

CURRICULUM VITAE of PRINCIPLE INVESTIGATOR

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BIRTHPLACE: Chicago, Illinois

EDUCATION:

University of Illinois, Champaign-Urbana, Illinois, B.S., 1975

University of Health Sciences / The Chicago Medical School, North Chicago, Illinois. M.D., 1981.

University of Illinois Affiliated Hospitals Residency in Emergency Medicine, 1981-84.

LICENSURE AND CERTIFICATION:

Basic Life Support Rescuer Course, 1980.

Provider, Advanced Cardiac Life Support, American Heart Association, 1981.

State of Illinois License #036-064588, 1982 to present.

Diplomat, National Board of Medical Examiners, 1982.

Instructor, Advanced Cardiac Life Support, American Heart Association, 1982.

Instructor, Basic Life Support, American Heart Association, 1982.

Diplomat, American Board of Emergency Medicine, 1985; Certificate # 841132. Rectified 1996.

Instructor, Advanced Trauma Life Support, American College of Surgeons, October 1986,
Numerous Courses.

Provider, Advanced Trauma Life Support, American College of Surgeons, April 1986.

Instructor, Basic Trauma Life Support, American College of Emergency Physicians, February 1986.
Numerous Courses.

Fellow, American College of Emergency Physicians, October 1987. Re-elected 1997.

Affiliate Faculty, Basic Trauma Life Support, Illinois Chapter American College of Emergency
Physicians, August 1988.

Instructor, Advanced Pediatric Life Support, American College of Emergency Physicians and
American Academy of Pediatrics, 1988, Numerous Courses.

Provider, Neonatal Advanced Life Support, American Academy of Pediatrics and American Heart
Association, April 1993.

Instructor, Neonatal Advanced Life Support, American Academy of Pediatrics and American Heart
Association, April 1993.

HOSPITAL APPOINTMENTS:

Staff Physician, Emergency Medicine, Lutheran General Hospital, Park Ridge, Illinois, 1983 to
1987.

Staff Physician, Emergency Medicine, Illinois Masonic Medical Center, Chicago, Illinois, 1984 to
1987.

Staff Physician, Emergency Medicine, Mercy Hospital and Medical Center, Chicago, Illinois, 1984
to 1987.

Staff Physician, Glendale Heights Community Hospital, Glendale Heights, Illinois, 1984 to 1987.

Associate Medical Director, Emergency Department, Saint Mary of Nazareth Hospital Center,
Chicago, Illinois, April 1985 to August 1987.

Attending Physician, Section of Emergency Medicine, Department of Medicine, University of Chicago, and August 1987 to present.

ACADEMIC APPOINTMENTS:

Clinical Instructor, Division of Emergency Medicine, Department of Surgery, University of Illinois, 1984 to 1987.

Assistant Professor of Clinical Medicine, Section of Emergency Medicine, Department of Medicine, Pritzker School of Medicine, University of Chicago, August 1987 to June 1994.

Associate Professor of Clinical Medicine, Section of Emergency Medicine, Department of Medicine, Pritzker School of Medicine, University of Chicago, July 1994 to present.

Professor of Clinical Medicine, Section of Emergency Medicine, Department of Medicine, Pritzker School of Medicine, University of Chicago, July 2004 to present.

AWARDS AND HONORS:

Chief Resident, University of Illinois Emergency Medicine Residency, Illinois Masonic Medical Center, 1983.

1997 AAMS Barbara Hess Award (recognizes an individual who through his/her research and/or educational efforts has significantly contributed to the enhancement, development and/or promotion of the air medical industry); Air Medical Transport Conference; October 1997.

Air Medical Physician Association Distinguished Physician Award, 2000 (recognizes a physician who has contributed extensively to the specialty of air medical transport); Air Medical Transport Conference; October 2000.

2002 AMPA President's Award (for leadership and vision in the development of '*A Safety Review and Risk Assessment in Air Medical Transport*'). AMPA Pre-conference to the Air Medical Transport Conference, Kansas City, Kansas. November 2002.

2004 Association of Air Medical Services Jim Charlson Award (recognizes an individual who has made significant contributions to the overall enhancement, development or promotion of aviation and aviation safety within the air medical transport community); Air Medical Transport Conference; Cincinnati, OH, October 2004.

