CURRICULUM VITAE

Sander Greenland

E-mail address: lesdomes@ucla.edu

Telephone: 1-310-455-1197 (no fax)

Degrees and Student Honors

1972 A.B. University of California, Berkeley

Major: Mathematics; Minor: Psychology

Honors: Departmental Scholar in Mathematics; High Honors in

Mathematics at Graduation; Phi Beta Kappa

1973 M.A. University of California, Berkeley

Major: Mathematics

Honors: Regents Fellowship in Mathematics

1976 M.S. University of California, Los Angeles

Major: Public Health

1978 Dr.P.H. University of California, Los Angeles

Major: Epidemiology; Minor: Mathematics Honors: Regents Fellowship in Epidemiology

Professional Positions

1973-74	Research Assistant, D	epartment of Statistics,	University of	f California,
---------	-----------------------	--------------------------	---------------	---------------

Berkeley

1975-78 Statistician, UCLA School of Nursing and UCLA School of Public Health

Fall 1978 Assistant Professor of Health Sciences, California State University

Northridge

Winter 1979 Assistant Professor of Biostatistics, Harvard School of Public Health

Summer-Fall 1979 Assistant Research Epidemiologist, UCLA School of Public Health

1980-1984 Assistant Professor of Epidemiology, UCLA School of Public Health

1984-1989 Associate Professor of Epidemiology, UCLA School of Public Health

Fall 1985 Visiting Associate Professor of Biostatistics, University of Sydney School

of Public Health

1995-2004	Research Professor of Preventive Medicine, University of Southern California School of Medicine (collaborative appointment)
1989-2012	Professor of Epidemiology, UCLA School of Public Health (primary appointment)
1999-2012	Professor of Statistics, UCLA College of Letters and Science (secondary appointment)
2012-present	Research Professor and Emeritus Professor of Epidemiology and Statistics, University of California, Los Angeles

Professional Certifications and Honors

- 1993: Chartered Statistician and Fellow, Royal Statistical Society
- 1998: Fellow, American Statistical Association
- 2009: Mildred Morehouse Lecturer, Albert Einstein Medical College
- 2009: UCLA School of Public Health Student Association Teaching Award
- 2010: Advisory Committee Service Award, U.S. Food and Drug Administration
- 2010: Bradford Hill Memorial Lecturer, London School of Hygiene and Tropical Medicine
- 2012: UCLA Fielding School of Public Health Dean's Distinguished Teaching Award
- 2013: Doctor Medicinae Honoris Causa, Aarhus University, Denmark
- 2015: Robert Dyar Labrador Memorial Lecturer, University of California, Davis.
- 2019: UCLA Fielding School of Public Health Alumni Hall of Fame

Published Articles

- 1. **Greenland, S.** (1977). Response and follow-up bias in cohort studies. *American Journal of Epidemiology*, **106**, 184-187.
- 2. Stern, E., Misczynski, M., **Greenland, S.**, Damus, K. and Coulson, A.H. (1977). "Pap" testing and hysterectomy prevalence: a survey of communities with high and low cervical cancer rates. *American Journal of Epidemiology*, **106**, 295-309.
- 3. Neutra, R.R., Fienberg, S.E., **Greenland, S.** and Friedman, E.A. (1978). The effect of fetal monitoring on neonatal death rates. *New England Journal of Medicine*, **299**, 324-326.
- 4. Haile, R.W., Sullivan, C.B. and **Greenland, S.** (1978). Multiple sclerosis and dogs: a closer look. *Annals of Neurology*, **4**, 577-578.
- 5. **Greenland, S.** (1978). Interaction of nitrites with food, drugs, and contaminants. *Journal of Environmental Health*, **41**, 214-217.

- 6. Strassburg, M.A., **Greenland, S.** and Fannin, S.L. (1979). Vaccine failures in the epidemiology and control of measles. *American Journal of Public Health*, **69**, 1055-1057.
- 7. Strassburg, M.A. and **Greenland, S.** (1979). Methodologic problems in evaluating the carcinogenic risk potential of environmental agents. *Journal of Environmental Health*, **41**, 214-217.
- 8. **Greenland, S.** (1979). Limitations of the logistic analysis of epidemiologic data. *American Journal of Epidemiology*, **110**, 693-698.
- 9. Strassburg, M.A., Marquard, J., Fannin, S.L. and **Greenland, S.** (1980). Rubella on a university campus: an evaluation of case immunity histories. *Nursing Research*, **29**, 390-391.
- 10. Scalzi, C.C., Burke, L.E. and **Greenland, S.** (1980). Evaluation of an inpatient educational program for coronary patients and families. *Heart and Lung*, **9**, 846-853.
- 11. Neutra, R.R., **Greenland, S.** and Friedman, E.A. (1980). The effect of fetal monitoring on cesarean section rates. *Obstetrics and Gynecology*, **55**, 175-180.
- 12. Rothman, K.J., **Greenland, S.** and Walker, A.M. (1980). Concepts of interaction. *American Journal of Epidemiology*, **112**, 467-470.
- 13. **Greenland, S.**, Reisbord, L.S., Haldeman, S. and Buerger, A.A. (1980). Controlled clinical trials of manipulation: a review and a proposal. *Journal of Occupational Medicine*, **22**, 670-676.
- 14. **Greenland, S.** and Neutra, R.R. (1980). Control of confounding in the assessment of medical technology. *International Journal of Epidemiology*, **9**, 361-367.
- 15. **Greenland, S.** (1980). The effect of misclassification in the presence of covariates. *American Journal of Epidemiology*, **112**, 564-569.
- 16. Strassburg, M.A., **Greenland, S.**, Marron, J.A. and Mahoney, L.E. (1981). Animal bites: patterns of treatment. *Annals of Emergency Medicine*, **10**, 193-197.
- 17. Stewart, M.E., **Greenland, S.** and Hoffman, J.S. (1981). First-aid treatment for poisonous snakebite: are currently recommended procedures justified? *Annals of Emergency Medicine*, **10**, 331-335.
- 18. Neutra, R.R., **Greenland, S.** and Friedman, E.A. (1981). The relationship between electronic fetal monitoring and the Apgar score. *American Journal of Obstetrics and Gynecology*, **140**, 440-445.
- 19. **Greenland, S.**, Watson, E. and Neutra, R.R. (1981). The case-control method in medical care evaluation. *Medical Care*, **19**, 872-878.

- 20. **Greenland, S.**, Neutra, R.R. and Galan, R. (1981). An attempt at measuring the impact of sanitation and economics on health: a reanalysis of the Colombian National Health Survey. *Public Health*, **95**, 264-272.
- 21. **Greenland, S.**, Morgenstern, H. and Thomas, D.C. (1981). Considerations in determining matching criteria and stratum sizes for case-control studies. *International Journal of Epidemiology*, **10**, 389-392.
- 22. **Greenland, S.** and Criqui, M.H. (1981). Are case-control studies more vulnerable to response bias? *American Journal of Epidemiology*, **114**, 175-177.
- 23. **Greenland, S.** and Neutra, R.R. (1981). An analysis of detection bias and proposed corrections in the study of estrogens and endometrial cancer. *Journal of Chronic Diseases*, **34**, 433-438.
- 24. **Greenland, S.** (1981). Multivariate estimation of exposure-specific incidence from case-control studies. *Journal of Chronic Diseases*, **34**, 445-453.
- 25. Hazaleus, R.E., **Greenland, S.** and Berdischewsky, M. (1982). Injectable cephalosporin use in a community teaching hospital. *American Journal of Hospital Pharmacy*, **39**, 482-483.
- 26. **Greenland, S.**, Staisch, K.J., Brown, N. and Gross, S.J. (1982). The effects of marijuana use during pregnancy I: a preliminary epidemiologic study. *American Journal of Obstetrics and Gynecology*, **143**, 408-413. Edited version reprinted as "The effect of marijuana on human pregnancy, labor, and delivery", *Neurobehavioral Toxicology*, **4**, 447-450 (1982).
- 27. **Greenland, S.** and Thomas, D.C. (1982). On the need for the rare disease assumption in case-control studies. *American Journal of Epidemiology*, **116**, 547-553.
- 28. **Greenland, S.** (1982). Interpretation and estimation of summary ratios under heterogeneity. *Statistics in Medicine*, **1**, 217-227.
- 29. **Greenland, S.** (1982). The effect of misclassification in matched-pair case-control studies. *American Journal of Epidemiology*, **116**, 402-406.
- 30. Strassburg, M.A., **Greenland, S.** and Wang, S.M. (1983). A correlational study of neural tube defects and infectious diseases. *Public Health*, **97**, 275-284.
- 31. Strassburg, M.A., **Greenland, S.**, Portigal, L.D. and Sever, L.E. (1983). A population-based case-control study of anencephalus and spina bifida aperta in a low-risk area. *Developmental Medicine and Child Neurology*, **25**, 632-641.
- 32. Thomas, D.C. and **Greenland, S.** (1983). The relative efficiencies of matched and independent sample designs for case-control studies. *Journal of Chronic Diseases*, **36**, 685-697.

- 33. Strassburg, M.A. and **Greenland, S.** (1983). Anencephaly and spina bifida aperta: a study of secular trends, seasonality, and geographic distribution in a low-risk area. *Neuroepidemiology*, **2**, 5-15.
- 34. **Greenland, S.**, Richwald, G.A. and Honda, G.D. (1983). The effects of marijuana use during pregnancy II: a study in a low-risk home-delivery population. *Drug and Alcohol Dependence*, **11**, 359-366.
- 35. **Greenland, S.** and Kleinbaum, D.G. (1983). Correcting for misclassification in two-way tables and matched-pair studies. *International Journal of Epidemiology*, **12**, 93-97.
- 36. **Greenland, S.** (1983). Tests for interaction in epidemiologic studies: a review and a study of power. *Statistics in Medicine*, **2**, 243-251.
- 37. **Greenland, S.** (1984). A counterexample to the test-based principle of setting confidence limits. *American Journal of Epidemiology*, **120**, 4-7.
- 38. **Greenland, S.** (1984). Bias in methods for deriving standardized morbidity ratios and attributable fraction estimates. *Statistics in Medicine*, **3**, 131-141.
- 39. Strassburg, M.A., **Greenland, S.**, Stephenson, T.G., Weiss, B.P., Auerbach, D., Habel, L.A. and Lieb, L.E. (1985). Clinical effectiveness of rubella vaccine in a college population. *Vaccine*, **3**, 109-112.
- 40. Reisbord, L.S. and **Greenland**, **S.** (1985). Factors associated with self-reported back-pain prevalence: a population-based study. *Journal of Chronic Diseases*, **38**, 691-702.
- 41. Thomas, D.C. and **Greenland**, **S.** (1985). The efficiency of matching in case-control studies of risk-factor interactions. *Journal of Chronic Diseases*, **38**, 569-574.
- 42. **Greenland, S.**, Olsen, J., Rachootin, P. and Thomsen-Pederson, G. (1985). The effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section. *Acta Obstetricia et Gynecologica Scandinavica*, **64**, 75-80.
- 43. **Greenland, S.** and Robins, J.M. (1985). Confounding and misclassification. *American Journal of Epidemiology*, **122**, 495-506.
- 44. **Greenland, S.** and Robins, J.M. (1985). Estimation of a common effect parameter from sparse follow-up data. *Biometrics*, **41**, 55-68.
- 45. **Greenland, S.** (1985). Elementary models for biological interaction (invited paper). *Journal of Hazardous Materials*, **10**, 449-454.
- 46. **Greenland, S.** (1985). An application of logistic response models to the analysis of ordinal responses. *Biometrical Journal*, **27**, 189-197.

