

## CURRICULUM VITAE

August 2010

Name: Frank E. Speizer

Address: 1010 Memorial Drive, Apt. 4A, Cambridge, MA 02138

Place of Birth: San Francisco, California

### Education:

1957 A.B. Stanford University  
1960 M.D. Stanford University Medical School  
1989 A.M.(Hon) Harvard University

### Postdoctoral Training:

#### Internships and Residencies:

1960-61 Internship, USPHS Hospital, Baltimore, Maryland  
1963-64 Assistant Resident, Harvard Medical Service, Boston City Hospital, Boston, Massachusetts  
1964-65 Senior Resident, Stanford Medical Service, Stanford-Palo Alto Hospital, Palo Alto, California  
1965-66 Chief Resident in Medicine, Stanford Medical Service, Stanford-Palo Alto Hospital, Palo Alto, California

#### Research Fellowships:

1961-63 Research Fellow, Department of Physiology, Harvard School of Public Health, Boston, Massachusetts  
1966-68 Research Associate, Medical Research Council of Great Britain, Statistical Research Unit, London, England (Support, USPHS Special Fellowship)

### Licensure and Certification:

1961-1999 California License Registration No. A019756  
1968- Massachusetts License Registration No. 30894

### Academic Appointments:

1965-66 Acting Instructor, Dept. of Medicine, Stanford Medical School, Palo Alto, California  
1968-70 Associate in Medicine, Harvard Medical School, Boston, Massachusetts  
1970-76 Assistant Professor of Medicine, Harvard Medical School, Boston, Massachusetts  
1976-80 Associate Professor of Medicine at the Peter Bent Brigham Hospital, Harvard Medical School, Boston, Massachusetts  
  
1980-82 Associate Professor of Medicine at the Brigham and Women's Hospital, Harvard Medical School, Boston, Massachusetts  
1979-86 Associate Professor of Epidemiology (Physiology) Harvard School of Public Health, Boston, Massachusetts

1982-86	Associate Professor of Medicine, Harvard Medical School, Boston, Massachusetts
1986-93	Professor of Medicine, Harvard Medical School, Boston, Massachusetts
1986-	Professor of Environmental Sciences, Harvard School of Public Health, Boston, Massachusetts
1993-2010	Edward H. Kass Professor of Medicine, Harvard Medical School, Boston, MA
2002 (Dec.)	Visiting Professor in the Wolfson Institute of Preventive Medicine, School of
-2003 (June)	Medicine and Dentistry, University of London, London, England
2010-	Edward H. Kass Distinguished Professor of Medicine, Harvard Medical School, Boston, MA

#### Hospital Appointments:

1966-1968	Clinical Assistant, University College Hospital, London, England
1968-1971	Assisting Physician, Harvard Medical Service, Boston, City Hospital, Boston, Massachusetts
1968-1972	Visiting Physician, Mount Auburn Hospital, Cambridge, Massachusetts
1969-1972	Visiting Physician, Cambridge City Hospital, Cambridge, Massachusetts
1971-1974	Associate Visiting Physician, Harvard Medical Services, Boston City Hospital, Boston, Massachusetts
1973-1977	Associate Visiting Physician, Medical Service, Boston City Hospital, Boston, Massachusetts
1974-1985	Assistant Physician, Department of Medicine, Beth Israel Hospital, Boston, Massachusetts
1976-1982	Associate Physician, Department of Medicine, Brigham and Women's Hospital, Boston, Massachusetts
1980-1990	Visiting Staff Physician, Brockton Veterans Administration Hospital, Brockton, Massachusetts
1982-1992	Physician, Department of Medicine, Brigham and Women's Hospital, Boston, Massachusetts
1985-1996	Associate Physician, Department of Medicine, Beth Israel Hospital, Boston, Massachusetts
1992-	Senior Physician, Department of Medicine, Brigham and Women's Hospital, Boston, Massachusetts
1994-2000	Physician, Department of Medicine, Brockton Veterans Administration Hospital, Brockton, Massachusetts
1996-2001	Senior Physician, Department of Medicine, Beth Israel Hospital, Boston, Massachusetts
2005-	Consulting Staff, Department of Medical Oncology, Dana-Farber Cancer Institute, Boston, Massachusetts