COMMITTEES, ADVISORY BOARDS

Member, Resident Selection Committee, University of Illinois Emergency Medicine Residency, 1983.

Co-director, Pre-Hospital Care/Telemetry Management Course. Combined course for the University of Illinois Emergency Medicine Residency and Northwestern University Emergency Medicine Residency, July 1983.

Co-director, Advanced Cardiac Life Support Course, Lutheran General Hospital, September 1983.

Reviewer, Journal of the American Medical Association, 1986.

Course Director, Basic Trauma Life Support Course, 1986-1990, Numerous courses.

Advisory Board, Emergency: The Journal of Emergency Services, Hare Publications, Carlsbad California, 1987 to 1996.

Reviewer, JEMS Publishing Company, Book Division. Carlsbad, California. 1990 to 1996.

Review Board, JEMS: Journal of Emergency Medical Services, JEMS Communications, Carlsbad, California, 1992 to 1997.

Medical Advisor / Consultant, "ER". Warner Brothers Television. Burbank, CA, 1994 to 2004.

Reviewer, Emergency Medicine Editorial Review Group, Doody's Health Sciences Book Review Journal, Doody Publishing, Inc., Oak Park, Illinois, 1993 to 1999, 2003.

Task Force, Illinois Disaster and Emergency Management Aviation Support Plan. State of Illinois, 1993 to 1997 and 2002 to present.

Journal Reviewer, AirMed, JEMS Communications, Carlsbad, California then Mosby, St. Louis, MO, 1994 to 2001.

Journal Reviewer, Air Medical Journal, JEMS Communications, Carlsbad, California then Mosby, St. Louis, MO, 1994 to 2001 and 2003.

Consultant, American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Second Edition, Section on Transport Medicine, Elk Grove Village, IL; 1997-99.

Consultant, American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Third Edition, Section on Transport Medicine, Elk Grove Village, IL; 2003-2004.

PROFESSIONAL ORGANIZATIONS:

American College of Emergency Physicians, 1981 to present.

Emergency Medicine Residents' Association, 1981 to 1984.

Emergency Medicine Residents of Illinois, 1983 to 1984.

National Association of EMS Physicians, 1991 to 1994.

Air Medical Physician Association, Founding Member, 1992 to present.

Chicago Committee on Trauma of the American College of Surgeons, July 1993 to present.

AIR MEDICAL TRANSPORT EXPERIENCE:

Appointments

Associate Medical Director, MedStar, Saint Mary of Nazareth Hospital Center, Chicago, Illinois, April 1985 to June 1986.

Medical Director, MedStar, Saint Mary of Nazareth Hospital Center, Chicago, Illinois, June 1986 to April 1987.

Medical Director and Program Director, University of Chicago Aeromedical Network (UCAN), University of Chicago Hospitals, August 1987 to present.

Committees and Advisory Boards

Program Member, Association of Air Medical Services (AAMS), formerly the American Society of Hospital Based Emergency Air Medical Services (ASHBEAMS), 1985 to 1999 and 2002-2003.

Consultant, Jet Med International, Air Medical Transport Service, Chicago, Illinois, 1986 to 1988.

Member, AAMS Safety Committee, 1986 to 1993.

Affiliate Member, National Flight Nurse Association, 1986 to 1989.

Member, AAMS Medical Advisory Committee, 1987 to 1992.

Member / Reviewer, AAMS Scientific Paper / Abstract Committee, 1987, 1991, 1992.

Midwest Regional Medical Advisor, MedAire Inc., Phoenix, Arizona, 1987 to 1996.

Central Regional Director, Board of Directors, Association of Air Medical Services, 1988 to 1989.

Medical Advisor, Illinois Chapter, Association of Air Medical Services (Illinois AAMS), 1990 to 1995.

Board of Directors, Illinois Chapter, Association of Air Medical Services (Illinois AAMS), 1990 to 1996.

Site Surveyor, Commission on Accreditation of Air Medical Transport Systems (formerly the Commission on Accreditation of Air Medical Services), Anderson, South Carolina, July 1991 to 2002.

Member-at-Large, Board of Directors, Air Medical Physician Association, 1992 to 1994.

President-elect, Air Medical Physician Association (AMPA), 1994 to 1996.

Chairman, Forum of Air Medical Associations, 1995-1997.

Conference Director, Third Annual Clinical Care Conference, The Care of the Critically Ill and Injured; Air Medical Physician Association, National Flight Nurses Association, National Flight Paramedics Association; Alexandria, Virginia; April 1995.

