STEVE S. KRAMAN, M.D.

Professor of Pulmonary, Critical Care and Sleep Medicine,

Vice Chairman, Department of Internal Medicine

University of Kentucky College of Medicine

# I. Personal Data

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Certifications Year Number

ABIM 1976 #54223

Pulmonary Medicine 1978 #054223

Licensure: State Year Type Number

NY 1974 Perm. #120998 (inactive)

KY 1978 Perm. #19736

# II. Education

1964-1968 B.S. degree University of Puerto Rico, School of Ag. & Mech. Arts

Mayagüez, PR

1969-1973 M.D. degree University of Puerto Rico School of Medicine, San Juan, PR

# III. Professional Experience

1973-1974 Straight Medical Brookdale Hospital

Internship Brooklyn, N.Y.

1974-1976 2 years residency Brookdale Hospital

Internal Medicine Brooklyn, N.Y.

1976-1977 First year pulmonary Queens Hospital Center

fellowship Jamaica, N.Y.

1977-1978 Second year Brookdale Hospital

pulmonary fellowship Brooklyn, N.Y.

## IV. Academic Appointments

7/78-6/84 Assistant Professor University of Kentucky

of Medicine (Full time, Medical Center

Academic tenure track)

7/84-7/90 Associate Professor University of Kentucky

of Medicine (Full time, Medical Center

Academic tenured)

7/90-present Professor of Medicine University of Kentucky

(Full time, Medical Center

Academic tenured)

# V. Hospital Appointments

7/78-present Staff physician Chandler Medical Center

Lexington, KY

7/78-2/85 Staff physician VA Medical Center

Lexington, KY

2/85-10/86 ACOS/Education VA Medical Center

Lexington, KY

4/86-10/86 Acting Chief of Staff VA Medical Center

Lexington, KY

10/86-2/22/03 Chief of Staff VA Medical Center

Lexington, KY

10/14/01-2/14/02 Acting Director VA Medical Center

Lexington, KY

2/23/03-7/27/03 Staff physician VA Medical Center

Lexington, KY

# VI. Consulting-Committee Assignments

Member - Steering Committee of Respiratory Pathophysiology Section of American College of Chest Physicians, 1982-1986

Member - District 11 Planning Board, VA, 1986-1990

Chairman - Med. District 11 Tech. Advisory Group on Affiliations, 1988-1989

Consultant- U.S. Dept of Labor, 1981-present

Chairman- Chief of Staff’s Counsel, Ohio-Kentucky Network, 1992-1996

Member- VISN 9 Strategic Planning Board, 1996-1998

Member- VISN 9 Business Planning Committee-1996-1998

Member- VISN 9 Executive Leadership Committee- 1998-2/03

Member - Technical Advisory Committee, Tobacco and Health Institute, University of Kentucky, 1983-1985

Member - I.C.U. Renovation Committee, VA Medical Center, 7/78-10/78

Chairman - Pharmacy & Therapeutics Committee, VA Medical Center, 9/78-9/79

Chairman - Respiratory Care Evaluation Committee, University of Kentucky Medical Center 1/79-1/80

Member - Environmental and Infection Control Committee, Veterans Administration Medical Center, 1/79-4/80

Member - Medical Service, Patient Care Audit Review and Coordinating Committee, VA Medical Center, 9/79-80

Chairman - I.C.U. Audit Subcommittee, VA Medical Center, 10/79-1/80

Chairman - Respiratory Care Committee, University of Kentucky Medical Center, 1/80-9/82

Associate Medical Director - Department of Respiratory Therapy, University of Kentucky Medical Center, 1/80-9/82

Chairman - Education & Training Committee, VA Medical Center, 2/85-2/87

Chairman - Resident Review Board, VA Medical Center, 2/85-2/87

Member - Resident Review Board, VA Medical Center, 2/87-2000

Member - Medical Library Advisory Subcommittee, VA Medical Center, 2/85-2/87

Member - Education & Training Executive Subcommittee, VA Medical Center, 2/85-2/87

Member - Medical Media Production Subcommittee, VA Medical Center, 2/85-2/87

Member - Research & Development Committee, VA Medical Center, 2/85-2003

Member - Director’s Staff, VA Medical Center, 2/85-2003

Chairman - Professional Standards Board, VA Medical Center, 10/86-2003

Member - Research Space Committee, VA Medical Center, 9/82-2003

Chairman - Clinical Executive Board, VA Medical Center, 10/86-2003

Chairman - Quality Assurance Board, VA Medical Center, 10/86-1/87 and 9/88-6/95 (Committee abolished).

Chairman- Risk Management Committee, VA Medical Center, 9/88-2003

Chairman- Strategic Planning Committee, VA Medical Center, 1/91-1994

Member- TQI Steering Committee, VA Medical Center, 1/92-10/95 (Committee abolished).

Member- Resource Management Committee, 5/88-2003

Member- VA Board of Directors, VA Medical Center, 10/95-1998

Member- UK Graduate Medical Educational Committee, 1996-2003

Member- Health Resources Steering Committee, 1994-1996

Member- VA Counsel of Chairs, 1998-2002

**Since August 2003**

Member- Faculty Appointment, Appeals, Promotions & Tenure Committee – 8/03-9/06

Member- University Physicians Governing council – August 2003 – March 2007 (committee dissolved)

Member- KMSF Billing Guidelines and Compliance Committee – August 2003 – 2006

Member- UKMC Patient Safety Committee – October 2003 – present

Member- UKMC Special Committee (AHA Quest for Quality Prize submission)– 2003

Member- UK Infrastructure Oversight Team – August 2004 to 2005

Member- UK SCM Focus Group (computerized medical record)- 2004- March 2007 (committee dissolved)

Member- Ad hoc Medical Center Committee on Flu Vaccine – October 2004

Member- VA Research & Development Committee – January 29, 2007 – 2008

**VII. Teaching Activity (formal)**

Med 821-Physical Diagnosis of the Chest - 1989-1997

Con 831 - 1989

Med 857 - 1990

Bronchoscopy - Orientation for new pulmonary fellows - July, 1994

Lung Neoplasms (Internal Medicine Board Review) - 1994, 1995

Internal Medicine Clerkship (Workshop) - 1995, 1996

Experimental Design and Biostatistics - Critical Care Medicine Lecture Series – 1993, 1999

Lung Neoplasms - Critical Care Medicine Lecture Series – 1999

Patients, Physicians and Society II, Resource person “Ethical dilemmas in clinical rotations” March 3, 2000

Internal Medicine Grand Rounds (CPC) “A 70 year old man with fever and dyspnea.” 11/22/00

Basic Biostatistics for Pulmonary Fellows. – June 6, 2003

IMP-821 Physical Diagnosis Preceptor – 2003-2004, 2005-2006

MD811, IMP-1 Intro to exam of the chest, 2nd year medical students - 3/23/05, 3/8/06, 8/30/06, 8/29/07

PGY 609 Advanced Respiratory Physiology. Pulmonary function – April 5, 2005, Feb. 28, 2007

Internal Medicine Grand Rounds (Together with D. Mannino) “Pulmonary Update” – September 29, 2006

Dyspnea (Asthma), intern noon conference. October 25, 2011.