- 47. **Greenland, S.** (1985). Control-initiated case-control studies. *International Journal of Epidemiology*, **14**, 130-134.
- 48. **Greenland, S.** (1985). Power, sample size, and smallest detectable effect determination for multivariate studies. *Statistics in Medicine*, **4**, 117-127.
- 49. Robins, J.M., Breslow, N.E. and **Greenland, S.** (1986). Estimators of the Mantel-Haenszel variance consistent in both sparse-data and large-stratum limiting models. *Biometrics*, **42**, 311-323.
- 50. Strassburg, M.A., **Greenland, S.**, Sorvillo, F.J., Lieb, L.E. and Habel, L.A. (1986). Influenza in the elderly: a report of an outbreak and a review of previous vaccine effectiveness reports. *Vaccine*, **4**, 38-44.
- 51. Robins, J.M., **Greenland, S.** and Breslow, N.E. (1986). A general estimator for the variance of the Mantel-Haenszel odds ratio. *American Journal of Epidemiology*, **124**, 719-723.
- 52. Robins, J.M. and **Greenland, S.** (1986). The role of model selection in causal inference from nonexperimental data. *American Journal of Epidemiology*, **123**, 392-402.
- 53. **Greenland, S.**, Schlesselman, J.J. and Criqui, M.H. (1986). The fallacy of employing standardized regression coefficients and correlations as measures of effect. *American Journal of Epidemiology*, **123**, 203-208.
- 54. **Greenland, S.**, Thomas, D.C. and Morgenstern, H. (1986). The rare-disease assumption revisited: a critique of "Estimators of relative risk for case-control studies." *American Journal of Epidemiology*, **124**, 869-876.
- 55. **Greenland, S.** and Robins, J.M. (1986). Identifiability, exchangeability, and epidemiological confounding. *International Journal of Epidemiology*, **15**, 413-419.
- 56. **Greenland, S.** (1986). Partial and marginal matching in case-control studies (invited paper). <u>In Moolgavkar, S. H. and Prentice, R. L. (eds.)</u>, *Modern Statistical Methods in Chronic Disease Epidemiology*. New York, Wiley, 35-49.
- 57. **Greenland, S.** (1986). Adjustment of risk ratios in case-base studies (hybrid epidemiologic designs). *Statistics in Medicine*, **5**, 579-584.
- 58. **Greenland, S.** (1986). Estimating variances of standardized estimators in case-control studies and sparse data. *Journal of Chronic Diseases*, **39**, 473-477.
- 59. **Greenland, S.** (1987). Interpretation and choice of effect measures in epidemiologic analysis. *American Journal of Epidemiology*, **125**, 761-768.
- 60. **Greenland, S.** (1987). Bias in indirectly adjusted comparisons due to taking the total study population as the reference group. *Statistics in Medicine*, **6**, 193-195.

- 61. **Greenland, S.** (1987). Quantitative methods in the review of epidemiologic literature. *Epidemiologic Reviews*, **9**, 1-30.
- 62. **Greenland, S.** (1987). Interpreting time-related trends in effect estimates. *Journal of Chronic Diseases*, **40**, suppl. 2, 17-24.
- 63. **Greenland, S.** (1987). Variance estimators for attributable fraction estimates consistent in both large strata and sparse data. *Statistics in Medicine*, **6**, 701-708.
- 64. **Greenland, S.** (1987). Estimation of exposure-specific rates from sparse case-control data. *Journal of Chronic Diseases*, **40**, 1087-1094.
- 65. Honda, G.D., Bernstein, L., Ross, R. K., **Greenland, S.**, Gerkins, V. and Henderson, B.E. (1988). Vasectomy, cigarette smoking, and age at first sexual intercourse as risk factors for prostate cancer in middle-aged men. *British Journal of Cancer*, **57**, 326-331.
- 66. Richwald, G.A., **Greenland, S.**, Johnson, B.J., Friedland, J.M., Goldstein, E.J.C. and Plichta, D.T. (1988). An assessment of the excess risk of serious *Salmonella dublin* infection associated with the use of certified raw milk. *Public Health Reports*, **103**, 489-493.
- 67. Baker, D.B., **Greenland, S.**, Mendlein, J. and Harmon, P. (1988). A health study of two communities near the Stringfellow waste disposal site. *Archives of Environmental Health*, **43**, 325-334.
- 68. **Greenland, S.** and Morgenstern, H. (1988). Classification schemes for epidemiologic research designs. *Journal of Clinical Epidemiology*, **41**, 715-716.
- 69. **Greenland, S.** and Frerichs, R.R. (1988). On measures and models for the effectiveness of vaccines and vaccination programs. *International Journal of Epidemiology*, **17**, 456-463.
- 70. **Greenland, S.** and Poole, C. (1988). Invariants and noninvariants in the concept of interdependent effects. *Scandinavian Journal of Work, Environment, and Health*, **14**, 125-129.
- 71. **Greenland, S.** and Mickey, R.M. (1988). Closed-form and dually consistent methods for inference on collapsibility in 2×J×K tables. *Applied Statistics*, **37**, 335-343.
- 72. **Greenland, S.** and Robins, J.M. (1988). Conceptual problems in the definition and interpretation of attributable fractions. *American Journal of Epidemiology*, **128**, 1185-1197.
- 73. **Greenland, S.** (1988). Probability versus Popper: An elaboration of the insufficiency of current Popperian approaches in epidemiologic analysis (invited paper). <u>In</u> Rothman, K.J. (ed.) *Causal Inference*. Chestnut Hill, MA, Epidemiology Resources Incorporated, 95-104.

- 74. **Greenland, S.** (1988). On sample-size and power calculations for studies using confidence intervals. *American Journal of Epidemiology*, **128**, 231-237.
- 75. **Greenland, S.** (1988). Significance tests versus continuity principles in scientific applications of statistics (invited paper). *1987 Proceedings of the Section on Statistical Education*. Alexandria, VA, American Statistical Association, 57-58.
- 76. **Greenland, S.** (1988). Variance estimation for epidemiologic effect estimates under misclassification. *Statistics in Medicine*, **7**, 745-757.
- 77. **Greenland, S.** (1988). Statistical uncertainty due to misclassification: implications for validation substudies. *Journal of Clinical Epidemiology*, **41**, 1167-1176.
- 78. Khoury, M.J., Flanders, W.D., **Greenland, S.** and Adams, M.J. (1989). On the measurement of susceptibility in epidemiologic studies. *American Journal of Epidemiology*, **129**, 183-190.
- 79. Kraus, J.F., **Greenland, S.** and Bulterys, M.G. (1989). Risk factors for sudden infant death syndrome in the U.S. Collaborative Perinatal Project. *International Journal of Epidemiology*, **18**, 113-120.
- 80. Richwald, G.A., **Greenland, S.**, Gerber, M.M., Potik, R., Kersey, L. and Gallagher, D.M. (1989). Effectiveness of the cavity-rim cervical cap: results of a large clinical study. *Obstetrics and Gynecology*, **74**, 143-148.
- 81. Mickey, R.M. and **Greenland, S.** (1989). The impact of confounder selection criteria on effect estimation. *American Journal of Epidemiology*, **129**, 125-137.
- 82. Robins, J.M. and **Greenland**, **S.** (1989). Estimability and estimation of excess and etiologic fractions. *Statistics in Medicine*, **8**, 845-859.
- 83. Robins, J.M. and **Greenland, S.** (1989). The probability of causation under a stochastic model for individual risks. *Biometrics*, **46**, 1125-1138. (Erratum: 1991, **48**, 824)
- 84. **Greenland, S.** and Morgenstern, H. (1989). What is directionality? *Journal of Clinical Epidemiology*, **42**, 821-824.
- 85. **Greenland, S.** and Morgenstern, H. (1989). Ecological bias, confounding, and effect modification. *International Journal of Epidemiology*, **18**, 269-274. (Erratum: 1991, **20**, 824)
- 86. **Greenland, S.** (1989). Modeling and variable selection in epidemiologic analysis. *American Journal of Public Health*, **79**, 340-349.
- 87. **Greenland, S.** (1989). Cautions in the use of preliminary-test estimators. *Statistics in Medicine*, **8**, 669-673.

- 88. **Greenland, S.** (1989). Generalized Mantel-Haenszel estimators for K 2×J tables. *Biometrics*, **45**, 183-191.
- 89. **Greenland, S.** (1989). On correcting for misclassification in twin studies and other matched-pair studies. *Statistics in Medicine*, **8**, 825-829.
- 90. **Greenland, S.** (1989). Reader reaction: Confounding in epidemiologic studies. *Biometrics*, **45**, 1309-1310.
- 91. Chow, J.M., Yonekura, M.L., Richwald, G.A., **Greenland, S.**, Sweet, R.L. and Schachter, J. (1990). The association between *Chlamydia trachomatis* and ectopic pregnancy: a matched case-control study. *Journal of the American Medical Association*, **263**, 3164-3167.
- 92. Drews, C., Kraus, J.F. and **Greenland, S.** (1990). Recall bias in a case-control study of sudden infant death syndrome. *International Journal of Epidemiology*, **19**, 405-411.
- 93. Savitz, D.A., **Greenland, S.**, Stolley, P.D. and Kelsey, J.L. (1990). Scientific standards of criticism: a response to "Scientific standards in epidemiologic studies of the menace of daily life" by A. R. Feinstein. *Epidemiology*, **1**, 78-83.
- 94. Bulterys, M.G., **Greenland, S.** and Kraus, J.F. (1990). Chronic fetal hypoxia and sudden infant death syndrome: Interaction between maternal smoking and low hematocrit during pregnancy. *Pediatrics*, **86**, 535-540.
- 95. Morgenstern, H. and **Greenland**, **S.** (1990). Graphing ratio measures of effect. *Journal of Clinical Epidemiology*, **43**, 539-542.
- 96. Drews, C. and **Greenland**, **S.** (1990). The impact of differential recall on the results of case-control studies. *International Journal of Epidemiology*, **19**, 1107-1112.
- 97. **Greenland, S.** and Morgenstern, H. (1990). Matching and efficiency in cohort studies. *American Journal of Epidemiology*, **131**, 151-159.
- 98. **Greenland, S.** and Salvan, A. (1990). Bias in the one-step method for pooling study results. *Statistics in Medicine*, **9**, 247-252.
- 99. **Greenland, S.** (1990). Randomization, statistics, and causal inference. *Epidemiology*, **1**, 421-429.
- 100. Robins, J.M. and **Greenland, S.** (1991). Estimability and estimation of expected years of life lost due to a hazardous exposure. *Statistics in Medicine*, **10**, 79-93.
- 101. Kass, P. and **Greenland, S.** (1991). Collapsibility, comparability, and epidemiologic confounding. *Journal of the American Veterinary Medical Association*, **11**, 1569-1573.

- 102. Flanders, W. D. and **Greenland**, **S.** (1991). Analytic methods for two-stage case-control studies and other stratified designs. *Statistics in Medicine*, **10**, 739-747.
- 103. **Greenland, S.**, Maclure, M., Schlesselman, J.J., Poole, C. and Morgenstern, H. (1991). Standardized regression coefficients: A further critique and a review of alternatives. *Epidemiology*, **2**, 387-392.
- 104. **Greenland, S.** and Holland, P.W. (1991). Estimating standardized risk differences from odds ratios. *Biometrics*, **47**, 319-322.
- 105. **Greenland, S.** and Robins, J. M. (1991). Empirical-Bayes adjustments for multiple comparisons are sometimes useful. *Epidemiology*, **2**, 244-251.
- 106. **Greenland, S.** (1991). Science versus advocacy: The challenge of Dr. Feinstein. *Epidemiology*, **2**, 72-79.
- 107. **Greenland, S.** (1991). Those who were wrong are still wrong (Invited Commentary). *American Journal of Epidemiology*, **133**, 435-436.
- 108. **Greenland, S.** (1991). Estimating standardized parameters from generalized linear models. *Statistics in Medicine*, **10**, 1069-1074.
- 109. **Greenland, S.** (1991). A mathematical analysis of the "epidemiologic necropsy". *Annals of Epidemiology*, **1**, 551-558.
- 110. **Greenland, S.** (1991). Reducing mean squared error in the analysis of stratified epidemiologic studies. *Biometrics*, **47**, 773-775.
- 111. **Greenland, S.** (1991). On the logical justification of conditional tests for two-by-two-contingency tables. *The American Statistician*, **45**, 248-251.
- 112. Brenner, H., Savitz, D. A., Jöckel, K.-H. and **Greenland, S.** (1992). The effects of nondifferential misclassification in ecologic studies. *Epidemiology*, **3**, 85-95.
- 113. Brenner, H., **Greenland, S.** and Savitz, D. A. (1992). The effects of nondifferential confounder misclassification in ecologic studies. *Epidemiology*, **3**, 456-459.
- 114. Maclure, M. and **Greenland**, **S.** (1992). Tests for trend and dose-response: misinterpretations and alternatives. *American Journal of Epidemiology*, **135**, 96-104.
- 115. Robins, J. M. and **Greenland**, **S.** (1992). Identifiability and exchangeability for direct and indirect effects. *Epidemiology*, **3**, 143-155.
- 116. **Greenland, S.** and Longnecker, M. P. (1992). Methods for trend estimation from summarized dose-response data, with applications to meta-analysis. *American Journal of Epidemiology*, **135**, 1301-1309.