#### Other Professional Positions and Major Visiting Appointments:

1961-1963	Physician, Framingham Heart Disease Control Program, USPHS, Framingham, Massachusetts (Part-time)
1968-1973	Physician-in-charge, Respiratory Disease Clinic, Boston City Hospital, Boston, Massachusetts
1969-1970	Acting Chief, Respiratory Disease Division, Thorndike Memorial Laboratory, Boston City Hospital, Boston, Massachusetts
1970-1974	Chief, Division of Clinical Epidemiology, Harvard Medical Unit, Thorndike Memorial Laboratory, Boston City Hospital, Boston, Massachusetts
1970-1979	Visiting Staff, Department of Environmental Health Sciences, Physiology and Epidemiology, Harvard School of Public Health, Boston, Massachusetts
1974-1977	Chief, Division of Clinical Epidemiology, Channing Laboratory, Harvard Medical School, Boston, Massachusetts

1981-1988	Associate Director (Clinical Epidemiology), Channing Laboratory, Harvard Medical School, Boston, Massachusetts
1982 June-Sept.	Visiting Scholar, Cancer Studies, Nuffield Department Clinical Medicine, Radcliffe Infirmary, Green College, Oxford University, Oxford, England
1988-2005	Co-Director, Channing Laboratory, Harvard Medical School, Brigham and Women's Hospital, Boston, Massachusetts

Honors:

1968-1972	Edward Livingston Trudeau Fellow of the American Thoracic Society
1972-1977	Career Development Award, National Institute of Environmental Health Sciences
1973-1974	Royal Society of Medicine, Traveling Fellowship
1975-	American Epidemiological Society
1978-1992	American Society for Clinical Investigation
1981-	Fellow, American College of Epidemiology
1982 June-Sept.	Burroughs-Wellcome, U.S., Britain Traveling Fellowship
1986-	Fellow, American College of Chest Physicians
1989	Alton Oschner Award on Smoking and Health
1992-	Member, American Association of Physicians
1997	Chadwick Medal, Massachusetts Thoracic Society
1998	Abraham Lilienfeld Award, American College of Epidemiology
1998	The Medical Foundation Award for Distinguished Contributions to Health Research
1999	Health Advocacy Award, Friends of the National Institute of Nursing Research
1999	Presidential Citation, American Public Health Association
2000	Honorary Fellow, American College of Epidemiology
2000	World Lung Health Award, American Thoracic Society
2000-	Member, Institute of Medicine, National Academy of Sciences
2001	Excellence in Women's Health Award, Jacobs Institute of Women's Health
2001	Charles S. Mott Prize, General Motors Fund for Cancer Research
2001	Excellence in Women's Health Award, Brigham and Women's Hospital
2005	McArthur Research Service Award, Brigham and Women's Hospital
2005	Distinguished Service Award, American Thoracic Society
2006	First Annual Health Breakthrough Award, Ladies' Home Journal
2008	William F. Silen Lifetime Achievement in Mentoring Award, Harvard Medical School
2010	John Goldsmith Award in Environmental Epidemiology, International Environmental Epidemiology Society

Major Committee Assignments:

International, National and Regional:

1967-1968	Member Research Committee of the British Tuberculosis Association, London, England
1971-1977	Epidemiologist Consultant, Massachusetts State Department of Public Health, Bureau of Health Statistics, Boston, Massachusetts
1975-1977	Program Committee, Second Task Force for Research Planning in Environmental Health Sciences National Institute of Environmental Health Sciences (Chairman, Subtask Force on Environments and Media), Research Triangle Park, N.C.
1976-1977	Consultant to Task Force on Prevention, Control and Education in Respiratory Diseases, National Heart, Lung and Blood Institute, Washington, D.C.

1977-1978 Committee on Sulfur Oxides, Board of Toxicology and Environmental Health Hazards, Assembly of Life Sciences National Research Council, National Academy of Sciences, Washington, D.C.

1978-1980 Member, Task Force on Epidemiology of Respiratory Disease, National Heart, Lung and Blood Institute (Member of Steering Committee and Chairman of Section on Smoking and Co-Chairman on Chronic Obstructive Lung Disease and on Environmental Lung Disease), Washington, D.C.

1981-1982 Chairman, Clean Air Act Advisory Committee, American Thoracic Society and American Lung Association

1982-1983 Chairman, Epidemiology Section, Workshop on Environmentally Related Non-Oncogenic Lung Disease, U.S. Task Force on Environmental Cancer and Heart and Lung Disease

1984 Member, Task Force for Acid Deposition Research, Alberta Government/Industry, Canada

1984-1992 Consultant, Science Advisory Board for Long Range Planning, Environmental Protection Agency, Washington, D.C.

