

CURRICULUM VITAE

Jeanine P. Wiener-Kronish, M.D.

Professor
Departments of Anesthesia & Medicine
Vice-Chairman, Department of Anesthesia
Cardiovascular Research Institute Investigator
University of California at San Francisco

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Education:

B.A. (Psychology), University of California, Los Angeles	1971
M.D. University of California, San Francisco	1976
Internship (Internal Medicine), Mount Zion Hospital, San Francisco, CA	1976-1977
Residency (Internal Medicine), Mount Zion Hospital, San Francisco, CA	1977-1979
Fellowship (Pulmonary Medicine), University of California, San Francisco	1979-1980
Research Fellowship, Cardiovascular Research Institute University of California, San Francisco	1980-1982
Residency (Anesthesia), University of California, San Francisco	1984-1986

Positions Held:

<i>University of California, San Francisco:</i> Vice-Chairman, Department of Anesthesia	1996-present
Medical Director, Pre-operative Program	1996-2000
Professor of Anesthesia and Medicine	1996-present
Associate Professor of Anesthesia and Medicine (tenured)	1992-1996
Associate Professor In Residence of Anesthesia	1990-1992
Associate Professor in Residence of Medicine (tenured)	1990-1992
Assistant Professor In Residence of Anesthesia	1986-1990
Assistant Professor In Residence of Medicine	1986-1988
Instructor in Medicine	1982-1984
Attending Physician, Respiratory ICU, San Francisco General Hospital	1983-1984
Attending Physician, Moffitt-Long Hospital	1986-present
Acting Chief, Pulmonary/Critical Care Fellowship	1991-1992

Specialty Certification:

Diplomate, American Board of Internal Medicine	1979
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September 20, 2001

Diplomate, American Board of Internal Medicine, Pulmonary	1982
Diplomate, American Board of Internal Medicine, Critical Care	1987
Diplomate, American Board of Anesthesiology	1988
Recertification, American Board of Internal Medicine, Critical Care	1999

Licensure: California G35428

UNIVERSITY AND PUBLIC SERVICE

University:

Pulmonary Division Mentor Program, 1987-present

Scott Cohen, M.D.

Angela Wang, M.D.

Anthony Campagna, M.D.

Kim Kerr, M.D.

UCSF Animal Care Committee, 1992

Medical Student Advisor, Marsha Patterson, 1994

University Surgical Case & Hospital Mortality Review Committee, 1994-1996

Operating Room Committee, 1996-2000

Privilege and Tenure Committee, Academic Senate, 1996-2001

Vice-Chairman and Systemwide Representative, Privilege and Tenure Committee, Academic Senate, 1998-1999

Chairman of Privilege and Tenure and Systemwide Representative, Academic Senate, 1999-2000

Member of Committee on Equal Opportunity, Academic Senate, 1999-2001

Scholarships and Awards Committee, 1999-present

Student Research Committee, 2000 – present

Secretary of Academic Senate, 2001-present

Ad Hoc Committees:

Member, 15 Year Reunion UCSF Foundation Fund Drive Committee, 1991

Chair, Committee for Dean's Inquiry into Faculty Practices, 1994

Vice Chancellor's Committee on Promotion, 1994, 1995, 1996, 1998, 1999

Task Force on Translational Research, 1995

Member, Committee on Guidelines for Withdrawal of Support, 1995

Perioperative Re-engineering, 1996-1998

Member, 20 Year Reunion UCSF Foundation Fund Drive, 1996

Search Committee, Chief of the Division of Pulmonary Medicine at Moffitt/Long Hospitals

Chair, Chancellor's Committee for Inquiry into Faculty Practices, 1999

Chairman, 25 Year Reunion UCSF Foundation Fund Drive, 2001

Department of Anesthesia:

Executive Committee, 1995-present
Research Seminars, 1995-present
Dept of Anesthesia Merits and Promotions Committee, 1986, 1990, 1994
Dept of Anesthesia Visiting Professor Committee, 1986-present
Dept of Anesthesia Excellence in Clinical Care Committee, 1989-present
Dept of Anesthesia Research Committee, 1989-present
Dept of Anesthesia Resident Evaluation Committee, 1990-1996
Anesthesia Mentor Program, 1987-present
Nancy Mark, M.D.
David Schwartz, M.D.
John Feiner, M.D.
Mark Coleman, M.D.

Ad Hoc Committees:

Sabbatical Committee
Computer Committee
Clinical Excellence Committee
Faculty Selection Committee
Chair, Search Committee for William Hamilton Endowed Chair
Chauncey Leake Selection Committee, 1995, 1997, 1998, 1999

Public Service (Extramural):

American Heart Association Grant Reviewer, Western Region, 2000-2005

Data and Safety Monitoring Board for Cross-linked Hemoglobin Clinical Trials, Baxter Pharmaceuticals, 1998

Data and Safety Monitoring Board for Lung Volume Reduction Program (NETT), NIH, 1997-2004

Research Advisory Committee for International Anesthesia Research Society, 1996

Extramural Reviewer for Sickle Cell Program Project Grant, 1995, 2001

Member, Research Advisory Committee for Cystic Fibrosis Research Institute, 1995

Member, NIH DRG Surgery, Anesthesia and Trauma Study Section, 1992-96

Participant, Resident Education Task Force, Society Critical Care Anesthesia, 1994

American Thoracic Society

Critical Care Planning Committee, 1987-89
Program Director, Critical Care Review Course, 1989
Member, Task Force on Women in ATS, 1996-1999
Chairman, Task Force on Women in ATS, 1997-1999
Program and Budget Committee Member for ATS, 1998-2000
Task Force on Fund Raising Issues, Millennium Campaign, 1999-2000
Member, Clinical Practices Committee, 2000-2001
Member, Clinical Year in Review Committee, 2000-2003

American College of Physicians

Formulate Questions for MKSAP (Amer Board of Intern Med), 1990

American College of Chest Physicians

Critical Care Planning Committee, 1990

Program Committee, 1992

Program Committee, 1993

Formulate Questions for SEEK Critical Care (recertification program), 1996, 1998, 2000

