

CURRICULUM VITAE

CARL M. SHY

I. PERSONAL DATA

Current Home Address 6624 Bradshaw Quarry Road
Efland, N.C. 27243
(919) 563-4901

Current Office Address University of North Carolina
Department of Epidemiology,
CB# 7400, McGavran-Greenberg
Chapel Hill, N.C. 27599-7400
(919) 966-7446

E-mail Address: CSHY@SPH.UNC.EDU

II. SUMMARY OF ACADEMIC RECORD

1. St. Louis University, A.B. in Philosophy and Economics, 1956.
2. Marquette University School of Medicine, M.D., 1962.
3. University of Michigan Medical Center, Intern and Internal Medicine Resident I, 1962-1964.
4. University of Michigan School of Public Health, M.P.H. in Epidemiology, 1965; Dr.P.H. in Epidemiology, 1967.

III. ACADEMIC AND PROFESSIONAL APPOINTMENTS

1. 1977 - Present Professor, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill.
2. 1993 - 1996 Chairman, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill.
3. 1994 - 1996 Clinical Professor, Department of Family Medicine, School of Medicine, University of North Carolina at Chapel Hill
4. 1979 - 1996 Joint appointment: Professor, Department of Environmental Sciences and Engineering, School of Public Health, University of North Carolina at Chapel Hill.
5. 1981 - 1988 Joint appointment: Clinical Professor, Department of Family Medicine, School of Medicine, University of North Carolina at Chapel Hill.
6. 1980 - 1981 Visiting Professor, Commonwealth Institute of Health (School of Public Health) University of Sydney and Visiting Professor of Medicine, Department of Medicine, Royal North Shore Hospital, St. Leonards, New South Wales, Australia.

7. 1974 - 1980 Director, Institute for Environmental Studies, University of North Carolina at Chapel Hill.
8. 1975 - 1977 Research Professor, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill.
9. 1974 - 1975 Lecturer, Department of Epidemiology, School of Public Health, University of North Carolina at Chapel Hill.
10. 1972 - 1973 Director, Human Studies Laboratory, U.S. Environmental Protection Agency, Research Triangle Park, N.C. (Final Grade was GS-16).
11. 1971 - 1972 Deputy Director, Division of Health Effects Research, U.S. Environmental Protection Agency, Research Triangle Park, N.C.
12. 1967 - 1971 Chief, Epidemiology Branch, Division of Health Effects Research, U.S. Environmental Protection Agency and formerly U.S. Public Health Service, National Air Pollution Control Administration, Research Triangle Park, N.C. (1968-1971) and Cincinnati, Ohio (1967-1968).
13. 1968 - 1973 Adjunct Assistant Professor, Department of Epidemiology, University of North Carolina at Chapel Hill.
14. 1969 - 1976 Adjunct Assistant Clinical Professor of Epidemiology, Duke University.
- IV. PROFESSIONAL SERVICE
1996-present
- 1994 - 1999 Member, Love Canal Expert Advisory Committee, New York State Department of Health
- 1994 - 1999 Consultant, Health Effects Institute. Member of Oversight Committee on Particulate Epidemiology Evaluation Project.
- 1994 - 1999 Member, Panel on Health Effects of Waste Incineration. National Research Council, National Academy of Sciences.
- 1997-1999 Member, Health and Ecological Effects Subcommittee, Clean Air Science Advisory Committee, U.S. Environmental Protection Agency
- 1999 Chair, Working Group on the IARC Monograph on the Evaluation of Carcinogenic Risks to Humans, Volume 75, Physical Agents: Ionizing Radiation, Part I, External Sources.
- 1996 Chair, Working Group on the IARC Monograph on the Evaluation of Carcinogenic Risks to Humans, Volume 68, Silica and Some Silicates
- 1995-1996 U.S. Environmental Protection Agency. Consultant to Clean Air Science Advisory Committee on review of Air Quality Criteria for Particulate Matter.

1979 - 1981	Member, Committee on Toxicology, National Research Council/National Academy of Sciences.
1974 - 1977	Consultant, National Center for Toxicological Research.
1974 - 1980	Consultant, World Health Organization.
1975 - 1982	Consultant, U.S. Congress Office of Technology Assessment.
1975 - 1980	Consultant, California Air Resources Board.

V. MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Society for Epidemiological Research, 1971-present.
- International Society for Environmental Epidemiology, 1990- present.
Member, Board of Coucelors, 1994-1997.
- American Public Health Association, 1990-present.
- American College of Epidemiology, 1996-present
- Alpha Omega Alpha National Honorary Medical Fraternity, 1961.
- Delta Omega National Honorary Public Health Society, 1965.

VI. UNIVERSITY OF NORTH CAROLINA COMMITTEES

1. Chairman, Search Committee for Chair of the Department of Health Policy & Administration, School of Public Health, 1985-86.
2. Chairman, Radiation Safety Advisory Committee, 1978-1980, and member, 1977-1980.
3. Chairman, Admissions Committee, Department of Epidemiology, 1975-1980. Member 1981-1984; Chairman 1985-1988, 1991-92.
4. Vice Chairman, Environmental Studies Council, University of North Carolina General Administration, 1977-1979, and member, 1974-1980.
5. Chairman, Institutional Review Board on Protection of Human Subjects, School of Public Health, 1988-1993. Member, 1997-2000
6. Member, Biomedical Sciences Research Support Grant Committee, School of Public Health, 1981-84.
7. Member, Academic Affairs Committee, School of Public Health, 1994-1999.
8. Member, Committee on a Curriculum in Practice and Leadership, School of Public Health, 1995.
9. Member, Steering Committee for Interdisciplinary Curriculum in Leadership and Practice, School of Public Health, 1995.
10. Member, Preventive Medicine Residence Advisory Committee, School of Medicine, 1987-1996.

11. Member, Advisory Board, Sheps Center for Health Services Research, UNC-Chapel Hill, 1994-1996.

VII. PROFESSIONAL CERTIFICATION

1. 1971 - Present Medical licensure, State of N.C.
2. 1968 Medical licensure, State of Ohio.
3. 1972 Diplomate, National Board of Medical Examiners.
4. 1997 Fellow, American College of Epidemiology

VIII. HONORS AND AWARDS

Superior Service Medal, U.S. Department of Health, Education and Welfare, 1970.

Governor's Award as Air Conservationist of the Year. North Carolina Wildlife Federation, 1988.

McGavran Award for Excellence in Teaching, School of Public Health, UNC-CH, 1994.

IX. TEACHING

Epidemiology 160	Principles of Epidemiology (core course for all School of Public Health students not majoring in Epidemiology. Fall and Spring semesters. 1993-present 3 hours
Epidemiology 276	Environmental Epidemiology Spring Semester, 1975-1996 3 hours
Epidemiology 162	Epidemiology of Environmental/ Occupational Health, 1975-80 3 hours
Epidemiology 160	Principles of Epidemiology, 1981- 1986 3 hours
Epidemiology 140	Problems in Epidemiology (individual student projects) Fall and Spring Semesters, annually
Epidemiology 393, 394	Master's Thesis and Doctoral Dissertation (individual student projects) Fall and Spring Semesters, annually
Occupational & Environmental Epidemiology	New England Epidemiology Institute, Amherst, Mass. Summer 1981-1985 German-American Summer Program in Epidemiology, Federal Republic of Germany, July 1987 and July 1988
Clinical Epidemiology & Preventive	Core faculty member of the annual course taught to second year medical students at UNC, 1982-present

Medicine

Occupational & Environmental Epidemiology German-American Epidemiology Summer School: 1987- 1990. Taught a two week short course to 25-30 students each summer.

X. FUNDED RESEARCH

1. Pesticide Usage and Cancer Mortality. Principal investigator.
Sponsor: EPA
Annual Funding: \$105,000 (1975-1978)
2. Recruitment of Subjects for Physiological and Environmental Health Research. Principal investigator
Sponsor: EPA
Annual Funding: \$180,000 (1974-1981)
3. Analysis of Epidemiologic Studies of the Health Effects of Air Pollution. Principal investigator
Sponsor: EPA
Annual Funding: \$160,000 (1977-1980)
4. Health and Mortality Studies of Radiation Exposed Workers - Collaborative research project with Oak Ridge Associated Universities. Principal investigator
Sponsor: Department of Energy
Annual Funding: \$300,000 (1979-1994)
5. Colon Cancer and Water Quality in North Carolina. Principal investigator
Sponsor: NIH
Annual Funding: \$65,000 (1980-1982)

