92. Airway Management Workshop
Univ. of Mass EM Resident Lecture, April, 1994
93. Life Flight, History and Future
UMMC Foundation, June, 1994
94. Headache
Univ. of Mass EM Resident Lecture, October, 1994
95. Airmedical Care
Western Mass EMS Convention, October, 1994
96. Four Questions about Emergency Medicine
First year medical student lecture, UMMC, October, 1994
97. Airmedical Care in Western Massachusetts,
EMS/Trauma Conference, Baystate Medical Center, October, 1994
98. Airmedical Care
Yale University Hospital, October, 1994
99. Cardiac Emergencies
EMS Management Program, Springfield College, Springfield, MA, November 1994
100. Trauma
EMT Course, Central High School, Springfield, MA, January 1995
101. Helicopters and Medical Care
Mercy Hospital CPC, Springfield, MA March 1995
102. Emergency Procedures Lab
Resident and Flight Nurse Cadaver Lab, UMMC, March, 1995
103. Medical and Traumatic Emergencies
EMT Course, STCC, Springfield, MA, July, 1995

104. Childbirth, Pediatrics, Shock and Survival
EMT Course, STCC, Springfield, MA, July, 1995
105. Neuroanatomy and Physiology,
Paramedic Program, Springfield College, August, 1995
106. Personal Stress Management
Life Flight Seminar, Turner's Falls MA, August, 1995
107. Personal Stress Management
Life Flight Seminar, UMMC, September 1995
108. "Crew Resource Management" for Medical Crew
UMMC EM Grand Rounds, February, 1996
109. ED Occupational Risks
MACEP Management Roundtable, Marlborough, MA September, 1996
110. Musculoskeletal Trauma
CMEMS EMT Course, October, 1996
111. Trauma Treatment
Nashoba Valley EMT Course, October, 1996
112. Emergency Medicine Careers
Science Day, Shrewsbury Middle School, November, 1996
113. Comparative EMS Systems, Massachusetts and NSW Australia
UMMC EM Grand Rounds, November, 1996
with Ross Findlay, Station Officer, NSW Ambulance
114. Evaluating Clinical Performance
MACEP Management Roundtable, November 1996
115. Emergency Department Ultrasound
MACEP Management Roundtable, February, 1997
116. Medical Direction
RI Hospital EM Resident Conference, February, 1997
117. Sepsis
UMMC Emergency Medicine Grand Rounds, April, 1997
118. EMS Vehicle and Crew Choice
RI Hospital EM Resident Conference, August, 1997

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119. Blood Borne Pathogens
United States Coast Guard, Castle Hill Station
Castle Hill, Rhode Island, April, 1998