1984-1988 Member, Pulmonary Diseases Advisory Committee, Lung Division, National Heart, Lung and Blood Institute, Washington, D.C.

1984-1988 Member, Scientific Advisory Committee, Center for Health Promotion and Environmental Disease Prevention, Department of Public Health, Commonwealth of Massachusetts

1984-1986 Working Group Member, Clinical Application and Prevention Advisory Committee, Division of Epidemiology and Clinical Applications, National Heart, Lung and Blood Institute, Washington, D.C.

1985-1987 Chairman, Overview Section, Workshop on Lung Cancer From Airborne Pollutants, US Task Force on Environmental Cancer, Heart and Lung Diseases

1985-1994 Member, Policy Board, Honolulu Heart Study, National Heart, Lung and Blood Institute, Washington, D.C.

1986-1989 Member, Panel on Pulmonary Toxicology of the Biological Markers Committee, Commission on Life Sciences, National Research Council, National Academy of Sciences, Washington, D.C.

1987 Member, Task Force on Asthma Morbidity and Mortality, National Heart, Lung and Blood Institute, Washington, D.C.

1989 Member, Task Force on Research and Education for the Prevention and Control of Respiratory Diseases, National Heart, Lung and Blood Institute, Washington, D.C.

1989-1991 Member, Committee on an Assessment of a Study of Possible Occupational Health Effects on Ionizing Radiation Among Nuclear Utility Workers, Commission on Life Sciences, National Research Council, National Academy of Sciences, Washington, D.C.

1992 Member, Working Group on Environmental Asthma, National Institute for Environmental Health Sciences

1992 Chair, Ad Hoc Committee on Passive Smoking, National Heart, Lung and Blood Institute

1993 Member, Workshop on Adenocarcinoma of the Lung, National Cancer Institute

1996-2004 Member, Committee on Research Priorities for Airborne Particulate Matter, Board of Environmental Studies and Toxicology, National Research Council, National Academy of Sciences, Washington, D.C.

1997-2005 Member, Advisory Committee, Fresno Asthmatic Children's Environmental Study, University of California, Berkeley, CA

1997-2006 Member, Advisory Committee, Southern California Children's Health Study, University of Southern California, Los Angeles, CA

1998-2003 Member, Research Committee, Health Effects Institute, Charlestown, MA

1999 Facilitator, Chronic Obstructive Pulmonary Disease, Epidemiology in the Twenty-First Century, National Institute of Environmental Health Sciences

2000- Co-Chair, American Thoracic Society Questionnaire Revision Committee

2000-2006	Member External Advisory Committee, University of North Carolina/Chapel Hill Center on Environmental Health and Susceptibility, Chapel Hill, NC
2000-2007	Member, Advisory Board, Project VIVA: A Study of Health for the Next Generation, Boston, MA
2001-2007	Charter Member, Science Advisory Board, Clean Air Scientific Advisory Committee, US Environmental Protection Agency
2002-2005 2003-	Member, Study Design Working Group, National Children's Health Study Chair, International Scientific Oversight Committee, Health Effects Institute, Charlestown, MA
2006-2008	Member, Research Oversight Committee, National Heart, Lung and Blood Institute, Washington, D.C.
2007-	Panel Member for NO <sub>x</sub> and SO <sub>x</sub> , Science Advisory Board, Clean Air Scientific Advisory Committee, US Environmental Protection Agency
2007-	Panel Member Particulate Matter, Science Advisory Board, Clean Air Scientific Advisory Committee, US Environmental Protection Agency
2010	External Advisory Committee, Institute for Community Health, Cambridge, MA.