President, Air Medical Physician Association (AMPA), 1996 to 1998.

Task Force, Medical Director Core Curriculum; Air Medical Physician Association, Salt Lake City, Utah, 2003 to present.

Conference Co-Director. Medical Director Core Curriculum Part III; Air Medical Physician Association Pre-Conference; Air Medical Transport Conference; Cincinnati, Ohio. October 2004.

PUBLICATIONS:

Original Peer Reviewed Articles

1. Gordon RS, O'Dell KB, Low RB, and Blumen IJ. Activity Sensing Permanent Internal Pacemaker Dysfunction During Aeromedical Transport. *Annals of Emergency Medicine*; November 1990; 19:11; 1260-1263.
2. Low RB, Dunne MJ, Tagney G and Blumen IJ. Factors Associated with the Operational Safety of Aeromedical Helicopters. *American Journal of Emergency Medicine*, March 1991.
3. Rinnert KJ, Blumen, IJ et al. A Descriptive Analysis of Air Medical Directors in the United States. *Air Medical Journal*, January-March 1999.
4. Thomas F. and Blumen I. Assessing Oxygenation in the Transport Environment. *Air Medical Journal*, April-June 1999.

Original Non-peer Reviewed Articles

1. Blumen IJ and Tressa J. Transporting the Critical Care Child. *Emergency: The Journal of Emergency Services*; December 1990; 22:12; 36-39, 58.
2. Blumen, IJ. Rising to the Challenge: A UCAN Tradition. *AirMed*, July 1997.

Book Chapters and Textbooks

1. Blumen IJ, Abernethy MK, and Dunne MJ. Flight Physiology, Clinical Considerations. In Hageman JR and Fetcho S (ed): *Critical Care Clinics, Transport of the Critically Ill*. Philadelphia, W.B. Saunders, July 1992.
2. Rodenberg H, and Blumen IJ (ed). *Air Medical Physicians' Handbook*. Salt Lake City, Air Medical Physician Association, October 1993.
3. Blumen IJ. Altitude and Flight Physiology: A Reference for Air Medical Physicians. In Rodenberg H, and Blumen IJ (ed): *Air Medical Physicians' Handbook*. Salt Lake City, Air Medical Physician Association, October 1993.
4. Blumen IJ (ed). *The UCAN Medical Crew Reference Manual*. Chicago, Illinois, University of Chicago Aeromedical Network, May 1994.
5. Blumen IJ, Fenner GF, and Arensman RM. Stabilization and Transport of the Pediatric Trauma Patient. In Arensman RM, et al (ed): *Textbook in Pediatric Surgery*. Raven Publications, 1995.
6. Blumen IJ and Rodenberg, H. Interfacility Transport. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): *Pediatric Emergency Medicine: A Comprehensive Study Guide*. McGraw-Hill, 1996.
7. Blumen IJ and Arai D. Radiation Emergencies. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): *Pediatric Emergency Medicine: A Comprehensive Study Guide*. McGraw-Hill, 1996.
8. Blumen, IJ and Leinen J. High Altitude Illness and Dysbarisms. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): *Pediatric Emergency Medicine: A Comprehensive Study Guide*. McGraw-Hill, 1996.
9. Blumen IJ, and Rodenberg H (ed). *Air Medical Physicians' Handbook, Second Edition*. Salt Lake City, Air Medical Physician Association, December 1996.