120. EMS System Design
Base Station Course, Rhode Island Hospital, April, 1998

121. Abdominal Pain
Medical Student Elective Lecture Series
UMMC, April, 1998

122. The Aviation Background of Teamwork Training
RI Emergency Medicine Foundation Retreat
Providence, RI May, 1998

123. Airmedical Care in EMS for Children
EMSC Spring Training, RI Dept of Health/EMSC
Warwick, RI May, 1998

124. The Pregnant Emergency Department Patient
RI Emergency Medicine Residency
Providence, RI May, 1998

125. Air Medical Care System Design
RI Emergency Medicine Residency
Providence, RI August, 1998

126. EMS System Design
Base Station Course, Rhode Island Hospital
Providence, Rhode Island February, 1999

127. Wound Management
Resident Lecture, Brown University Emergency Medicine Residency
Providence, RI July, 1999

128. Mock Codes
Resident Lecture, Brown University Emergency Medicine Residency
Providence, RI July, 1999

129. EMS
Intern Lecture for Brown University Emergency Medicine Residency
Providence, RI with Dr. Sullivan July, 2000

130. Arrhythmias
ACLS Lecture for Brown University Medical Students

- Providence, RI July, 2000
131. Wound Management
Intern Lecture for Brown University Emergency Medicine Residency
Providence, RI July, 2000
 132. DMAT response to WTC Terrorist Incident
Terrorist Health Threats: A Program for Physicians
Rhode Island Medical Society
Warwick, RI November, 2001
 133. EMS and Stroke Treatment
Regional EMS Lecture, RI DOH and RI AHA / ASA
4 sessions, Fall 2002.
 134. ACLS
Instructed course for Brown University Residents
Providence, RI June 2003
 135. Update on Disaster Management
Massachusetts Association of Healthcare Executives
Waltham, MA
June, 2003
 136. EMS
Orientation for Emergency Medicine Residents
Providence, RI
July, 2003
 137. CPC – Focal Neurologic Deficit in a patient exposed to bird droppings.
Emergency Medicine Resident Conference,
Providence, RI March 2004.
 138. The Rhode Island Disaster Initiative and Disaster Response
RI-1 DMAT Conference, Providence RI, March 2004.
 139. Pediatric Trauma Triage
New England EMS for Children Conference
Newport, RI November, 2004
 140. A Method to the Madness: Trauma Systems Development in Rhode Island
The 16th Kiwanis Pediatric Trauma Management Seminar
Providence, RI November, 2004
 141. Disaster Response for Professionals.
The 3rd Annual Tom Steele Memorial Conference,

- Springfield, MO April 2005
142. Simulation for Disaster Responders
The 3rd Annual Tom Steele Memorial Conference,
Springfield, MO April 2005
 143. HAZMAT Patient Care
Medical Emergencies Conference
Dartmouth Medical School
Hanover, NH May 2005
 144. Response to Major Incidents
Rhode Island Dept. of Health and Emergency Management Agency
August, 2006
 145. The Toxicology of WMD Agents
Brown Medical School Residency in Emergency Medicine
Providence, RI
September, 2006
 146. EMS Disaster Response
Institute for Emergency Medical Education
Taunton, MA
October, 2006
 147. ACLS Update
Paramedic Refresher Program
Providence, RI
January 2007
 148. Major Incident Support Training
Train-the-trainer Program,
Providence, RI
11 sessions between March and October 2007
 149. Objective Disaster Drill Scoring
3rd Annual RI Disaster Responder Conference
organized and directed conference
Warwick, RI
June, 2007
 150. The EMS System and STEMI in RI
Cardiology Seminar
Providence, RI
June, 2007

151. Thoracic Trauma
ATLS Course
Providence, RI
October, 2007

152. Steroid Use in EMS
RI Department of Health EMS Division Seminar
Warwick, RI
January, 2008

National

Significant number of attendees from across the US; national event or organization.

1. Resident Training and Airmedical Care
NAEMSP Conference, San Diego, August, 1986

2. Physician Use of Voice Recognition Documentation
Interview for program "Invention", Discovery Channel, October, 1990

3. Abdominal Pain Risk Management
MASS ACEP Risk Management Course, Boston, MA October, 1990

4. Voice Activated Dictation of Emergency Medical Reports,
Risk Management Seminar, Univ. of Mass CME, Seal Beach, California, October,
1990

5. Understanding Emergency Physicians
KAI Applications Specialists Training, Waltham, Mass, January, 1991

6. Voice Activated Dictation of Emergency Medical Reports,
Risk Management Seminar, Univ. of Mass CME, Tampa, Florida, April, 1991

7. Abdominal Pain Risk Management
MASS ACEP Risk Management Course, Boston, MA April, 1991

8. Voice Activated Documentation Systems
SUNY Emergency Medicine Residency, Stony Brook, NY, June, 1991

9. Voice Activated Documentation Systems
Univ. of Georgia Emergency Medicine Residency Faculty, Univ. of Mass, June,
1991

10. Abdominal Pain Risk Management

MASS ACEP Risk Management Course, Boston, MA Sept, 1991

11. Voice recognition systems in emergency medicine.
Demonstration of system at ACEP annual conference, Boston, October, 1991
12. Quality Assurance and Computers
Airmedical Transport Conference, Oct., 1991 Tampa, Florida
13. Power Tools for Quality Management: Computer Applications
Rocky Mountain Helicopters Fireside Conference, Provo, UT March, 1992
14. The Medical Record of the Year 2000: Voice Activated Knowledge Base Systems
New England Healthcare Assembly, Boston, MA April, 1992
15. Abdominal Pain Risk Management
Massachusetts ACEP Risk Management Course, Boston, MA May, 1992
16. Abdominal Pain Risk Management
Mass ACEP Risk Management Course, Boston, MA October, 1992
17. Quality improvement through computer applications
Program for Healthcare Innovations Conference, Boston, MA October 1992.
18. Risk Management, Abdominal Pain,
Mass ACEP Risk Management Course, Boston, MA October, 1993
19. Abdominal Pain Risk Management
MACEP Risk Management Course, Boston, MA September, 1995
20. Myocardial Infarction, Pericarditis, Myocarditis
MACEP Recertification Program, Burlington, MA, September, 1997
21. Chest Pain Evaluation in the Emergency Department
Ohio Academy of Trial Attorneys
Columbus, Ohio, March, 1998
22. The Future of Teamwork Training
Air Methods Corporation Customer Conference
Denver, Colorado, May, 1998
23. Chest Pain in the Emergency Room
ATLA National Conference
Washington, DC July, 1998
24. Teamwork During Transport
Transport Medicine 99