Formulate Questions for SEEK, Pulmonary (recertification program), 1997,1999,2001

Participant in National Critical Care Review Course, 1998-2001

Participant, Nueva Elementary and Middle School Science Fair, 1994

Participant, Nueva Elementary and Middle School CPR Course, 1995

Participant, Pacific Primary Book Fair, 1994

Volunteer, American Cancer Society, 2000

Editorial Services:

Associate Editor: Anesthesiology, 1999-2005

Associate Editor: Pulmonary Perspectives,2000-2004

Consulting Editor: Anesthesia textbook by Miller, 6th Edition

Ad Hoc:

Anesthesia and Analgesia

American Journal of Physiology

American Review of Respiratory Disease

Annals of Internal Medicine

Chest

Critical Care Medicine

Journal of Applied Physiology

Journal of Clinical Investigation

Western Journal of Medicine - (*Editorial Board*)

Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology

Journal of Infectious Disease

Honors and Awards:

Mortar Board, UCLA, 1970

Phi Gamma Mu, 1970

Phi Beta Kappa, 1971

Magna Cum Laude, 1971

Outstanding Woman House Officer, 1977

Stuart Cullen Award for Excellence in Clinical Anesthesia, 1986

Cardiovascular Research Institute, Associate Scientific Staff, 1987 (elected)

Western Society for Clinical Research, 1987 (elected)

American Physiological Society, 1987 (elected)

Association of University Anesthesiologists, 1995 (elected)

Western Association of Physicians, 1996(elected)

Nominated, 1998 Chancellor's Award for the Advancement of Women

International Who's Who of Professionals, 1998

Investigator, Cardiovascular Research Institute, 1999 (elected)

Elizabeth A. Rich, M.D. Award from the American Thoracic Society (ATS), for efforts on behalf of the women in the ATS, 2000
Nominated, 2001 Chancellor's Award for the Advancement of Women
Selected for Program in Executive Leadership in Academic Medicine, 2001

PROFESSIONAL SOCIETIES:

State:

American Women's Medical Association of Northern California
California Society of Anesthesiologists
California Thoracic Society; Steering Committee, Clinical Applications
Western Society for Clinical Investigation

National:

American College of Chest Physicians
American Federation for Clinical Research (elected)
American Medical Women's Association
American Physiological Society (elected)
American Society of Anesthesiologists
American Thoracic Society; Critical Care Section Committee
Microcirculatory Society
Association of University Anesthesiologists, 1995 (elected)
Western Association of Physicians, 1996(elected)

International:

International Anesthesia Research Society

Visiting Professor

Yale University, 1989
Columbia University, 1989
Michael Reese Hospital, 1990
Columbia University, 1994
Massachusetts General Hospital, Harvard Medical School, 1995
University of California, Davis, 1997
University of Southern California, 1999
University of California, Davis, 2000
Kyoto Prefectural School of Medicine, 2000
University of Alabama at Birmingham, 2001
University of Basel, 2001

List of Courses/Lectures/Teaching:

1. Anesthesia 110- PREPARE (preoperative teaching, supervising residents and students)- in ICU and in PACU-50 hours
2. Anesthesia 111 and 160.01-Basic and advanced life support –14hours
3. Dept of Anesthesia Lectures : Weekly conferences and seminars for 8 months of the year- 3 hours (Give lecture on Preoperative Evaluation and Lung Disease)
4. UCSF Medicine-BRIDGE Housestaff Conferences: 1conferences/year
5. Resident Seminars for Anesthesia Residents- 10 hours
6. CME Courses/Review Courses for Certification - Advances in Critical Medicine, Clinical Year in Review for American Thoracic Society; Sedation and Airway Management for Society of Critical Care Medicine
7. Geriatric Grand Rounds-organize speakers and monthly lectures on geriatrics in Anesthesia
8. Research in Anesthesia –150.01 – Each summer 1-2 students participate in the laboratory –60 hours

Clinical Activities

1. Anesthesia Clinical Work –participant in patient care in Preoperative, Postoperative recovery and Intensive Care program- 960 hours/year

Current Research Program

Our laboratory research has determined the bacterial factors involved in *Pseudomonas aeruginosa*-induced lung injury in animals and in patients. A major bacterial factor is the type III secretion system utilized not only by *P.aeruginosa*, but also by all major Gram negative pathogens. The type III secretion system allows Gram negative bacteria to directly intoxicate eukaryotic cells with a variety of unique toxins that prevent normal signaling events. In collaboration with a bacterial geneticist, we have documented the importance of the PcrV gene in the delivery of the type III toxins by *P.aeruginosa*. *P.aeruginosa* bacteria missing PcrV cannot intoxicate eukaryotic cells and antibody to PcrV prevents *P.aeruginosa*-induced lung injury. We have developed a monoclonal antibody to PcrV and documented the antibody is efficacious in preventing *P.aeruginosa*-induced lung injury as well as treating existing *P.aeruginosa* lung infections. The antibody has been patented and a humanized antibody has been made. Clinical trials are planned within a year.

More recently, we have become interested in obtaining information regarding the specific *P.aeruginosa* infecting patients, without culturing the bacteria. Bacterial behavior *in vitro*, including gene expression, has been shown to differ than the behavior found *in vivo*. Furthermore, laboratory bacterial strains commonly utilized in experiments may not represent the bacterial strains infecting patients. Therefore, we are working on new methods to recognize bacterial gene expression in animals and in patients. We are also utilizing microarray technology to document the eukaryotic response to *P.aeruginosa* lung infections. We will do this by determining the mouse genes expressed when specific bacterial genes are expressed.

I utilized part of my sabbatical to revise the Anesthesia training grant. The grant has been funded and I am the Principal Investigator of the Training grant. I am actively involved in arranging research seminars for the Department of Anesthesia, as well as research events for the Department (such as scheduling visiting professors and getting fellows to present their research to the visiting professors). I recently organized a dinner for the Anesthesia residents to increase awareness of research activities in the Department and I schedule regular research presentations at the Department's Grand Rounds. The Department of Anesthesia is co-sponsoring the Pharmacogenetics Journal Club. I am working with Deanna Kroetz, Ph.D. to schedule these meetings with the Department of Anesthesia, other clinical Departments and Basic Science Departments on a monthly basis. I am also working with the UCSF extramural academic programs to increase minority student awareness of opportunities in medicine, particularly opportunities in academic anesthesia. Finally, I am working with Dr. Bogetz in the Department of Anesthesia to increase awareness of UCSF medical students regarding academic anesthesia.