- 117. **Greenland, S.** (1992). A semi-Bayes approach to the analysis of correlated associations, with an application to an occupational cancer-mortality study. *Statistics in Medicine*, **11**, 219-230.
- 118. **Greenland, S.** (1992). Likelihood-ratio testing as a diagnostic method for small-sample regressions. *Annals of Epidemiology*, **2**, 311-316.
- 119. **Greenland, S.** (1992). Divergent biases in ecologic and individual-level studies. *Statistics in Medicine*, **11**, 1209-1223.
- 120. Sahl, J.D., Kelsh, M. A. and **Greenland, S.** (1993). Cohort and nested case-control studies of hematopoietic cancers among electric utility workers. *Epidemiology*, **4**, 104-114.
- 121. Berlin, J.A., Longnecker, M.P. and **Greenland**, **S.** (1993). Meta-analysis of epidemiologic dose-response data. *Epidemiology*, **4**, 218-228.
- 122. Brenner, H., Gefeller, O. and **Greenland, S.** (1993). Risk and rate advancement periods as measures of exposure impact on the occurrence of disease. *Epidemiology*, **4**, 229-236.
- 123. Drews, C., **Greenland, S.** and Flanders, W. D. (1993). The use of restricted controls to prevent recall bias in case-control studies of reproductive outcomes. *Annals of Epidemiology*, **3**, 86-92.
- 124. Maldonado, G. and **Greenland, S.** (1993). Interpreting model coefficients when the true model form is unknown. *Epidemiology*, **4**, 310-318.
- 125. Maldonado, G. and **Greenland, S.** (1993). A simulation study of confounder-selection strategies. *American Journal of Epidemiology*, **138**, 923-936.
- 126. **Greenland, S.** and Brenner, H. (1993). Correcting for nondifferential misclassification in ecologic analyses. *Applied Statistics*, **42**, 117-126.
- 127. **Greenland, S.** and Drescher, K. (1993). Maximum-likelihood estimation of attributable fractions from logistic models. *Biometrics*, **49**, 865-872.
- 128. **Greenland, S.** (1993). Basic problems in interaction assessment (invited paper). *Environmental Health Perspectives*, **101**, Suppl. 4, 59-66.
- 129. **Greenland, S.** (1993). Additive-risk versus additive relative-risk models. *Epidemiology*, **4**, 32-36.
- 130. **Greenland, S.** (1993). Summarization, smoothing, and inference. *Scandinavian Journal of Social Medicine*, **21**, 227-232.

- 131. **Greenland, S.** (1993). Methods for epidemiologic analyses of multiple exposures: A review and a comparative study of maximum-likelihood, preliminary testing, and empirical-Bayes regression. *Statistics in Medicine*, **12**, 717-736.
- 132. **Greenland, S.** (1993). A meta-analysis of coffee, myocardial infarction, and sudden coronary death. *Epidemiology*, **4**, 366-374.
- 133. Weinberg, C. R., Umbach, D. M. and **Greenland, S.** (1994). When will nondifferential misclassification preserve the direction of a trend? *American Journal of Epidemiology*, **140**, 565-571.
- 134. Ackerman, D. L., **Greenland, S.**, Morgenstern, H. and Bystritsky, A. (1994). Predictors of treatment response in obsessive compulsive disorder: Multivariate analyses from a multicenter trial of clomipramine. *Journal of Clinical Psychopharmacology*, **14**, 247-254.
- 135. Witte, J. S., **Greenland, S.**, Haile, R. W. and Bird, C. L. (1994). Hierarchical regression analysis applied to a study of multiple dietary exposures and breast cancer. *Epidemiology*, **5**, 612-621.
- 136. Maldonado, G. and **Greenland, S.** (1994). A comparison of the performance of model-based confidence intervals when the correct model form is unknown. *Epidemiology*, **5**, 171-182.
- 137. Robins, J. M. and **Greenland, S.** (1994). Adjusting for differential rates of prophylaxis therapy for PCP in high- versus low-dose AZT treatment arms in an AIDS randomized trial. *Journal of the American Statistical Association*, **89**, 737-749.
- 138. **Greenland, S.**, Salvan, A., Wegman, D. H., Hallock, M. F. and Smith, T. J. (1994). A case-control study of cancer mortality at a transformer-assembly facility. *International Archives of Occupational and Environmental Health*, **66**, 49-54.
- 139. **Greenland, S.** and Poole, C. (1994). Empirical-Bayes approaches to occupational and environmental hazard surveillance. *Archives of Environmental Health*, **49**, 9-16.
- 140. **Greenland, S.** and Robins, J. M. (1994). Ecologic studies: Biases, misconceptions, and counterexamples (invited commentary). *American Journal of Epidemiology*, **139**, 747-760.
- 141. **Greenland, S.** and Robins, J. M. (1994). Accepting the limits of ecologic studies (invited commentary). *American Journal of Epidemiology*, **139**, 769-771.
- 142. **Greenland, S.** and Maldonado, G. (1994). Inference on collapsibility in generalized linear models. *Biometrical Journal*, **36**, 771-782.
- 143. **Greenland, S.** and Maldonado, G. (1994). The interpretation of multiplicative model parameters as standardized parameters. *Statistics in Medicine*, **13**, 989-999.

- 144. **Greenland, S.** (1994). A critical look at some popular meta-analytic methods (invited commentary). *American Journal of Epidemiology*, **140**, 290-296.
- 145. **Greenland, S.** (1994). Quality scores are useless and potentially misleading (invited commentary). *American Journal of Epidemiology*, **140**, 300-301.
- 146. **Greenland, S.** (1994). Hierarchical regression for epidemiologic analyses of multiple exposures (invited paper). *Environmental Health Perspectives*, **102**, suppl. 8, 33-39.
- 147. **Greenland, S.** (1994). Can meta-analysis be salvaged? (invited commentary). *American Journal of Epidemiology*, **140**, 783-787.
- 148. **Greenland, S.** (1994). Modeling risk ratios from matched-cohort data: an estimating-equation approach. *Applied Statistics*, **43**, 223-232.
- 149. **Greenland, S.** (1994). Alternative models for ordinal logistic regression. *Statistics in Medicine*, **13**, 1665-1677.
- 150. Working Group on Meta-Analysis in Environmental Epidemiology (1995). Guidelines for application of meta-analysis in environmental epidemiology. *Regulatory Toxicology and Pharmacology*, **22**, 189-197.
- 151. Ursin, G., Longnecker, M. P., Haile, R. W., and **Greenland, S.** (1995). A meta-analysis of body mass index and risk of premenopausal breast cancer. *Epidemiology*, **6**, 137-141.
- 152. Finkle, W. D., **Greenland, S.**, Miettinen, O. S., and Ziel, H. K. (1995). Endometrial cancer risk after discontinuing use of unopposed conjugated estrogens. *Cancer Causes and Control*, **6**, 99-102.
- 153. Coleman, A. L., and **Greenland**, S. (1995). Glaucoma outcome studies using existing databases: opportunities and limitations. *Journal of Glaucoma*, 4, 295-298.
- 154. Joffe, M. M., and **Greenland**, **S.** (1995). Standardized estimates from categorical regression models. *Statistics in Medicine*, **14**, 2131-2141.
- 155. **Greenland, S.**, and Poole, C. (1995). Interpretation and analysis of differential exposure variability and zero-exposure categories for continuous exposures. *Epidemiology*, **6**, 326-328.
- 156. **Greenland, S.**, and Ackerman, D. L. (1995). Clomiphene citrate and neural-tube defects: A pooled analysis of controlled epidemiologic studies and recommendations for future studies. *Fertility and Sterility*, **64**, 935-941.
- 157. **Greenland, S.**, and Finkle, W. D. (1995). A critical look at methods for handling missing covariates in epidemiologic regression analysis. *American Journal of Epidemiology*, **142**, 1255-1264.

- 158. **Greenland, S.** (1995). Dose-response and trend analysis: Alternatives to category-indicator regression. *Epidemiology*, **6**, 356-365.
- 159. **Greenland, S.** (1995). Avoiding power loss association with categorization and ordinal scores in dose-response and trend analysis. *Epidemiology*, **6**, 450-454.
- 160. **Greenland, S.** (1995). Problems in the average-risk interpretation of categorical doseresponse analyses. *Epidemiology*, **6**, 563-565.
- 161. Ackerman, D. L., **Greenland, S.**, and Bystritsky, A. (1996). Relationship between early side effects and therapeutic effects of clomipramine therapy in obsessive-compulsive disorder. *Journal of Clinical Psychopharmacology*, **16**, 324-328.
- 162. Ackerman, D. L., **Greenland, S.**, and Bystritsky, A. (1996). Use of receiver-operator characteristic (ROC) curve analysis to evaluate predictors of response to clomipramine therapy. *Psychopharmacology Bulletin*, **32**, 157-165.
- 163. Maldonado, G., and **Greenland, S.** (1996). Impact of model-form selection on rate estimation. *Epidemiology*, **7**, 46-54.
- 164. Witte, J. S., and **Greenland, S.** (1996). Simulation study of hierarchical regression. *Statistics in Medicine*, **15**, 1161-1170.
- 165. Boshuizen, H., and **Greenland, S.** (1996). Estimation of differences and ratios of average age at first occurrence. *Biometrical Journal*, **38**, 387-392.
- 166. Robins, J. M., and **Greenland, S.** (1996). Comment: The estimation of global average treatment effects using instrumental variables. *Journal of the American Statistical Association*, **91**, 456-458.
- 167. **Greenland, S.**, Lieb, L., Simon, P., Ford, W., and Kerndt, P. (1996). Evidence for recent growth of the HIV epidemic among African-American men and younger male cohorts in Los Angeles County. *Journal of Acquired Immune Deficiency Syndromes and Human Retrovirology*, **11**, 401-409.
- 168. **Greenland, S.**, and Finkle, W. D. (1996). A case-control study of prosthetic implants and selected chronic diseases. *Annals of Epidemiology*, **6**, 530-540.
- 169. **Greenland, S.** (1996). Confounding and exposure trends in case-crossover and case-time-control designs. *Epidemiology*, 7, 231-239.
- 170. **Greenland, S.** (1996). Basic methods for sensitivity analysis of bias. *International Journal of Epidemiology*, **25**, 1107-1116.
- 171. **Greenland, S.** (1996). Absence of confounding does not correspond to collapsibility of the rate ratio or rate difference. *Epidemiology*, **7**, 498-501.

- 172. **Greenland, S.** (1996). Historical HIV incidence modelling in regional subgroups: Use of flexible discrete models with penalized splines based on prior curves. *Statistics in Medicine*, **15**, 513-525.
- 173. **Greenland, S.** (1996). A lower bound for the correlation of exponentiated bivariate normal pairs. *The American Statistician*, **50**, 163-164.
- 174. Ackerman, D. L., **Greenland, S.**, Bystritsky, A. and Small, G. W. (1997). Characteristics of fluoxetine vs placebo responders in a randomized trial of geriatric depression. *Psychopharmacology*, **33**, 707-714.
- 175. Aragaki, C. C., **Greenland, S.**, Probst-Hensch, N. M. and Haile, R. W. (1997). Hierarchical modeling of gene-environment interactions: Estimating NAT2* genotype-specific dietary effects on adenomatous polyps. *Cancer Epidemiology Biomarkers and Prevention*, **6**, 307-314.
- 176. Witte, J. S. and **Greenland, S.** (1997). A nested approach to evaluating dose-response and trend. *Annals of Epidemiology*, **7**, 188-193.
- 177. Maldonado, G. and **Greenland, S.** (1997). The importance of critically interpreting simulation studies. *Epidemiology*, **8**, 453-456.
- 178. Boshuizen, H. and **Greenland**, **S.** (1997). Average age at first occurrence as an alternative occurrence parameter in epidemiology. *International Journal of Epidemiology*, **26**, 867-872.
- 179. Poole, C. and **Greenland**, S. (1997). How a court accepted a possible explanation. *The American Statistician*, **51**, 112-114.
- 180. **Greenland, S.** (1997). Second-stage least squares versus penalized quasi-likelihood for fitting hierarchical models in epidemiologic analysis. *Statistics in Medicine*, **16**, 515-526.
- 181. Zaffanella, L. E., Savitz, D. A., **Greenland, S.** and Ebi, K. L. (1998). The residential case-specular method to study wire codes, magnetic fields, and disease. *Epidemiology*, **9**, 16-20.
- 182. Coleman, A. L., Yu, F. and **Greenland, S.** (1998). Annual predictions of adverse outcomes after glaucoma surgery in the United States. *Ophthalmic Epidemiology*, **5**, 29-40.
- 183. Ziel, H. K., Finkle, W. D. and **Greenland, S.** (1998). Decline in incidence of endometrial cancer following use of opposed conjugated estrogens in a prepaid health plan. *Gynecologic Oncology*, **68**, 253-255.
- 184. Coleman, A. L., Yu, F. and **Greenland, S.** (1998). Factors associated with elevated complication rates after partial-thickness or full-thickness glaucoma surgical procedures in the United States during 1994. *Ophthalmology*, **105**, 1165-1169.