Cambridge Health Resources
Boston, MA June 1999

25. Marine EMS: An introduction to the United States Coast Guard experience
Emergency Medicine: New England Conference
RI ACEP
Newport, RI August 1999
26. Marine EMS: The USCG, EMS, and Bio-Terrorism
NASEMSD National Conference
Rapid City, SD October, 1999
27. Cardiovascular Emergencies
Intensive Review of Emergency Medicine
Massachusetts College of Emergency Physicians
Boston, MA October 1999
28. Teamwork in EMS
AAMS Region 9 Conference
Charleston, SC May, 2000
29. Emergency Medicine Organized
AAMS Region 9 Conference
Charleston, SC May, 2000
30. Cardiovascular Emergencies
Intensive Review of Emergency Medicine
Massachusetts College of Emergency Physicians
Boston, MA October 2000
31. Cardiovascular Emergencies
Intensive Review of Emergency Medicine
Massachusetts College of Emergency Physicians
Boston, MA October 2001.
32. Cardiovascular Emergencies
Intensive Review of Emergency Medicine
Massachusetts College of Emergency Physicians
Boston, MA October 2002
33. Cardiovascular Emergencies
EMS and Disaster Systems
Intensive Review of Emergency Medicine
Massachusetts College of Emergency Physicians
Boston, MA October 2003

34. The Rhode Island Disaster Initiative: Research Briefing
The NDMS National Conference Research Track
Orlando, FL May 2005

International

Conference outside the US, significant number of attendees from outside the US; international organization or event.

1. Prehospital Physicians
NSW Paramedic Training Program, Sydney, Australia, October, 1986
2. Demonstration of voice recognition documentation systems in emergency medicine, International Conference on Emergency Medicine, Washington DC, May, 1992
3. Airmedical Program Design
AMTC/AMPA Preconference, Long Beach CA
September, 1995
4. "Cockpit Resource Management" for Medical Crew
AMPA Clinical Care Conference
Lake Tahoe, Nevada, March, 1996
5. Resource Management and Risk Management
AMPA Preconference, AMTC, Dallas TX, October, 1996
6. "Cockpit Resource Management" for Medical Teams
Emergency Medicine Challenges, Tortola, BVI, January 1997
7. Teamwork in the Emergency Department
Emergency Medicine Challenges, Tortola, BVI, January 1997
8. Abdominal Pain / Risk Management
Emergency Medicine Challenges, Tortola, BVI, January 1997
9. Pleuritic Chest Pain
Emergency Medicine Challenges, Tortola, BVI, January 1997
10. Pulmonary Embolism
AMPA/NFNA/NFPA Clinical Care Conference, Atlanta, April, 1997
11. Airmedical Vehicle and Team Composition
AMPA Medical Director's Preconference
AMTC
Cincinnati, Ohio, October, 1997
12. Teamwork Tomorrow

- AMPA/NFNA/NFPA Clinical Care Conference
Orlando, Florida March, 1998
13. "Crew Resource Management" for Medical Teams
Challenges in Emergency Medicine
BEYC, Virgin Gorda, BVI, January 1998
 14. Teamwork in the Emergency Department
Challenges in Emergency Medicine
BEYC, Virgin Gorda, BVI, January 1998
 15. Abdominal Pain and Risk Management
Challenges in Emergency Medicine
BEYC, Virgin Gorda, BVI, January 1998
 16. Team Building
Critical Care Transport Medicine Conference
Port Canaveral, Florida April 1999
 17. Controversies in Air Medical Care
Critical Care Transport Medicine Conference
Port Canaveral, Florida April 1999
 18. Choosing Medical Equipment, Aircraft, and Aviation Vendors
AMPA Core Concepts Preconference
Nashville, TN
October, 1999
 19. The Unthinkable Mission: Airmedical Care and Weapons of Mass Effect
AMPA Core Concepts Preconference
Nashville, TN
October, 1999
 20. Powerful Power Point Presentations: Using Graphics Software for Medical
Education
Critical Care Transport Medicine Conference
Las Vegas, Nevada April 2000
 21. Emergency Medicine Organized
AMPA Preconference, AMTC
Salt Lake City, Utah
October, 2000
 22. Medical Director's Risk Management
AMPA Preconference, AMTC
Salt Lake City, Utah