Three Recent Publications:

1. Sawa T, Yahr TL, Ohara M, Kurahashi K, Gropper MA, Wiener-Kronish JP, Frank DW. Active and passive Immunization with the *Pseudomonas* V antigen protects against type III intoxication and lung injury. **Nature Medicine** 1999; 5: 392-398.

This work was done with funds from grants I wrote. I was involved with planning the experiments and reviewing all the experimental results. I was involved with planning and writing the manuscript.

2. Kurahashi K, Sawa T, Ohara M, Kajikawa O, Martin TR, Gropper MA, Wiener-Kronish JP. The pathogenesis of septic shock from *P.aeruginosa* pneumonia in rabbits. **J Clin Invest** 1999; 104: 743-750.

This work was done with funds from grants I wrote. I was involved in planning the experiments and reviewing all the experimental results. I was involved with planning the manuscript and writing the manuscript.

3.Roy-Burman A, Savel RH, Racine S, Swanson BL, Revadigar NS, Fujimoto J, Sawa T, Frank DW, Wiener-Kronish JP. Type III protein secretion is associated with death in lower respiratory and systemic *Pseudomonas aeruginosa* infections. **J Infect Dis** 2001; 183: 1767-74.

This work was done with funds from grants I wrote. I was involved in planning the experiments and reviewing all the experimental results. I was involved with planning the manuscript and writing the manuscript.

Research Training:

Fellows:

Christian Jayr, M.D., Paris, France	1988
Jean-Francois Pittet, M.D., Geneva, Switzerland	1990
Ichidai Kudoh, M.D., Ph.D., Yokohama, Japan	1991
Satoru Hashimoto, M.D., Ph.D., Kyoto, Japan	1992
Hiroshi Miyazaki, M.D., Yokohama, Japan	1994
Teiji Sawa, M.D., Ph.D., Kyoto, Japan	1994-1997
Kiyoyasu Kurahashi, M.D., Yokohama, Japan	1996-1999
Junichi Fujimoto, M.D., Yokohama, Japan	1999-2001
Arup Roy-Burman, M.D., UCSF (Joint with Dr. James Marks, M.D., Ph.D.)	1999-present
Britta Swanson, Ph.D	1999-present
Noburou Shime, M.D.; Kyoto University	2000
Karine Faure, M.D. Lille, France	2000
Kendra Rumbaugh, Ph.D.	2001

Students:

Jim Nemechek, UCSF medical student	1993
Elizabeth Thomas, Whitman College, Walla Walla, WA	1994
Tacey Long, John Hopkins University	1995
Daniel Kanada, Yale University	1996
Votsal Doshi, University of Pennsylvania	1996
Tessa Gorback, University of California, Berkeley	1997
David Doroquez, Santa Clara University	1997
Mitchell Haight, medical student at Western University of Health Sciences	1998
Razzu Allmond, UCSF medical student, winner of 2 research proposals for his laboratory clerkship,	1999
Krishna Surti, University of California, Berkeley	1999
Mueen Ghani, medical student at Western University of Health Sciences	1999
Mehdi Meghood, genetics doctoral student at Universite de Technologie, Belfort-Montbéliard, France	2000
Lauren Rattray, Honors Immunology Student, Glasgow, Scotland	2000
Thong Nguyen, medical student at Western University of Health Sciences	2000
Timur Karaca, UCSF medical student	2000
Dustin Mark, UCSF medical student	2001
Vinh Nguyen, medical student at Western University of Health Sciences	2001

RESEARCH FUNDING*In Residence Sabbatical, with Keith Mostov, PhD, 1992-93*

Co-PI, Study of PcrV, Grant from Intermune, Inc. 2000-2002	\$108,278
Principal Investigator, Anesthesia training grant NHGM08440 American Geriatric Society Grant Establish geriatric curriculum in Anesthesia 2001-2002	\$798,595
Principal Investigator, NHA1 44101 RO1 "Biology of PcrV" 2000-2005	\$32,000
Principal Investigator, NHLBI-HL59239 RO1 "The Host Response to Cytotoxic Proteins" 1998-2002	\$1,580,125
Shared Equipment Grant, Academic Senate 1995	\$1,288,969
Co-Investigator, NHLBI-55980 1995-98	\$13,707
Principal Investigator, NHLBI-HL49810 RO1, "Mechanisms of Lung Epithelial Injury" 1994-99	\$204,879
Principal Investigator, Cystic Fibrosis Foundation Grant in Aid, "New Therapies for <i>P. aeruginosa</i> Infection" 1994-96	\$962, 249
Principal Investigator, UCSF Academic Senate Grant 1993-94	\$64,000
Established Investigator Award, American Lung Association-CA "Mechanisms of Epithelial Injury by <i>P. aeruginosa</i> " 1992-94	\$15,000
Participating Investigator, NHLBI SCOR B-3 Project, "Mechanisms of Acute Pleural and Lung Injury" 1991-93	\$60,000
NIH HL 41744-01, Small Instrumentation Grant, 1988	\$84,000
Career Investigator Award, American Lung Association 1987-89	\$19,599
Participating Investigator, B-3 Project, NHLBI SCOR Grant (HL19155), "Mechanisms of formation of pleural effusions experimentally" 1986-91	\$17,000
UCSF Affirmative Action Award 1986-87	\$90,000
Clinical Investigator Award, NIH (NIH-HL01033) 1986-89 1982-84	\$7,200
	\$120,000

INVITED LECTURES

Pleural Fluid Clearance in Anesthetized Sheep. American Federation for Clinical Research, Carmel, California, February, 1982.

Pleural Fluid Dynamics in Sheep are Altered by a Pleural Catheter. FASEB Annual Meeting, New Orleans, Louisiana, April, 1982.