6. Respiratory Disease in a Furniture Plant
Sponsor: NIOSH
Annual Funding: \$10,000 (1982-1983)
7. Occupational cancer in the N.C. Dusty Trades Industry. Principal investigator
Sponsor: NCI/NIOSH
Annual Funding: \$260,000 (1985-1989)
8. Micronuclei in Buccal Mucosa of North Carolina Women in Relation to Snuff Use.
Principal investigator (Doctoral research of Ms. Paige Tolbert)
Sponsor: International Life Sciences Institute and Smokeless Tobacco Research Council, Inc.
Annual Funding: \$31,000 (1987-1988)
9. Micronuclei in Bronchial Cells of Uranium Miners
Principal Investigator (Doctoral Research of Dana Loomis)
Sponsor: National Cancer Institute
Annual Funding: \$24,700 (1988-89)
10. Respiratory Effects of Waste Incinerators.
Sponsor: ATSDR
Annual funding: \$300,000 (1991-1995)
11. Helping School Children with Breathing Problems.
Sponsor: Glaxo-Wellcome, Inc.
Annual funding: \$65,000 (1996)
12. Survey of Asthma Prevalence in North Carolina Schools
Sponsor: North Carolina Department of Health and Human Services
Annual funding: \$225,000 (1999-2000)

XI. PUBLICATIONS

1. Shy, C.M. and Meade, R.C.: The hippuric acid radioisotope renogram, Marquette Med. Rev. 26:139-147, 1961.
2. Shy, C.M.: Diagnostic procedures for determining hypertension of renal origin. Marquette Med. Rev. 26:194-199, 1961.
3. Meade, R.C. and Shy, C.M.: The evaluation of individual kidney function using radioiodohippurate sodium. J. Urol. 86:170, 1961.
4. Shy, C.M.: A comparison of psychoanalytic and philosophical thought. Marquette Med. Rev. 27:61-67, 1962.
5. Shy, C.M.: Of Man and Machines (Student Editorial). Marquette Med. Rev.
6. Associate editor of Vol. 27, No. 3 (March 1962) issue of Marquette Med. Rev.
7. Shy, C.M.: The pituitary-thyroid relationship in Graves' disease. Marquette Med. Rev. 27:162-166, 1962.
8. Shy, C.M.: The determinants of the one-second forced expiratory volume, as a measure of chronic obstructive lung disease, in a total population study. Doctoral dissertation submitted and accepted in partial fulfillment of the requirements for the degree of Doctor of Public Health, April 1967. Dissertation is available in microfilm from the University Microfilms, Ann Arbor, Michigan.

9. Shy, C.M., Creason, J.P., Pearlman, M.E., McClain, K.E., Benson, F.B. and Young, M.M. The Chattanooga School Children Study: Effects of Community Exposure and Results of Ventilatory Function Testing. J. Air Pollution Control Assoc. 20:539-545, 1970.
10. Shy, C.M., Creason, J.P., Pearlman, M.E., McClain, K.E., Benson, F.B. and Young, M.M. The Chattanooga School Children Study: Effects of Community Exposure to Nitrogen Dioxide. 2. Incidence of Acute Respiratory Illness. J. Air Pollution Control Assoc. 20:582-588, September 1970.
11. Shy, C.M.: Health Effects. Chapter in National Emissions Standards Study, A Report to the Congress of the U.S. by the Secretary of H.E.W., March, 1970.
12. Cohen, A.A., Shy, C.M., Benson, F.B., Riggan, W.R. and Newill, V.A.: Air Pollution Episodes: Guides for Health Departments and Physicians. HSMHA Health Reports, June 1971.
13. Hammer, D.I., Finklea, J.F., Hendricks, R.H., Shy, C.M. and Horton, R.J.M.: Hair Trace Metal Levels and Environmental Exposure. Amer. J. Epid. 93:84-92, February 1971.
14. Pearlman, M.E., Finklea, J.F., Shy, C.M., VanBruggen, J.B. and Newill, V.A.: Chronic Oxidant Exposure and Epidemic Influenza. Environmental Research, June 1971.
15. Pearlman, M.E., Finklea, J.F., Creason, J.P., Shy, C.M., Young, M.D. and Horton, R.J.M.: Nitrogen Dioxide and Lower Respiratory Illness, Pediatrics, 47(2), February 1971.
16. Shy, C.M.: Environmental Pollution in Industrializing Countries. Chapter in Community Medicine in Developing Countries, edited by Abdel R. Omran, New York Springer Publishing Co., 1974, pp.297-308.
17. Hammer, D.I., Finklea, J.F., Hendricks, R.H., Hinners, T.A., Riggan, W.B. and Shy, C.M.: Trace Metals in Human Hair as a Simple Epidemiologic Monitor of Environmental Exposure. Trace Substance in Environmental Health, Vol. 5, 1972.
18. Cohen, A.A., Bromberg, S., Buechley, R.W., Heiderscheit, L.T. and Shy, C.M.: Asthma and Air Pollution from a Coal-Fueled Power Plant. Amer. J. Public Health 62:1181-1188, September 1972.
19. Hauser, T.R. and Shy, C.M.: Position Paper: NO_x Measurement. Environ. Sc. and Technol. 6:890-894, October 1972.
20. Shy, C.M., Hasselblad, V., Heiderscheit, L.T. and Cohen, A.A.: Environmental Factors in Bronchial Asthma. Published in Environmental Factors in Respiratory Disease, New York: Academic Press, 1972.
21. Love, G.J., Shy, C.M., Calafiore, D.C., Benson, F.B. and Finklea, J.F.: The Strategy for Determining the Effects of Environmental Pollution on Human Health. Environ. Letters 3(1):13-20, 1972.
22. Pinkerton, C., Creason, J.P., Shy, C.M., Hammer, D.I., Bueckley, R.W. and Murphy, G.K.: Cadmium Content of Milk and Cardiovascular Disease Mortality. Trace Substances in Environ. Health, Vol. 5, 1972.
23. Riggan, W.B., Hammer, D.I., Finklea, J.F., Hasselblad, V., Sharp, C.R., Burton, R.M. and Shy, C.M.: CHESS - A Community Health and Environmental Surveillance System. Published in Proceedings of Sixth Berkeley Symposium on Mathematical Statistics and Probability, Vol. VI, Effects of Pollution on Health, University of California Press, 1972.