October, 2000

23. Airmedical Program Models
AMPA Preconference, CCTMC
Las Vegas, NV
April 2002
24. RIDI and Critical Care Transport
CCTMC
Las Vegas, NV
April 2002
25. Rhode Island Disaster Initiative: A Public Health Model
International Association of Emergency Managers
Columbus, Ohio
October, 2002
26. Postintubation Management
Airway Management Preconference
2003 Critical Care Transport Medicine Conference
Louisville, KY
March, 2003
27. High Fidelity Simulation for Training and Research
2003 Critical Care Transport Medicine Conference
Louisville, KY
March, 2003
28. The Rhode Island Disaster Initiative
World Conference on Disaster Management
Toronto, Ontario
June, 2003
29. The Future of Critical Care Transport
Invited domain knowledge expert and Chair, Medical Care Committee
Air Medical Leadership Congress
Salt Lake City, Utah
September, 2003
30. Disaster Response
2003 Air Medical Transport Conference,
AMPA Medical Director's Core Curriculum: Part 1
Reno, Nevada
November, 2003
31. High Fidelity Simulation

- Critical Care Transport Medicine Conference
AMPA Preconference
San Antonio, TX
April, 2004
32. HAZMAT Recognition and Response
AMPA Medical Director's Preconference
AMTC
Cincinnati, Ohio, October, 2004
33. Disaster Response
AMPA Medical Director's Preconference
AMTC
Austin, TX
October, 2005
34. Best Practices in Disaster Response
AMPA Medical Director's Preconference
AMTC
Phoenix, AZ
September, 2006

GRANTS

Emergency Medicine Foundation 1986

Resident investigator, basic science grant to fund sheep model of tension pneumothorax. Total support \$5000

Kurzweil Applied Intelligence, Inc. 1991

Co-investigator in 1-year grant to explore utilization of voice recognition computer systems for patient care and research in an academic emergency department. Total support [equipment, technical assistance, and direct awards] over \$200,000
Renewed for 2 years in 1993.

Primus Systems, Inc. 1996 PI

Informatics research support, total \$15,000

Emergency Department Information System Implementation, Rhode Island Hospital 2001
(Internal)

Responsible for leading the selection, installation, and implementation of a computerized tracking and medical information system at the Davol Emergency Department. Budget of \$500,000 over 2 years.

Rhode Island Disaster Initiative 2000-2006 (Contract)

Current as of January, 2008

Principal Investigator and Project Medical Director for this multi-year project to research best practices in EMS Disaster Response. First year funding \$900,000 appropriated by Congress with The Department of Health and Human Services acting as funding agency and in cooperation with Battelle National Laboratories. Second year funding appropriation at \$1,500,000 in cooperation with the Office for Naval Research released September 2002. Third year funding requested at \$2,000,000, listed for \$1,200,000 in the Defense appropriation bill and released in March, 2003. Fourth year funding requested at \$3,500,000, and listed in an amendment to the Defense Appropriations Bill.

Phase 3 of RIDI developed Lifeguard EMS, a critical care transport team based at Rhode Island Hospital used as a role model/mentoring training and dissemination platform. Sustainment efforts include grant and contract funding, with likely funding from RI EMA, RI DOH, and Providence EMA for various training efforts.

TATRC Reserve Component Medical Training 2006 (contract)

Principal Investigator for this \$1.2M research contract. The project debriefs returning military medical personnel and designs simulation-based training for personnel about to deploy, acting as a current knowledge link as military medical teams rotate into active operations.

FirstSTEP and TopSTEP 2005-2006 (contract)

Assisted with planning and coordination with funding through HHS, DHS and RI EMA for EMS providers taking this disaster response training program, developed the curriculum and delivered the training lectures. Total funding approx. \$100,000. The curriculum grew from the RIDI Project. Providence Fire Department is the first EMS agency to obtain training through this program.

MMRS/MMST (grant)

Appointed by the Mayor of Providence as Medical Director for the Metropolitan Medical Response System / Metropolitan Medical Strike Team in 2005. Assisted with coordination, program design and development, and medical oversight. Funding over \$2M across several grant years. Notable events include large scale statewide disaster drills, disaster responder conferences, and integration of the Lifeguard EMS system into the MMST role including over \$100,000 of direct funding for equipment and training.