Pleural Liquid Pressure (PPL) Measured Through an Implanted Rib Capsule in Anesthetized Dogs. American Physiological Society, San Diego, California, October, 1982.

Clearance of Tracer Protein from Small Hydrotraces in Anesthetized, Spontaneously Breathing Dogs. FASEB Annual Meeting, Chicago, Illinois, April, 1983.

Labeled-Protein Enters Pleural Fluid Slowly in Awake Sheep. American Thoracic Society Annual Meeting, Kansas City, Missouri, May, 1983.

Pleural Effusion in Sheep Caused By Oleic Acid Injury. FASEB Meeting, St. Louis, Missouri, April, 1983.

Pleural Effusions are Associated with Left Atrial Hypertension in Patients with Acute And Chronic Heart Failure. American Thoracic Society Annual Meeting, Miami, Florida, May, 1984.

Removal of Artificial Pleural Effusions Over 24 Hours in Awake Sheep. FASEB Annual Meeting, Los Angeles, California, April, 1986.

Evidence for Visceral Pleural inflammation Using a Plastic Bag to Collect Liquid. FASEB Annual Meeting. Washington, D.C., April, 1987.

Pleural Effusions Associated with Oleic Acid Lung Injury Originate From the Lung. American Thoracic Society Annual Meeting, New Orleans, Louisiana, May, 1987.

Moderator of Session, The Contribution of the Bronchial and Pulmonary Circulations to Liquid Formation across the Visceral Pleura in Anesthetized Sheep. FASEB Annual Meeting, Las Vegas, Nevada, May, 1988.

The Alveolar Epithelium Is More Resistant Than The Lung Endothelium To The Injurious Effects of *E.Coli* Endotoxin In Anesthetized, Ventilated Sheep. FASEB Annual Meeting, Las Vegas, Nevada, May, 1988.

The Effects of Alveolar E.Coli Endotoxin On Lung Endothelial and Epithelial Permeability In Anesthetized Sheep. American Thoracic Society Annual Meeting, Las Vegas, Nevada, May, 1988.

Pleural Effusions Are Frequently Associated With The Adult Respiratory Distress Syndrome. American Thoracic Society Annual Meeting, Las Vegas, Nevada, May, 1988.

Pleural effusions and Pulmonary Edema. American Thoracic Society Annual Meeting, Las Vegas, Nevada, May, 1988.

Moderator of Session, Sequential Measurements of Pulmonary Edema Protein Concentration Provide A Reliable Index of Alveolar Epithelial Function and Prognosis In Patients With The Adult Respiratory Distress Syndrome. Western Society of Clinical Investigation, Carmel, California, February, 1989.

The Maximal Rate of Alveolar Liquid Clearance In Humans Is Faster Than In Sheep, Dogs Or Rabbits. FASEB Annual Meeting, New Orleans, Louisiana, March, 1989.

Effects of Endotoxin and Live Bacteria on the Endothelial and Epithelial Barriers in the Lung. Symposium of Sepsis, American Thoracic Society Annual Meeting, Cincinnati, Ohio, May, 1989.

The Effects of Live *Pseudomonas Aeruginosa* Organisms on Alveolar Liquid Clearance and Epithelial Protein Permeability in Sheep. American Thoracic Society Annual Meeting, Cincinnati, Ohio, May, 1989.

Sterile, Exudative Pleural Effusions Following The Instillation of Live *Pseudomonas* Organisms Into Alveoli. FASEB Annual Meeting. Washington, DC, April, 1990.

Moderator, Lung Fluid Balance Session. FASEB Annual Meeting. Washington, DC, April, 1990.

Airspace Immunoglobulins Reduce Alveolar Epithelial and Pleural Injury Caused By *Pseudomonas Aeruginosa* In Sheep. American Thoracic Society Annual Meeting, Boston, Massachusetts, May, 1990.

Moderator, Acute Lung Injury. Slide session. American Thoracic Society Annual Meeting, Boston, Massachusetts, May, 1990.

The Contribution of Bacteria and The Injured Lung To The Incidence of Infection In ARDS. Symposium On Interaction of Host Defenses and Acute Lung Injury On The Development of Pulmonary Infection. American Thoracic Society Annual Meeting, Boston, Massachusetts, May, 1990.

Differential Protective Effect of Anti-*Pseudomonas* Antibody On Alveolar Epithelial Injury In Unanesthetized Sheep. The American Federation for Clinical Research, Seattle, Washington, May, 1991.

The Dose-Related Effect of *Pseudomonas Aeruginosa* On Alveolar Epithelial Permeability and Formation of Exudative Pleural Effusions In Rabbits. The American Federation for Clinical Research, Seattle, Washington, Annual Meeting, May, 1991.

Apical and Basolateral Application of *P. Aeruginosa* Causes Differential Effects On ZO-1 Junctions In MDCK Cells. FASEB Annual Meeting, Anaheim, California, April, 1992.

Association of *P. Aeruginosa* Cytotoxicity With The Production of Exoenzyme S. First Bristol-Myers Squibb Symposium on Infectious Disease Research. The Cell and Molecular Biology of Bacterial Host Cell Interactions. Monterey, California, February, 1993.

Invited Speaker, The Effects of Endotoxin and Live Bacteria on The Epithelial and Pleural Barriers of The Lung. Lung Biology Series, Yale University, New Haven, Connecticut, December, 1989.

Invited Speaker, The Effects of Endotoxin and Live Bacteria On The Pleural Barriers of Lung. Research Seminar, Columbia University, New York, New York, December, 1989.

Co-Chair, Subspecialty Session In Pulmonary, Western Society for Clinical Investigation, San Francisco, California 1990.

Moderator, Acute Lung Injury slide session. American Thoracic Society, Boston, Massachusetts, May, 1990.

Invited Speaker, Liquid and Protein Clearance from the Lung. Respiratory Drug Delivery III, Williamsburg, Virginia, May, 1992.

Moderator, Poster Session in Acute Lung Injury. American Thoracic Society Annual Meeting, Boston, Massachusetts, May 1994.

Invited Speaker, Seminar on Gene Therapy to the Lung. MegaBios, Inc., San Francisco, California, March 1995.