24. Finklea, J.F., Cranmer, M.F., Hammer, D.I., McCabe, L.F., Newill, V.A. and Shy, C.M.: Health Intelligence for Environmental Protection: A Demanding Challenge. Published in Proceedings of the Sixth Berkeley Symposium on Mathematical Statistics and Probability, Vol. VI, Effects of Pollution on Health, University of California Press, 1972.
25. Pearlman, M.E., Finklea, J.F., Creason, J.P., Shy, C.M., Young, M.M. and Horton, R.J.M.: Nitrogen Dioxide and Lower Respiratory Illness. Published in October 18, 1971 issue of Modern Medicine. (Abstract).
26. Shy, C.M.: Referee for article "Air Pollution: A Major Public Health Problem" by Ayres, Evans and Buehler. Published as CRC Critical Review in Clinical Laboratory Sciences, January 1972.
27. Shy, C.M., Hasselblad, V., Burton, R.M., Nelson, C.J. and Cohen, A.A: Effects of Air Pollution on Ventilatory Function of U.S. School Children: Results of Studies in Cincinnati, Chattanooga and New York.
28. Nelson, C.J., Shy, C.M., English, T., Sharp, C.R., Surveys of Irritation Symptoms During Acute air Pollution Exposures: 1970 Summer and 1971 Spring Studies. J. Air Poll. Contr. Assoc. 23:81-86, February 1973.
29. Shy, C.M. and J.F. Finklea. Air Pollution Affects Community Health. Environ. Sc. and Techn. 7:204-208, March 1973.
30. Shy, C.M., J.F. Finklea, D.C. Calafiore, F.B. Benson, W.C. Nelson and V.A. Newill. A Program of Community Health Surveillance Studies (CHESS). Published in Determination of Air Quality - Proceedings of the ACS Symposium on Determination of Air Quality, pp.41-48, Plenum Press, New York-London, 1972.
31. Shy, C.M., C.J. Nelson, F.B. Benson, R.S. Chapman, W.B. Riggan and V.A. Newill. Ventilatory Function in School Children: 1967-1968 Testing in Cincinnati Neighborhoods. Published in Health Consequences of Sulfur Oxides: A Report From CHESS 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication #EPA-650/1-74-004, May 1974.
32. Shy, C.M., V. Hasselblad, J.F. Finklea, R.M. Burton, M. Pravda, R.S. Chapman, and A.A. Cohen. Ventilatory Function in School Children 1970-1971 Testing in New York Studies. Published in Health Consequences of Sulfur Oxides: A Report from CHESS, 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication #EPA-650/1-74-004, May 1974.
33. Shy, C.M., W.B. Riggan, W.C. Nelson, R.C. Dickerson, F.B. Benson, J.F. Finklea, A. Colucci, D.I. Hammer, and V.A. Newill: An Overview of CHESS. Published in Health Consequences of Sulfur Oxides: A Report from CHESS, 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication #EPA-650/1-74-004, May 1974.
34. Finklea, J.F., C.M. Shy, G.J. Love, C.G. Hayes, W.C. Nelson, R.S. Chapman and D.E. House: Health Consequences of Sulfur Oxides: Summary and Conclusions Based Upon CHESS Studies of 1970-1971. Published in Health Consequences of Sulfur Oxides: A Report from CHESS, 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication # EPA-650/1-74-004, May 1974.
35. House, D.E., J.F. Finklea, C.M. Shy, D.C. Calafiore, W.B. Southwick and L.J. Olsen. Prevalence of Chronic Respiratory Disease Symptoms in Adults: 1970 Survey of Salt Lake Basin Communities. Published in Health Consequences of Sulfur Oxides: A Report from CHESS 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication No. EPA-650/1-74-004, May 1974.
36. Hayes, C.G., D.I. Hammer, C.M. Shy, V. Hasselblad, C.R. Sharp, J.P. Creason and K.E. McClain. Prevalence of Chronic Respiratory Disease Symptoms in Adults: 1970 Survey of Five Rocky Mountain Communities. Published in Health