- 185. Michels, K. B., **Greenland, S.** and Rosner, B. A. (1998). Does body-mass index adequately capture the relation of body mass and body composition to health outcomes? *American Journal of Epidemiology*, **147**, 167-172.
- 186. Ackerman, D. L., **Greenland, S.**, and Bystritsky, A. (1998). Clinical characteristics of response to fluoxetine treatment of obsessive-compulsive disorder. *Journal of Clinical Psychopharmacology*, **18**, 185-192.
- 187. Witte, J. S., **Greenland, S.**, and Kim, L.-L. (1998). Software for hierarchical modelling of epidemiologic data. *Epidemiology*, **9**, 563-566.
- 188. Maldonado, G., and **Greenland, S.** (1998). Factoring versus linear modeling in rate estimation: A simulation study of relative accuracy. *Epidemiology*, **9**, 432-435.
- 189. **Greenland, S.**, Satterfield, M., and Lanes, S. F. (1998). A meta-analysis of effects of the transdermal nicotine patch. *Drug Safety*, **18**, 297-308.
- 190. **Greenland, S.**, and Finkle, W. D. (1998). A case-control study of prosthetic implants and selected chronic diseases in Medicare claims data. *Annals of Epidemiology*, **8**, 319-326.
- 191. **Greenland, S.** (1998). The sensitivity of a sensitivity analysis (invited paper). In: 1997 *Proceedings of the Biometrics Section*. Alexandria, VA: American Statistical Association, 19-21.
- 192. **Greenland, S.** (1998). Probability logic and probabilistic induction. *Epidemiology*, **9**, 322-332.
- 193. **Greenland, S.** (1998). Induction versus Popper: Substance versus semantics. *International Journal of Epidemiology*, **27**, 543-548.
- 194. Ebi, K. L., Zaffanella, L. E., and **Greenland, S.** (1999). Application of the case-specular method to two studies of wire codes and childhood leukemia. *Epidemiology*, **10**, 398-404.
- 195. Ackerman, D. L., **Greenland, S.**, and Bystritsky, A. (1999). Side effects as predictors of drug response in OCD. *Journal of Clinical Psychopharmacology*, **19**, 459-465.
- 196. Robins, J. M., **Greenland, S.**, and Hu, F. (1999). Estimation of the causal effect of time-varying exposure on the marginal means of a repeated binary outcome (with discussion). *Journal of the American Statistical Association*, **94**, 687-712.
- 197. Poole, C., and **Greenland, S.** (1999). Random-effects meta-analyses are not always conservative. *American Journal of Epidemiology*, **150**, 469-475.
- 198. Beyea, J., and **Greenland**, **S.** (1999). The importance of specifying the underlying biologic model in estimating the probability of causation. *Health Physics*, **76**, 269-274.

- 199. McKelvey, W., **Greenland, S.**, Chen, M.-J., Harper, J., Longnecker, M. P., Frankl, H. D., Lee, H. R., and Haile, R. W. (1999). A case-control study of the relation of colorectal adenatomatous polyps to foods containing hydrogenated oils. *Cancer Epidemiology Biomarkers and Prevention*, **8**, 519-524.
- 200. **Greenland, S.**, Michels, K. B., Robins, J. M., Poole, C., and Willett, W. C. (1999). Presenting statistical uncertainty in trends and dose-response relations. *American Journal of Epidemiology*, **149**, 1077-1086.
- 201. **Greenland, S.**, Pearl, J., and Robins, J. M. (1999). Causal diagrams for epidemiologic research. *Epidemiology*, **10**, 37-48.
- 202. **Greenland, S.**, Robins, J. M., and Pearl, J. (1999). Confounding and collapsibility in causal inference. *Statistical Science*, **14**, 29-46.
- 203. **Greenland, S.** (1999). Multilevel modeling and model averaging. *Scandinavian Journal of Work Environment and Health*, **25**, Suppl. 4, 43-48.
- 204. **Greenland, S.** (1999). A unified approach to the analysis of case-distribution (case-only) studies. *Statistics in Medicine*, **18**, 1-15.
- 205. **Greenland, S.** (1999). The relation of the probability of causation to the relative risk and the doubling dose: A methodologic error that has become a social problem. *American Journal of Public Health*, **89**, 1166-1169.
- 206. Anderson, C. L., Agran, P. F., Winn, D. G., and **Greenland, S.** (2000). Fatalities to occupants of cargo areas of pickup trucks. *Accident Analysis and Prevention*, **32**, 533-540.
- 207. Steenland, K., Bray, I., **Greenland, S.** and Boffetta, P. (2000). Empirical-Bayes adjustments for occupational surveillance analysis. *Cancer Epidemiology Biomarkers and Prevention*, **9**, 895-903 (recipient of 2001 Statistical Science Award, *Best Applied Papers*).
- 208. Witte, J. S., **Greenland, S.**, Kim, L. L., and Arab, L.K. (2000). Multilevel modeling in epidemiology with GLIMMIX. *Epidemiology*, **11**, 684-688.
- 209. Ackerman, D. L., **Greenland, S.**, Bystritsky, A., and Small, G. W. (2000). Side effects and time course of response in a placebo-controlled trial of fluoxetine in geriatric depression. *Journal of Clinical Psychopharmacology*, **20**, 658-665.
- 210. McKelvey, W., **Greenland, S.**, and Sandler, R.S. (2000). A second look at the relation between colorectal adenomatous polyps and consumption of foods containing partially hydrogenated oils. *Epidemiology*, **11**, 469-473.

- 211. Gareen, I., **Greenland, S.**, and Morgenstern, H. (2000). Intrauterine devices and pelvic inflammatory disease: Meta-analyses of published studies, 1974-1990. *Epidemiology*, **11**, 589-597.
- 212. Robins, J. M., and **Greenland, S.** (2000). Comment: The message of counterfactual causality. *Journal of the American Statistical Association*, **95**, 431-435.
- 213. **Greenland, S.**, Sheppard, A.R., Kaune, W.T., Poole, C., and Kelsh, M.A. (2000). A pooled analysis of magnetic fields, wire codes, and childhood leukemia. *Epidemiology*, **11**, 624-634.
- 214. **Greenland, S.**, Schwartzbaum, J.A., and Finkle, W.D. (2000). Problems from small samples and sparse data in conditional logistic regression analysis. *American Journal of Epidemiology*, **151**, 531-539.
- 215. **Greenland, S.**, and Finkle, W.D. (2000). A retrospective cohort study of implanted medical devices and selected chronic diseases in Medicare claims data. *Annals of Epidemiology*, **10**, 205-213.
- 216. **Greenland, S.**, and Robins, J.M. (2000). Epidemiology, justice, and the probability of causation. *Jurimetrics*, **40**, 321-340.
- 217. **Greenland, S.** (2000). Principles of multilevel modelling. *International Journal of Epidemiology*, **29**, 158-167.
- 218. **Greenland, S.** (2000). Causal analysis in the health sciences (invited paper). *Journal of the American Statistical Association*, **95**, 286-289. Reprinted in: Raftery, A.E., Tanner, M.A., and Wells, M.T. (2001). *Statistics in the 21st Century*. New York: Chapman and Hall/CRC, 12-19.
- 219. **Greenland, S.** (2000). Small-sample bias and corrections for conditional maximum-likelihood odds-ratio estimators. *Biostatistics*, **1**, 113-122.
- 220. **Greenland, S.** (2000). An introduction to instrumental variables for epidemiologists. *International Journal of Epidemiology*, **29**, 722-729. (Erratum: 2000, **29**, 1102)
- 221. **Greenland, S.** (2000). When should epidemiologic regressions use random coefficients? *Biometrics*, **56**, 915-921.
- 222. **Greenland, S.**, and Morgenstern, H. (2001). Confounding in health research. *Annual Reviews of Public Health*, **22**, 189-212.
- 223. **Greenland, S.**, and O'Rourke, K. (2001). On the bias produced by quality scores in metaanalysis, and a hierarchical view of proposed solutions. *Biostatistics*, **2**, 463-471.

- 224. **Greenland, S.**, and Christensen, R. (2001). Data augmentation for Bayesian and semi-Bayes analyses of conditional-logistic and proportional-hazards regression. *Statistics in Medicine*, **20**, 2421-2428.
- 225. **Greenland, S.** (2001). Estimating population attributable fractions from fitted incidence ratios and exposure survey data, with an application to electromagnetic fields and childhood leukemia, *Biometrics*, **57**, 182-188.
- 226. **Greenland, S.** (2001). Sensitivity analysis, Monte-Carlo risk analysis, and Bayesian uncertainty assessment. *Risk Analysis*, **21**, 579-583.
- 227. **Greenland, S.** (2001). Putting background information about relative risks into conjugate priors. *Biometrics*, **57**, 663-670.
- 228. **Greenland, S.** (2001). Attributable fractions: Bias from broad definition of exposure. *Epidemiology*, **12**, 518-520.
- 229. **Greenland, S.** (2001). Ecologic versus individual-level sources of confounding in ecologic estimates of contextual health effects. *International Journal of Epidemiology*, **30**, 1343-1350.
- 230. Harawa, N.T., Bingham, T., Cochran, S., **Greenland, S.**, and Cunningham, W.E. (2002). HIV-1 prevalence among foreign- and U.S.-born public STD clinic clients. *American Journal of Public Health*, **92**, 1958-1963.
- 231. Jiraphongsa, C., Danmoensawat, W., **Greenland, S.**, Frerichs, R., Siraprapasiri, T., Glik, D.C., and Detels, R. (2002). Acceptance of HIV testing and counseling among unmarried young adults in Northern Thailand. *AIDS Education and Prevention*, **14**, 89-101.
- 232. Ackerman, D.L., Unützer, J., **Greenland, S.**, and Gitlin, M. (2002). Inpatient treatment of depression and associated hospital charges. *Pharmacoepidemiology and Drug Safety*, **11**, 219-227.
- 233. Finkle, W.D., Adams, J.L., **Greenland, S.**, and Melmon, K.L. (2002). Increased risk of injury following an initial prescription for diphenhydramine. *Annals of Allergy, Asthma and Immunology*, **89**, 244-250.
- 234. Ackerman, D.L., and **Greenland, S.** (2002). A multivariate meta-analysis of controlled trials of OCD drug studies. *Journal of Clinical Psychopharmacology*, **22**, 309-317.
- 235. Maldonado, G.M., and **Greenland, S.** (2002). Estimating causal effects (with discussion). *International Journal of Epidemiology*, **31**, 421-438.
- 236. **Greenland, S.**, and Brumback, B.A. (2002). An overview of relations among causal modelling methods. *International Journal of Epidemiology*, **31**, 1030-1037.

- 237. **Greenland, S.** (2002). A review of multilevel theory for ecologic analyses. *Statistics in Medicine*, **21**, 389-395.
- 238. Husson, G.H., Herrinton, L.J., Brox T., Finkle, W.D., Bernstein, A., Shoor, S., and **Greenland, S.** (2003). A cohort study of systemic and local complications of toe prostheses. *American Journal of Orthopedics*, **32**, 585-592.
- 239. Rudy, E.T., Detels, R., Douglas, W., and **Greenland, S.** (2003). Factors affecting hepatitis vaccination refusal in a sexually transmitted disease clinic among men who have sex with men. *Sexually Transmitted Diseases*, 30, 411-418.
- 240. Herrinton, L.J., Brox T., **Greenland, S.**, Finkle, W.D., Cattolica, E., and Shoor, S. (2003). A cohort study of systemic and local complications following implantation of testicular prostheses. *Annals of Epidemiology*, **13**, 73-77.
- 241. Gareen, I. F., Morgenstern, H., **Greenland, S.**, and Gifford, D.S. (2003). Explaining the association between maternal age with cesarean delivery for nulliparous and parous women. *Journal of Clinical Epidemiology*, **56**, 1100-1110.
- 242. Cummings, P., McKnight, B., and **Greenland**, **S.** (2003). Matched cohort methods for injury research. *Epidemiologic Reviews*, **25**, 43-50.
- 243. Harawa, N.T., **Greenland, S.**, Cochran, S.D., Cunningham, W.E., and Visscher, B.V. (2003). Do differences in relationship and partner attributes explain disparities in sexually transmitted disease among young white and black women? *Journal of Adolescent Health*, **32**, 187-191.
- 244. Brumback, B.A., **Greenland, S.**, Redman, M., Kiviat, N., and Diehr, P. (2003). The intensity-score approach to adjusting for confounding. *Biometrics*, **59**, 274-285.
- 245. **Greenland, S.** (2003). Quantifying biases in causal models: classical confounding versus collider-stratification bias. *Epidemiology*, **14**, 300-306.
- 246. **Greenland S.** (2003). Generalized conjugate priors for Bayesian analysis of risk and survival regressions. *Biometrics*, **59**, 92-99.
- 247. **Greenland, S.** (2003). The impact of prior distributions for uncontrolled confounding and response bias: a case study of the relation of wire codes and magnetic fields to childhood leukemia. *Journal of the American Statistical Association*, **98**, 47-54.
- 248. Christenfeld, N.J.S., Sloan, R.P., Carroll, D., and **Greenland, S.** (2004). Risk factors, confounding, and the illusion of statistical control. *Psychosomatic Medicine*, **66**, 868-875.

