



A

Declaration of Richard V. Aghababian, M.D.,
F.A.C.E.P.

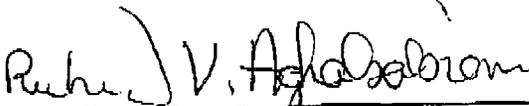
I, Richard V. Aghababian, M.D., F.A.C.E.P., hereby submit this declaration in order to provide information about the use of Adenocard[®] (adenosine injection) in the emergency room and ambulance settings. I have extensive experience in the use and administration of Adenocard[®] as well as with emergency room and ambulance practices. I am a Fellow and past President of the American College of Emergency Physicians and am Board certified by, among others, the American Board of Emergency Medicine. I am currently Associate Dean, Continuing Medical Education, of the University of Massachusetts Medical School, as well as the Chair of the Department of Emergency Medicine. My C.V. is attached hereto as Appendix A.

I hereby declare as follows:

1. I am familiar with the drug Adenocard[®], which is indicated for conversion to sinus rhythm of paroxysmal supraventricular tachycardia (PSVT), including that associated with accessory bypass tracts (Wolff-Parkinson-White Syndrome). Adenocard[®] is primarily used in an emergency room or ambulance setting. In most cases, need for the product is sudden, and speed of administration is critical.
2. It is important in emergency situations to have the proper dose of adenosine prepared and ready to use, preferably in a pre-filled syringe or in a single use vial.
3. Adenocard[®] is available in pre-filled 2 ml and 4 ml syringes, or generically as adenosine in 2 ml and 4 ml vials, corresponding to the recommended dosages for the product.
4. I have been asked whether provision of adenosine for treatment of PSVT in larger 6 ml or 10 ml multidose vials would be beneficial or useful. It is my opinion that such larger vials would not be useful in an emergency setting and I would not use or purchase them for my emergency room for treatment of PSVT.
5. First, injecting the proper dose from a multi-dose vial will require additional time and measurement compared to the single dose vials or pre-filled syringes. Any dosage form that increases delivery time or requires multiple steps is not appropriate in an emergency setting.

6. Use of multi-dose vials raises the possibility of dosing errors and other safety hazards in administration. Indeed, the current pre-filled syringe packaging is ideal because it minimizes the chances of needle-stick injuries as well as dosing errors. The concern over injury or dosing error is heightened in an emergency room setting where speed of administration is critical. Delays or errors in administration can have serious results for patients.
7. Emergency room personnel learn to recognize drug packaging and rely, at least in part, on the similarity in packaging to confirm that they are providing the drug they intend to administer. Thus, I believe that it is important in emergency medicine for all makers of the same drug substance to provide the drug in the same or very similar format.
8. The introduction of a new larger vial size would require extensive retraining for emergency personnel. Emergency personnel are trained to respond in a reflexive, almost automatic fashion to emergency situations. Changing these conditioned responses would require extensive retraining. If you vary the routine, for example with different packaging or requiring injecting less than the entire vial or syringe, people will have to be retrained to respond in a different way.
9. In my experience, I try to avoid such retraining if at all possible. It is time consuming, and thus costly. It takes the already limited time of the emergency room personnel for a purpose other than treating patients. Retraining in the administration of an already familiar drug also causes confusion. If the retraining is not sufficient in the first instance, confusion can lead to errors in critical situations.
10. Multi-dose vials are particularly problematic where different nurses may treat the same patient. In such a case, the second nurse may not know the history of the vial that had been used for the first adenosine dose, and would be reluctant to reuse the vial where the second or third doses can be administered up to half an hour apart or longer. In addition, going back into a vial to draw an additional dose is not a good idea, as the vial may no longer be sterile.
11. A number of adverse effects are possible if a patient were mistakenly given a 30 mg dose of adenosine in a rapid injection. These could range from making the patient very uncomfortable to inducing an unstable rhythm that could deteriorate and even cause death. It is impossible to predict in advance who could be adversely affected by a large dose as certain patients can be unusually sensitive.
12. In summary, there is little need or justification for larger vial sizes of adenosine for the currently approved indication for Adenocard[®]. Use of these multi-dose vials would raise significant safety concerns as well as economic concerns related to retraining of personnel.