10. Rodenberg H and Blumen IJ. Aeromedical Transport and In-Flight Medical Emergencies. In Rosen P, et al (ed); Emergency Medicine, Concepts and Clinical Practice, Fourth Edition, 1998. Mosby-Yearbook.
11. Blumen, IJ. Altitude Physiology and the Stresses of Flight; Guidelines for Air and Ground Transport of Neonatal and Pediatric Patients, American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Section on Transport Medicine; Elk Grove Village, IL, 1999.
12. Blumen, IJ. Vehicle Selection. Guidelines for Air and Ground Transport of Neonatal and Pediatric Patients, American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Section on Transport Medicine, Elk Grove Village, IL, 1999.
13. Blumen IJ, and Rodenberg H (ed). Air Medical Physicians' Handbook, Third Edition. Salt Lake City, Air Medical Physician Association, October 1999.
14. Blumen, IJ, et al. "A Safety Review and Risk Assessment in Air Medical Transport." Air Medical Physicians' Handbook, Air Medical Physician Association, Salt Lake City, 2002. (Also available for download at www.ampa.org or www.flightweb.com)
15. Blumen, IJ, Coto J, Maddow CJ, Casner M, Felty C, Arndt A. "Executive Summary: A Safety Review and Risk Assessment in Air Medical Transport." Air Medical Physicians' Handbook, Air Medical Physician Association, Salt Lake City, 2002.
16. Blumen IJ, Rodenberg H and Abramo, TJ. Interfacility Transport. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): Pediatric Emergency Medicine: A Comprehensive Study Guide, Second Edition. McGraw-Hill, 2002.
17. Blumen IJ. Radiation Emergencies. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): Pediatric Emergency Medicine: A Comprehensive Study Guide, Second Edition. McGraw-Hill, 2002.
18. Blumen, IJ. High Altitude Illness and Dysbaric Injuries. In Strange G, Ahrens W, Lelyveld S and Schafermeyer R (ed): Pediatric Emergency Medicine: A Comprehensive Study Guide, Second Edition. McGraw-Hill, 2002.
19. Blumen IJ and Rodenberg H. Air Medical Transport. In Marx JA, et al (ed); Rosen's Emergency Medicine, Concepts and Clinical Practice, Fifth Edition. Mosby, 2002.

20. Blumen IJ and Thomas F. Medical Direction. In Arndt, K (ed): Standards for Critical Care and Specialty Rotor-wing Transport. Air & Surface Transport Nurses Association, Denver, CO, 2003.
21. Schneider-Eastlee C and Blumen IJ. Quality Assurance And Utilization Review. In: Guidelines for Air Medical Crew Education. Consortium Publication by AAMS, AMPA, ASTNA, and NFPA, Alexandria, Virginia, 2003.
22. Strange GR, Blumen IJ, Dobiesz VA. Radiation Emergencies. In Strange G, Ahrens W, McQuillen K et al (ed): Pediatric Emergency Medicine: Just the Facts. McGraw-Hill, 2004.
23. Blumen, IJ, Strange GR, Prendergast HM. High Altitude Illness and Dysbaric Injuries. In Strange G, Ahrens W, McQuillen K et al (ed): Pediatric Emergency Medicine: Just the Facts. McGraw-Hill, 2004.
24. Blumen IJ, Rodenberg H, Abramo, TJ, Strange GR and Prendergast HM. Interfacility Transport. In Strange G, Ahrens W, McQuillen K et al (ed): Pediatric Emergency Medicine: Just the Facts. McGraw-Hill, 2004.

Abstracts

1. Low RB, Dunne MJ, Tagney G and Blumen IJ. Factors Influencing the Operational Safety of Aeromedical Helicopters. *Ann Emerg Med*; April 1989; 18:4.
2. Low RB, Dunne MJ, Tagney G and Blumen IJ. Factors Influencing the Operational Safety of Aeromedical Helicopters. *Society of Academic Emergency Medicine. Annual Scientific Assembly*, May 1989. Poster Presentation.
3. Low RB, Dunne MJ, Tagney G and Blumen IJ. Operational Safety of Aeromedical Helicopters: An Epidemiological Study. *Journal of Air Medical Transport*; October 1989; 8:9.
4. Low RB, Dunne MJ, Tagney G and Blumen IJ. Operational Safety of Aeromedical Helicopters: An Epidemiological Study. *Association of Air Medical Services. Annual Conference*, November 1989.
5. Low, RB, Dunne, MJ, Carney M, and Blumen IJ. The Operational Safety of North American EMS Helicopters; An Updated Epidemiologic Study. Poster Presentation. *Aerospace Medicine Association. Annual Meeting*, May 1990.
6. Low RB, Dunne MJ, Carney M, Blumen IJ and Tagney G. The Operational Safety of Aeromedical Helicopters. *Aviation Space and Environmental Medicine*. May 1990.