- 249. Harawa, N.T., **Greenland, S.**, Cochran, S.D., Bingham, T.A., Johnson, D., Cunningham, W.E., Celentano, D.D., Koblin, B.A., LaLota, M., MacKellar D.A., McFarland, W., Shehan, D., Stoyanoff, S., Thiede, H., Torian, L., and Valleroy, L.A. (2004). Associations of race/ethnicity with HIV prevalence and HIV-related behaviors among young men who have sex with men (MSM) in 7 urban centers in the United States. *Journal of Acquired Immune Deficiency Syndromes*, **35**, 526-536.
- 250. Steenland, K., and **Greenland, S.** (2004). Monte-Carlo sensitivity analysis and Bayesian analysis of smoking as an unmeasured confounder in a study of silica and lung cancer. *American Journal of Epidemiology*, **160**, 384-392.
- 251. **Greenland, S.**, Gago-Dominguez, M., and Castellao, J.E. (2004). The value of risk-factor ("black-box") epidemiology (with discussion). *Epidemiology*, **15**, 519-535.
- 252. **Greenland, S.** (2004). The need for critical appraisal of expert witnesses in epidemiology and statistics. *Wake Forest Law Review*, **39**, 291-310.
- 253. **Greenland, S.** (2004). Bounding analysis as an inadequately specified methodology. *Risk Analysis*, **24**, 1085-1092.
- 254. **Greenland, S.** (2004). Model-based estimation of relative risks and other epidemiologic measures in studies of common outcomes and in case-control studies. *American Journal of Epidemiology*, **160**, 301-305.
- 255. **Greenland, S.** (2004). Interval estimation by simulation as an alternative to and extension of confidence intervals. *International Journal of Epidemiology*, **33**, 1389-1397.
- 256. Kalantar-Zadeh, K., Kilpatrick, R.D., Kuwae, N., McAllister, C.J., Alcorn, H., Kopple, J.D., and **Greenland, S.** (2005). Revisiting outcome predictability of serum in hemodialysis patients: Time dependency, changes over time and population attributable fraction. *Nephrology Dialysis Transplantation*, **20**, 1880-1888.
- 257. Kalantar-Zadeh, K., Kopple, J.D., Kilpatrick, R.D., McAllister, C.J., Shinaberger, C.S., Gjertson D.W., and **Greenland**, **S.** (2005). Association of morbid obesity and weight change over time with cardiovascular survival in hemodialysis population. *American Journal of Kidney Diseases*, **46**, 489-500.
- 258. Hashibe, M., Straif, K., Tashkin, D.P., Morgenstern, H., **Greenland, S.**, and Zhang, Z-F. (2005). A review of epidemiologic studies of marijuana use and cancer. *Alcohol*, **35**, 265-275.
- 259. Kalantar-Zadeh, K., Kilpatrick, R.D., McAllister, C.J., **Greenland, S.**, and Kopple, J.D. (2005). Reverse epidemiology of hypertension and cardiovascular death in the hemodialysis population. *Hypertension*, **45**, 811-817.

- 260. Kaufman, S., Kaufman, J.S., MacLehose, R.F., **Greenland, S.**, and Poole, C. (2005). Improved estimation of controlled direct effects in the presence of unmeasured confounding by intermediate variables. *Statistics in Medicine*, **24**, 1683-1702.
- 261. Fox, M.P., Lash, T.L., and **Greenland, S.** (2005). A method to automate probabilistic sensitivity analyses of misclassified binary variables. *International Journal of Epidemiology*, **34**, 1370-1377.
- 262. Jurek, A.M., **Greenland, S.**, Maldonado, G.M., and Church, T.R. (2005). Proper interpretation of nondifferential misclassification effects: expectations versus observations. *International Journal of Epidemiology*, **34**, 680-687.
- 263. Rothman, K.J., and **Greenland, S.** (2005). Causation and causal inference in epidemiology (invited paper). *American Journal of Public Health*, **95** (supplement), S144-S150.
- 264. **Greenland, S.** (2005). Epidemiologic measures and policy formulation: Lessons from potential outcomes (with discussion). *Emerging Themes in Epidemiology* (online), **2**, 1-4.
- 265. **Greenland, S.** (2005). Multiple-bias modeling for analysis of observational data (with discussion). *Journal of the Royal Statistical Society*, Series A, **168**, 267-308.
- 266. Hashibe, M., Morgenstern, H., Cui, Y., Tashkin, D.P., Zhang, Z-F., Cozen, W., Mack, T.M., and **Greenland**, **S.** (2006). Marijuana use and the risk of lung and upper-aerodigestive tract cancers: results of a population-based case-control study. *Cancer Epidemiology Biomarkers and Prevention*, **15**, 1829-1834.
- 267. Regidor, D.L., Kopple, J.D., Kovesdy, C.P., Kilpatrick, R.D., McAllister, C.J., Aronovitz, J., **Greenland, S.**, and Kalantar-Zadeh, K. (2006). Association between changes in hemoglobin and administered erythropoiesis stimulating agent and survival of hemodialysis patients. *Journal of the American Society of Nephrology*, **17**, 1181-1191.
- 268. Shinaberger, C.S., Kilpatrick, R.D., Regidor, D.L., McAllister, C.J., **Greenland, S.**, Kopple, J.D., and Kalantar-Zadeh, K. (2006). Longitudinal associations between dietary protein intake and survival in hemodialysis patients. *American Journal of Kidney Diseases*, **48**, 37-49.
- 269. Chu, H., Wang, Z., Cole, S.R. and **Greenland, S.** (2006). Illustration of a graphical and a Bayesian approach to sensitivity analysis of misclassification. *Annals of Epidemiology*, **16**, 834-841.
- 270. Cui, Y., Morgenstern, H., **Greenland, S.**, Tashkin, D.P., Mao, J., Cao, W., Cozen, W., Mack, T.M. and Zhang, Z-F. (2006). Polymorphism of *xeroderma pigmentosum* group G and the risk of lung cancer and squamous cell carcinoma of the oropharynx, larynx and esophagus. *International Journal of Cancer*, **118**, 714-720.

- 271. Jurek, A.M., Maldonado, G.M., **Greenland, S.**, and Church, T.R. (2006). Exposure measurement error is frequently ignored when interpreting epidemiologic study results. *European Journal of Epidemiology*, **21**, 871-876.
- 272. Kheifets, L., Swanson, J. and **Greenland, S.** (2006). Childhood leukemia, electric and magnetic fields, and temporal trends. *Bioelectromagnetics*, **27**, 545-552.
- 273. Cole, S.R., Chu, H. and **Greenland, S.** (2006). Multiple imputation for measurement error correction (with comment). *International Journal of Epidemiology*, **35**, 1074-1082.
- 274. Orsini, N., Bellocco, R. and **Greenland**, **S.** (2006). Generalized least squares for trend estimation of summarized dose-response data. *The Stata Journal*, **6**, 40-57.
- 275. Poole, C., **Greenland, S.**, Luetters, C., Kelsey, J.L. and Mezei, G. (2006). The relation of socioeconomic status to childhood leukemia: a review of the literature (with comment). *International Journal of Epidemiology*, **35**, 370-385.
- 276. Yang, Q., **Greenland, S.** and Flanders, W.D. (2006). Separating the impact of changes in maternal age and age-specific prevalence on trends in low birth weight prevalence in the United States, 1980-2000. *American Journal of Public Health*, **96**, 856-861.
- 277. Gustafson, P. and **Greenland**, S. (2006). Curious phenomena in Bayesian adjustment for exposure misclassification. *Statistics in Medicine*, **25**, 87-103.
- 278. Gustafson, P. and **Greenland**, **S.** (2006). The performance of random coefficient regression in accounting for residual confounding. *Biometrics*, **62**, 760-768.
- 279. **Greenland, S.** and Kheifets, L. (2006). Leukemia attributable to residential magnetic fields: Results from analyses allowing for study biases. *Risk Analysis*, **26**, 471-482.
- 280. **Greenland, S.** and Gustafson, P. (2006). Adjustment for independent nondifferential misclassification does not increase certainty that an observed association is in the correct direction. *American Journal of Epidemiology*, **164**, 63-68.
- 281. **Greenland, S.** (2006). Bayesian perspectives for epidemiologic research. I. Foundations and basic methods (with comment and reply). *International Journal of Epidemiology*, **35**, 765-778.
- 282. **Greenland, S.** (2006). Smoothing observational data: a philosophy and implementation for the health sciences. *International Statistical Review*, **74**, 31-46.
- 283. Kalantar-Zadeh, K., McAllister, C.J., Kilpatrick, R.D., Miller, L.G., Daar, E.S., Gjertson, D.W., Kopple, J.D., and **Greenland, S.** (2007). Hepatitis C virus and death risk in hemodialysis patients. *Journal of the American Society of Nephrology*, **18**, 1584-1593.

- 284. Kovesdy, C.P., Regidor, D.L., Mehotra, R., Jing, J., McAllister, C.J., **Greenland, S.**, Kopple, J.D., and Kalantar-Zadeh, K. (2007). Serum and dialysate potassium concentrations and survival in hemodialysis patients. *Clinical Journal of the American Society of Nephrology*, **2**, 999-1007.
- 285. Hoffman, F.O., Ruttenber, J.A., Apostoaei, A.I., Carroll, R.J., and **Greenland, S.** (2007). The Hanford thyroid disease study: An alternative view of the findings. *Health Physics*, **92**, 99-111.
- 286. Jurek, A.M., Maldonado, G.M., **Greenland, S.**, and Church, T.R. (2007). Uncertainty analysis: An example of its application to estimating a survey proportion. *Journal of Epidemiology and Community Health*, **61**, 651-654.
- 287. Chiba, Y., Sato, T., and **Greenland, S.** (2007). Bounds on potential risks and causal risk differences under assumptions about confounding parameters. *Statistics in Medicine*, **26**, 5125-5135.
- 288. Thomas, D.C., Witte, J.S., and **Greenland, S.** (2007). Dissecting complex mixtures: Who's afraid of informative priors? *Epidemiology*, **18**, 186-190.
- 289. **Greenland, S.** (2007). Bayesian perspectives for epidemiologic research. II. Regression analysis. *International Journal of Epidemiology*, **36**, 195-202.
- 290. **Greenland, S.** (2007). Prior data for non-normal priors. *Statistics in Medicine*, **26**, 3578-3590.
- 291. **Greenland, S.** (2007). Maximum-likelihood and closed-form estimators of epidemiologic measures under misclassification. *Journal of Statistical Planning and Inference*, **138**, 528-538.
- 292. Park, S.L., Chang, S-C, Cai, L., Cordon-Cardo, C., Ding, B-G., **Greenland, S.**, Hussain, S.K., Jiang, Q., Lu, M-L., Mao, J.T., Morgenstern, H., Mu, L-N., Ng, L.J., Pantuck, A., Rao, J., Reuter, V.E., You, N-C. Y., Yu, S-Z., Zhao, J., Belldegrun, A., and Zhang, Z-F. (2008). Associations between variants of the 8q24 chromosome and nine smoking related cancer sites. *Cancer Epidemiology Biomarkers and Prevention*, **17**, 3193-3202.
- 293. Shinaberger, C.S., Kopple, J.D., Kovesdy, C.P., McAllister, C.J., van Wyck, D., **Greenland, S.**, and Kalantar-Zadeh, K. (2008). The ratio of paricalcitol dose to parathyroid hormone level in the study of survival in maintenance hemodialysis patients. *Clinical Journal of the American Society of Nephrology*, **3**, 1769–1776.
- 294. Orsini, N., Bellocco, R., Bottai, M., Wolk, A., and **Greenland, S.** (2008) A tool for deterministic and probabilistic sensitivity analysis of epidemiologic studies. *The Stata Journal*, **8**, 29-48.