Invited Speaker; New Therapies for Acid Aspiration; Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, Massachusetts, February 1995.

Key-note Speaker, International Society for Contact Lens Research, Jackson Hole, Wyoming, September, 1995.

Invited Speaker, Infection and Inflammation at Mucosal Surfaces, Cystic Fibrosis North American Meeting, Orlando, Florida, October, 1996.

Selected Invited Clinical and Research Presentations

Invited Speaker, MCTD and Lung Disease. California Thoracic Society, San Francisco, California, June, 1982.

Arterial Blood Gases: Physiology. Oakland Hospital, Oakland, California, September, 1982.

Adult Respiratory Distress Syndrome. Veterans Administration Medical Center, Fort Miley, San Francisco, California, September, 1982.

Adult Respiratory Distress Syndrome. Salinas Natividad Hospital, Salinas, California, February, 1983.

Chronic Obstructive Lung Disease. Veterans Administration Medical Center, University of California, San Francisco, California, September, 1983.

Pleural Catastrophes. Critical Care Update, San Francisco, California, September, 1983.

Arterial Blood Gas. Moffitt Hospital, San Francisco, California, September, 1983.

Hemodynamic Monitoring. Sequoia Hospital, Redwood City, California, September, 1983.

Grand Rounds, Pleural Effusions. VA Medical Center. Fort Miley, San Francisco, California, January, 1984.

Pulmonary Embolism. Moffitt Hospital, San Francisco, California, May, 1984.

- Shock. Moffitt Hospital, San Francisco, California, May, 1984.
- Intubation Methods. San Francisco County Paramedics, San Francisco, California, June, 1984.
- Invited Speaker**, Pleural effusions. American College of Chest Physicians, San Francisco, California, September, 1984.
- Resolution of Pulmonary Edema. St. Mary's Hospital, San Francisco, California, October, 1984.
- Pleural Effusions. Highland Hospital, Oakland, California, November, 1984.
- Preoperative Pulmonary Assessment. Pulmonary-ICU Conference, Moffitt Hospital, San Francisco, California, December, 1984.
- Preoperative Assessment of Lung Resection. Pulmonary-ICU Conference, Moffitt Hospital, San Francisco, California, January, 1987.
- Preoperative Pulmonary Considerations. Joint Anesthesia and Medicine Course. Preoperative evaluation of the Surgical Patient Conference, San Francisco, California, March 1987.
- Drug Interaction In The Elderly. Clinical Update, Community Hospital, Santa Cruz, California, April, 1987.
- ARDS. Introduction to Clinical Medicine, UCSF Medical Students, Moffitt Hospital, San Francisco, California, May, 1987.
- Pathophysiology and Management of Pleural Effusions. Advances in Internal Medicine, San Francisco, California, June 1987.
- Preoperative Evaluation of Critically Ill Patients. The Changing Practice of Anesthesia, San Francisco, California, September, 1987.
- Increased Permeability Pulmonary Edema and Pleural Effusions. CVRI Research Conference, San Francisco, California, December, 1987.
- Co-Chair**, Subspecialty Session in Pulmonary, Western Society for Clinical Investigation, Carmel, California, February, 1988.
- E. Coli* Endotoxin Effects on Alveolar Epithelial Function In Sheep. Anesthesia Research Conference, UCSF, April, 1988.
- Airway Management. Pulmonary Fellows Conference, UCSF, July, 1988.
- Preoperative Pulmonary Considerations. CVRI, Pulmonary Physiology Seminar, UCSF, September, 1988.
- Co-chair**, Pleural Effusions Research Session, American College of Chest Physicians, Anaheim CA, October, 1988.
- Invited Speaker**, Pathophysiology of Pleural Effusions. American College of Chest Physicians, Anaheim, CA, October, 1988.

Recent Advances in The Pathogenesis of Pleural Effusions: Clinical and Experimental Studies. Cardiovascular Research Institute Seminar, UCSF, California, March 1989.

Perioperative Pulmonary Considerations. Perioperative Evaluation of the Surgical Patient. San Francisco, California, March 1989.

Human Pulmonary Edema Studies. Anesthesia Research Conference, San Francisco, California, March 1989.

Co-Chair, Symposium on Lung Fluid Balance, FASEB Annual Meeting, New Orleans, Louisiana, March 1989.

Preoperative Assessment for Lung Resection. Pulmonary Conference, San Francisco, California, April, 1989.

Preoperative and Postoperative Respiratory Management of Surgical Patients. American Thoracic Society, Cincinnati, Ohio, May, 1989.

Course Director and Moderator, Non-Pulmonary Aspects of Critical Care. American Thoracic Society, Cincinnati, Ohio, May, 1989.

Multiple Organ System Failure. California Society of Anesthesiologists. Monterey, California, June 1989.

Respiratory Failure. Advances In Internal Medicine. San Francisco, California, June 1989.

Invited Speaker, Respiratory Failure. Critical Care in Cardiology. San Francisco, California, August 1989.

Preoperative Assessment of Critically Ill Patient. Recent Advances In Anesthesia. San Francisco, California, September, 1989.

Parapneumonic Effusions. Medical Residents Conference, San Francisco, California, September, 1989.

Preoperative Assessment For Pulmonologists. Pulmonary Physiology Conference, San Francisco, California, September, 1989.

Pleural diseases. Introduction to Clinical Medicine, San Francisco, California, October, 1989.

Acute Epiglottitis in Adults. Anesthesia Morbidity and Mortality Conference, San Francisco, California, November, 1989.

Pulmonary Embolus Hemodynamics. Anesthesia Morbidity and Mortality Conference, San Francisco, California, November, 1989.

Invited Speaker, Pulmonary edema. Using Pulmonary Edema Protein Concentration As a Guide to Prognosis. Yale Clinical Conference, New Haven, December, 1989.

Preoperative Evaluation For Pulmonary Resection. Pulmonary Physiology Seminars, San Francisco, California, February, 1990.

Management of Severe Asthma. St. Francis Hospital, San Francisco, California, February, 1990.

Invited Speaker New Insights Into Nosocomial Pneumonia. Neurosurgery *Grand Rounds*, April, 1990.