7. Thomas, F., et al. Air Medical Physicians Concerns. *Journal of Air Medical Transport*; October 1992; 11:10.
8. Schneider C, Blumen I, and Dries D. Air Medical Practice in the Era of Healthcare Reform. *Air Medical Journal*, October 1994.
9. Schneider C, Blumen I, and Dries D. Air Medical Practice in the Era of Healthcare Reform.. 15th Annual Air Medical Transport Conference, Scientific Session, oral presentation, Detroit Michigan, October 1994.
10. Hallock RJ, Blumen IJ, Callejas SF, Lemkin DL and the UCAN Safety Committee. *Helicopter Emergency Medical Service Accidents and Incidents 1998-2000*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.
11. Hallock RJ, Blumen IJ, Lemkin DL, Callejas SF and the UCAN Safety Committee. *A Comparison of Occupational Risk for Helicopter Emergency Medical Services*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.
12. Lemkin DL, Blumen IJ, Callejas S, Hallock RJ and the UCAN Safety Committee. *Helicopter EMS Accident Rates: A Quantitative Analysis of Available Data*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.
13. Lemkin DL, Blumen IJ, Hallock RJ, Callejas S and the UCAN Safety Committee. *Helicopter EMS: A Quantitative Comparison of Risk with Other Forms of Aviation*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.
14. Callejas SF, Blumen IJ, Hallock RJ, and Lemkin DL and the UCAN Safety Committee. *A Comparison of Fatality Rates in Helicopter EMS and Other Leading Causes of Death in the United States*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.
15. Callejas SF, Blumen IJ, Lemkin, DL, and Hallock RJ and the UCAN Safety Committee. *A Comparison of Injury and Fatality Rates Between Helicopter EMS and Daily and Recreational Activities*. Poster presentation at the Critical Care Transport Medicine Conference; Las Vegas, Nevada; April 2002.

Review Articles

1. Blumen IJ and Gordon RS. Taking to the Skies. *Emergency: The Journal of Emergency Services*; November 1989; 21:11; 32-38.

2. Blumen IJ. A Part of the System. (Guest Editorial) *Emergency: The Journal of Emergency Services*. November 1989; 21:11; 8.
3. Blumen IJ. Air Medicine, Hanging in the Balance. (Guest Editorial) *Emergency: The Journal of Emergency Services*. July 1992; 24:7; 7.
4. Blumen IJ. *Literature Review of Guidelines For Integrating Helicopter Assets into Emergency Planning*. *Emergency: The Journal of Emergency Services*. July 1992; 24:7; 59-61.
5. Blumen IJ and Dunne MJ. Altitude and Flight Physiology. *Emergency: The Journal of Emergency Services*; December 1992; 24:7; 36-43.
6. Blumen IJ and Rinnert K. Altitude Physiology and the Stresses of Flight. *Air Medical Journal*. Vol 14, No.2. April-June 1995.

Manuscripts Accepted or In Press

1. Blumen IJ, Thomas F, and Williams D. Critical Care Transport. In Hall J and Schmidt GA (ed): *Principles of Critical Care, Third Edition*. McGraw-Hill.
2. Rodenberg H and Blumen IJ. Air Medical Transport. In Marx JA, et al (ed); *Rosen's Emergency Medicine, Concepts and Clinical Practice, Sixth Edition*. Mosby.
3. Blumen IJ and Dunne MJ. Altitude Physiology and the Stresses of Flight. In York D (ed): *ASTNA Core Curriculum for Flight and Ground Transport Nursing*; Air & Surface Transport Nurses Association, Denver, CO.
4. Blumen, IJ. Transport Physiology and the Stresses of Flight; Guidelines for Air and Ground Transport of Neonatal and Pediatric Patients, Third Edition. American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Section on Transport Medicine; Elk Grove Village, IL.
5. Blumen, IJ. Vehicle Selection. Guidelines for Air and Ground Transport of Neonatal and Pediatric Patients, Third Edition. American Academy of Pediatrics, Subcommittee for Revision of Interhospital Transport Guidelines, Section on Transport Medicine, Elk Grove Village, IL.

Manuscripts in Preparations

1. Blumen IJ and Thomas F. Advanced Guideline in Emergency Care and Transport. MedGuide Solutions, Salt Lake City, UT.

2. Blumen IJ, Doyle TJ and Robinson K (ed). Air Medical Physicians' Handbook, Fourth Edition. Air Medical Physician Association, Salt Lake City, UT.