I declare under penalty of perjury that the foregoing is true and correct, to
the best of my knowledge, information, and belief. Executed on October 21, 2004, in
Worcester, Massachusetts.


Richard V. Aghababian, M.D., F.A.C.E.P.

RICHARD V. AGHABABIAN, M.D., FACEP

BUSINESS ADDRESS

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Worcester, Massachusetts 01655

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HOME ADDRESS

5 Hidden Meadow
Southborough, MA 01772
Birthdate: July 7, 1948
Boston, MA

MEDICAL EDUCATION

1976-1978	UNIVERSITY OF CALIFORNIA San Francisco, CA Fellow, Emergency Medicine
1975-1976	MT. AUBURN HOSPITAL Cambridge, MA Junior Resident, Internal Medicine
1974-1975	MT. AUBURN HOSPITAL Cambridge, MA Intern, Internal Medicine
1970 – 1974	University OF MASSACHUSETTS Medical Center Worcester, MA MD Degree
1966 – 1970	HARVARD Cambridge BA Degree

PROFESSIONAL CERTIFICATION (CURRENT)

2000	American Board of Medicine - Recertified
1990	American Board of Medicine - Recertified
1982	Diplomat of American Board of Emergency Medicine
1977	Diplomat of American Board of Internal Medicine

LICENSURE

Commonwealth of Massachusetts, Certificate No. 38210
State of California, Certificate No. G31350

Experience

1994 – Present

UMASS MEMORIAL HEALTH CARE
University of Massachusetts Medical School
Worcester, MA
Associate Dean, Continuing Medical Education

1992 – present
UMASS MEMORIAL HEALTH CARE
Department of Emergency Medicine
Chairman

1994 –present
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Professor of Emergency Medicine

1993 – 1994
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Professor of Medicine

1985 – 1993
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Associate Professor of Medicine

1981 – 1985
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Assistant Professor of Medicine

1978 -1981
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Clinical Instructor of Medicine

1976 – 1978
UNIVERSITY OF CALIFORNIA AT SAN FRANCISCO
Clinical Fellow in Emergency Medicine

1974-1976
HARVARD MEDICAL SCHOOL
Clinical Fellow in Medicine

ADMINISTRATIVE AND MEDICAL STAFF APPOINTMENTS

1993 – present
UMASS MEMORIAL HEALTH CARE
Disaster Committee
Chairman

1983 – 1992
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Division of Emergency Medicine
Director, Department of Emergency Medicine

1998 – Present
UMASS MEMORIAL MEDICAL CENTER
Physician Member of MA-2 DMAT - Homeland Security

1991 – 1998
UMASS MEMORIAL HEALTH CARE
DMAT – MA -2 Homeland Security
Commander

1991 – 1994
UNIVERISTY OF MASSACHSETTS MEDICAL CENTER
Worcester EMS Ambulance Service
Medical Director

1986 – 1988
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
New England Life Flight
Medical Director

1986 – 1989
UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
Coordinated Emergency Medicine Residency Program
Residency Director

1983 – 1987 UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
 2004 – Present (alternate) Medical School
Admissions Committee

PROFESSIONAL ORGANIZATIONS

SOCIETY FOR AIRWAY MANAGEMENT

2003 – 2004 Immediate Past President
 2002 – 2003 President
 1999 – 2002 Vice President, September
 1996 – Present Board of Directors

AMERICAN COLLEGE OF EMERGENCY PHYSICIANS

1998 – Present International Meetings Subcommittee
 1998 – 1999 Research Committee
 1995 – 1996 Immediate Past President
 1994 – 1995 President
 1993 – 1994 President-elect
 1989 - 1991 Core Content Committee, Chairman
 1989 ACEP Board of Directors, Secretary/Treasurer
 1987 – 1996 ACEP, Board of Directors
 1986 – 1987 ACEP Council, Steering Committee
 1984 - 1987 ACEP Continuing Education committee

MASSACHUSETTS MEDICAL SOCIETY

2002 – 2004 Vice President, Worcester District
 1991 – Present Member Worcester District
 1995 – Present Medical Education Committee
 1997 – 2004 Chair
 1989 – 1993 Committee on Administration
 1987 – 1991 Executive Councilor
 1983 – 1985 Legislation Committee
 1982 – 1985 Public Relations Committee
 1982 – 1988 EMS Committee
 1982 – Present Councilor
 1978 – 1991 Member Worcester North District