#### Medical School:

1970-1973	Tutor in Medical Sciences, Harvard Medical School
1971-1974	Co-Director of Introduction to Clinical Medicine Course, Harvard Medical Unit, Boston City Hospital
1975-1977	Member of Promotions and Graduate Committee, Harvard Medical School
1980-1983	Dean's Committee Representative to Brockton and West Roxbury V.A. Hospitals Committee on Research
1986-1987	Member, Smoking Policy Committee, Harvard Medical School
1987-1989	Member, Standing Committee on Faculty Fellowships, Harvard Medical School
1987-1989	Member, Faculty Council, Harvard Medical School
1988-1990	Member, Faculty Council Docket Committee, Harvard Medical School
1988-1991	Member, Standing Committee on Promotions, Reappointments, and Appointments, Faculty of Medicine, Harvard Medical School
1991-1998	Member, Standing Committee on Faculty Conduct, Harvard Medical School
1994-1998	Member, Standing Committee on Consultation and Appeals, Harvard Medical School
School	
1992-1995	Member, Standing Committee on Faculty Fellowships, Harvard Medical School
1993-1995	Affirmative Action Representative, Department of Medicine, Harvard Medical School
1995-1996	Member, Hearing Pool Committee, Harvard Medical School
1997-1998	Member, Master of Medical Science Oversight Committee, Harvard Medical School
1997-1998	Member, Planning Committee, Ophthalmic Clinical Research Center, Harvard Medical School
2000-2002	Faculty Council Subcommittee on Faculty and Trainees' Use of Ideas and Data Generated in the Conduct of Research, Harvard Medical School
2001-	Committee on Awards and Honors, Harvard Medical School

#### Hospital Committees:

1971-1974	Deputy Chief, Disaster Control Committee, Boston City Hospital
1972-1973	Chairman, By-Laws Committee, Boston City Hospital
1984-1990	Member, Committee to Review the Safe Preparation, Administration and Disposal of Chemotherapeutic Agents, Brigham & Women's Hospital
1985-1990	Committee on the Safe Use of Lasers, Brigham and Women's Hospital
1994-2000	Research User's Committee, Department of Medicine, Brigham and Women's Hospital
1997-2004	Co-Chair, Clinical Investigation Committee, Brigham and Women's Hospital, Boston, MA
1997-2005	Member, Research Council, Brigham and Women's Hospital, Boston, MA
1998-2005	Executive Committee, Dana Farber/Harvard Cancer Center, Boston, MA

2000-2001	Chair, Search Committee for Pulmonary Division Chief, Brigham and Women's Hospital, Boston, MA
2002-2005	Member, Dual Mentored Fellowship Award Committee, Brigham and Women's Hospital, Boston, MA

Memberships, Officer and Committee Assignments in Professional Societies:

1976-1977	Program Committee, American Medical Association, Clinical Implications of Air Pollution National Conference
1976-1978	Chairman of Questionnaire Section, American Thoracic Society, Epidemiology Standardization Project
1978-1981	Program Committee, Occupational and Environmental Health Assembly, American Thoracic Society
1978-1980	North American Representative, International Epidemiologic Association
1978-1979	Chairman-elect, Occupational and Environmental Health Assembly, American Thoracic Society
1979-1980	Chairman, Occupational and Environmental Health Assembly, American Thoracic Society
1983-1985	Assembly Committee, Regulatory and Legislative Issues, American Thoracic Society
1987-1989	Health Care Policy and Technology Assessment Committee, American Thoracic Society
1987-1994	Member, Editorial Board, American Review of Respiratory Disease
1989-1994	Member, Scientific Advisory Committee American Lung Association/American Thoracic Society
1990-1995	Member, International Society for Infectious Diseases
1991-1995	Counselor to the Board, International Society for Environmental Epidemiology
1995-1999	Member, American Thoracic Society, National Asthma Research Committee
1995-1999	Associate Editor, Environmental Research

Major Research Interests:

1. Environmentally and Occupationally Related Acute and Chronic Diseases
2. Natural History of Chronic Obstructive Lung Disease
3. Epidemiologic Studies of Risk Factors for Cancer, Heart Diseases, Pulmonary Diseases, and Risk Factors for Healthy Aging, particularly in Women

Teaching Experience:

1965-1966	Organized Grand Rounds Stanford-Palo Alto Hospital and taught Physical Diagnosis and Introduction to Clinical Medicine
1968-1977	Course Participant in Introduction to Clinical Medicine, Harvard Medical Unit, Boston City Hospital
1968-1977	Ward Attending, Harvard Medical Unit, Boston City Hospital
1969-1973	Tutor in Medical Sciences, Harvard Medical School
1969-1973	Seminar Leader, Epidemiology Courses, Harvard School of Public Health
1970-1975	Co-Director, Introduction to Clinical Medicine Courses, Harvard Medical Unit, Boston City Hospital
1972-1975	Director of Elective Courses in Clinical Epidemiology, Harvard Medical Unit, Boston City Hospital, Boston, Massachusetts
1975-2000	Program Director, Postdoctoral Research Advisor, NIH funded Research Training Program in Clinical Epidemiology of Lung and Heart Disease