- Consequences of Sulfur Oxides: A Report from CHES 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication No. EPA-650/1-74-004, May 1974.
37. Finklea, J.F., J. Goldberg, V. Hasselblad, C.M. Shy and C.G. Hayes. Prevalence of Chronic Respiratory Disease Symptoms in Military Recruits: Chicago Induction Center, 1969-1970. Published in Health Consequences of Sulfur Oxides: A Report from CHES 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication No. EPA-650/1-74-004, May 1974.
 38. Finklea, J.F., J.G. French, G.R. Lowrimore, J. Goldberg, C.M. Shy, and W.C. Nelson. Prospective Surveys of Acute Lower Respiratory Disease in Volunteer Families: Chicago Nursery School Study, 1969-1970. Published in Health Consequences of Sulfur Oxides: A Report from CHES 1970-1971. U.S. Environmental Protection Agency, Research Triangle Park, N.C. Publication No. EPA-650/1-74-004, May 1974.
 39. Chapman, R.S., C.M. shy, J.F. Finklea, D.E. House, H.E. Goldberg and C.G. Hayes. Chronic Respiratory Disease in Military Inductees and Parents of School Children. Arch. Environ. Health 27:138-142, 1973.
 40. Shy, C.M. Summary of the Workshop on Contributions of Multiple Factors in Causing Disease. Annals New York Acad. Sc. 221:97-98, 1974.
 41. Shy, C.M. Human Health Consequences of Nitrogen Dioxide: A Review. In Proceedings of the Conference on Health Effects of Air Pollutants, National Academy of Sciences - National Research Council, October 3-5, 1973. Prepared for the Committee on Public Works, United States Senate. Committee Print, Serial No. 93-15. U.S. Govt. Printing Office, Washington, D.C., November 1973.
 42. Shy, C.M. Contribution to the chapter "Health Effects of Nitrogen Oxides", in Air Quality and Automobile Control. A Report by the Coordinating Committee on Air Quality Studies, National Academy of Sciences - National Academy of Engineering. Prepared for the Committee on Public Works, United States Senate. Committee Print, Serial No. 93-24. U.S. Govt. Printing Office, Washington, D.C., September 1974.
 43. Shy, C.M. and D. Gardner. Environmental Health Criteria for Photochemical Oxidants. First draft report prepared for the World Health Organization, March 1975.
 44. Shy, C.M. Lung Cancer and the Urban Environment: A Review. Chapter 1 in Clinical Implications of Air Pollution Research. Publishing Sciences Group, Inc., Acton, Mass., 1976.
 45. Knelson, J.H., French, J.G., and Shy, C.M. Health Effects Basis for U.S. Air Quality Standard for Nitrogen Dioxide. In Proceedings of the Colloquium on Nitrogen Oxides, VDI Kommission Reinhaltung der Luft, Dusseldorf, Germany, 1975.
 46. Finklea, J.F., Shy, C.M., Moran, J.B., Nelson, W.C., Larsen, R.I., and Okland, G.G. The Role of Environmental Health Assessment in the Control of Air Pollution. Advances in Envir. Sc. and Technol. 7:316-389, 1977.
 47. Lednar, W.M., H.A. Tyroler, A.J. McMichael, and C.M. Shy. The Occupational Determinants of Chronic Disabling Pulmonary Disease in Rubber Workers. J. Occup. Med., April 1977, Vol. 19, No. 4, pp.263-268.
 48. Shy, C.M. Health Effects of the Fossil Fuel Energy System. In Illinois Coal, Proceedings of the Fourth Annual Illinois Energy Conference. Office of Publications Services, University of Illinois at Chicago Circle, pp.252.263, 1976.