- 295. Lee, Y-C.A., Morgenstern, H., **Greenland, S.**, Tashkin, D.P., Papp, J., Wei Cao, W., Hashibe, M., You, N-C.Y., Mao, J.T., Cozen, W., Mack, T.M., and Zhang, Z-F. (2008). A case-control study of the association of polymorphisms and haplotypes of DNA *Ligase I* with lung and upper aerodigestive-tract cancers. *International Journal of Cancer*, **122**, 1630–1638.
- 296. Cui, Y., Morgenstern, H., **Greenland, S.**, Tashkin, D.P., Mao, J., Cai, L., Cozen, W., Mack, T.M., Lu, Q-Y., and Zhang, Z-F. (2008). A case-control study of dietary flavonoid intake and lung cancer. *Cancer*, **112**, 2241-2248.
- 297. Streja, E., Kovesdy, C.P., **Greenland, S.**, Kopple, J.D., McAllister, C.J., Nissenson, A.R., and Kalantar-Zadeh, K. (2008). Erythropoietin, iron deficiency and thrombocytosis: A possible explanation for hemoglobin-survival paradox in chronic kidney disease. *American Journal of Kidney Diseases*, **52**, 727-736.
- 298. Casteel, C., Peek-Asa, C., **Greenland, S.**, Chu, L.D., Menesian, L., and Kraus, J.F. (2008). A study of the effectiveness of a workplace violence intervention for small retail and service establishments. *Journal of Occupational and Environmental Medicine*, **50**, 1365-1370.
- 299. Arah, O., Chiba, Y., and **Greenland, S.** (2008). Bias formulas for external adjustment and sensitivity analysis of unmeasured confounders. *Annals of Epidemiology*, **18**, 637-646.
- 300. Jurek, A., Maldonado, G.M., and **Greenland, S.** (2008). How far from nondifferential exposure or disease does misclassification have to be to bias measures of association away from the null? *International Journal of Epidemiology*, **37**, 382-385.
- 301. Shinaberger, C.S., **Greenland, S.**, Kopple, J.D., Van Wyck, D., Kovesdy, C.P., and Kalantar-Zadeh, K. (2008). Is controlling serum phosphorus by decreasing protein intake beneficial or harmful in individuals with chronic kidney disease? *American Journal of Clinical Nutrition*, **88**, 1511-1518.
- 302. **Greenland, S.**, Lanes, S.F., and Jara, M. (2008). Estimating efficacy from randomized trials with discontinuations: The need for intent-to-treat design and g-estimation. *Clinical Trials*, **5**, 5-13.
- 303. **Greenland, S.** (2008). Variable selection and shrinkage in the control of multiple confounders (invited commentary). *American Journal of Epidemiology*, **167**, 523-529. Erratum: *American Journal of Epidemiology*, **167**, 1142.
- 304. **Greenland, S.** (2008). The need for reorientation toward cost-effective prediction (invited commentary). *Statistics in Medicine*, **27**, 109-206. Correction: *Statistics in Medicine*, **27**, 316.

- 305. **Greenland, S.** (2008). Bayesian interpretation and analysis of research results (invited paper). *Seminars in Hematology*, **45**, 141-149.
- 306. **Greenland, S.** (2008). Multiple testing and association selection in general epidemiology (invited commentary). *International Journal of Epidemiology*, **37**, 430-434.
- 307. Berthiller, J.P., Lee, Y-C.A., Boffetta, P., Wei, Q., Sturgis, E.M., **Greenland, S.**, Morgenstern, H., Zhang, Z-F., Lazarus, P., Muscat, J., Chen, C., Schwartz, S.M., Neto, J.E., Filho, V.W., Koifman, S., Curado, M.P., Matos, E., Fernandez, L., Menezes, A., Daudt, A.W., Ferro, G., Brennan, P., and Hashibe, M. (2009). Marijuana smoking and the risk of head and neck cancer: pooled analysis in the INHANCE Consortium. *Cancer Epidemiology Biomarkers and Prevention*, **18**, 1544-1551.
- 308. Corliss, H.L., Cochran, S.D., Mays, V.M., **Greenland, S.**, and Seeman, T.E. (2009). Age of minority sexual orientation development and risk of childhood maltreatment and suicide attempts in women. *American Journal of Orthopsychiatry*, **79**, 511-521.
- 309. Cain, L.E., Cole, S.R., **Greenland, S.**, Brown, T.T., Chmiel, J.S., Kingsley, L., and Detels, R. (2009). Effect of highly active antiretroviral therapy on incident AIDS using calendar period as an instrumental variable. *American Journal of Epidemiology*, **170**, 1124-1132.
- 310. Hoggatt, K.J., **Greenland, S.**, and Ritz, B. (2009). Adjustment for response bias via two-phase analysis: An application. *Epidemiology*, **20**, 872-879.
- 311. Gustafson, P. and **Greenland**, **S.** (2009). Interval estimation for messy observational data. *Statistical Science*, **24**, 328-342.
- 312. **Greenland, S.** and Robins, J.M. (2009). Identifiability, exchangeability, and confounding revisited (invited paper). *Epidemiologic Perspectives and Innovations* (online) 6: article 4.
- 313. **Greenland, S.**, and Kheifets, L. (2009). Designs and analyses for exploring the relation of magnetic fields to childhood leukaemia: A pilot project for the Danish National Birth Cohort. *Scandinavian Journal of Public Health*, **37**, 83-92.
- 314. **Greenland, S.** (2009). Interactions in epidemiology: relevance, identification, and estimation (invited commentary). *Epidemiology*, **20**, 14-17.
- 315. **Greenland, S.** (2009). Weaknesses of certain Bayesian methods for meta-analysis: The case of vitamin E and mortality (invited commentary). *Clinical Trials*, **6**, 42-46.
- 316. **Greenland, S.** (2009). Dealing with uncertainty about investigator bias: disclosure is informative (invited paper). *Journal of Epidemiology and Community Health*, **63**, 593-598.

- 317. **Greenland, S.** (2009). Bayesian perspectives for epidemiologic research. III. Bias analysis via missing-data methods. *International Journal of Epidemiology*, **38**, 1662-1673 (doi: 10.1093/ije/dyp278), corrigendum (2010) *International Journal of Epidemiology*, **39**, 1116.
- 318. **Greenland, S.** (2009). Relaxation penalties and priors for plausible modeling of nonidentified bias sources. *Statistical Science*, **24**, 195-210 (doi: 10.1214/09-STS291).
- 319. Kalantar-Zadeh, K., Miller J.E., Kovesdy, C.P., Mehrotra, R., Lukowsky, L., Streja, E., Ricks, J., Jing, J., Nissenson, A.R., **Greenland, S.**, and Norris, K.C. (2010). Impact of race on hyperparathyroidism, mineral disarrays, administered vitamin D mimetic, and survival in hemodialysis patients. *Journal of Bone and Mineral Research*, **25**, 2724-2734 (doi: 10.1002/jbmr.177).
- 320. Park, S.L., Bastani, D., Goldstein, B.Y., Chang, S.-C., Cai, L., Cozen, W., Cordon-Cardo, C., Ding, B., **Greenland, S.**, He, N., Hussain, S.K., Jiang, Q., Lee, Y.-C.A., Liu, S., Lu, M.-L., Mack, T.M., Mao, J.T., Morgenstern, H., Mu, L.-N., Oh, S.S., Papp, J.C., Pantuck, A., Rao, J., Reuter, V.E., Tashkin, D.P., Wang, H., You, N.-C.Y., Yu, S.-Z., Zhao, J.-K., and Zhang, Z.-F. (2010). Associations between NBS1 polymorphisms, haplotypes, and smoking-related cancer sites. *Carcinogenesis*, **31**, 1264-1271.
- 321. Miller J.E., Kovesdy, C.P., Nissenson, A.R., Mehrotra, R., Streja, E., Van Wyck, D., **Greenland, S.**, and Kalantar-Zadeh, K. (2010). Association of hemodialysis treatment time and dose: The role of race and sex. *American Journal of Kidney Diseases*, **55**, 100-112.
- 322. Oh, S.S., Chang, S-C., Cai, L., Cordon-Cardo, C., Ding, B-D., **Greenland, S.**, He, N., Jiang, Q., Le, A., Amy Lee, Y-C.A., Liu, S., Lu, M-L., Mao, J-T., Morgenstern, H., Mu, L-N., Pantuck, A., Park, S.L., Rao, J.Y., Reuter, V.E., Tashkin, D.P., Wang, H., You, N-C.Y., Yu, S-Z., Zhao, J-K., Belldegrun, A., and Zhang, Z.-F. (2010). Single-nucleotide polymorphisms of inflammation-related genes and their associations with smoking-related cancers. *International Journal of Cancer*, **127**, 2169–2182.
- 323. Xu, H., Song, Y., You, N-C., Zhang, Z-F., **Greenland, S.**, Ford, E.S., He, L., and Liu, S. (2010). Prevalence and clustering of metabolic risk factors for type 2 diabetes among Chinese adults in Shanghai, China. *BMC Public Health* (online journal), **10**, no. 683 (doi:10.1186/1471-2458-10-683).
- 324. Hosgood, H.D., Boffetta, P., **Greenland, S.**, McLaughlin, J., Seow, A., Duell, E.J., Andrew, A.S., Zaridze, D., Szeszenia-Dabrowska, N., Rudnai, P., Lissowska, J., Fabiánová, E., Mates, D., Bencko, V., Foretova, L., Janout, V., Morgenstern, H., Zhang, Z.-F., Hung, R.J., Brennan, P., and Lan, Q. (2010). In-home coal and wood use and lung cancer risk: a pooled-analysis of 11,640 subjects from North America, Europe and Asia. *Environmental Health Perspectives*, **118**, 1743–1747 (doi:10.1289/ehp.1002217).

- 325. **Greenland, S.** (2010). The need for syncretism in applied statistics (commentary on "The future of indirect evidence" by Bradley Efron). *Statistical Science*, **25**, 158-161.
- 326. **Greenland, S.** (2010). Simpson's paradox from adding constants in contingency tables as an example of Bayesian noncollapsibility. *The American Statistician*, **64**, 340-344.
- 327. Ricks, J., Molnar, M.Z., Kovesdy, C.P., Kopple, J.D, Norris, K.C., Mehrotra, R., Nissenson, A.R., Arah, O., **Greenland, S.**, and Kalantar-Zadeh, K. (2011). Racial and ethnic differences in the association of body mass index and survival in maintenance hemodialysis patients. *American Journal of Kidney Diseases*, **58**, 574-582.
- 328. Streja, E., Kovesdy, C.P., Molnar, M.Z., Norris, K.C., **Greenland, S.**, Nissenson, A.R., Kopple, J.D., and Kalantar-Zadeh, K. (2011). The role of nutritional status in higher survival of African American and Hispanic hemodialysis patients. *American Journal of Kidney Diseases*, **57**, 883-893.
- 329. Junod, B., Zahl, P.H., Kaplan, R.M., Olsen, J., and **Greenland, S.** (2011). An investigation of the apparent breast-cancer epidemic in France: Screening and incidence trends in birth cohorts. *BMC Cancer*, **11**, 401 (online journal).
- 330. Flanders, W.D., Johnson, C.Y., Howards, P.P., and **Greenland, S.** (2011). Dependence of confounding on the target population: A modification of causal graphs to account for coaction. *Annals of Epidemiology*, **21**, 698-705.
- 331. Finkle, W.D., Der, J.S., **Greenland, S.**, Adams, J., Ridgeway, G., Blaschke, T., Wang, Z., and VanRiper, K.B. (2011). Risk of injury requiring hospitalization following an initial prescription for zolpidem, alprazolam, lorazepam, or diazepam in elderly patients. *Journal of the American Geriatric Society*, **59**, 1883-1890.
- 332. Zhu, M., Chu, H. and **Greenland, S.** (2011). Biased standard errors from complex survey analysis: An example from applying ordinary least squares to the National Hospital Ambulatory Medical Care Survey. *Annals of Epidemiology*, **21**, 830-834.
- 333. Jurek, A.M., **Greenland, S.**, Spector, L.G., Roesler, M.A., Robison, L.L., and Ross, J.A. (2011). Self-report versus medical record data of perinatal factors in a study of infant leukemia: A report from the children's oncology group. *Paediatric and Perinatal Epidemiology*, **25**, 540-548.
- 334. Greene, N., **Greenland, S.**, Olsen, J., and Nohr, E.A. (2011). Estimating bias from loss to follow-up in the Danish National Birth Cohort. *Epidemiology*, **22**, 815-822.
- 335. Orsini, N., and **Greenland, S.** (2011). A procedure to tabulate and plot results after flexible modeling of a quantitative covariate. *The Stata Journal*, **11**, 1-29.
- 336. Lipsky, A.M., and **Greenland, S.** (2011). Confounding due to changing background risk in adaptively randomized trials. *Clinical Trials*, **8**, 390-397.