EMERGENCY MEDICINE FOUNDATION

1992 - 1997 Board of Directors

AMERICAN MEDICAL ASSOCIATION

1986 – present

AMERICAN BOARD OF EMERGENCY MEDICINE

1986 – Present

BLUE CROSS INTERSPECIALTY MEDICAL

1985-1992 Advisory Committee

MASSACHUSETTS CHAPTER AMERICAN COLLEGE OF EMERGENCY PHYSICIANS, SINCE 1978

1983 – 1984 Massachusetts Chapter ACEP, President
 1982 – 1983 Massachusetts Chapter, President-Elect
 1980 – 1982 Massachusetts Chapter ACEP, Treasurer
 1979 – 1980 Massachusetts Chapter, Board of Directors

SOCIETY OF TEACHERS OF EMERGENCY MEDICINE

1983 – present N.B.: #5 and #6 merged as SAEM in 1998

COMMITTEE SERVICE

AMERICAN HEART ASSOCIATION

1991 Planning Team for 1991 National Conference on Cardiopulmonary Resuscitation
(CPR) and Emergency Cardiac Care (ECC)

CENTRAL MASSACHUSETTS EMERGENCY MEDICAL SYSTEMS, INC.

1987 – 1990 President
1984 – 1987 Vice President
1981 – 1983 Chairman, Disaster Committee
1978 – 1981 Medical Director
1978 – 1979 Medical Services Committee

MASSACHUSETTS STATE ADVISORY BOARD OF EMERGENCY MEDICAL SERVICES

1984 – 1986 Chairman, Executive Committee
1981 – 1982 Chairman, Training Subcommittee
1980 – 1986 Member

MASSACHUSETTS HOSPITAL ASSOCIATION

1981 – 1984 Member Physicians Advisory Council

BIBLIOGRAPHY**JOURNAL ARTICLES**

- 2004 **Aghababian RV:** *Emergency Department Evaluation and Treatment of Patients with ST-Segment Elevation Myocardial Infarction*, Clinical Pathways in Cardiology, Vol 3 Number 3, September 2004
- 2004 **Aghababian RV:** *Building evidence for Early Initiation of Clopidogrel Loading in Non-ST Segment Evaluation Acute Coronary Syndromes: Going Past the American College of Cardiology/American Heart Association Guidelines*, Annals of Emergency Medicine, 43:5, May 2004
- 2004 Volturo GA, **Aghababian RV:** *Facilitating Optimal Care of Acute Coronary, Cerebrovascular and Peripheral Vascular Syndromes in the Emergency Department: The Role of Oral Antiplatelet Therapy*. Journal of Thrombosis and Thrombolysis 17 (1) 29-34, 2004.
- 2004 Renzi Francis, Nichols Constance, Heitmann Debra, **Aghababian RV**, Hatem David, Volturo Gregory: *Physical Diagnosis in the Emergency Department: An Innovative Educational Program for Medical Students*. Accepted for Publication
- 2003 Slovis CM, Kudenchuk PJ, Wayne MA, **Aghababian RV:** *Prehospital Management of Acute Tacharrhythmias*. Prehospital Emerg Car January/March 2003; Vol 7(1), pp.2-12
- 2002 Wayne MA, Racht EM, **Aghababian RV**, et.al: *Prehospital Management of Cardiac Arrest: How Useful are Cardiac Arrest Drugs?* Prehospital Emergency Care August 2002; Vol 6(1), pp. 72-78
- 2002 **Aghababian RV**, Restuccia M: *Update on the Advanced ACLS Guidelines*. American College of Emergency Physicians, Critical Decisions in Emergency Medicine Series. 2002 Vol 16 (13), pp.1-
- 2002 **Aghababian RV**, Fonarow G: *Acutely Decompensated Heart Failure*. Reviews in Cardiovascular Medicine. September 2002 Vol 3 Supp 4
- 2002 Diop, D, **Aghababian RV** *Diagnosis and Treatment of Acute Myocardial Infarction Definition, Classification, and Pathophysiology of Acute Coronary Ischemic Syndromes*. Emerg Med Clin of N.A. April 2001; Vol 19(2)
- 2001 **Aghababian RV**, Mears G, Ornato JP, et al: *Cardiac Arrest Management*. Prehospital Emergency Care July/September 2001; Vol. 5 (3): 237-246
- 2001 Plungas GS, Tulgan H, DeMarco WJ, **Aghababian RV:** *American Medical Association and American Osteopathic Association Credit System: Accomplishing Dual Credit for a Conference*. The Journal of Continuing Education in the Health Professions. 2001; Vol 21, pp. 182-186
- 2000 Levy K, **Aghababian RV**, et al: *An Internet-based Exercise as a Component of an Overall Training Program Addressing Medical Aspects of Radiation Emergency Management*. Prehospital and Disaster Medicine 2000; 15 (2): 90-97
- 1999 Levy K, Hirsh E, **Aghababian RV**, et al: *Radiation Accident Preparedness, Report of a Training Program Involving the United States, Eastern Europe, and the Newly Independent States*. Amer J Pub Health. 1999; 89(7): 1115-1116
- 1997 Young G, Gibler W, Hedges J, Hoekstra J, Slovis C, **Aghababian RV**, Smith M, Rubison M, Ellis J: *Serial Creatine Kinase-MB Results are a Sensitive Indicator of Acute Myocardial Infarction in Chest Pain Patients with Nondiagnostic Electrocardiograms: The Second Emergency Medicine Cardiac Research Group Study*. Academic Emergency Medicine. September 1997; 4(9): 869-877
- 1997 **Aghababian RV:** *Planning for the Management of Injuries and Illnesses that Result from Disasters* Japanese Journal of Disaster Medicine. 1997; 2(1): 9-14