UNIVERSITY ROLES**Massachusetts College of Emergency Physicians**

Course Director, Educational Program Coordinator, Membership Services Chair from 1992 to 1998. Responsibilities included developing curriculum, seeking and securing speakers, approving lecture outlines, editing conference materials, preparation and delivery of lectures, evaluation of conferences and speakers, meeting CME requirements. Various programs, ranging from bi-monthly management roundtables

Current as of January, 2008

with 10-20 attendees to quarterly risk management courses drawing over 100 attendees, most from the New England area and an annual joint CME conference with the Massachusetts Emergency Nurse's Association that was attended by over 300. Conversion of the Risk Management program to internet access and self-test for CME occurred while I was still associated with the MACEP Board as Treasurer

Brown University Emergency Medicine Residency EMS Lecture Section Leader

During the 1998-99 academic year, coordinated EMS lectures for the EM residency program lecture series [approx. 50 residents, fellows and students], including planning topics to comply with a core curriculum, scheduling speakers, and delivering lectures. With a revised lecture series plan in 1999, I delivered lectures as requested.

Brown University Emergency Medicine Residency EMS Curriculum Co-Leader

With Dr. Francis Sullivan, revised the residency EMS curriculum in 1999, resulting in a coordinated and verifiable experience that progressively spans the four year residency program [approx. 40 residents] and affords a solid background in EMS essentials along with options to pursue a variety of EMS interests such as critical care transport, air medical care, tactical EMS, marine EMS, EMS administration and EMS research. Further revised the residency curriculum in 2000 to take advantage of scheduling revisions, affording a regular rotation in EMS during the second residency year. Responsible for the administrative, quality improvement, and some didactic and observational aspects of the rotation. Senior residents may also participate in this curriculum as an elective. The revised curriculum includes ground and air (optional) EMS participation, teaching, quality assurance, and medical control experience. Options for marine EMS with the USCG, significant administrative EMS experience and deployment for disaster response with DMAT/MRC are available. Further revised in 2005 to include significant experience in critical care transport staffing the Lifeguard EMS critical care transport team, an aspect of RIDI Phase 3 and in 2006 added MMST and WMD training.

Brown University Emergency Medicine Residency Review Curriculum

From 1999-2001, developed a curriculum for and led ongoing monthly sessions to review core concepts in emergency medicine for the EM residents and interested medical students [10-20 attendees]. The curriculum is organized inversely around the severity of patient illness, with a focus on critical assessment and intervention skills. A written summary of the sessions is provided for the residents and interested others.

Brown University Emergency Medicine Residency Orientation Program Lecturer

In a curriculum designed to orient incoming residents during the first month of residency, regularly present lectures on EMS, wound management, and an introduction to the American College of Emergency Physicians.

Brown University Emergency Medicine Residency Board Review Conference

With several other faculty members, design and implement a review program to improve resident performance on in-training and board certification examinations.

Brown University Emergency Medicine Residency Base Station Course

With Dr. Francis Sullivan and local EMTs, teach 8-12 emergency medicine residents a 1-day annual course on the use of radio and cell phone communications to consult with EMTs and provide advice on patient care during transport.

Brown University Emergency Medicine Residency Administrative Elective

Provide EMS, AMPA and ACEP administrative support for residents choosing this elective.

Brown University Medical Student Emergency Medicine Interest Group

Provide support for medical students in this group, including assisting with attendance at ACEP meetings and supervising observation time in the emergency department.

ACLS Coordinator

With Drs. Marc Shapiro and Francis Sullivan, lead ACLS courses for Brown University Emergency Medicine Residents and medical students. Regularly instruct at other ACLS courses.

Brown University Disaster and EMS Fellowship

Organized and implemented this training program, ready for its first Fellow in 2006. Serve as Director, responsible for administrative and academic aspects of this two-year training program for graduates of US emergency medicine residencies. Fellowship includes matriculation at the Brown MPH program.

Ambulance Service Coordinating Advisory Board

Appointed by the Governor in 1998 to this voluntary position, serve to represent the interests of a high-quality EMS system for Rhode Island. Introduced the EMS Pride Program to reward excellence in EMS care. Serve on a number of committees and sub-committees.

Lifeguard EMS

Created this critical care transport team in 2004 as a training platform function of the RIDI Project in Phase 3 and serve as Medical Director. The team serves to improve care of patients during critical care transport while training first responder observers in disaster and WMD response. This team coordinates with the Hasbro Children's Hospital PICU transport team. Lifeguard EMS is Rhode Island's only critical care transport program, and serves over 500 patients annually while also providing support at major incident drills and training.