49. Shy, C.M. Health Consequences of Sulfur Oxides. Chapter 3 in Sulfur in the Environment, Part II: Ecological Impacts. A. Nriagu, ed., New York: John Wiley & Sons, 1978, pp.75-108.
50. Shy, C.M. (Principal Author and Chairman, Ad Hoc Committee on Health Effects of Air pollution, American Thoracic Society). Health Effects of Air Pollution. New York: American Lung Association, 1978, 48pp.
51. Shy, C.M., Kleinbaum, D., and Morgenstern, H. Effect of Misclassification of Exposure Status in Epidemiological Studies of Air Pollution-Health Effects. Bulletin of the New York Academy of Medicine, 54:1155-1165, 1978.
52. Shy, C.M. Toxic Substances from Coal Energy: An Overview. Environ. Health Perspectives 32:291-245, 1979.
53. Shy, C.M. Epidemiologic Evidence and the United States air Quality Standards. Am. J. Epid. 110:661-671, 1979.
54. Shy, C.M. and Love, G.J. Recent Evidence on the Human Health Effects of Nitrogen Dioxide. Chapter 18, pp.291-305 in Nitrogen Oxides and their Effects on Health. S.O. Lee, ed., Ann Arbor, Mich.: Ann Arbor Science Publishers, 1980.
55. Shy, C.M., Struba, R.J. Epidemiologic Evidence for Human Cancer Risk Associated with Organics in Drinking Water. Chapter 89, pp.1029-1041 in Water Chlorination. Environmental Impact and Health Effects, Vol. 3. R.L. Jolley, W.A. Brungs, R.B. Cumming, V.A. Jacobs, eds., Ann Arbor, Mich., Ann Arbor Science, 1980.
56. Shy, C.M. Health Consequences of Alternative Energy Systems. Chapter 6, pp.79-99 in Social and Political Perspectives on Energy Policy. K.M. Gentemann, ed., New York, Praeger, 1981.
57. Love, G.J., Lan, S., Shy, C.M., Struba, R.J. Incidence and Severity of Acute Respiratory Illness in Families Exposed to Different Levels of Air Pollution, New York Metropolitan Area, 1971-1972. Arch. Environ. Health, 36:66-74, 1981.
58. Gordon, J.E., Shy, C.M. Agricultural Chemical Use and Congenital Cleft Lip and/or Palate. Arch. Environ. Health, 36:213-220, 1981.
59. Winn, D.M., Blot, W.J., Shy, C.M., Pickle, L.W., Toledo, A., Fraumeni, J.F., Jr. Snuff Dipping and Oral Cancer Among Women in the Southern United States. New Engl. J. Med., 304:745-749, 1981.
60. Lan, S., Shy, C.M. Effect of Air Pollution on Chronic Respiratory Disease in the New York City Metropolitan Area, 1972. Environ. Health Persp. 42:203-214, 1981.
61. Shy, C.M., Struba, R.J. Air and Water Pollution. Chapter 19, in Cancer Epidemiology and Prevention, David Schottenfeld and Joseph F. Fraumeni, Jr., eds. Philadelphia: W.B. Saunders Co., 1982, pp.336-363.
62. Love, G.J., Lan, S.P., Shy, C.M. Acute Respiratory Illness in Families Exposed to Nitrogen Dioxide Ambient Air Pollution in Chattanooga, Tennessee. Arch. Environ. Health, 36(2):75-80, 1982.
63. Love, G.J., Lan, S.P., Shy, C.M. A Study of Acute Respiratory Disease in Families Exposed to Different Levels of Air Pollution in the Great Salt Lake Basin, Utah, 1971-1972 and 1972-1973. Environ. Health Persp. 44:165-174, 1982.
64. Winn, D.M., Blot, W.J., Shy, C.M., Fraumeni, J.F., Jr. Occupation and Oral Cancer Among Women in the South. Am. J. Indus. Med., 3:161-167, 1982.