Asthma (intern noon conference), Jan 8, 2013, Oct 1, 2013

**Core lectures on respiratory physiology and transplant medicine to Pulmonary and Critical Care fellows.**

* The Physical and Biochemical Basis of the Alveolar Air Equation.   
  September 27, 2005; February 27, 2007; September 14, 2009; October 10, 2011
* Oxygen Diffusion through the Alveolar-Capillary Membrane and its Measurement.   
  October 18, 2005; March 20, 2007; Nov 16, 2009; Oct 31, 2011
* The Lung Volumes and Their Measurement. November 28, 2005; August 21, 2007; Nov 31, 2009; Nov 14, 2011
* Spirometry and the Determinants of Forced Expiratory Flow. December 20, 2005; Sept. 18, 2007; Dec 14, 2009; Nov. 28, 2011.
* Compliance, Airway Resistance. January 23, 2006; March 3, 2009; January 11, 2010; December 12, 2011.
* Tests of Small Airway function: *the search for a COPD Early Warning System.* March 21, 2006; May12, 2009; April 5, 2010; April 16, 2012
* Pulmonary Dead Space. November 27, 2007; April 7, 2009; Feb 1, 2010; Jan 23, 2012.
* Transplant Pulmonology, part 1. September 22, 2008; April 12, 2010
* Transplant Pulmonology, part 2. September 29, 2008: June 7, 2010
* Interpretation of Pulmonary Function Tests. December 9, 2013.
* Spirometry and Lung Volumes and their Measurement. June 9, 2014.
* Alveolar Gases and Diffusion. June 10, 2014.
* Small Airways, Dead Space and other Rarely Used Tests of Pulmonary Function. June 16, 2014
* How to read PFTs (to incoming pulmonary fellows). July 11, 2014.

**VIII. Advising Activity**

Advisor and supervisor of visiting researcher, Dr. A. B. Bohadana (Brazil) from 7/86 to 1/88.

Advisor and supervisor of visiting researcher, Mr. P. M. Wang (P. R. China) from 9/86 to 1996

Advisor to Dr. A. B. Bohadana’s Ph.D thesis “Transmission of Lung Sounds” at the Faculdade Regional de Medicina de S. J. Rio Preto, São José do Rio Preto, São Paulo, Brazil.

PSC-821 precepter/resource person - 1991

UK Shadow program - 1990-2003

Osler Society professor - 1991-1992

Member – Ph.D Committee for Kathleen Clark “Bringing Dialog and Collaborative Law to Healthcare.” Taos/Tilburg Ph.D Program. Oldendorff Research Institute. Tilburg, The Netherlands. 2008

**IX. Administrative Activity**

2/85-10/86 ACOS/Education VA Medical Center

Lexington, KY.

4/86-10/86 Acting Chief of Staff VA Medical Center

Lexington, KY

10/86-2/22/2003 Chief of Staff VA Medical Center

Lexington, KY

10/86-2/22/2003 Chair, Risk Management VA Medical Center

Committee Lexington, KY

7/87-2/22/2003 Associate Dean for University of Kentucky

VA Affairs College of Medicine

4/2003-present Vice Chairman, University of Kentucky

Department of College of Medicine

Internal Medicine

10/2009-present Research Subject Advocate University of Kentucky

Clinical Research Development College of Medicine

And Operations Center of the

Center for Clinical and

Translational Science

10/2009-present Associate Chief, Div. of University of Kentucky

Pulmonary, Critical Care College of Medicine

And Sleep Medicine

6/2010-present Medical director, Pulmonary University of Kentucky

clinic. Kentucky Clinic

**Special Assignments**

Member- Ad Hoc Committee on Health Issues of Students, (Dean’s office) -10/89

Member- Ad Hoc Committee on Education (Dean’s office) - 1989

Member- Ad Hoc Clawson Committee on Department of Medicine ACGME acceditation. (For Dean’s office) - 1995

Member- Gradual Medical Education task force - 1995-present

Member- UK Dept. of Internal Medicine Computer Task Force - 1997-2000

Leader- QA/PI review of UK Lung Transplant Program – April, 2009

Member- Dept. of Internal Medicine Promotion and Tenure Committee – April, 2013 to present.

Chairman- Dept. of Internal Medicine Promotion and Tenure Committee – April, 2014 to present.

**Occupational Medicine and Expert Witness Activities**

1982 to1994 - Consultant to Div. of Black Lung, US Dept. of Labor.

2003 to present – University physician examiner (pulmonary) for KY Office of Worker’s Claims.

2003 to present – Performs independent medical exams on request for attorneys and companies from Kentucky and surrounding states.

2003 to present – Pulmonary and critical care consultant/expert witness in medical malpractice/product liability cases.

**XI. Honors**

Beta Beta Beta Biological Honor Soc. - 1968

Member, Sigma Xi, 1983-present

First runner-up, for the Frank Brown Berry Prize in Federal Medicine for “Trust-Based Patient Safety Program.” August, 2000.

Co-recipient of Cheers Award from the Institute of Safe Medication Practice for patient safety program, Lexington, VAMC. December 2000.

Co-recipient of Scissors award for Patient safety program, Lexington, VAMC. December 2000.

Co-recipient of the John M. Eisenberg Patient Safety Award for advocacy sponsored by the National Quality Forum and the JCAHO. October, 2002

Recipient, Margaret Logan Colvin Chair in Lung Disease Research. July 1, 2003 through June 30, 2008, Jul.1, 2008 through June 30, 2013.

Listed in Marquis Who’s Who in Frontier Science and Technology

Listed in Marquis Who’s Who in Science and Engineering

Listed in Marquis Who’s Who in Medicine and Healthcare

Listed in Marquis Who’s Who in American Education

Listed in Marquis Who’s Who in America

Listed in Marquis Who’s Who in the World

Listed in American Men and Women of Science

Elected Senior member IEEE by invitation, 2006

Life Senior Member IEEE, 2013

**XII. Professional Activity and Public Services; Membership in Professional Societies; Participation on Review Panels/Editorial Boards**

Coordinating grant reviewer, VA Medical Center 1981, 1983, 1986

Member - Special Study Section, NIH, 4/85

Consultant- Canadian Cystic Fibrosis Foundation. Reviewed grant proposal entitled “Lung Sound Analysis in Cystic Fibrosis”-10/88

Consultant - Collaborative Research Grant application for NATO International Scientific Exchange Programs. 12/91

American Federation for Medical Research - 1979-1997

American Thoracic Society - 1978-present

Fellow, American College of Chest Physicians - 1981-present

Member, American Physiological Society - 1983-present

Member, Institute of Electrical and Electronic Engineers - 1983-present

Elected Senior member by invitation, 2006, Senior life member, 2013.