Invited Speaker, Prediction and Prognosis of Acute Lung Injury. Medical Grand Rounds, Michael Reese Hospital, Chicago, May, 1990.

Airway Management. Pulmonary and Critical Care Medicine Course, San Francisco, California, October, 1990.

Invited Speaker, Adult Respiratory Distress Syndrome. American College of Chest Physicians Meeting, Palm Springs, California, November, 1990.

Invited Speaker, New Modes of Mechanical Ventilation. American College of Chest Physicians Meeting, Palm Springs, California, November, 1990.

Air Embolism and Pulmonary Embolism. Anesthesia Morbidity and Mortality Conference, UCSF, San Francisco, California, January, 1991.

Preoperative Pulmonary Assessment. Pulmonary Physiology Seminars, UCSF, San Francisco, California, January, 1991.

Pulmonary Edema. Anesthesia Morbidity and Mortality Conference, UCSF, San Francisco, California, February, 1991.

Preoperative Assessment For Lung Resection. Pulmonary Physiology Course, UCSF, San Francisco, California, February, 1991.

Pulmonary Grand Rounds, Treatment of The Severe Acute Asthmatic. UCSF, San Francisco, California, March 1991.

Invited Speaker, Mechanical Ventilation Update In Cardiology Critical Care, San Francisco, California, August 1991.

Postoperative Problems: Update In Pulmonary Medicine and Critical Care, San Francisco, California, August 1991.

Course Director and Moderator - Critical Care Course, American College of Chest Physicians, San Francisco, California, November, 1991.

Preoperative Pulmonary Assessment. Pulmonary Physiology Seminars, San Francisco, California, January, 1992.

Preoperative Pulmonary Assessment For Lung Resection. Pulmonary Physiology Seminars, San Francisco, California, February, 1992.

Invited Speaker, Post-operative Pulmonary Problems and Advances In Internal Medicine, San Francisco, California, May and June, 1992.

Sexual Harrassment, The Changing Practice of Anesthesia, San Francisco, California, September, 1992.

Moderator, Poster Session on Mechanical Ventilation. American Thoracic Society Annual Meeting, San Francisco, California, May, 1993.

Moderator, Poster Session on Respiratory Failure. American Thoracic Society Annual Meeting, San Francisco, California, May, 1993.

Invited Speaker, Mechanical Ventilation. Update in Cardiology Critical Care. San Francisco, California, August, 1993.

Invited Speaker, Gene Therapy. Respiratory Drug & Delivery IV, Richmond, Virginia, May 1994.

Invited Speaker, Clinical Problems in Critical Care. American Thoracic Society Annual Meeting, Boston, Massachusetts, May 1994.

Invited Speaker, Workshop in Respiratory Failure. Update in Critical Care Cardiology, San Francisco, California, August 1994.

Pleural Effusions, Pathophysiology, Seminars for the Medical Housestaff of UCSF, San Francisco, California, April 1995.

Pulmonary Embolus; Treatment in the ICU, Anesthesia Grand Rounds. UCSF, San Francisco, California, April, 1995.

Chronic Pulmonary Emboli. Anesthesia Grand Rounds. UCSF, San Francisco, California, April, 1995.

Invited Speaker, Prolonged Paralysis in the ICU, American Thoracic Society Annual Meeting, Seattle, WA. May 1995

Invited Speaker, Workshop on Respiratory Failure, Critical Care Cardiology Course, San Francisco, California 1995

Invited Speaker, Critical Care Update. Annual Anesthesia Course, San Francisco, California, September, 1995.

Invited Speaker, Difficult Airways, American Thoracic Society, State of The Art, Washington, D.C. February, 1996.

Co-Chair, Modulation of Inflammation in the Lung, American Thoracic Society International Meeting, New Orleans, Louisiana, May, 1996.

Invited Speaker, Respiratory Failure, American College of Cardiology, San Francisco, California, August, 1996.

Moderator, Preoperative Evaluation: Extension of the Role of the Anesthesiologist in the Perioperative Period at Changing Practice of Anesthesia. San Francisco, California, September, 1996.

Invited Speaker, Difficult Airways, American Thoracic Society, State of the Art, San Diego, California, February, 1997.

Invited Speaker, Cytokines-Can They be Used as Therapy, Pulmonary Grand Rounds, University of California, Davis, March, 1997.

Invited Speaker, Tips for a Successful Career in Academic Medicine, Annual Meeting of American Thoracic Society, San Francisco, California, May, 1997.

Invited Speaker, Prepare for Surgery, Brown Bag Lectures for the Community, University of California at San Francisco, San Francisco, California, May, 1997.

Invited Speaker, Difficult Airways, Oklahoma Thoracic Society, Annual Meeting, Oklahoma City, Oklahoma, June, 1997.

Invited Speaker, Moderator, Preoperative Medicine In Changing Practice of Anesthesia, San Francisco, California, September, 1997.

Invited Speaker, Moderator, New Practice Opportunities, Annual Meeting American Society of Anesthesia, San Diego, California, October, 1997.

Moderator, Anesthesia Grand Rounds, UCSF, San Francisco, California, February, 1998.

Invited Speaker, Preoperative and Postoperative Evaluation of the Elderly, Conference on Integrating Geriatrics into Medicine. St. Johns, U.S. Virgin Islands, March 1998.

Invited Speaker, State of the Art Critical Care Updates-Non-Pulmonary Advances. International Conference of the American Thoracic Society. Chicago, Illinois, April, 1998.

Moderator, Invited Speaker, Anesthesia Grand Rounds, UCSF, August, 1998.

Invited Speaker, Critical Care Cardiology, Workshop: Case Histories of Respiratory Failure, San Francisco, California, August, 1998.

Invited Speaker, Moderator, Preoperative Issues in Changing Practice of Anesthesia, San Francisco, California, September, 1998.

Invited Speaker, Geriatrics, at Meet the Professor at the International Conference of the American Thoracic Society, San Diego, California, April, 1999

Invited Speaker, New therapeutic approaches to gram negative lung infections, Visiting Professor, University of Southern California, Los Angeles, California, May, 1999.