1977-	Thesis Advisor, Pre-doctoral Degree Candidates in Biostatistics, Physiology and Epidemiology, Harvard School of Public Health, Boston, Massachusetts
1978-1979	Participant in Introduction to Clinical Medicine Course, Peter Bent Brigham Hospital, Boston, Massachusetts
1995-2005	Participant in Epidemiology Module of Advanced Basic Science Course, Harvard Medical School, Boston, Massachusetts
2000-2005	Co-Program Director, Postdoctoral Research Advisor, NIH funded Research Training Program in Clinical Epidemiology of Lung Disease

Principal Clinical and Hospital Service Responsibilities:

1966-1968	Clinical Assistant, Pulmonary Disease Service, University College Hospital, London, England
1968-1973	Physician-in-Charge, Pulmonary Disease Clinic, Boston City Hospital, Boston, Massachusetts
1968-1974	Pulmonary Disease Consultant, Harvard Medical Service Boston City Hospital, Boston, Massachusetts
1970-1985	Director, Pulmonary Disease Clinic, East Boston Neighborhood Health Center, East Boston, Massachusetts
1977-1998	Pulmonary Disease Consultant, Beth Israel Hospital, Boston, Massachusetts
1980-1989	Director, Occupational and Environmental Health Center, Brigham and Women's Hospital, Boston, Massachusetts
1982-2000	Pulmonary Disease Consultant, Brigham and Women's Hospital, Boston, Massachusetts
1985-1990	Laser Committee, Brigham and Women's Hospital, Boston, MA
1990-1992	Chairman, Hospital Safety Committee, Brigham and Women's Hospital, Boston, MA
1997-	Consultant, Partners Occupational Health Services, Brigham and Women's Hospital, Boston, MA

## Bibliography

### Original Reports:

1. Speizer F, Landau E. Epidemiologic studies of obstructive ventilatory disease of the lung. II. A follow-back approach for studying mortality from obstructive ventilatory diseases of the lung: Results of a pilot study. *Am Rev Respir Dis* 1961; 83:826-41.
2. Speizer FE, Ferris BG Jr. The prevalence of chronic nonspecific respiratory disease in road tunnel employees. *Am Rev Respir Dis* 1963; 88(2):205-12.
3. Speizer FE, Frank NR. A technique for measuring nasal and pulmonary flow resistance simultaneously. *J Appl Physiol* 1964; 19:176-78.
4. Frank NR, Speizer FE. SO<sub>2</sub> effect on the respiratory system in dogs: Changes in mechanical behavior at different levels of the respiratory system during acute exposure to gas. *Arch Environ Health* 1965; 11:624-34.
5. Speizer FE, Frank NR. A comparison of changes in pulmonary flow resistance in healthy volunteers acutely exposed to SO<sub>2</sub> by mouth and by nose. *Br J Indust Med* 1966; 23:75-9.
6. Speizer FE, Frank NR. The uptake and release of SO<sub>2</sub> by the human nose. *Arch Environ Health* 1966; 12:725-28.
7. Frank NR, Yoder RE, Yokoyama E, Speizer FE. The diffusion of SO<sub>2</sub> from tissue fluids into the lungs following exposure of dogs to SO<sub>2</sub>. *Health Physics* 1967; 13:31-8.
8. Speizer, FE, Doll R, Heaf PJ. Observations on the recent increase in mortality from asthma. *Br Med J* 1968; 1:335-39.
9. Speizer FE, Doll R, Heaf P, Strang LB. Investigation into use of drugs preceding death from asthma. *Br Med J* 1968; 1:339-43.
10. British Tuberculosis Association. Aspergillus in persistent lung cavities after tuberculosis. A report from the Research Committee of the British Tuberculosis Association, Tubercle (London) 1968; 49:1-11.
11. Doll R, Speizer FE. A century of asthma deaths in young people. *Br Med J* 1968; 3:245-46.
12. Doll R, Morgan LG, Speizer FE. Cancers of the lung and nasal sinuses in nickel workers. *Br J Cancer* 1970; 24:623-32.
13. Fletcher CM, Tinker CM, Peto R, Speizer FE. A prospective study of chronic bronchitis in a working population. In: Proceedings of Epidemiological Association, Primosten, Yugoslavia. Belgrade: The Publishing House 1970.
14. Fletcher CM, Peto R, Speizer FE, Tinker CM. A follow-up study of the natural history of obstructive bronchitis. In: Orié NGM and Van der Lende R, eds, Bronchitis III. Proceedings of the Third International Symposium on Bronchitis at Groningen, The Netherlands, September 23-26, 1969. The Netherlands: Charles C. Thomas, 1970.
15. Frazer PM, Speizer FE, Waters SDM, Doll R, Mann NM. The circumstances preceding death from asthma in young people in 1968 to 1969. *Br J Dis Chest* 1971; 65:71-84.
16. Fletcher CM, Peto R, Speizer FE, Tinker CM. Etude de l'histoire naturelle de la bronchite obstructive par une enquete epidemiologique prospective. *Evolut Med* 1971; 15:315-27.