Member, Acoustical Society of America - 1983-present

Member, Central Society for Clinical Research - 1985-1997

Member, Steering Committee, International Lung Sounds Assn. - 1984-2005

Member, Executive Committee, International Lung Sounds Assn. - 1996-2005

President, International Lung Sounds Association. September 2004 (for three-year period).

Kentucky Thoracic Society - 1978-present

Member, Program Committee - 1978-present

Chairman, Program Committee - 1980-81

Member, Executive Committee - 1980-81

Secretary-Treasurer - 1981-82

President Elect - 1982-83

President - 1983-1984

Member, Fayette County Medical Society - 1988-1994

Member, Kentucky Medical Assn. - 1988-1994

Member, Nominating committee - 1990-1991

Consultant- Medical Research Council of Canada. Reviewed grant proposal entitled “Assessment of the Active and Passive Acoustical Behavior of the Chest.” 3/95

Consultant - The Israel Science Foundation. Reviewed grant proposal entitled “Acoustic Wave Propagation in the Respiratory System.” 4/95

Consultant - Guggenheim Memorial Foundation. Reviewed research proposal for a technique to assure proper placement of an endotracheal tube. 11/95

Consultant - Netherlands Organization for Scientific Research. Reviewed grant application entitled “Sound and sound pattern recognition in biomedical applications. April 2002

Consultant - U.S. Army Medical Research and Material Command. Reviewed grant proposal entitled “Medical Errors Reduction Initiative.” 9/2003

Consultant - U.S. Civilian Research and Development Foundation. Reviewed grant proposal entitled “Study of Multipath Sound Transmission in Human Respiratory System on the Basis of Emission/convolution of Complex Acoustic Signals and Acoustic Intensimetry.” 10/2003

Consultant – United States-Israel Binational Science Foundation. Reviewed grant proposal entitled “Spatial and Temporal Acoustic Monitoring of Acute Lung Injury.” March 2004

University consultant/examiner, pulmonary medicine. For Kentucky Department of Worker’s Claims. 2003 to present

Reviewer – Grant proposal entitled “Monitoring and outcome measures in asthmatics and smokers (MOMAS) during pregnancy” for the Center for the Advancement of Women’s Health (CAWH) at the University of Kentucky. June 2006.

Member - NIH Respiratory Sciences Small Business grant review panel. March 5-6, 2008.

Reviewer – Grant proposal entitled “Computerized lung sound analysis for the diagnosis of pediatric pneumonia in resource-poor settings” for the Thrasher Research Fund, Salt Lake City, UT. April 2012.

Reviewer – Grant proposal entitled “Airflow Perturbation Device (APD) for the Detection of Pulmonary and Sleep Disorders in Service Members Deploying to Iraq and Afghanistan” for the Department of Defense, American Institute of Biological Sciences Scientific Peer Advisory & Review Services. July-Aug, 2013.

**Review and editorial boards**

Ad hoc reviewer for *American Journal of Respiratory and Critical Care Medicine*

Ad hoc reviewer for *Journal Applied Physiology*

Ad hoc reviewer for *Chest*

Ad hoc reviewer for *IEEE Transactions on Biomedical Engineering*

Ad hoc reviewer for *European Journal of Respiratory Diseases*

Ad hoc reviewer for *Archives of Internal Medicine*

Ad hoc reviewer for *Thorax*

Ad hoc reviewer for *Lung*

Ad hoc reviewer for *Medical and Biological Engineering and Computing*

Ad hoc reviewer for *Handbook of Acoustics*, John Wiley & Son, Inc.,1992

Ad hoc reviewer for *Clinical Physiology*

Ad hoc reviewer for *Pediatric Pulmonology*

Ad hoc reviewer for *Annals of Allergy, Asthma & Immunology*

Ad hoc reviewer for *European Respiratory Journal*

Ad hoc reviewer for *IEEE Sensors Journal*

Ad hoc reviewer for "Bioacoustic Signals" in: the Encyclopedia of Biomedical Engineering, John Wiley & Son, Inc, 2004