Invited Speaker, Relevant research for Cystic Fibrosis, Williamsburg Scientific Conference for Cystic Fibrosis Foundation, June, 1999.

Invited Speaker, Airway Management and Postoperative Management at the American College of Chest Physicians and Society for Critical Care Medicine Course for Critical Care Review. Orlando, Florida, August, 1999

Invited Speaker, Moderator, Nicotine addiction treatments at Anesthesia for the Millennium, San Francisco, California, September, 1999.

Invited Speaker, Preoperative Assessment, Sequoia Hospital Grand Rounds, Palo Alto, California, September, 1999

Moderator, Anesthesia Grand Rounds, University of California San Francisco, December, 1999

Moderator, Anesthesia Grand Rounds, University of California San Francisco, February, 2000

Invited Speaker, Preoperative Assessment of the High Risk Patient, University of California, Davis, California, February, 2000

Invited Speaker, 47th Annual Meeting of Japan Society of Anesthesiologists in Tokyo, March, 2000

Invited Speaker, Annual Meeting of Western Association of Chief Residents in Anesthesia in San Francisco, April, 2000

Invited Speaker, State of the Art, Critical Care Updates-Non-Pulmonary Advances. International Conference of the American Thoracic Society. Toronto, Canada, May, 2000.

Invited Speaker, NATO ASI Meeting on Acute Lung Injury, Corfu, Greece. June, 2000.

Invited Speaker, Critical Care Course sponsored by American College Chest Physicians and the Society for Critical Care. Lectures on Airway Management and Postoperative Management. Pittsburgh, Pennsylvania. August, 2000.

Invited Speaker, Kaiser Foundation Hospital in San Francisco. Update on Asthma, August, 2000.

Invited Speaker, Sedation for Procedures, American College Chest Physicians Annual Meeting, San Francisco, California October, 2000

Invited Speaker, CRAM course for Pulmonary and Critical Care Boards, American College Chest Physicians, San Francisco, California October, 2000

Invited Speaker, How do microorganisms injury cells-acute lung injury and sepsis, the role of *Pseudomonas*, Society of Critical Care Medicine Annual Meeting, San Francisco, California, February, 2001

Invited Speaker, *Pseudomonas*-induced acute lung injury, University of Alabama, March, 2001

Invited Speaker, Problems with Sedation, Pulmonary Conference, San Francisco, CA March, 2001

Moderator, Clinical Year in Review, International Conference of American Thoracic Society, San Francisco, May, 2001

Invited Speaker, *Pseudomonas*-induced acute lung injury, Faculty Conference for Cardiovascular Research Institute, UCSF, San Francisco, June, 2001

Invited Speaker, Society of Critical Care Medicine/American College Chest Physicians Critical Care Course, Perioperative Problems and Sedation lectures, Orlando, Florida, August, 2001

Moderator, Invited Speaker, Changing Practice of Anesthesia, Department of Anesthesia, UCSF, San Francisco, CA, September, 2001

Invited Speaker, International Conference on Infections in the Critically Ill Patient, Bench to Bedside, Barcelona, Spain, January, 2002

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BOOK CHAPTERS/ EDITOR

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2. Staub NC, Wiener-Kronish JP, Albertine KH: Transport through the pleura: physiology of normal liquid and solute exchange in the pleural space, The Pleura in Health and Disease. Edited by Chretien J. New York, Marcel Dekker, 1985, pp 169-189.
3. Wiener-Kronish JP: Pleural effusions, Decision Making in Critical Care Medicine. Edited by Don H. St. Louis, CV Mosby Co, 1985 pp 82-84.
4. Wiener-Kronish JP, Matthay MA: Invasive hemodynamic monitoring, Pulmonary Disease Reviews. Edited by Bone RC. New York, John Wiley & Sons, 1986, pp 75-89.
5. Broaddus VC, Wiener-Kronish JP: Pleural effusions, Annual Review of Pulmonary Disease. Edited by Matthay MA, Matthay RA, Wiedemann H. Philadelphia, Hanley & Belfus, 1986, pp 115-132.
6. Wiener-Kronish JP, Matthay MA: Preoperative evaluation, Respiratory Medicine. Edited by Murray JF, Nadel J. Philadelphia, Hanley & Belfus, 1988, pp 683-698.
7. Broaddus VC, Wiener-Kronish JP: Pleural effusions, Annual Review of Pulmonary Disease. Edited by Matthay MA, Matthay RA, Wiedemann H. Philadelphia, Hanley & Belfus, 1989, pp 85-102.
8. Wiener-Kronish JP, Boylan A, Broaddus VC: Pleural effusions, Annual Review Pulmonary Disease and Critical Care. Edited by Matthay MA, Matthay R, Wiedemann H. Philadelphia, Hanley & Belfus, 1991, pp. 93-106.
9. Pittet JF, Wiener-Kronish JP: Postoperative pulmonary complications, Pulmonary Manifestations of Systemic Disease. Edited by Murray JF. New York, Marcel Dekker, 1992.
10. Parsons P, Wiener-Kronish JP. Editors, Critical Care Secrets. Philadelphia, Hanley & Belfus, 1992.
11. Yung R, Wiener-Kronish JP. Pleural effusions, Annual Review of Pulmonary Disease and Critical Care. Edited by Matthay MA, Matthay RA, Wiedemann H. Philadelphia, Hanley & Belfus, 1993.
12. Wiener-Kronish JP, Broaddus VC. Interrelationship of pleural and pulmonary interstitial liquid. Ann Rev Physiol 1993;55:209-26.
13. Kudoh I, Wiener-Kronish JP. Techniques/indications for mechanical ventilation, Pulmonary Care of the Surgical Patient. Edited by Junod FL, Hanowell LH. Mount Kisco, Futura, 1994.