65. Clark, L.C., Shy, C.M., Portier, K.M., Most, B.M., and Florin, J.W. Cancer Mortality and Agricultural Activity: An Association with Cotton Production and Large Farms. Chapter in *Environmental Epidemiology*, Paul E. Leaverton, ed., Praeger, New York, 1982.
66. Dement, J.M., Harris, R.L., Symons, M.J. and Shy, C.M. Exposures and Mortality Among Chrysotile Asbestos Workers. Part I: Exposure Estimates. Am. J. Ind. Med. 4:399-419, 1983.
67. Dement, J.M., Harris, R.L., Symons, M.J. and Shy, C.M. Exposures and Mortality Among Chrysotile Asbestos Workers. Part II. Mortality. Am. J. Ind. Med. 4:421-433, 1983.
68. Clark, L.C., Graham, G.F., Crouse, R.G., Grimson, R., Hulka, B. and Shy, C.M. Plasma Selenium and Skin Neoplasms: A Case-Control Study. *Nutrition and Cancer*, 6(1):13-21, 1984.
69. Shy, C.M. Air Pollution and Lung Cancer. Chapter in *Lung Cancer: Causes and Prevention*. Deerfield Beach, Fla., Verlag Chemie International, Inc., 1984.
70. Piper, D.W., McIntosh, J.H., Ariotti, D.E., Calogiuri, J.V., Brown, R.W. and Shy, C.M. Life events and chronic duodenal ulcer: a case control study. *Gut*, 22:1011-1017, 1984.
71. Checkoway, H., Mathew, R.M., Shy, C.M., Watson, J.E., et al. Radiation, work experience, and cause specific mortality among workers at an energy research laboratory. Brit J Ind Med 42:525-533, 1985.
72. Checkoway, H., Mathew, R.M., Hickey, J.L.S., Shy, C.M., Harris, R.L., Hunt, E.W. and Waldman, G.T. Mortality among workers in the Florida phosphate industry. I. Industry-wide cause-specific mortality patterns. J Occup Med 27(12):885-892, 1985.
73. Checkoway, H., Mathew, R.M., Hickey, J.L.S., Shy, C.M., Harris, R.L., Hunt, E.W. and Waldman, G.T. Mortality among workers in the Florida phosphate industry. II. Cause-specific mortality relationships with work areas and exposures. J Occup Med 27(12):893-896, 1985.
74. Shy, C.M. Chemical Contamination of Water Supplies. Environmental Health Perspectives 62:399-406, 1985.
75. Cragle, D.L., Shy, C.M., Struba, R.J., and Siff, E.J. A Case-Control Study of Colon Cancer and Water Chlorination in North Carolina. Chapter in Water Chlorination, Chemistry, Environmental Impact and Health effects, Vol. 5, Robert L. Jolley and Richard J. Bull, et al., eds., Lewis Publishers, Inc., 1985.
76. Goldsmith, D.F., Winn, D.M., Shy, C.M., eds. *Silica, Silicosis, and Cancer*. Praeger, New York, 1986.
77. Shy, C.M. and McGaghie, W.C. Planning a Research Study. Chapter in Handbook for the Academic physician. W.C. McGaghie and J.J. Frey, eds., Springer-Verlag New York, Inc., pp.205-216, 1986.
78. Pearce, N., Checkoway, H. and Shy, C.M. Time-related factors as potential confounders and effect modifiers in studies based on an occupational cohort. Scand J Work Environ Health 12:97-107, 1986.
79. Shy, C.M. Epidemiologic Principles and Methods for Occupational Health Studies. Chapter in Occupational Respiratory Diseases, James A. Merchant, ed., DHSS (NIOSH) Publication No. 86-102, pp.103-136, September 1986.

80. Goldsmith, D.F. and Shy, C.M. Respiratory health effects from occupational exposure to wood dusts. Scand J Work Environ Health 14:1-15, 1988.
81. Blair, A.A., Steenland, K., Shy, C.M., et al. Control of Smoking in Occupational Epidemiologic Studies: Methods and Needs. Am J Ind Med 13:3-4, 1988.
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