Ad hoc reviewer for *Quality and Safety in Health Care (BMJ)*

Ad hoc reviewer for *IEEE Engineering in Medicine and Biology Magazine*

Ad hoc reviewer for *Canadian Medical Association Journal*

Ad hoc reviewer for *International Journal of COPD*

Ad hoc reviewer for *Medical Science Monitor*

Ad hoc reviewer for *Mayo Clinic Proceedings*

Ad hoc reviewer for *Computational and Mathematical Methods in Medicine*

Ad hoc reviewer for *journal Biomedical Engineering Research*

Ad hoc reviewer for *journal of Medical Ethics*

Ad hoc reviewer for *Journal of Public Health Research*

Ad hoc reviewer for *Journal of Patient Safety*

**XIII. Speaking Engagements (**Research **R,** Service **S,** Education **E)**

1. Acute renal failure in the respiratory intensive care unit: Frequency and implications; a prospective study. 43rd Annual Scientific Assembly, American College of Chest Physicians, Las Vegas, Nevada, October 30, 1977.
2. A technique of the determination of site of production of lung sounds. 4th International Conference on Lung Sounds, North Western Memorial Hospital, Chicago, Illinois, September 21, 1979.
3. The determination of the extent of crackle propagation on the chest wall. 5th International Conference on Lung Sounds, Imperial College, London, England, September 15, 1980.
4. Effect of microphone characteristics on the waveform of crackles. 65th Meeting of the Federation of American Societies for Experimental Biology, Atlanta, Georgia, April 14, 1981.
5. Vesicular lung sound amplitude mapping by flow gated phonopneumography. 3rd Annual International Symposium on Computers in Critical Care and Pulmonary Medicine, Norwalk, Connecticut, June 17, 1981.
6. Vesicular lung sound amplitude mapping by flow gated phonopneumography. 6th International Conference on Lung Sounds, Faulkner Hospital, Boston, Massachusetts, October 1-2, 1981 and the American Physiological Society, Cincinnati, Ohio, October 15, 1981.
7. Investigation of amplitude heterophony in a presumed normal subject. 6th International Conference on Lung Sounds, Faulkner Hospital, Boston, Massachusetts, October 1-2, 1981.
8. Comparative lung sound amplitude and subtraction characteristics in normal subjects. 66th Meeting of the Federation of American Societies for Experimental Biology, New Orleans, Louisiana, April 20, 1982.
9. The effect of mild airways obstruction on the site of origin of lung sounds. 7th International Conference of lung sounds, Martinez, California, October 8, 1982, and 1982 meeting of the American Physiological Society, San Diego, California, October 12, 1982.
10. Keynote Address invited lecture. 8th International Conference on Lung Sounds, Baltimore, Maryland, September 22, 1983.
11. The relationship between airflow and lung sound amplitude in normal subjects. 8th International Conference on Lung Sounds. Baltimore, Maryland, September 22, 1983.
12. The effect of low density gas breathing on vesicular lung sounds. 8th International Conference on Lung Sounds, Baltimore, Maryland, September 22, 1983.
13. The speed of sound through the lungs of normal men. Annual Meeting, American Federation for Clinical Research, Midwest Section, Chicago, Illinois, November 3, 1983.
14. Investigation into the source and mechanism of production of lung sounds in newborn infants. Annual Meeting, AAAS, New York City, New York, May 27, 1984.
15. Comparative lung sound origins: Adults, term infants and premature infants. 1984 meeting of American Physiological Society, Lexington, Kentucky, August 30, 1984.
16. Lung Sounds invited lecture. Kentucky Society of Respiratory Therapy, Lexington, Kentucky, August 29, 1984.
17. New developments in vesicular lung sound research invited lecture. 37th Annual Conference on Engineering in Biology and Medicine, Los Angeles, California, September 17, 1984.
18. Summation invited lecture. 9th International Conference on Lung Sounds, Cincinnati, Ohio, September 21, 1984.
19. Relationship among lung sounds, ventilation and flow. Debate - invited participant, 9th International Conference on Lung Sounds, Cincinnati, Ohio, September 20, 1984.
20. Resolved: the term “Medium Crackles” should be abolished. Debate - invited participant, l0th International Conference on Lung Sounds, Tokyo, Japan, September 19, 1985.
21. The effect of lung volume and airflow on the frequency spectrum of vesicular lung sounds. 10th International Conference on Lung Sounds, Tokyo, Japan, September 19, 1985 and Annual Meeting of the American Physiological Society, October 15, 1985.
22. The determination of the resonant frequency of the respiratory system above 50 Hz. 11th International Conference on Lung Sounds, Lexington, Kentucky, September 18, 1986 and Annual Meeting of the American Physiological Society, October 7, 1986.
23. Contour maps of auscultatory percussion in healthy subjects and patients with large intra-pulmonary lesions. 13th International Conference on Lung Sounds, Chicago, Illinois, September. 15, 1988.
24. Airflow-generated sound in a hollow canine airway cast. 13th International Conference on Lung Sounds, Chicago, Illinois, September. 16, 1988.
25. Summation invited lecture. 14th International Conference on Lung Sounds, Winnepeg, Canada, September 15, 1989.
26. A simple method of removing low-frequency heart sound interference from lung sounds. 14th International Conference on Lung Sounds, Winnipeg, Canada, September 15, 1989. and V Panamerican Congress of Diseases of the Chest, San Juan, PR, April 24, 1990
27. Airflow-generated sound in a human canine airway cast. 15th International Conference on Lung Sounds, New Orleans, LA, Oct. 4, 1990.
28. Modern mysteries of lung sounds. invited guest lecture . VI Jornada Sul Brasileira de Pneumologia e Tisiologia (South Brazilian Soc. for Pulmonology and Tuberculosis). Curitiba, Brazil, Sept. 26-28, 1991.
29. New discoveries in lung sounds. invited guest lecture . VI Jornada Sul Brasileira de Pneumologia e Tisiologia (South Brazilian Soc. for Pulmonology and Tuberculosis). Curitiba, Brazil, Sept. 26-28, 1991.
30. Is Chest Auscultation Obsolete? invited guest lecture (Meet the Professor Seminar). American Lung Association/American Thoracic Society International Conference, San Francisco, CA, May 16, 1993.
31. Ambient Respiratory Noise Effect on Expiratory Lung Sound Recordings. 20th International Conference on Lung Sounds, Long Beach, California, October 12, 1995.
32. “Origin and Significance of Tracheal Sound Spectral Features.” 21st International Conference on Lung Sounds, Chester, England, September 5, 1996.
33. “Lung Sounds and Psychoacoustics.” *Invited talk*, Department of Pediatric Pulmonology, Univ. of Manitoba, Winnipeg, Canada, September 20, 1996.
34. “Modern Mysteries of Lung Sounds”. *Invited lecture.* Third Joint Meeting of the Acoustical Society of America and the Acoustical Society of Japan, December 3, 1996, Honolulu, Hawaii.
35. Sounds of the Chest. *Invited 1/2 day workshop* , 63rd Annual Scientific Assembly of the American College of Chest Physicians, October 26, 1997, New Orleans, LA.
36. “Changing Respiratory Tract Resonances: Description of a Natural Experiment.” 23rd International Conference on Lung Sounds, October 15, 1998, Boston, MA.
37. Risk Management training. To Staff of Baltimore VISN, July 1999.
38. Risk Management training. To Staff of Nashville VISN, August 1999.
39. “Effect of Tracheal Tumor on Breathing Sounds.” Annual meeting of the Acoustical Society of America, Nov. 2, 1999, Columbus OH.
40. “Distributed Acoustic Model of the Entire Respiratory Tract.” Annual meeting of the Acoustical Society of America, Nov. 2, 1999, Columbus OH.
41. Invited guest speaker on nationally syndicated radio program “Here’s to your Health” on subject of truth in risk management. Dec. 28, 1999.
42. Invited guest speaker on radio program “To Your Health” on WGN on the subject of truth in risk management. Jan. 16, 2000.
43. “Are Minidisc Recorders Adequate for Lung Sound Research?” . 25eh International Conference on Lung Sounds,, Chicago, IL, Sept. 21, 2000.
44. Invited speaker. “Error Management: Extreme Honesty May Be the Best Policy.” Enhancing Patient Safety, What’s working Now? Illinois Hospital Research & Education Foundation. Oct. 26, 2000. Chicago IL.
45. Risk Management training. To Staff of Alabama VA medical centers, November 3, 2000.
46. Invited speaker. “Risk Management and Patient Safety at the Lexington Veterans Medical Center.” Texas Medical Foundation 2000 Educational Conference. December 15, 2000. Austin TX.
47. Invited speaker. “How the Lexington VA Medical Center Created a Nationally-Recognized Error Program Based Upon Self-Reporting and Full Disclosure.” Documenting and Reporting Medical Errors. World Research Group. January 29, 2001, Atlanta GA.