17. Ferris BG Jr, Speizer FE, Worcester J, Chen HY. Adult mortality in Berlin, NH, from 1961 to 1967. *Arch Environ Health* 1971; 23:434-39.
18. Speizer FE, Ferris BG Jr. Exposure to automobile exhaust. I. Prevalence of respiratory symptoms and disease. *Arch Environ Health* 1973; 26:313-18.
19. Speizer FE, Ferris BG Jr. Exposure to automobile exhaust II. Pulmonary function measurements. *Arch Environ Health* 1973; 26:319-24.
20. Burgess W, DiBeradinis L, Speizer FE. Exposure to automobile exhaust. III. An environmental assessment. *Arch Environ Health* 1973; 26:325-39.
21. Speizer FE, Ferris BG Jr, Burgess WA, Kopito LK. Health effects of exposure to automobile exhaust. IV. Assessment of lead exposure in traffic policemen. Symposium on Environmental Health Aspects of Lead. Amsterdam, October 2-6, 1972. Luxembourg: Commission of the European Communities, 1973.
22. Tager I, Speizer FE. Role of infection in chronic bronchitis. *N Engl J Med* 1975; 292:563-71.
23. Speizer FE, Wegman DH, Ramirez A. Palpitation rates associated with fluorocarbon exposure in a hospital setting. *N Engl J Med* 1975; 292:624-26.
24. Tager IB, Speizer FE. Surveillance techniques for respiratory illness. *Arch Environ Health* 1976; 31:29-32.
25. Speizer FE, Rosner B, Tager I. Familial aggregation of chronic respiratory disease: Use of National Health Interview Survey data for specific hypothesis testing. *Int J Epidemiol* 1976; 5:167-72.
26. Tager IB, Speizer FE. Risk estimates for chronic bronchitis in smokers: A study of male-female differences. *Am Rev Respir Dis* 1976; 113:619-25.
27. Tager IB, Rosner B, Tishler PV, Speizer FE, Kass E. Household aggregation of pulmonary function and chronic bronchitis. *Am Rev Respir Dis* 1976; 114:485-92
28. Tager I, Speizer FE, Rosner B, Prang G. A comparison between the three largest and three last of five forced expiratory maneuvers in a population study. *Am Rev Respir Dis* 1976; 114:1201-03.
29. Speizer FE, Bishop Y, Ferris BG Jr. An epidemiologic approach to the study of the health effects of air pollution. In: Proceedings of the Fourth Symposium on Statistics and the Environment. Washington D.C.: National Academy of Sciences. 1976; 56-68.
30. Bishop YMM, Ferris BG Jr, Speizer FE. Problems in relating health effects to air pollution. In: Environmental Health: Quantitative Methods. Proceedings of a Conference on Environmental Health, Alta, Utah, 1976; 215-28.
31. Speizer FE, Trey C, Parker P. The uses of multiple causes of death data to clarify changing patterns of cirrhosis mortality in Massachusetts. *Am J Public Health* 1977; 67:333-36.
32. Burgess WA, DiBeradinis L, Speizer FE. Health effects of exposure to automobile exhaust. V. Exposure of toll booth operators to automobile exhaust. *Am Ind Hyg Assoc J* 1977; 38:184-91.
33. Hennekens CH, Rosner B, Jesse MJ, Drolette MJ, Speizer FE. A retrospective study of physical activity and coronary deaths. *Int J Epidemiol* 1977; 6:243-46.