Medical Director, City of Providence Emergency Management Agency and Office of Homeland Security, Greater Providence Metropolitan Medical Response System

Appointed to this position in 2004 by Leo Messier, Director of Providence EMA and to related positions by the Mayor of Providence in 2005. Assist with medical aspects of the Agency activities, including development of the medical aspects of the MMRS system. Attended and graduated from the Integrated Emergency Management Course led by FEMA at the Noble Training Center in Anniston, Alabama in March 2005. Medical Director for the Metropolitan Medical Strike Team (MMST), an operational clinical component of MMRS.

HOSPITAL ROLES

Clinical Teaching at Rhode Island Hospital and Miriam Hospital

Bedside clinical teaching of medical and allied health students, residents and fellows in emergency medicine and other specialties averaging 24 hours weekly.

Rescue Rounds

With Dr. Francis Sullivan, revised and revitalized an educational program for EMTs and emergency medical residents in 1999. Assist with planning, curriculum development, and presentation at monthly sessions that average over 60 attendees.

Lifeguard EMS

Serve as Medical Director for this critical care ground transport program at Rhode Island Hospital, supervising a staff of 10 Paramedics and transport physicians drawn from the emergency medicine faculty and resident staff.

Rhode Island Department of Health Division of EMS Physician Medical Consultant

Since 1998, provide the Department with physician consultation on issues of EMT training, quality improvement, course curriculum, and clinical needs assessment, among other duties. Includes responsibility for approximately 100 ambulance services and 5,000 EMTs statewide. Serve on a number of committees and

subcommittees, review approximately 100 annual complaints, and represent the Department on a number of state and federal committees.

Air Medical Physician Association

Course Director and Education Committee Chair / Co-Chair since 1994. CME offerings include two annual conferences with attendance of 100-300 physicians and other health professionals drawing an international audience. In 2000, AMPA presented a one-day pre-conference at AirMed 2000 in Norway, and in 2001 in Switzerland. Developed curriculum, sought and secured speakers, prepared and delivered lectures, reviewed evaluations, assisted with conference planning and CME requirements. Reviewed abstracts for Scientific Assembly at annual Clinical Care Transport Medicine Conference. Arranged an AMPA Academic Membership for the Brown University EM residency, which entitles the residents to receive educational materials, news, and discounts at CME conferences. As President-Elect in 1999-2000, continued to act as Course Director, and guided educational activities.

As President in 2000-2002, led the organization and provided guidance regarding conferences, education efforts, publications and organizational business.

Implemented a revision of the Medical Director's Handbook including availability on line. Coordinated development of a curriculum for critical care transport medical directors, published jointly with NAEMSP as a Position Paper. Represented AMPA at other forums related to critical care transport and air medical care. Successfully negotiated contracts for two annual multi-association conferences. Continued activities as Board member (Past President) and Course Director since 2002.

Rhode Island Chapter, American College of Emergency Physicians

As Vice President during 1999-2000, responsible for arranging CME programs held regularly throughout the year. Participated in planning of the organization's annual educational conference. Continued to guide educational efforts as President in 2000, with additional duties including organizational business and coordinating Board of Directors meetings. Represented ACEP to the Rhode Island Medical Society Council, and continue in this role as Past President.

UMASS Life Flight

As Medical Director and in related roles between 1987 and 1998, developed curriculum for emergency medicine resident and fellow EMS experience including flight physician training for an annual class of 12 emergency medicine residents, developed curriculum and led recurring competency education for nurse and physician flight team members, coordinated development of Life Flight and EMS educational programs including rounds, conferences, and invited lectures for EMTs and emergency services personnel in Massachusetts. Assisted with development of Life Flight safety orientation videotape production. Founded the New England Airmedical Alliance, a cooperative body linking New England helicopter medical

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programs that sponsors an annual educational conference with attendance of approximately 100.

Central Massachusetts Emergency Medical Services Corporation

As Regional Medical Director, Training and Education Committee Chair, and Medical Services Committee member and Chair from 1988-1997, assisted in development of various training programs, annual educational meetings, and EMS curriculums for EMTs and medical control physicians covering approximately 100 ambulance services and 20,000 EMTs. Gave lectures for EMT and related classes. Approved and coordinated remedial training for EMTs with identified knowledge deficits. Met personally with and approved regional credentialing for all Advance Life Support Providers in Central Massachusetts while Medical Director.