48. “Risk Management and Patient Safety at the Lexington Veterans Medical Center.” Health Care Excel, Indiana Partners Promoting Quality, Indianapolis, Indiana, April 18, 2001.
49. Invited faculty. “Open Communication as a Risk Management Tool – The Lexington Experience” 2001 National Quality and Safety Conference (VA). May 3, 2001, New Orleans, LA.
50. Invited faculty. “We Made a Mistake” Let’s Talk: Communicating Risk and Safety in Health Care (Annenberg III). May 16-18, 2001, Minneapolis, MN.
51. Invited faculty. “Open Communication as a Risk Management Tool” ISHRM Annual Educational Session. Indianapolis, IN, June 8, 2001
52. Medical Grand Rounds. “Open Communication as a Risk Management Tool” VAMC, Washington, DC, August 1, 2001.
53. Invited faculty. “The Ethics of Disclosure: One Health Care System’s Approach” Bioethics Symposium. “Burying Our Mistakes, the Ethics of Medical Error Disclosure.” Kaiser Permanente, Long Beach California, September 8. 2001. **(E)**
54. Invited speaker. “Full Disclosure in Risk Management: The Lexington VA Experience.” Fifth Annual Michigan State Medical Society Conference on Bioethics. Oct. 5-6, 2001, Traverse City, Michigan. **(E)**
55. Invited speaker, Grand Rounds. “Full Disclosure in Risk Management: The Lexington VA Experience.” NCH Healthcare System, Naples Florida, December 18, 2001. **(E)**
56. Invited speaker “The Lexington Patient Safety Program” VISN 11 ELC, Ann Arbor, MI, January 30, 2002. **(E)**
57. Invited speaker. “The Naked Risk Manager” Berea Hospital Administrative Board. February 18, 2002. **(E)**
58. Invited speaker “The Lexington Patient Safety Program” Preventing Medical Errors. World RG conference, Houston, TX, February 26-27, 2002. **(E)**
59. Invited speaker. “The Naked Risk Manager” VISN 23 management (all facilities), via televideo. July 9, 2002. **(E)**
60. Invited speaker. “Open Communication as a Risk Management Tool: The Lexington Experience” VISN 15 management (all facilities) and risk management staff of Missouri Univ., Missouri Univ., Columbia, MO. August 6, 2002. **(E)**
61. Invited speaker. “The Naked Risk Manager” 21st Annual Meeting of the Society of Teachers of Family Medicine. Cleveland, OH, October 19, 2002. **(E)**
62. Invited speaker. “The Naked Risk Manager” Meeting of VA Clinical Management.. Washington, DC, October 23, 2002. **(E)**
63. Invited speaker. “The Naked Risk Manager” 2003 meeting of the Ohio Society for Healthcare Risk Managers. Newark, OH, August 22, 2003 **(E)**
64. Kraman, S. S., Wodicka, G.R., Gnitecki, J and H Pasterkamp. the Design of an Artificial Crackle Generator for the Testing of Lung Sound Transducers. 28eh International Conference on Lung Sounds,, Cancun, Mexico, Sept. 15, 2003. **(R)**
65. Kraman, S. S. and K. Buch. Crackle Waveforms in 17 patients with a variety of Lung Diseases. 28eh International Conference on Lung Sounds, Cancun, Mexico, Sept. 15, 2003. **(R)**
66. Invited speaker. “The Naked Risk Manager” Meeting of the Washington DC Patient Safety Coalition. National Rehabilitation Hospital, Washington, DC, October 21, 2003. **(E)**
67. Invited panel member for call in program, “State of Our Health” on asthma. WEKU radio, December 3, 2003. **(E, S)**
68. Invited speaker. Surgical Grand Rounds “Open Disclosure: A Useful Technique to Decrease Surgical Liability” St. Elizabeth Health Center, Youngstown, OH. December 11, 2003. **(E)**
69. Invited speaker. “Disclosure of Adverse Events to Patients” VISN 4 management (all facilities) Pittsburgh, PA. January 28, 2004. **(E)**
70. Invited speaker. “The Future of Cough Research.” 29th Annual Conference of the International Lung Sounds Assn., Glasgow, Scotland, September 9-10, 2004 **(E)**
71. Kraman, S. S., Wodicka, G.R., Pressler, G and H Pasterkamp. A Bioacoustic Transducer Testing (BATT) System. 29th Annual Conference of the International Lung Sounds Assn., Glasgow, Scotland, September 9-10, 2004 **(R)**
72. Kraman, S. S., Pasterkamp, H, Wodicka, G.R. and G. Pressler. Transducer and Stethoscope Testing Using the Bioacoustic Transducer Testing (BATT) System. 29th Annual Conference of the International Lung Sounds Assn., Glasgow, Scotland, September 9-10, 2004 **(R)**
73. Invited speaker. “A Less Adversarial Approach to Adverse Medical Outcomes.” Albany Law School, Albany NY,. October 20, 2004 **(E)**
74. Invited speaker. “Victim Compensation Without Litigation - the Lexington Experience.” Lecture and panel discussion. Annual Meeting of the Chicago Patient Safety Forum. “Voices From the Field: Five Years After ‘To Err is Human’” Northwestern University, Chicago IL, March 11, 2005. **(E)**
75. Invited speaker. “Victim Compensation Without Litigation - the Lexington Experience.” Lecture and panel discussion. GNYHA (Greater New York Hospital Assn.) Briefing on Responding to Adverse Patient Events. GNYHA Conference Center, NY, NY May 13, 2005. **(E)**
76. Invited lecture. A system to evaluate and compare transducers used for lung sound research. 149th Meeting of the Acoustical Society of America joint Meeting with the Canadian Acoustical Society. Vancouver, CA, May 20. 2005. **(R)**
77. Invited lecture. “Sorry Works! Victim Compensation Without Litigation.” Healthservice Counsel of Metropolitan Louisville, Louisville, KY. August 19, 2005. **(E)**
78. Invited lecture. “Victim Compensation Without Litigation.” Virginians Improving Patient Care and Safety annual meeting, Richmond, VA. May 24, 2006. **(E)**
79. Invited lecture. “Victim Compensation Without Litigation.” To monthly medical staff meeting of McCullough-Hyde Memorial Hospital, Oxford, OH. Sept. 19, 2006. **(E)**
80. Invited speaker. “Occupational Asthma” ALA of Kentucky 2006 Pulmonary Care Symposium, Lexington, KY. October 12, 2006. **(E)**
81. Invited speaker, National audioconference, “Disclosure And Resolution Programs: Does Sorry Work?” The Risk Management and Patient Safety Institute November 14, 2006 **(E)**
82. Invited speaker. “Disclosure & Fair Compensation for Medical Errors: Can We Really Do This?” Collaborative Medical Resolutions. The Expanding Role of Civil Collaborative Law. Dayne Education Services. Seattle, WA, December 8, 2006. **(E)**
83. Invited speaker. “Using Extreme Honesty to Maximize Patient Trust & Minimize Legal Costs” 16th Annual Medico Legal Congress, Melbourne, Australia, February 15, 2007. **(E)**
84. Invited speaker. “Full disclosure workshop” 16th Annual Medico Legal Congress, Melbourne, Australia, February 16, 2007. **(E)**
85. Invited speaker. “Case Study: Disclosure, VA Medical Center (Plenary Session). Seeing Your Way Clear to Apology and Disclosure. Joint Commission Resources. Chicago, IL, June 6, 2007. **(E)**
86. Invited speaker. “Case Study: Focus Group Workshop for Leadership/Administration.” Joint Commission Resources. Chicago, IL, June 7, 2007. **(E)**
87. Invited panel member. Panel on Medical Error and Truth Telling. Bioethics lecture Series. Univ. of Kentucky. October 9, 2007 **(E)**
88. Invited speaker. “The disclosure of medical error ‘movement:’ Standard of care?” Center for Enterprise Quality and Safety. UKMC December 17, 2006 **(E)**
89. Invited speaker. “History of Lexington VAMC Open Disclosure Program” Ethics, Law and Open Disclosure. Ethics Symposium. Lexington, VAMC, Lexington, KY., 9/28/2009 **(E)**
90. Invited speaker. “Transparency and Disclosure in Healthcare” UK Quality and Safety State of the Art Conference: Transparency in Healthcare. Embassy Suites, Lexington, KY., 11/9/2009 **(E)**
91. Invited speaker, “Disclosing Adverse Outcomes to Patients: An Intl Conference to Advance Policy & Practice” The Commonwealth Fund, London, England, November 19, 2009 **(S)**
92. Invited speaker, webinars related to the re-launch of “Being Open,” , National Patient Safety Agency, National Health Service, United Kingdom, London, England, November 19, 2009 **(E)**
93. Invited speaker, International Summit, “Embedding, enabling and aligning open disclosure across the world,” the Hyatt Regency, London, England, November 20, 2009. **(S)**
94. Invited speaker, Association of University Radiologists, 60th Annual Meeting, Plenary Keynote session “Professionalism and Risk Management, Medical Error/Risk Management and ‘Sorry Works’ Program Experience” JW Marriott San Antonio Hill Country Resort & Spa , San Antonio, Texas, March 21, 2012. **(S)**
95. Invited panelist, Plenary session, “Discussing EMR Integration and Implications on Teaching, the Good and the Bad: A Multidisciplinary Panel. UK Community Faculty Conference. April 7, 2013, Lexington, KY. **(E)**
96. Invited speaker, Transparency & Patient Advocacy. HealthWatch USA 2013 patient safety conference. “Full Disclosure of Medical Errors” November 1, 2013 **(E)**