- 1997 Young G, Gibler W, Hedges J, Hoekstra J, Slovis C, **Aghababian RV**, Smith M, Rubison M, Ellis J: *Serial Creatine Kinase-MB Results are a Sensitive Indicator of Acute Myocardial Infarction in Chest Pain Patients with Nondiagnostic Electrocardiograms: The Second Emergency Medicine Cardiac Research Group Study*. *Academic Emergency Medicine*. September 1997; 4(9): 869-877
- 1997 Allison EJ, **Aghababian, RV**, et al *Core Content for Emergency Medicine*. *Ann Emerg Med* June 1997; 29:792-811
- 1997 Hunt RC, Whitley TW, Allison EJ, **Aghababian RV**, et al: *Photograph Documentation of Motor Vehicle Damage by EMTs at the Scene*. *Amer J Emerg Med* May 1997; 15:233-239
- 1996 Kennedy K, **Aghababian RV**, Gans L, and Lewis CP: *Triage - Techniques and Applications in Decision-making* *Ann Emerg Med*. August 1996; 28:136-144
- 1996 C Phuli Lewis, **Aghababian RV**. *Disaster Planning, Part 1, Overview of Hospital and Emergency Department Planning for Internal and External Disasters*, *Emergency Medicine Clinic of North America*, May 1996, 14: 439
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- 1995 **Aghababian RV**: *Planning for the Management of Injuries and Illnesses That Result from Disasters* *Japanese Journal of Disaster Medicine*. 1997; 2(1): 9-14
- 1995 Tetz DJ, **Aghababian RV**: *Hand Injuries From Snowblowers--A Report of an Epidemic*. *Prehospital and Disaster Med*, October-December 1995; 10(4): 265-267
- 1995 **Aghababian RV**, Levy K, Moyer P, Mottley L, Ciottone G, Freitas R, Minasian A: *Integration of United States Emergency Medicine Concepts into Emergency Services in the New Independent States*. *Ann Emerg Med*, September 1995; 26:368-375
- 1994 **Aghababian RV**, Lewis CP, Gans L: *Disasters Within Hospitals*. *Ann Emerg Med*, April 1994; 23:771-777.
- 1993 Eisenberg MS, **Aghababian RV**, Bossaert L, et al: *Thrombolytic Therapy* *Ann Emerg Med* February 1993; 22(pt2):417-427 -
- 1993 **Aghababian RV**, Tandberg D, Iserson K, Martin M, Sklar D: *Selection of Emergency Medicine Residents*. *Ann Emerg Med*, November 1993; 22:1753-1761
- 1993 **Aghababian RV**: *Emergency Medicine Career Options - Practice Type Options*. A Handbook for Medical Students and Prospective Residents. A project of the Emergency Medicine Residents' Association
- 1992 Bruhn JD, Williams KA, **Aghababian RV**: *True Costs of Air Versus Ground Ambulance Systems: Replacement Model Comparison* *Air Med J*, Vol 12(8): 262:268
- 1992 *Thrombolytic Therapy*. *Ann Emerg Med Proceedings issue, 1992 National Conference on Cardiopulmonary Resuscitation and Emergency Cardiac Care*. *JAMA*, October 1992; 268:2171-2300
- 1992 **Aghababian RV**: *Computer Applications in Quality Assurance* *Emerg Med Clinics of N.A.*, August 1992
- 1992 Gibler WB, **Aghababian RV**, et al: *AMI Detection in Chest Pain Patients with Non-Diagnostic ECGs: Serial CK-MB Sampling in the Emergency Department*. *Ann Emerg Med*, May 1992; 21:504-512
- 1992 **Aghababian RV**: *Core Content Criticism*. *Ann Emerg Med.*, April 1992; 21:452-453. 2003