34. Naseem SM, Tishler PV, Tager IB, Rosner B, Speizer FE. The relationship of host factors to the pathogenesis of chronic bronchitis and obstructive airway disease: Lymphoblast aryl hydrocarbon hydroxylase. *Am Rev Respir Dis* 1978; 117:647-55.
35. Samet JM, Speizer FE, Gaensler EA. Questionnaire reliability and validity in asbestos exposed workers. *Bull Europ Physiopath Respir* 1978; 14:177-88.
36. Ferris BG Jr, Speizer FE, Bishop Y, Prang G, Weener J. Spirometry for an epidemiologic study: Deriving optimum summary statistics for each subject. *Bull Europ Physiopath Respir* 1978; 14:145-66.
37. Belanger CF, Hennekens CH, Rosner B, Speizer FE. The Nurses' Health Study. *Am J Nurs* 1978; 78:1039-40.
38. Bain C, Hennekens CH, Rosner B, Speizer FE, Jesse MJ. Cigarette consumption and deaths from coronary heart disease. *Lancet* 1978; 1:1087-88.
39. Tager I, Tishler PV, Rosner B, Speizer FE, Litt M. Studies of the familial aggregation of chronic bronchitis and obstructive airways disease. *Int J Epidemiol* 1978; 7:55-62.
40. Levenstein MJ, Bishop YMM, Ferris BG Jr, Speizer FE. Six cities study: Standardization of pulmonary function data. In: Energy and Health: SIAM-SIMS Conference Series Number 6. Philadelphia: SIAM, 1979.
41. Ferris BG Jr, Speizer FE, Spengler JD, Dockery D, Bishop YMM, Wolfson M, Humble C. Effects of sulfur oxides and respirable particles on human health: Methodology and demography of population in study. *Am Rev Respir Dis* 1979; 120:767-79.
42. Tager IB, Weiss ST, Rosner B, Speizer FE. Effect of parental cigarette smoking on the pulmonary function of children. *Am J Epidemiol* 1979; 110:15-26.
43. Ferris BG Jr, Speizer FE, Spengler JD, Dockery D, Bishop YMM, Wolfson M, Colome S. Relationship between outdoor and indoor air pollution and the implications on health. In: Fanger PO, Valbjorn O, Eds. Indoor climate: Effects on human comfort, performance, and health in residential, commercial, and light-industry buildings. Proceedings of the First International Indoor Climate Symposium in Copenhagen, August 30 - September 1, 1978. Copenhagen: Danish Building Research Institute, 1979; 25-37.
44. Spengler JD, Ferris BG Jr, Dockery DW, Speizer FE. Sulfur dioxide and nitrogen dioxide levels inside and outside homes and the implications on health effects research. *Environ Sci and Tech* 1979; 13:1276-80.
45. Helsing KJ, Comstock GW, Speizer FE, Ferris BG, Lebowitz MD, Tockman MS, Burrows B. Comparison of three standardized questionnaires on respiratory symptoms. *Am Rev Respir Dis* 1979; 120:1221-31.
46. Schenker MB, Speizer FE. A retrospective cohort study of diesel exhaust exposure in railroad workers: Study design and methodological issues. In: Pepelko WE, Danner RB, Clarke NA, Eds. Health Effects of Diesel Engine Emissions, Cincinnati, Ohio, Proceedings of an International Symposium. Environmental Protection Agency-600/9-80:057b. December 3-5, 1979:1114-26.
47. Hennekens CH, Speizer FE, Rosner B, Bain CJ, Belanger C, Peto R. Use of permanent hair dyes and cancer among registered nurses. *Lancet* 1979; 1390-93.
48. Ferris BG Jr, Speizer FE, Bishop YMM, Spengler JD, Ware JH. The six-city study: A progress report. In: Shriner DS, Richmond CR Lindberg SE, eds. Atmospheric Sulfur Deposition: Environmental Impact and Health Effects. Ann Arbor: Ann Arbor Science, 1980; 99-108.