- 337. **Greenland, S.**, and Poole, C. (2011). Problems in common interpretations of statistics in scientific articles, expert reports, and testimony. *Jurimetrics*, **51**, 113-129.
- 338. **Greenland, S.**, and Pearl, J. (2011). Adjustments and their consequences collapsibility analysis using graphical models. *International Statistical Review*, **79** (3), 401-426.
- 339. **Greenland, S.** (2011). Null misinterpretation in statistical testing and its impact on health risk assessment. *Preventive Medicine*, **53**, 225-228.
- 340. Kalantar-Zadeh, K., Streja, S., Molnar, M.Z., Lukowsky, L., Krishnan, M., Kovesdy, C.P., and **Greenland**, **S.** (2012). Mortality prediction by surrogates of body composition: An examination of the 'obesity paradox' in hemodialysis patients. *American Journal of Epidemiology*, **175**, 793-803.
- 341. Hoshino, J., Kaneku, H., Everly, M.J., Trivedi, H.T., **Greenland, S.**, and Terasaki, P.I. (2012). Using donor-specific antibodies to monitor the need for immunosuppression. *Transplantation*, **93**, 1173-1178.
- 342. Ojha, R.P., Hanzis, C.A., Hunter, Z.R., **Greenland, S.**, Offutt-Powell, T.N., Manning, R., Lewicki, M., Brodsky, P.S., Ioakimidis, L., Tripsas, C.K., Patterson, C.J., Sheehy, P., Singh, K.P., and Treon, S.P. (2012). Family history of non-hematologic cancers among Waldenstrom macroglobulinemia patients: A preliminary study. *Cancer Epidemiology*, **36**, 294-297.
- 343. Redelings, M.D., Sorvillo, F., Smith, L.V., and **Greenland, S.** (2012). Why confidence intervals should be used in reporting studies of complete populations. *The Open Public Health Journal* (online), **5**, 53-55.
- 344. Cole, S.R., Chu, H., **Greenland, S.**, Hamra, G. and Richardson, D.B. (2012). Bayesian posterior distributions without Markov chains (with discussion). *American Journal of Epidemiology*, **175**, 368-380.
- 345. Lyles, R.H., Guo, Y., and **Greenland, S.** (2012). Reducing bias and mean squared error associated with regression-based odds ratio estimators. *Journal of Statistical Planning and Inference*, **142**, 3235–3241.
- 346. **Greenland, S.** (2012). Transparency and disclosure, neutrality and balance: shared values or just shared words? *Journal of Epidemiology and Community Health*, **66**, 967–970.
- 347. **Greenland, S.** (2012). Cornfield, risk relativism, and research synthesis (invited commentary). *Statistics in Medicine*, **31**, 2773–2777.
- 348. **Greenland, S.** (2012). Nonsignificance plus high power does not imply support for the null over the alternative. *Annals of Epidemiology*, **22**, 364–368.
- 349. **Greenland, S.** (2012). Intuitions, simulations, theorems: The role and limits of methodology (invited commentary). *Epidemiology*, **23**, 440-442.

- 350. **Greenland, S.** (2012). Underestimating effects: Why causation probabilities need to be replaced in regulation, policy, and the law (invited commentary). *Bulletin of the Atomic Scientists*, **68**, 76-83.
- 351. Vergara, X., Kheifets, L., **Greenland, S.**, Oksuzyan, S., Cho, Y-S, and Mezei, G. (2013). Occupational exposure to extremely low frequency electromagnetic fields and neurodegenerative disease: A meta-analysis. *Journal of Occupational and Environmental Medicine*, **55**, 135-146.
- 352. Jurek, A.M., Maldonado, G.M., and **Greenland, S.** (2013). Adjusting for outcome misclassification in case-control studies: The importance of accounting for case-control sampling and other forms of outcome-related selection. *Annals of Epidemiology*, **23**, 129-135.
- 353. Mansournia, M.A., Hernán, M.A., and **Greenland, S.** (2013). Matched designs and causal diagrams. *International Journal of Epidemiology*, **42**, 860–869, doi:10.1093/ije/dyt083.
- 354. Ioannidis, J.P.A., **Greenland, S.**, Hlatky, M.A., Khoury, M.J., Macleod, M.R., Moher, D., Schulz, K.F., Tibshirani, R. (2013). Improving efficiency and reliability of research: design, conduct and analysis. *The Lancet*, **383**, 166-175.
- 355. Sullivan, S., and **Greenland, S.** (2013). Bayesian regression in SAS software. *International Journal of Epidemiology*, **42**, 308-317. Erratum (2014), *International Journal of Epidemiology*, **43**, 1667–1668.
- 356. Lauer, J.A. and **Greenland, S**. (2013). Deriving logistic distributions from basic processes. *Journal of Statistical Theory and Practice*, **7**, 401-420.
- 357. Westreich, D., and **Greenland, S**. (2013). The table-2 fallacy: Presenting and interpreting confounder and modifier coefficients. *American Journal of Epidemiology*, **177**, 292-298.
- 358. Jurek, A.M., and **Greenland, S.** (2013). Adjusting for multiple-misclassified variables in a study using birth certificates. *Annals of Epidemiology*, **23**, 515-520.
- 359. Sjölander, A., and **Greenland, S.** (2013). Ignoring the matching variables in cohort studies when is it valid, and why? *Statistics in Medicine*, **32**, 4696–4708.
- 360. **Greenland, S.**, and Poole, C. (2013). Living with P-values: Resurrecting a Bayesian perspective. *Epidemiology*, **24**, 62-68.
- 361. **Greenland, S.**, and Poole, C. (2013). Living with statistics in observational research. *Epidemiology*, **24**, 73-78.

- 362. Yang, T., Chang, P-Y., Park, S.L., Bastani, D., Chang S-C., Morgenstern, H., Tashkin, D.P., Mao, J.T., Papp, J.C., Rao, J-Y., Cozen, S., Mack, T.M., **Greenland, S.**, and Zhang, Z-F. (2014). Tobacco smoking, *NBS*1 polymorphisms, and survival in lung and upper aerodigestive tract cancers with semi-Bayes adjustment for hazard-ratio variation. *Cancer Causes and Control*, **25**, 11-23.
- 363. Chang, S.-C., Chang, P.-Y., Butler, B., Goldstein, B.Y., Mu, L., Cai, L., You, N-C. Y., Baecker, A., Yu, S-Z., Heber, D., Lu, Q-Y, Li, L., **Greenland, S.**, and Zhang, Z-F. (2014). Single nucleotide polymorphisms of one-carbon metabolism and cancers of the esophagus, stomach, and liver in a Chinese population. *PLOS ONE*, **9**(10), e109235. doi: 10.1371/journal.pone.0109235.
- 364. Lash, T.L., Fox, M.P., Maclehose, R.F., Maldonado, G., McCandless, L.C., and **Greenland, S.** (2014). Good practices for quantitative bias analysis. *International Journal of Epidemiology*, **43**, 1969-1985.
- 365. Cole, S.R., Chu, H., and **Greenland, S.** (2014). Maximum likelihood, profile likelihood, and penalized likelihood: a primer. *American Journal of Epidemiology*, **179**, 252-260.
- 366. Finkle, W.D., **Greenland, S.**, Ridgeway, G.K., Adams, J.L., Frasco, M.A., Cook, M.B., Fraumeni, J.F., and Hoover, R.N. (2014). Increased risk of non-fatal myocardial infarction following testosterone therapy prescription in men. *PLOS ONE*, **9**(1), e85805. doi:10.1371/journal.pone.0085805.
- 367. Hoggatt, K.J. and **Greenland**, **S.** (2014). Extending organizational schema for causal effects. *Epidemiology*, **15**, 98-102.
- 368. Lanes, S.F., Quinlan, S., Mast, C., **Greenland S.**, and Holick, C. (2015). Assessing bias in administrative databases studies of RotaTeq vaccine completion due to exclusion of subjects with incomplete follow-up. *Emerging Themes in Epidemiology* (online), **12**:5, DOI 10.1186/s12982-015-0027-6.
- 369. Zhang, L.R., Morgenstern, H., **Greenland, S.**, Chang, S.-C., Lazarus, P., Teare, M.D., Woll, P.J., Orlow, I., Cox, B., Berhane, Y., Liu, G., and Hung, R.J. (2015). Cannabis smoking and lung cancer risk: pooled analysis in the International Lung Cancer Consortium. *International Journal of Cancer*, **136**, 894–903.
- 370. Discacciati, A., Orsini, N., and **Greenland, S.** (2015). Approximate Bayesian logistic regression via penalized likelihood by data augmentation. *The Stata Journal*, **15**(3), 712-736.
- 371. Mansournia, M.A., and **Greenland, S.** (2015). The relation of collapsibility and confounding to faithfulness and stability. *Epidemiology*, **26**(4), 466-472.

- 372. **Greenland, S.**, and Mansournia, M.A. (2015). Limitations of individual causal models, causal graphs, and ignorability assumptions, as illustrated by random confounding and design unfaithfulness. *European Journal of Epidemiology*, **30**, 1101-1110.
- 373. **Greenland, S.**, and Pearce, N. (2015). Statistical foundations for model-based adjustments. *Annual Reviews of Public Health*, **36**, 89-108.
- 374. **Greenland, S.**, and Mansournia, M. (2015). Penalization, bias reduction, and default priors in logistic and related categorical and survival regressions. *Statistics in Medicine*, **34**, 3133–3143, doi.org/10.1002/sim.6537.
- 375. **Greenland, S.** (2015). Concepts and pitfalls in measuring and interpreting causal attribution, preventive potential, and causation probabilities. *Annals of Epidemiology*, **25**, 155-161.
- 376. Discacciati, A., Bellavia, A., Orsini, N., and **Greenland, S.** (2016). On the interpretation of risk and rate advancement periods. *International Journal of Epidemiology*, **45**, 278–284.
- 377. **Greenland, S.**, Senn, S.J., Rothman, K.J., Carlin, J.C., Poole, C., Goodman, S.N., and Altman, D.G. (2016). Statistical tests, confidence intervals, and power: A guide to misinterpretations. *The American Statistician*, **70**, online supplement 1 at http://amstat.tandfonline.com/doi/suppl/10.1080/00031305.2016.1154108/suppl_file/utas _a_1154108_sm5368.pdf; reprinted in the *European Journal of Epidemiology*, **31**, 337-350.
- 378. **Greenland, S.**, Fischer, H.J., and Kheifets, L. (2016). Methods to explore uncertainty and bias introduced by job exposure matrices. *Risk Analysis*, **36**, 74-82.
- 379. **Greenland, S.**, Mansournia, M.A., and Altman, D.G. (2016). Sparse-data bias: A problem hiding in plain sight. *British Medical Journal*, 353:i1981, 1-6, doi: 10.1136/bmj.i1981.
- 380. **Greenland, S.**, Daniel, R., and Pearce, N. (2016). Outcome modeling strategies in epidemiology: Traditional methods and basic alternatives. *International Journal of Epidemiology*, **45**, 565–575, doi: 10.1093/ije/dyw040.
- 381. **Greenland, S.** (2016). The ASA guidelines and null bias in current teaching and practice. *The American Statistician*, **70**, online supplement 10 at http://amstat.tandfonline.com/doi/suppl/10.1080/00031305.2016.1154108/suppl_file/utas _a_1154108_sm5079.pdf
- 382. Corbin, M, Haslett, S., Pearce, N., Maule, M., and **Greenland, S.** (2017). A comparison of sensitivity-specificity imputation, direct imputation and fully Bayesian analysis to adjust for misclassification when validation data are unavailable. *International Journal of Epidemiology*, **46**, 1063–1072.