14. Gropper M, Matthay MA, Wiener-Kronish JP. The adult respiratory distress syndrome: diagnosis, pathophysiology and treatment, *Pulmonary Care of the Surgical Patient*. Edited by Junod FL, Hanowell LH. Mount Kisco, Futura, 1994.
15. Wiener-Kronish JP, Matthay MA: Preoperative evaluation. *In: Respiratory Medicine*. Edited by Murray J, Nadel J. Philadelphia, WB Saunder, Co., 1994, pp. 901-919.
16. Shaughnessy T, Wiener-Kronish JP. Post-Operative Care in Pulmonary and Respiratory Therapy Secrets. Edited by John Heffner and Polly Parsons. Philadelphia, Hanley & Belfus Mosby, 1996, pp. 445-451.
17. Thompson M, Wiener-Kronish JP. General issues in Gene Delivery via the Lung. *In: Pulmonary Delivery of Therapeutic Peptides and Proteins*. Edited by Adjei A and Gupta P, New York, Marcel Dekker, pages 475-491, 1997
18. Gropper MA, Wiener-Kronish JP. Acute Lung Injury and Acute Respiratory Distress Syndrome. Edited by R Pearl, MD, PhD., MJ Murray, DB Coursin, DS Prough. Lippincott-Raven, 1997, pp. 441-452.
19. Cammarano, WB, Wiener-Kronish, JP. Analgesic, tranquilizers and sedatives in Cardiac Intensive Care. Edited by D.L. Brown. WB Saunders, Philadelphia, 1998, pgs 591-602.
20. Sawa T, Wiener-Kronish JP, Gropper MA: Injury and Inflammation in Atlas of Clinical Anesthesiology (Slide Atlas) Edited by Debra Schwinn and Ronald D. Miller. Philadelphia, Current Medicine, 1998.
21. Wiener-Kronish JP, Sawa T, Kurahashi K, Ohara M, Gropper MA: Pulmonary Edema due to *P. aeruginosa*. Edited by M.A. Matthay and D. Ingbar. New York, Marcel Dekker, pages 247-265, 1998.
22. Wiener-Kronish JP, Shaughnessy T. Airway Management. *Comprehensive Respiratory Medicine* Edited by Richard K. Albert, Steve Spiro, and James Jett. Mosby International, London, 14.1-6,1999.
23. Parsons P, Wiener-Kronish JP. Editors, *Critical Care Secrets*. Philadelphia, Hanley & Belfus, Second Edition, 1998.
24. Wiener-Kronish, JP, Albert, R. Preoperative evaluation. *Third Edition of Textbook of Respiratory Medicine*. Edited by Murray JF, Nadel JA, Mason RJ, Boushey HA. W.B. Saunders Co. 1999.
25. Wiener-Kronish, JP. Editor of *New Practice Opportunities in Anesthesiology in Anesthesiology Clinics Of North America*, 17(2), 1999.
26. Gropper MA, Wiener-Kronish JP. Postoperative Care. *Hospital Medicine* Edited by Wachter RM, Goldman L, Hollander H. Philadelphia. Williams & Wilkins. pp 159-165, 2000.
27. Gropper MA, Wiener-Kronish JP, Editors. *Conscious Sedation*. Hanley and Belfus, 2000.
28. Cheng E, Wiener-Kronish JP. Preprocedure evaluation for sedation and analgesia. *Conscious sedation*. Hanley and Belfus, pp31-45, 2000

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30. Wiener-Kronish JP, Frank D, Sawa T. Mechanisms of lung epithelial cell injury by *Pseudomonas aeruginosa*. *Molecular and Cellular Biology of Critical Care Medicine: Acute Lung Injury* edited by H. R. Wong, and T.P. Shanley. Kluwer Academic Publishers, in press 2001.

JOURNAL ARTICLES--ORIGINAL WORK

CLINICAL RESEARCH

1. Tyrrell JB, Wiener-Kronish JP, Lorenzi M, Brooks RM, Forsham PH: Cushing's Disease: Growth hormone response to hypoglycemia after correction of hypercortisolism. *Journal of Clinical Endocrinology Metabolism* 44:218-220, 1977.
2. Wiener-Kronish JP, Solinger AM, Warnock ML, Churg A, Ordonez N, Golden JA: Severe pulmonary involvement in mixed connective tissue disease. *American Review of Respiratory Disease* 124:499-503, 1981.
3. Wiener-Kronish JP, Gropper MA, Matthay MA: ARDS: A syndrome caused by increased microvascular permeability. *Journal of Respiratory Disease* 5:43-51, 1984.
4. Viquerat CE, Hansen RM, Botvinick EH, Dae MW, Wiener-Kronish JP, Matthay MA: Undrained bloody pericardial effusion in the early postoperative period after coronary bypass surgery: A prospective blood pool study. *American Heart Journal* 110:335-341, 1985.
5. Wiener-Kronish JP, Matthay MA, Callen PW, Filly RA, Gamsu G, Staub NC: Relationship of pulmonary hemodynamics to pleural effusions in patients with heart failure. *American Review of Respiratory Disease* 132:1253-1256, 1985.
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PLEURAL PHYSIOLOGY AND ACUTE LUNG INJURY

1. Albertine KH, Wiener-Kronish JP, Roos PJ, Staub NC: Structure, blood supply, and lymphatic vessels of the sheep's visceral pleura. *American Journal of Anatomy* 165:277-294, 1982.
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4. Albertine KH, Wiener-Kronish JP, Roos PJ, Staub NC: The structure of the parietal pleura as it relates to pleural fluid dynamics in sheep. *Anatomical Record* 208:401-409, 1984.
5. Wiener-Kronish JP, Albertine KH, Licko V, Staub NC: Pleural fluid protein clearance rates in anesthetized and unanesthetized sheep. *Journal of Applied Physiology* 56:459-463, 1984.

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11. Wiener-Kronish JP, Broaddus VC, Albertine KH, Gropper M, Matthay MA, Staub NC: Pleural effusions are associated with increased permeability pulmonary edema in anesthetized sheep. *Journal of Clinical Investigation*, 82:1422-1429, 1988.
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PSEUDOMONAS AERUGINOSA, ACUTE LUNG INJURY, SEPTIC SHOCK

1. Wiener-Kronish JP, Albertine KH, Matthay MA: Differential effects of E.Coli endotoxin on the lung endothelial and epithelial barriers of the lung. *Journal of Clinical Investigation*, 88:864-875, 1991.
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REVIEWS

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ABSTRACTS

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