INVITED PRESENTATIONS AND LECTURES:

- "To Air Is Human: Helicopters and Emergency Medicine" Grand Rounds Presentation, University of Illinois Emergency Medicine Residency, December 1983 and 1986.
- "Current Controversies in EMS: Aeromedical Transport Teams". Saint Mary of Nazareth Hospital Center, Chicago, Illinois, September 1985.
- "Aeromedical Safety", Lectures to Chicago Area Fire Departments and Hospital Emergency Personnel. Numerous presentations, 1985 to present.
- "Aeromedical Transportation: Past, Present, and Future." Lectures to hospital personnel and EMS providers. Numerous presentations, 1985 to 1998.
- "Aeromedical Transport in the United States". Partners of Americas--EMS Representatives from Brazil, June 1986.
- "Will Your Aeromedical Program Survive the 1980's?" 8th Annual ASHBEAMS/NFNA Conference, Milwaukee, Wisconsin, October 1987.
- "Why HEMS Programs Fail: A Model to Avoid," Helicopter Association International Conference, Anaheim, California, January 1988.
- "Helicopter Transport of the Critical Trauma Patient", Cook County Graduate School of Medicine, Trauma Nursing Conference, Chicago, Illinois, April 1988.
- "Introduction to Air Medical Services"; Grand Rounds, Emergency Medicine Residency, Christ Hospital, Oak Lawn, Illinois; June 1989.
- "Administrative Issues in Air Medical Transport"; Grand Rounds, Emergency Medicine Residency, Christ Hospital, Oak Lawn, Illinois; October 1989.
- "Altitude and Flight Physiology";
- Emergency Medicine Residency and the University of Chicago Aeromedical Network, University of Chicago Hospitals; 1990, 1991, 1992, 1993, 1994, 1996.
- Loyola University Medical Center, Loyola LifeStar Aeromedical Transport Service; Maywood, Illinois; 1990, 1995.
- Childrens' Memorial Hospital, Transport Team; Chicago, Illinois; January 1991, 1993, 1995.

"Current Trends in Altitude and Flight Physiology"; Little People, Big Problems, hosted by Childrens' Memorial Hospital; Chicago, Illinois; October 1992.

Care of the Critically Ill and Injured; Air Medical Physician Association, National Flight Nurses Association, National Flight Paramedics Association; Arlington, Virginia; May 1994.

Current Concepts in Transport; Salt Lake City, Utah; March 1995 and March 1996.

ADAC World Congress -- AIRMED 1996; Munich, Germany; June 1996.

"Helicopter EMS"; Grand Rounds, Emergency Medicine Residency, Cook County Hospital, Chicago, Illinois; June 1990.

"Helicopter Transport of the Critical Trauma Patient"; Air Rescue Symposium, Beaumont, Texas; September 1990.

"Air Medical Transport and EMS in the 90's"; Air Rescue Symposium, Beaumont, Texas; September 1990.

"Appropriate Decision Making in Pediatric Transport"; Current Topics in Pediatric Emergency Management; University of Chicago Hospitals; Chicago, Illinois; April 1991.

"Helicopter Transport of the Trauma Patient"; Acute Spinal Cord Injury From the Field Through Rehab; Central DuPage Community Hospital; Winfield, Illinois; June 1991.

"Crew Configuration in Helicopter EMS"; ClinCon '91--Florida Foundation of Emergency Medical Services; Orlando, Florida; July 1991.

"Air Medical Transport of the Electrical Trauma Patient"; Electrical Trauma Workshops *sponsored by* The University of Chicago Hospitals, Department of Surgery; multiple presentations, 1991 to 1993.

"Components of an Air Medical System"; Medical Director's Workshop, Conference on Air Medical Transport; Tampa, Florida; October 1991.

"Medical Directors' Priorities in Air Medical Transport"; Air Medical Directors' Leadership Conference; Salt Lake City, Utah; April 1992.

"Components of an Air Medical System"; Medical Director's Basic Workshop, Conference on Air Medical Transport; Salt Lake City, Utah; October 1992.

"Clinical and Didactic Training Standards"; Directions of Critical Care for Air Medical Transport; Air Medical Physician Association in conjunction with The National Association of EMS Physicians, 1993 Winter Meeting; Naples, Florida; January 1993.

"Management Skills and Administrative Role of the Air Medical Director"; Congress of Air Medical Transport: The Role of the Physician; Salt Lake City, Utah; May 1993.

"Financial Considerations: Minimal Requirements and Criteria for the Air Medical Director"; Congress of Air Medical Transport: The Role of the Physician; Salt Lake City, Utah; May 1993.