**XIIIa. National and International Media coverage of Lexington VA Risk management/Patient Safety Program:**

1. “Medical Mistakes: What Hospitals Might Not Tell You.” Andrea Gerlin. Philadelphia Enquirer (4-part series), Sept. 12-15, 1999
2. “Here’s To Your Health with Deborah Ray.” National Radio interview program. December, 1999.
3. “VA Hospital Believes Honesty Best Policy in Medical Care.” Assoc. Press article. December 21, 1999
4. “Critical Condition with Hedrick Smith (Documentary).” Public Broadcasting System (USA), Oct. 18, 2000.
5. “Why Doctors Make Mistakes, Programme Four: Beyond Blame (Documentary).” British Broadcasting Company (UK) and The Learning Channel (USA). Nov. 2000
6. ABC Evening News: “A Closer Look (USA).” June 28, 2001
7. “Medical Errors: Dispelling the Distrust (Documentary).” NHK TV (Japan). July 2001
8. “Compass: A Blaming and Claiming Society (Documentary).” Australian Broadcasting Company. Nov. 25, 2001
9. “Oft-Derided Veterans Health Agency Puts Data On-line, Saving Time, Lives.” Rhonda Rundle. Wall Street Journal, Dec. 10, 2001
10. “Corporate Apology.” Marketplace. (Minnesota Public Radio, aired nationwide). April 4, 2002.
11. “Insurer, hospitals try apologies for errors Institutions see lawsuits, claims diminish under such policies.” USA Today, March 5, 2003.
12. Invited Op-Ed piece. Medical Malpractice: when All Else Fails, ‘Sorry’ Works Wonders. St. Louis Post-Dispatch. April 7, 2004.
13. “Medical Contrition. Doctors’ New Tool to Fight Lawsuits: Saying ‘I’m Sorry” Rachel Zimmerman. Wall Street Journal, May 18, 2004 (pp A1 & A14)

**XIV. Research and/or Scholorship:**

**Publications (Peer Reviewed)**

1. **Kraman**, S., Khan, F., Seriff, N., and S. Patel: Acute renal failure in the respiratory intensive care unit: Frequency and implications; A prospective study. *Critical Care Medicine* 1979; 7:263-6.

2. **Kraman**, S., and J. J. Adler: Mercury Aspiration. *Chest* 1980; 77:211-12.

3. Berger, R., **Kraman**, S., and M. Paciotti.: Pulmonary strongyloidiasis complicating therapy with corticosteroids. *American Journal of Tropical Medicine and Hygiene* 1980; 29(1):31-4.

4. **Kraman**, S.: Determination of the site of production of respiratory sounds by subtraction phonopneumography. *Am. Rev. Respir. Dis.* 1980;122:303-9.

5. Berger, R., and S. **Kraman**: Miliary blastomycosis and short course corticosteroids. *Arch. Int. Med.* 1981; 141:1223-5.

6. **Kraman**, S.: Does laryngeal noise contribute to the vesicular lung sound? *Am. Rev. Respir. Dis.* 1981; 124:292-4.

7. Thacker, R., and S. **Kraman**: The prevalence of auscultatory crackles in subject without lung disease. *Chest* 1982; 81:672-674.

8. Lorenz, R. and S. **Kraman**: Intracavitary mass in a patient with far-advanced tuberculosis. *Chest* 1982; 82:91-92.

9. O’Donnell, D. and S. **Kraman**: Vesicular lung sound amplitude mapping by flow-gated phonopneumography. *J. Appl. Physiol.* 1982; 53(3):603-609.