- 1992 **Aghababian RV**, Teuscher J: *Infectious Diseases Following Major Disasters*. Ann Emerg Med, April 1992; 21:362-367
- 1991 **Aghababian RV**, Restuccia M: "Post Resuscitation Care in the Emergency Department. Is a Standardized Approach Needed?" Resuscitation. 22 (1991) 115-121
- 1991 **Aghababian RV**, et al: "Emergency Medicine Core Content". Report of 1990 Core Content Committee submitted to Ann Emerg Med, 1991; 20,8:920-934
- 1990 **Aghababian RV**, Gore JM: "Thrombolytic Therapy in the Emergency Department - The University of Massachusetts Experience". Clinical Challenges in Acute Myocardial Infarction, May 1990; Vol. 1, No.2
- 1990 Williams KA, **Aghababian RV**: "Statewide EMS Helicopter Utilization Review. The Massachusetts Experience" J of Air Medical Transport, September 1990; 9,9:14-23
- 1990 Whitley TW, **Aghababian RV**, et al.: "A Basic Resource Guide for Emergency Medicine Research" Ann Emerg Med, 1990; 19,11:1306-1309
- 1990 Holbrook JA, **Aghababian RV**: "Trigger Diagnoses" Ann Emerg Med, 1990; 19,12:1472-1473.
- 1990 **Aghababian, RV**: "Fast Track Facilities". Clinical Perspectives, 1990; 3,8:1-5
- 1990 Holbrook J, **Aghababian RV**: "A Computerized Audit of 15,009 Emergency Records" Ann Emerg Med, 1990; 19,4:139-144
- 1990 Burke MC, **Aghababian RV**: "Use of Autopsy Results in the Emergency Department Quality Assurance Plan" Ann Emerg Med, 1990; 19:363-366
- 1989 Moorehead JC, Adama BE, **Aghababian RV**, et al: *An Assessment of emergency Medicine Residency Graduates' Perceptions of the Adequacy of their Residency Training*. Ann Emerg Med, 1989; 18,9:201-204
- 1989 Gore JM, Corrao JM, Goldberg RJ, Ball SP, Weiner BH, **Aghababian, RV**, Dalen JE: *Feasibility and Safety of Emergency Interhospital Transport of Patients During Early Hours of Acute Myocardial Infarction*. Arch Intern Med, February 1989; 149:353-355
- 1986 **Aghababian RV**: *Emergency pain management*. Emerg Care Quarterly, Aug.1986: 12-21
- 1986 **Aghababian RV**: *Comparison of Diflunisal and Acetaminophen with Codeine in the Management of Grade 2 ankle sprain* Clin. Therapeutics, 1986; 8,5:520-526
- 1986 **Aghababian RV**, Volturo GA, Heifetz IN: *Comparison of Diflunisal and Naproxen in the Management of Acute Low Back Strain*. Clin. Therapeutics, 1986; 9,suppl. C: 47-51
- 1985 Linden CH, **Aghababian RV**: *Further Uses of Glucagon*. Letter to the Editor, Crit Care Med, 1985:12
- 1983 Page JR, **Aghababian RV**, et al: *Disaster Management and Planning for Emergency Physicians*. Federal Emergency Management Agency, 1983
- 1983 **Aghababian RV**, Shea DJ: *Efficacy of Abdominal and Pelvic Ultrasound in the Emergency Department*. Ann Emerg Med, 1983; 13:311-316
- 1980 **Aghababian RV**, Conte JE: *Mammalian Bite Wounds* Ann Emerg Med, 1980; 9:78-83