"Role of the Medical Director". Current Concepts in Transport; Salt Lake City, Utah; March 1994, March 1995, March 1996, February 1997.

"COBRA: Understanding and Complying with the Law".

Current Concepts in Transport; Salt Lake City, Utah; March 1994, March 1995, March 1996, February 1997.

Emergency Nurses Association, Illinois Chapter; Schaumburg, Illinois; April 1994.

Grand Rounds; University of Chicago Emergency Medicine Residency; April 1994, April 1995.

Combined Trauma Conference; University of Chicago Surgical Residency; April 1996

Medical Staff Grand Rounds Presentation; LaGrange Memorial Hospital; LaGrange Illinois; June 1996.

Medical Staff and Residency Grand Rounds, Department of Orthopedics, University of Chicago, February 1997 and August 1998.

"Integration of Helicopters into Disaster Planning"

Medical Helicopters -- Disaster Utilization and Integration; Illinois AAMS; Buffalo Grove, Illinois; September 1994.

Third Annual Clinical Care Conference, The Care of the Critically Ill and Injured; AMPA, NFNA, NFPA; Alexandria, Virginia; April 1995.

"Disaster Medicine Service in Russia: Status, Organization, Outcome and Long-term Development." Moscow, Russia; October 1997.

Air and Ground Medical Transport Crew Survival Course, Illinois AAMS;
Peoria, Illinois, May 1998.

"Pediatric Trauma: The Golden Hour".

Emergency Medicine Update '94; Beaumont, Texas; September 1994.

11th Annual Northwest Indiana EMS Exposition; Valparaiso, Indiana;
November 1994

Directions in Pediatric Emergency Care; Children's Memorial Transport Team
and UCAN/University of Chicago Hospitals; Chicago, Illinois; May 1996.

The Fifth Annual Emergency Medicine and Trauma Awareness Symposium;
University of Tennessee Department of Surgery and Aeromedical Services,
Knoxville, Tennessee; May 1998.

Financial Components of Transport Services; Little People, Big Problems -- Pediatric,
Neonatal and Transport Issues; hosted by Children's Memorial Hospital; Chicago,
Illinois; September 1994.

"Specialty Teams: Do We Need Them". Current Concepts in Transport; Salt Lake City,
Utah; March 1995.

"Appropriate Use of Air Medical Transport";

Grand Rounds Presentation, Combined Emergency Medicine/Internal Medicine
Residency, Long Island Jewish Medical Center; New Hyde Park New York;
June 1995.

Medical Director Preconference, Air Medical Physician Association; 16th
Annual Air Medical Transport Conference; Long Beach, California; October
1995.

ADAC World Congress -- AIRMED 1996; Munich, Germany; June 1996.

International Session; 18th Annual Air Medical Transport Conference;
Cincinnati, Ohio; October 1997.

Region VII AAMS Conference, Charleston, South Carolina; August 1998.

"Air Medical Transport -- Strategies for Survival"; 16th Annual Air Medical Transport
Conference, Long Beach, California; October 1995.

"Transport Physiology";

Current Concepts in Transport, Sponsored by the Center for Pediatric Continuing Education at Primary Childrens Hospitals; Salt Lake City, Utah; February 1997 and 1998.

Emergency Medicine Residency and the University of Chicago Aeromedical Network, University of Chicago Hospitals; 1998, 2000, 2002.

Childrens' Memorial Hospital, Transport Team; Chicago, Illinois; January 1998, 2000, 2002.

"Air Medical Transport Workshop"; 14th Annual EMS Today Conference; Albuquerque, New Mexico; March 1996.

"COBRA: Implication for the Transport Team"; Fourth Annual Clinical Care Conference; Air Medical Physician Association, National Flight Nurses Association, National Flight Paramedics Association; Incline Village, Nevada; March 1996.

"COBRA Regulations: Implications for Transport".

Midwest Transport Conference; Columbia, Missouri; May 1996.

The Fifth Annual Emergency Medicine and Trauma Awareness Symposium; University of Tennessee Department of Surgery and Aeromedical Services, Knoxville, Tennessee; May 1998.

Region VII AAMS Conference, Charleston, South Carolina; August 1998.

"*ER*, Keeping it Real"!; with Joe Sachs, MD, FACEP; 1997 ICEP Annual Meeting; Oak Brook, Illinois; May 1997.