10. **Kraman**, S.: Lung sounds: Relative sites of origin and comparative amplitudes in normal subjects. *Lung* 1983; 161:57-64.

11. **Kraman**, S.: The forced expiratory wheeze: The site of origin and its possible relationship to lung compliance. *Respiration* 1983; 44:189-196.

12. Dosani, R.A. and S. **Kraman**: Lung sound intensity mapping in normal men. *Chest* 1982; 83:628-631.

13. Huang, K. C., **Kraman**, S. S. and B. D. Wright: Video Stethoscope: a simple method for assuring continuous bilateral lung ventilation during anesthesia. *Anesthesia and Analgesia* 1983; 62:586-589.

14. **Kraman**, S. S., Austrheim, O.: Comparison of lung sound and transmitted sound amplitude in normal men. *Am. Rev. Respir. Dis.* 1983; 128:451-454.

15. **Kraman**, S. S.: Does the vesicular lung sound come only from the lungs? *Am. Rev. Respir. Dis.*1983; 128:622-626.

16. **Kraman**, S. S.: The speed of low frequency sound through the lungs of normal men. *J. Appl. Physiol.* 1983; 55(6):1862-67.

17. **Kraman**, S. S.: The relation between airflow and lung sound amplitude in normal subjects. *Chest* 1984; 86:225-229.

18. Austrheim, O. and S. S. **Kraman**: The effect of low density gas breathing on vesicular lung sounds. *Respiration Physiology* 1985; 60:145-155.

19. Kanga, J. F. and S. S. **Kraman**: Comparison of the lung sound frequency spectra of infants and adults. *Pediatric Pulmonology* 1986; 2(5):292-295

20. **Kraman**, S. S.: Effects of lung volume and airflow on the frequency spectrum of vesicular lung sounds. *Respir. Physiol.* 1986;66:1-9

21. Wang P. M. and S. S. **Kraman**: The Construction of a Flexible Airway Model for Teaching. *Anat Physiol* 1988;221:780-781.

22. Bohadana, A. B., Kanga, J. F. and S. S. **Kraman**: Does airway closure affect lung sound generation? *Clin. Physiol.* 1988;8(4):341-349.

23. Bohadana, A. B. and S. S. **Kraman**.: Transmission of sound generated by sternal percussion. *J. Appl. Physiol.* 1989;66(1):273-277.

24. **Kraman**, S. S. and A. B. Bohadana: Transmission to the chest of sound introduced at the mouth. *J. Appl. Physiol.* 1989;66(1):278-281.

25. Bohadana, A. B., Patel, R. and S. S. **Kraman**: Contour maps of auscultatory percussion in healthy subjects and patients with large intra-pulmonary lesions. *Lung* 1989;167:359-372.

26. Jahed, M., S. J. Lai-Fook, P. K. Bhagat and S. S. **Kraman**: Propagation of stress waves in inflated sheep lungs. *J. Appl. Physiol.* 1989;66(6):2675-2680

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28. Bohadana, A. B. and S. S. **Kraman**: Consistency of sternal percussion performed manually and with a mechanical thumper. *The European Respiratory Journal.* 1992;5(8):1004-1008.

29. Pasterkamp H, **Kraman**, S. S., DeFrain P. D. and GR Wodicka: Measurement of respiratory acoustic signals: A comparison of sensors. *Chest* 1993;104:1518-1525.

30. Wodicka, G. R., **Kraman**, S. S., Zenk, G. M. and H. Pasterkamp. Measurement of respiratory acoustical signals: Effects of microphone air cavity depth. *Chest* 1994;106(4)1140-1144.

31. Wodicka, G. R., DeFrain, P. D. and S. S. **Kraman**: Bilateral asymmetry of respiratory acoustic transmission. *Med. and Biol. Eng and Comput.* 1994;32(5):489-494.

32. **Kraman**, S.S., Wodicka G.R., Oh Y., and H Pasterkamp. Measurement of Respiratory Acoustic Signals: Effect of Microphone Air Cavity Width, Shape and Venting. *Chest* 1995;108(4):1004-1008.

33. Pasterkamp, H., **Kraman**, S.S., and G. R. Wodicka. Respiratory Sounds: Beyond the Stethoscope. (Invited State-of-the-Art Article) *Am. J. Respir. Crit. Care Med.* 1997;156(3):974-987.

34. **Kraman**, S. S., Pasterkamp, H., Kompis, M., Takese, M. and G. R. Wodicka. Effects of Breathing Pathways on Tracheal Spectral Features*Respir. Physiol.* 1998;111:295-300.

35. Bohadana, A. B. & S. S. **Kraman**. Sounds of Asthma. *Clin. Asthma Rev.* 1998; 2:109-116.

36. Pasterkamp, H, Wodicka, G.R. and S. S. **Kraman**. Effect of ambient respiratory noise on the measurement of lung sounds. *Med Biol Eng & Comput.* 1999;37:461-465.

1. **Kraman**, S. S. and G. Hamm. Risk management: Extreme honesty may be the best policy. *Ann Int Med.* 1999;131:963-967.

And reprinted in *Clinical Risk*. 2001;7(5):185-190

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2. **Kraman, S.S.** A risk management program based on full disclosure and trust: Does everyone win? Invited paper. *Comprehensive Therapy* 2001;27(3):253-257
3. Hamm, G and **S. S. Kraman**. New standards, new dilemmas – Reflections on managing medical mistakes. *Bioethics Forum* 2001;17(2):19-25.
4. **Kraman**, S.S., Wodicka,G.R., Kiyokawa, H. and H. Pasterkamp Are minidisk recorders adequate for the study of respiratory sounds? *Biomedical Instrumentation and Technology*, 2002;36:177-182
5. **Kraman,** S.S., Harper, P, Pasterkamp, H and G R. Wodicka. “Slide whistle” breath sounds: acoustical correlates of variable tracheal obstruction. *Physiol. Meas.* 23(2002)449-445
6. Wang, PM and S. S**. Kraman**. Fractal branching pattern of the monopodial canine airway. *J. Appl Physiol* 2004;96:2194-2199.
7. **Kraman**, S. S. Lung Sounds: An Introduction to the Interpretation of Ausculatory Findings. MedEdPORTAL. Available from: <http://www.aamc.org/mededportal>, ID = 129. 2005. Also directly accessible at <http://www.mc.uky.edu/pulmonary/lungsound.pps>
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9. **Kraman**, S. S., Pressler, G. A., Pasterkamp, H, and G. R. Wodicka. Design, Construction, and Evaluation of a BioAcoustic Transducer Testing (BATT) System for Respiratory Sounds. *IEEE Transactions of Biomed. Eng*. 2006;53(8);1711-1715.
10. **Kraman**, S. S. The ins and outs of respiration: Oxygen diffusion through the alveolar-capillary membrane and its measurement. *Clinical Pulmonary Medicine.* 2007;14(2):106-109.
11. **Kraman**, S. S., Wodicka, G. R., Pressler, G. A. and H. Pasterkamp. Comparison of Lung Sound Transducers using a BioAcoustic Transducer Testing System. *J. Appl. Physiol*. 2006;101:469-476
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13. **Kraman**, S. S. Lesser Used Tests of Pulmonary Function: Compliance, Resistance and Dead Space. *COPD* 2007;4(1):49-54.
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17. Hayes, D and **S. S. Kraman.** The physiologic basis of spirometry. *Respiratory Care*. 2009;(54)12:1717-1726.
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**Published (Non Peer Reviewed):**