49. Bain C, Speizer FE, Rosner B, Belanger C, Hennekens CH. Family history of breast cancer as a risk indicator for the disease. *Am J Epidemiol* 1980; 111:301-08.
50. Rosenberg L, Hennekens CH, Rosner B, Belanger C, Rothman KJ, Speizer FE. Oral contraceptive use in relation to nonfatal myocardial infarction. *Am J Epidemiol* 1980; 111:59-66.
51. Speizer FE, Ferris BG Jr, Bishop YMM, Spengler JD. Health effects of indoor NO<sub>2</sub> exposure: Preliminary results. In: Lee SD, ed. Nitrogen Oxides and Their Effects on Health. Ann Arbor: Ann Arbor Science, 1980, pp. 343-59.
52. Speizer FE, Ferris BG Jr, Bishop YMM, Spengler J. Respiratory disease rates and pulmonary function in children associated with NO<sub>2</sub> exposure. *Am Rev Respir Dis* 1980; 121:3-10.
53. Barton J, Bain C, Hennekens CH, Rosner B, Belanger C, Roth A, Speizer FE. Characteristics of respondents and non-respondents to a mailed questionnaire. *Am J Public Health* 1980; 70:823-25.
54. Weiss ST, Tager IB, Speizer FE, Rosner B. Persistent wheeze: Its relation to respiratory illness, cigarette smoking and level of pulmonary function in a population sample of children. *Am Rev Respir Dis* 1980; 122:697-707.
55. Belanger C, Speizer FE, Hennekens CH, Rosner B, Willett W, and Bain C. The Nurses' Health Study: Current findings. *Am J Nurs* 1980; 80:1333.
56. Willett WC, Hennekens CH, Bain C, Rosner B, Speizer FE. Cigarette smoking and non-fatal myocardial infarction in women. *Am J Epidemiol* 1981; 113:575-82.
57. Willett WC, Bain C, Hennekens CH, Rosner B, Speizer FE. Oral contraceptives and risk of ovarian cancer. *Cancer* 1981; 48:1684-87.
58. Rosenberg L, Hennekens CH, Rosner B, Belanger C, Rothman KJ, Speizer FE. Early menopause and the risk of myocardial infarction. *Am J Obstet Gynecol* 1981; 139:47-51.
59. Ware JH, Thibodeau LA, Speizer FE, Colome S, Ferris BG Jr. Assessment of the health effects of atmospheric sulfur oxides and particulate matter: Evidence from observational studies. *Environmental Health Perspectives* 1981; 41:255-76.
60. Ferris BG Jr, Speizer FE, Ware JH. Use of tests of pulmonary function to measure effects of air pollution. In Measurement of Risks, G.G. Berg and H.D. Maillie, eds., Plenum, New York, 211-230, 1981.
61. Samet JM, Speizer FE, Bishop Y, Spengler JD, Ferris BG Jr. The relationship between air pollution and emergency room visits in an industrial community. *Air Pollution Control Assoc J* 1981; 31:236-240.
62. Bain C, Willett W, Hennekens CH, Rosner B, Belanger C, Speizer FE. Use of postmenopausal hormones and risk of myocardial infarction. *Circulation* 1981; 64:42-46.
63. Schenker MB, Speizer FE, Taylor JO. Acute upper respiratory symptoms resulting from exposure to zinc chloride aerosol. *Environ Res* 1981; 25:317-24.
64. Willett W, Sampson L, Bain C, Rosner B, Hennekens CH, Witschi J, Speizer FE. Vitamin supplement use among registered nurses. *Am J Clin Nutr* 1981; 34:1121-25.
65. Bain C, Willett W, Rosner B, Speizer FE, Belanger C, Hennekens CH. Early age at first birth and decreased risk of breast cancer. *Am J Epidemiol* 1981; 114:705-09.

66. Bain C, Hennekens CH, Speizer FE, Rosner B, Willett W, Belanger C. Oral contraceptive use and malignant melanoma. *JNCI* 1982; 68:537-39.
67. Dockery DW, Ware JH, Ferris BG Jr, Speizer FE, Cook NR, Herman SM. Change in pulmonary function in children associated with air pollution episodes. *Air Pollution Control Assoc J* 1982; 32:937-42.
68. Schenker MB, Samet JM, Speizer FE. Effect of cigarette tar content and smoking habits on respiratory symptoms in women. *Am Rev Respir Dis* 1982; 125:684-90.
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70. Samet JM, Tager I, Speizer FE. The relationship between respiratory illness in childhood and chronic airflow obstruction in adulthood. *Am Rev Respir Dis* 1983; 127:508-23.
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