Emergency Medical Systems and Emergency Department Management of the Airway, Evaluation and Management of Airway Emergencies; American College of Surgeons 83rd Annual Clinical Congress; Chicago, Illinois; October 1997.

The Air Medical Transport Environment; Medical Director Preconference, Air Medical Physician Association; 18th Annual Air Medical Transport Conference; Cincinnati, Ohio; October 1997.

Factors that Influence Staffing Options for Transport -- An Interactive Workshop; Current Concepts in Transport; Salt Lake City, Utah; February 1998.

"To AIR is Human: An Aeromedical Vignette. Ground Rounds Presentation, Department of Medicine, University of Chicago, Chicago IL, September, 1998.

Strategic Marketing for Air Medical Transport. Critical Care Transport Medicine Conference; Cocoa Beach, FL; May 1999.

Airway Management in the Transport Environment. Hawaiian Islands Trauma Symposium; Honolulu, Hawaii; July 1999.

Medical-Legal Considerations for the Trauma Physician. Hawaiian Islands Trauma Symposium; Honolulu, Hawaii; July 1999.

Is Specialty Pediatric Critical Care Transport Necessary. Leadership: Evolution, Current status and Planning for the Future. A Neonatal and Pediatric Critical Care Transport Leadership Conference. American Academy of Pediatrics and the AAP Section on Transport Medicine. Chicago, IL; June 2000

Altitude and Transport Physiology. Pediatric Specialty 2000 Conference on Neonatal and Pediatric Critical Care Transport. American Academy of Pediatrics and the AAP Section on Transport Medicine. Chicago, IL; June 2000

“EMTALA – An Open Forum for Discussion, Questions and Answers.” Air Medical Transport Conference, Orlando, Florida. September 2001.

Air Medical Transport. Grand Rounds Presentation, Northwestern University Emergency Medicine Residency Program, Chicago IL, April 2002.

“Safety Review and Risk Assessment in Air Medical Transport.” NAACS Educational Conference. Las Vegas, Nevada. April 2002.

“Relative Risks to Crew Members in Emergency Medical Helicopters.” Aerospace Medical Association 73rd Annual Scientific Meeting, Montreal, Canada. May 2002.

“Medical Transport: What is your Risk?” New England Air Alliance Annual Summer Conference, Biddeford, Maine. June 2002.

“A Safety Review and Risk Assessment in Air Medical Transport.” Keynote Speaker, Section of Air Medical Transport Annual meeting, American College of Emergency Physicians Scientific Assembly, Seattle, Washington. October 2002.

“Air Medical Safety and Risk Assessment: The U.S. Experience.” Grand Rounds Presentation, University of Chicago Emergency Medicine Residency, Chicago, Illinois. October 2002.

“A Safety Review and Risk Assessment in Air Medical Transport.” Air Medical Transport Conference, Kansas City, Kansas. November 2002.

- “Air Medical Transport: What is Your Risk?” 2003 Critical Care Transport Medical Conference, Louisville, KY, April 2003.
- “Helicopter EMS – A Safety Analysis and Determination of Risk” Air Medical Transport Conference; Reno, Nevada. November 2003.
- “Management 101: The Management Role of the Medical Director”. Medical Director Core Curriculum Part I; Air Medical Physician Association Pre-Conference; Air Medical Transport Conference; Reno, Nevada. November 2003.
- “The Safety and Risk of Air Medical Transport”. Key Note Speaker: First Annual Stanford Life Flight Air Medical / Pre-Hospital Symposium; Stanford, CA. August, 2004.
- “Everything You Always Wanted to Know About SEHCS (Safety in Emergency HeliCopter Services)”. Grand Rounds; University of Chicago Emergency Medicine Residency; Chicago, IL; August, 2004.
- “Emergency Response and Safety – Best Practice in Challenging Environments”. Emergency Response Helicopter, 2004; International HeliTrade, Geneva Palexpo; Geneva, Switzerland, October 2004.
- “Program Safety: The Medical Director’s First Priority”. Medical Director Core Curriculum Part III; Air Medical Physician Association Pre-Conference; Air Medical Transport Conference; Cincinnati, Ohio. October 2004.
- “Safety: Evidenced-Based Decision Making”. Association of Air Medical Services; Mid-year Conference; Washington, DC, April, 2005.