TEXTBOOKS

- 2001 *International Emergency Medicine*

- Kristin E. Harkin, et al – Editors in Chief
EMERGENCY MEDICINE. THE MEDICAL STUDENT SURVIVAL GUIDE
 EMRA – 2001
- 2001 *Definition, Classification, and Pathophysiology of Acute Coronary Ischemic Syndromes*
 William J. Brady, Jr., MD, Richard A. Harrigan, MD – Guest Editors
EMERGENCY MEDICINE CLINICS OF NORTH AMERICA
 W.B. Saunders Company, Vol. 19, No. 2, May 2001
- 1997 *Marketing and Outreach*
 Richard F. Salluzzo, et al – Editors in Chief
EMERGENCY DEPARTMENT MANAGEMENT
 C.B. Mosby – Year Book, Inc., 1997
- 1994 *Early Emergency Department Diagnosis of Acute Myocardial Infarction*
 W. Brian Gibler, M.D., Tom P. Aufderheide, MD - Editors
EMERGENCY CARDIAC CARE, Mosby Year Book, Inc., 1994
- 1992 *Utilization of Emergency Services*
 George R. Schwartz, M.D. - Editor
PRINCIPLES AND PRACTICE OF EMERGENCY MEDICINE, 3rd Edition, Lea & Febiger, May 1992
- 1992 *Radiology of Acute Chest Pain*
 P. Rosen - Editor
RADIOLOGY FOR THE EMERGENCY PHYSICIAN
 C.V. Mosby, January 1992
- 1991 *Human Bite Wounds*
 Harwood-Nuss - Editor
CLINICAL PRACTICE OF EMERGENCY MEDICINE,
 J.B.Lippincott Co., January 1991

TEXTBOOKS, EDITING AND CHAPTER AUTHORSHIP

- Editor* REVIEWS IN CARDIOVASCULAR MEDICINE Vol 3, Sup 4 .2002
 “Acutely Decompensated Heart Failure”
- Editor in Chief* EMERGENCY MEDICINE: The Core Curriculum
 Lippincott-Raven 1998 - Second Edition currently being prepared (due 2004)
- Editor* EMERGENCY MANAGEMENT OF CARDIOVASCULAR DISEASE
 Butterworth-Heinemann 1994
- Section Editor* HANDBOOK OF TOXICOLOGY (P. Viccellio - Editor): Drugs of Abuse (1992)
 Little Brown
 Chapter Authored: Sedative and Hypnotic Drugs
- Associate Editor* EMERGENCY MEDICINE
 January 1992 Little Brow
 Chapter Authored:
 Post Resuscitation Care
 Acute Back Pain
 Elderly Patient
 Alcoholic Patient

MONOGRAPHS

Faculty

RECOGNITION AND MANAGEMENT OF NURSING HOME-ACQUIRED PNEUMONIA
The UPMC Health System Center for Continuing Education in Health Sciences, 2003

Editorial Advisory Board

NEW DIRECTIONS IN COMMUNITY ACQUIRED RESPIRATORY TRACT INFECTION
Intermed Press, 2002

JOURNAL REVIEWER

Academic Emergency Medicine
European Journal of Emergency Medicine

HONORS AND AWARDS

- 2003 American Red Cross of Central Massachusetts "Everyday Hero" Award
Worcester, MA
- 2001 Dr. A. Jane Fitzpatrick Community Service Award
Worcester District Medical Society
- 2000 Order of the International Federation of Emergency Medicine
8th International Conference on Emergency Medicine
Boston, MA
- 1984 Vanguard Award
Massachusetts ACEP

PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

- 2004 *Initial Management of STEMI*
Society for Chest Pain Center
Chicago, Ill
- 2003 *Management of ACS in the Emergency Department*
University of New Hampshire
Durham, New Hampshire

- 2003 *Severe Sepsis A Vicious Cycle of Inflammation and Coagulopathy*
ACEP Annual Meeting
Boston, MA
- 2003 *Initial Management of ACS Patients*
ACEP Annual Meeting
Boston, MA
- 2003 *Lessons Learned from the SARS Epidemic*
Society for Airway Management Annual Meeting
Miami Beach, Florida
- 2003 *Lessons Learned from Recent Disasters*
UMMHC/Memorial Campus-Grand Rounds
Worcester, MA
- 2003 *Lessons Learned from Recent Disasters*
Armenian American Medical Association Meeting
Yereven, Armenia
- 2003 *Emergency Management of Acutely Decompensated Heart Failure*
Eastern Virginia Medical School/Emergency Medicine Grand Rounds
- 2003 *Leadership and Vision*
AACEM (Association of Academic Chairs in Emergency Medicine)
Boston, MA
- 2003 *Lessons Learned in Recent Disaster Responses*
Trauma 2003 Fort Worth Conference
Fort Worth, Texas
- 2003 *International Disasters*
Connecticut College of Emergency Physicians
8th Annual CCEP Spring Symposium
Ledyard, Connecticut
- 2003 *A New Standard of Care in Acute Coronary Syndromes*
Lehigh Valley Hospital (Strive)
Allentown, PA
- 2003 *Lessons Learned from Recent Disaster*
MA-2 DMAT Responses to NYC
Japan Association for Disaster Medicine
Tokyo, Japan
- 2002 *An Overview of Disaster Medicine: What Have We Learned From Recent Events*
Misericordia Hospital's Gordon Reid MacDonald Lecture for 2002
Edmonton Alberta, Canada
- 2002 *Recent Advances in the Management of Cardiac Arrest*
International Visiting Professor Address
100th Anniversary of the Andrea's Josa Hospital
Debrecca Medical School
Nyiregyhaza Hungary

- 2002 *Emergency Department Management of Patients with Acute Coronary Syndrome*
Michigan Chapter of ACEP
- 2002 *Cardiopulmonary Resuscitation*
Plaza de la Salud
Santa Domingo, Dominican Republic
- 2002 *Medical Response to Terrorism: A Practitioner's Primer - Program Director*
Case Studies in Bioterrorism – Lecture topic
Massachusetts Medical Society
Waltham, MA
- 2001 *Emergency Management of Acute Coronary Syndrome*
22nd Annual Conference: Current Concepts in Emergency Medicine
Washington State Chapter ACEP
- 2001 *Progress in the Development of Emergency Medicine in Armenia*
8th Armenian Medical World Congress
Toronto, Ontario, Canada
- 2001 *Current Concepts in the Management of Cardiac Arrest*
California ACEP Committee Meeting
Santa Clara, CA
- 2001 *Current Concepts in the Management of Cardiac Arrest*
Illinois ACEP Annual Meeting
Oakbrook, IL
- 2001 *Evaluation of a CME Program Using Pre and Post-Test and Six Month Follow-up*
Alliance for Continuing Medical Education 26th Annual Conference
San Francisco, CA
- 2000 *Predicting the Consequences of Major Disasters*
5th Asia-Pacific Conference on Disaster Medicine
Vancouver, British Columbia, Canada
- 2000 *Online Disaster Management*
8th International Conference on Emergency Medicine
Boston, MA
- 1999 *Coordination of Airway Management in Mass Casualty*
Society for Airway Management Annual Meeting
New Orleans, LA
- 1999 *Vulnerability of Hospitals to Disaster*
International Conference on Emergency Medicine
Amsterdam, Netherlands
- 1999 *Developing Academic Emergency Medicine in Hungary*
Lessons from the University of Massachusetts Experience
Ministry of Health, Hungary
Budapest, Hungary
- 1999 *Assessing Cardiovascular Risk Factors*
American Association of Women in Emergency Medicine
Boston, MA
- 1999 *Training Emergency Physicians in Disaster Medicine*