1. **Kraman**, S. S.: The Windmill: a compact, self-contained spirometer. *Am. Rev. Diagnostics* 1983; 4:108-111.
2. **Kraman**, S. S.: Vesicular (normal) lung sounds, mechanisms, sites of production and characteristics. *Seminars in Respiratory Medicine* 1985; 6(3): 183-191.
3. **Kraman**, S. S.: New tools in lung sound research. *Seminars in Respiratory Medicine* 1985; 6(3): 220-228
4. **Kraman**, S. S.: Lung sounds for the clinician. *Arch. Int. Med.* 1986;146:1411-1412
5. **Kraman**, S. S.:Building a patient safety program based on trust (invited paper). *Vanguard* 2000;XLVI(2):3.
6. **Kraman**, S. S. and L. Cranfill. First Hand. Trust works: A novel and effective risk management/patient safety program based on disclosing errors and making amends. Invited paper, *Joint Commission Benchmark*. 2001;3(3):6-7
7. **Kraman**, S.S., Cranfill, L, Hamm, G, and T. Woodard. Advocacy: The Lexington Veterans Affairs Medical Center. *The Joint Commission Journal on Quality Improvement*. 2002;28(12):646-650
8. **Kraman**, S.S., Product review. Learning Lung Sounds: Interactive Multimedia Course for PCs, 2nd ed. By RLH Murphy and MA Murphy. *Respiratory Care* 2003;48(3):300-3001
9. **Kraman**, S. S.A Common-Sense Solution to the Medical Malpractice Crisis. *State News* (Counsel of State Governments) 2005;48(2):17-19&37.
10. Gabriel Teninbaum and Steve **Kraman**, Essay, Disclosure and Offer at Twenty-Five:  Time to Adopt Policies to Promote Fairly Negotiated Compensation, 1 Suffolk U. L. Rev. Online  1 (Feb. 25, 2013), http://www.suffolklawreview.org/teninbaum-kraman.

## Published Letters to the Editor:

1. Safdar, F., and **S. Kraman**: Fiberoptic bronchoscopy in pulmonary abscess. (Correspondence to Editor) Chest 1980; 77:707-8.
2. **Kraman, S. S**.: Risk-Benefits of Peer Review (Letter to Editor). Chest 1987;92(5):959.
3. **Kraman, S. S**. NHS Redress Act. Support from the United States. BMJ 2007;334:490 (10 March).
4. **Kraman, S. S**. and G. Hamm. Bad Modeling? Health Affairs. 2007;26(3):903.

## Book Chapters/Monographs:

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3. **Kraman**, S. S.: Rapid lung sound amplitude measurement by automated flow-gated phonopneumography. Computers in Critical Care and Pulmonary Medicine (Proc. of the 3rd international symposium on computers in critical care and pulmonary medicine) 1983, New York, Plenum 293-296.

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5. **Kraman**, S.S., and B. A. Phillips. 1986. Adult Respiratory Distress Syndrome *In* Pocket Reference for Medical Intensive Care. Aspen Publishers, Inc., Rockville, Maryland. 184-188.

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1. **Kraman**, S.S. 1990. Affiliations *In* Chief of Staff Survival Kit. Dept. of Veterans Affairs.
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3. **Kraman**, S. S. Foreword (*Invited*) to The Jewish, Earnest Way to Stop Tobacco Smoking by A. B. Bohadana. *ISBN 85-900419-3-X*, 2005

**Books Authored or Edited:**

1. **Kraman**, S. S. (Guest Editor). *Seminars in Respiratory Medicine*. Lung Sounds. Vol. 6(3), 1985

**Abstracts (\*presented at international, national or regional meeting)**

1. \***Kraman**, S., Khan, F., Seriff, N., and S. Patel: Acute renal failure in the respiratory intensive care unit: Frequency and implications; A prospective study. *Chest* 1977; 72:403.

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21. \***Kraman**, S.S.: The determination of the resonant frequency of the respiratory system above 50 Hz. *The Physiologist* 1986;29:145

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2. Kudlak J, Phillips B, Jagger J, **Kraman** S, Minch H, Zimmerman E, Lively M. Are collegiate football players at risk for OSA. *Sleep* 2003; 26: A213-4.
3. Hiestand, D.M., **Kraman**, S.S., Doherty, D.E. and D.M. Mannino. Interstate Variability in Reported Prevalence of Current Asthma. Proceedings of the American Thoracic Society 2005;2:A546
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5. Diaz-Guzman E, Hayes D, Mullett T, Bonnell M, Maynard RT, **Kraman** S. Lung transplantation in patients with coal workers pneumoconiosis. Am J Respir Crit Care Med 181;2010:A4317.
6. 6. Adra F, Mullett T, Bonnell M, **Kraman** S, Hayes D, Diaz-Guzman E. Incidence and complications associated with hyponatremia after lung transplantation. Am J Respir Crit Care Med 181;2010:A4321.
7. 7. Hayes D Jr, Berger R, Diaz-Guzman E, Mullet TW, **Kraman** SS. Benefits of a structured lung transplant curriculum in pulmonary/critical care fellowship. J Heart Lung Transplant 2010;29(2S):S135.

**Video/Audio Presentations:**

1. Kraman, S.S. 1991. Lung Sounds: An introduction to the interpretation of auscultatory findings. (Teaching tape and manual). American College of Chest Physicians.

2. Ibid. Spanish version, 1992.

**Current and Pending Grant Activity:**

None

**Past Grant Activity:**

NHLBI 5R0l HL26334 - 1981-82 - $50,000 (Principal Investigator)

BRSG grant #RR05374 - 1983 - $4,000 (Co-investigator)

VA Merit Review, October 1984 - September 1987 - $128,000 (Principal Investigator)

**XV. Other**

Invention. Simple Capsule Pneumograph - Patent # 4,732,159 issued 3/22/88. Inventor- S.S. Kraman.