World Association for Disaster and Emergency Medicine
Chairperson for Scientific Session:
Osaka, Japan

- 1999 *Pediatric Disaster Life Support*
Florida Emergency Medicine Foundation Meeting
St. Petersburg, Florida
- 1998 *Caring for Children During Disasters*
University of Massachusetts Medical School
Office of Continuing Medical Education
Shrewsbury, Massachusetts
- 1998 *Stress Amongst Disaster Medical Responders*
The Hungarian American Medical Society
Sarasota, Florida
- 1998 *Disaster Response*
The Danish Emergency Medical System
Sponsored by the Danish Parliament
Copenhagen, Denmark
- 1998 *Resuscitation Efforts During Disaster Response*
The 4th Asia-Pacific Conference on Disaster Medicine
Sapporo, Japan
- 1998 *Field Trial of the Oxylator EM-100 in the Prehospital Setting*
European Resuscitation Council
Poster Presentation
Resuscitation 98
Copenhagen, Denmark
- 1998 *Disaster Medicine for Emergency Physicians*
Lehigh Valley Hospital
Department of Emergency Medicine
Bethlehem, Pennsylvania
- 1998 *When the Hospital is the Disaster Site*
First European Council on Emergency Medicine
San Marino, Italy
- 1998 *Disaster Medical Care: The Emergency Medicine Perspective*
University of Pittsburgh
Department of Emergency Medicine Grand Rounds
Pittsburgh, Pennsylvania
- 1998 Section Chair for Disaster Medicine and International Emergency Medicine
Seventh International Conference on Emergency Medicine
Vancouver, B.C., Canada
- 1998 *Childrens Emergencies in Disasters*
The National Congress on Childhood Emergencies
Washington, DC
- 1998 *The Evolution of Emergency Medicine in the U S and Israel*
Israel Association for Emergency Medicine Annual Meeting

Jerusalem, Israel

- 1998 *Emergency Department Management of Acute Stroke*
Indiana ACEP Annual Meeting
Indianapolis, Indiana
- 1998 *Model Disaster Training Curriculum*
Childrens' Emergencies in Disaster: A National EMS-C Workshop
Orlando, Florida
- 1998 Risk Management, Emergency Medicine Perspective
Predicting Injuries Associated with Natural and Manmade Disasters
Royal College of Surgeons of Ireland-Charter Day Meeting
Dublin, Ireland
- 1998 Management of Radiation Disasters
AIHA Emergency Medicine Training Center
Moscow, Russia

CD-ROM

- 2002 – December *Acute Coronary Syndrome: A New Paradigm For Emergency Management*
American College of Emergency Physicians,
- Training for Radiation Emergency Preparedness and Response*
International Atomic Energy Agency

EXTRAMURAL GRANTS

- 2004-2005 FUJISAWA, SCIOS, BIOSITE, GLAXO-SMITH CLINE LABS, AVENTIS
The Management of Cardiac Emergency
- 2003 – 2004 SCIOS UNRESTRICTED EDUCATIONAL GRANT
Advances in the Management of Acute Heart Failure
- 2001– 2003 AVENTIS PHARMACEUTICALS
Initial Management of Community-Acquired Pneumonia
Supported by an unrestricted educational grant
- 2000 – 2002 WYETH AYERST PHARMACEUTICALS/BRISTOL-MEYERS/SCIENTIFIC
PARTNERSHIP/SCIOS, INC/FUJISAWA INC
Program Director
The Management of Acute Coronary Syndromes, 2000
Unrestricted educational grants to UMMS for the development and implementation of
State of the Art CME programs
- 1998 – 1999 THE EMERGENCY MEDICINE FOUNDATION
Innovation in Medical Education Grant
Physical Diagnosis Training in the Emergency Department
Amber Crowley, UMMS Medical Student and RV Aghababian, MD
- 1997 – 2001 INTERNATIONAL ATOMIC ENERGY COMMISSION
Co-Principle Investigator with E. Hirsh, MD, Dept. of Surgery, Boston University
Medical Education and Inter-Regional Harmonization Program
For Nuclear Accident Preparedness

1996 – 1999

U.S. HEALTH RESOURCES & SERVICES ADMINISTRATION
Principle Investigator
Medical Care of Children During Disaster