- 383. **Greenland, S.** (2017). For and against methodology: Some perspectives on recent causal and statistical inference debates. *European Journal of Epidemiology*, **32**, 3-20, https://doi.org/10.1007/s10654-017-0230-6
- 384. **Greenland, S.** (2017). The need for cognitive science in methodology. *American Journal of Epidemiology*, **186**, 639-645, https://doi.org/10.1093/aje/kwx259.
- 385. Cole, S.R., Edwards, J.K., Westreich, D., Lesko, C., Lau, B., Mugavero, M.J., Matthews, W.C., Eron Jr., J.J., and **Greenland, S.** (2018). Estimating multiple treatment effects using a semi-Bayes semiparametric marginal structural Cox proportional hazards regression model. *Biometrical Journal*, **60**, 100-114.
- 386. Ojha, R.P., MacDonald, B.R., Chu, Tzu-Chun, and **Greenland**, **S.** (2018). Different cutpoints for transient elastography lead to different associations with cirrhosis. *Clinical Gastroenterology and Hepatology*, **16**, 1359-1360.
- 387. Mansournia, M.A., Geroldinger, A., **Greenland, S.**, and Heinze, G. (2018). Separation in logistic regression causes, consequences, and control. *American Journal of Epidemiology*, **187**, 864–870.
- 388. Mansournia, M.A., Jewell, N.P., and **Greenland, S.** (2018). Case-control matching: Addressing effects and misconceptions. *European Journal of Epidemiology*, **33**, 5–14, https://doi.org/10.1007/s10654-017-0325-0
- 389. Rothman, K.J., and **Greenland, S.** (2018). Planning study size based on precision rather than power. *Epidemiology*, **29**, 599-603, doi: 10.1097/EDE.000000000000876.
- 390. Amrhein, V., Trafimow, D., and **Greenland, S.** (2019). Inferential statistics as descriptive statistics: There is no replication crisis if we don't expect replication. *The American Statistician*, **73** supplement 1, 262-270, open access at www.tandfonline.com/doi/pdf/10.1080/00031305.2018.1543137
- 391. Mansournia, M.A., Naimi, A., and **Greenland, S.** (2019). Causal inference in longitudinal data: How exposure terms determine the target effect and confounding by exposure. *American Journal of Epidemiology*, in press.
- 392. Amrhein, V., **Greenland, S.**, and McShane, B. (2019). Scientists rise up against statistical significance. *Nature*, **567**, 305-307, open access at https://www.nature.com/articles/d41586-019-00857-9
- 393. **Greenland, S.**, Fay, M.P., Brittain, E.H., Shih, J.H., Follmann, D.A., Gabriel, E.E., and Robins, J.M. (2019). On causal inferences for personalized medicine: how hidden causal assumptions led to erroneous causal claims about the D-value. *The American Statistician*, 73, in press, doi: 10.1080/00031305.2018.1502684

- 394. **Greenland, S.** (2019). Multiple comparisons, loss sensitivity, and analysis hacking: Some background for examining multiparameter methodologies. *Pediatric and Perinatal Epidemiology*, to appear.
- 395. **Greenland, S.** (2019). Some misleading criticisms of P-values and their resolution with S-values. *The American Statistician*, **73**, supplement 1, 106-114, open access at www.tandfonline.com/doi/pdf/10.1080/00031305.2018.1529625
- 396. **Greenland, S.** (2019). Multiple comparisons controversies are about context and costs, not frequentism vs. Bayesianism. *European Journal of Epidemiology*, **34**, to appear.

Articles Submitted or In Preparation

- 397. **Greenland, S.** The causal foundations of probability and statistics.
- 398. **Greenland, S.** To stop uncertainty laundering, replace "significance" and "confidence" with compatibility.
- 399. **Greenland, S.** The unconditional information in P-values, and its refutational interpretation via S-values.
- 400. **Greenland, S.** The dependence of confounding sensitivity on data features.

Books

- 1. **Greenland, S.** (ed.) (1987). Evolution of Epidemiologic Ideas: Annotated Readings on Concepts and Methods. Chestnut Hill, MA: Epidemiology Resources Inc.
- 2. Rothman, K. J. and **Greenland, S.** (1998). *Modern Epidemiology*, 2nd ed. Philadelphia: Lippincott-Raven.
- 3. Porta, M., **Greenland, S.**, and Last, J.M. (eds). (2008). *A Dictionary of Epidemiology*, 5th ed. New York: Oxford University Press.
- 4. Rothman, K. J., **Greenland, S.**, and Lash, T.L. (2008). *Modern Epidemiology*, 3rd ed. Philadelphia: Lippincott-Wolters-Kluwer.
- 5. Porta, M., Hernán, M.A., **Greenland, S.**, and Last, J.M. (eds). (2014). *A Dictionary of Epidemiology*, 6th ed. New York: Oxford University Press.

Book Chapters

- 1. Neutra, R. R. and **Greenland, S.** (1984). Continuous intrapartum electronic fetal monitoring. Chapter 22 in: Wald, N. (ed.) *Antenatal and Neonatal Screening for Disease*. New York: Oxford University Press, 480-509.
- 2. Rothman, K. J. and **Greenland, S.** (1997). Causation and causal inference. Chapter 15 in: Detels, R., Holland, W. W., McEwen, J. and Omenn, G. S. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (3rd ed.). New York: Oxford University Press, 617-629.
- 3. **Greenland, S.** (1997). Concepts of validity in epidemiological research. Chapter 14 in: Detels, R., Holland, W. W., McEwen, J. and Omenn, G. S. (eds.), *The Oxford Textbook of Public Health*, Vol. **2** (3rd ed.). New York: Oxford University Press, 597-615.
- 4. **Greenland, S.** (2002). Causality theory for policy uses of epidemiologic measures. Chapter 6.2 in: Murray, C.J.L., Salomon, J.A., Mathers, C.D. and Lopez, A.D. (eds.). *Summary Measures of Population Health*. Cambridge, MA: Harvard University Press/WHO, 291-302.
- 5. **Greenland, S.** (2003). The need for multiple-bias modeling of observational data. *Proceedings of the Section on Statistics in Epidemiology*. Alexandria, VA, American Statistical Association, 1681-1688.
- 6. **Greenland, S.** (2004). Ecologic inference problems in studies based on surveillance data. Chapter 12 in: Stroup, D.F. and Brookmeyer, R. (eds.). *Monitoring the Health of Populations: Statistical Principles and Methods for Public Health Surveillance*. New York: Oxford University Press, 315-340.
- 7. **Greenland, S.** (2004). An overview of methods for causal inference from observational studies. Chapter 1 in: Gelman, A. and Meng, X.L. (eds.). *Applied Bayesian Modeling and Causal Inference from an Incomplete-Data Perspective*. New York: Wiley, 3-13.
- 8. Rothman, K.J. and **Greenland, S.** (2005). Basic concepts. Chapter I.1 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 43-88.
- 9. Pearce, N. and **Greenland, S.** (2005). Confounding and interaction. Chapter I.9 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 371-397.
- 10. **Greenland, S.** (2005). Regression methods for epidemiological analysis. Chapter II.3 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*. New York: Springer, 625-691.
- 11. Rothman, K. J., **Greenland, S.**, and Lash, T.L. (2008). Epidemiologic study designs. Chapter 3 in: Rao, C.R., Miller, J.P., and Rao, D.C. (eds.), *Handbook of Statistics*, vol. 27. New York: Elsevier, 64-108.

- 12. Hoggatt, K.J. and **Greenland, S.** (2009). Causation and causal inference. Chapter 6.13 in: Detels, R., Beaglehole, R., Lansang, M.A., and Gulliford, M. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (4th ed.). New York: Oxford University Press, 616-622.
- 13. **Greenland, S.** (2009). Validity and bias in epidemiological research. Chapter 6.12 in: Detels, R., Beaglehole, R., Lansang, M.A., and Gulliford, M. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (4th ed.). New York: Oxford University Press, 596-615.
- 14. **Greenland, S.** (2010). Ecologic Inference. In: Chow, S-C. (ed.), *Encyclopedia of Biopharmaceutical Statistics*, 3rd ed. New York: CRC Press, 439-448 (revised from 2nd ed., 2003, Marcel Dekker).
- 15. **Greenland, S.** (2010). Overthrowing the tyranny of null hypotheses hidden in causal diagrams. Ch. 22 in: Dechter, R., Geffner, H., and Halpern, J.Y. (eds.). *Heuristics, Probabilities, and Causality: A Tribute to Judea Pearl*. London: College Publications, 365-382.
- 16. Djulbegovic, B., Hozo, I., and **Greenland, S.** (2011). Uncertainty in clinical medicine. In: Gifford, F. (ed.). *Philosophy of Medicine*. North Holland: Elsevier, 299-356.
- 17. **Greenland, S.** (2011). The logic and philosophy of causal inference: A statistical perspective. In: Bandyopadhyay, P.S. and Forster, M.R. (eds.). *Handbook of the Philosophy of Statistics* vol. 7. North Holland: Elsevier, 813-832.
- 18. **Greenland, S.** and Brumback, B.A. (2012). An overview of relations among causal modelling methods. Reprinted from *International Journal of Epidemiology*, 2002, **31**, 1030-1037 as Ch. 55 in: Bausell, R.B., ed. *Health Evaluation*. Thousand Oaks, CA: Sage Publications, 249-263.
- 19. **Greenland, S.** (2012). Causal inference as a prediction problem: Assumptions, identification, and evidence synthesis. Ch. 5 in: Berzuini, C., Dawid, A.P., and Bernardinelli, L. (eds.). *Causality: Statistical Perspectives and Applications*. John Wiley and Sons, Chichester, UK, 43-58.
- 20. Rothman, K.J. and **Greenland, S.** (2014). Basic concepts. Chapter 3 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*, 2nd ed. New York: Springer, 75-122.
- 21. Gustafson, P. and **Greenland, S.** (2014). Misclassification. Chapter 17 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*, 2nd ed. New York: Springer, 639-658.
- 22. Pearce, N. and **Greenland, S.** (2014). Confounding and interaction. Chapter 18 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*, 2nd ed. New York: Springer, 659-684.
- 23. **Greenland, S.** (2014). Sensitivity analysis and bias analysis. Chapter 19 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*, 2nd ed. New York: Springer, 685-706.

- 24. **Greenland, S.** (2014). Regression methods for epidemiological analysis. Chapter 30 in: Ahrens, W. and Pigeot, I. (eds.). *Handbook of Epidemiology*, 2nd ed. New York: Springer, 1087-1159.
- 25. Hoggatt, K.J., **Greenland, S.**, and VanderWeele T.J. (2015). Causation and causal inference. Chapter 5.14 in: Detels, R., Gulliford, M., Karim, Q.A., and Tan, C.C. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (6th ed.). New York: Oxford University Press, 591–598.
- 26. **Greenland, S.** and VanderWeele T.J. (2015). Validity and bias in epidemiological research. Chapter 5.13 in: Detels, R., Gulliford, M., Karim, Q.A., and Tan, C.C. (eds.), *The Oxford Textbook of Public Health*, Vol. 2 (6th ed.). New York: Oxford University Press, 569-590.

Grants and Contracts

- 1. National Institute of Child Health and Human Development: Electronic fetal monitoring and the Apgar Score. Acting Director. 7/1/80 to 11/30/80, \$38,566.
- 2. Biomedical Research Support Grant: Effects of marijuana use during pregnancy. Principal Investigator. 10/1/81 to 6/30/82, \$4,000.
- 3. Jonsson Cancer Center: Dietary questionnaire for use in studies of diet and cancer. Co-Investigator. 7/1/83 to 6/30/84, \$5,435.
- 4. American Association of Medical Commissioners: Analysis of health risks of raw milk. Co-Principal Investigator. 7/1/83 to 6/30/85, \$31,318.
- 5. State of California Department of Health Services: Riverside environmental study. Co-Principal Investigator. 7/1/84 to 12/31/85, \$44,374.
- 6. National Cancer Institute: Cancer epidemiology training grant. Co-Director. 7/1/80 to 6/30/85, \$543,720.
- 7. National Institute of Child Health and Human Development: An epidemiologic analysis of SIDS in a predefined cohort. Co-Principal Investigator. 7/1/84 to 12/31/86, \$56,761.
- 8. General Electric Corporation: Case-control study of cancer mortality associated with pyranol exposure. Co-Principal Investigator. 4/1/85 to 9/30/87, \$206,821.
- 9. University of Lowell Research Foundation: Cancer mortality at G. E. Pittsfield. Principal Investigator. 10/1/87 to 4/30/90, \$174,368.

- 10. National Center for Health Services Research: A comparative evaluation of methods for confounder selection in nonexperimental evaluation of medical technology. Principal Investigator. 2/1/88 to 7/31/90, \$49,908.
- 11. Southern California Edison, Environmental Research Division: Development of occupational injury surveillance methods. Contractor. 1/30/90 to 6/30/92, \$24,000.
- 12. Southern California Edison, Occupational Research Division: Analysis of occupational injury database. Contractor. 5/1/93 to 12/31/94, \$36,000.
- 13. Battelle Corporation, Survey Research Associates: Estimation of smoking-attributable mortality in the U.S. Contractor. 6/30/94 to 12/31/95, \$15,000.
- 14. Los Angeles County Department of Health Services HIV Epidemiology Program: Backprojection of human immunodeficiency virus incidence. Contractor. 12/1/92 to 12/31/96, \$58,000.
- 15. Epidemiology Resources: Cross-design synthesis of studies of the transdermal nicotine patch. Contractor. 10/1/95 to 1/31/97, \$42,000.
- 16. National Highway and Traffic Safety Administration. Pickup-truck occupants: Injuries and policy interventions. Principal Investigator. 9/01/96 to 8/31/97, \$7,119.
- 17. Electric Power Research Institute: Applying the case-specular method to the Savitz Denver study homes. Contractor. 2/2/96 to 12/31/98, \$30,100.
- 18. National Institute of Environmental Health Sciences: Attributable fraction estimates for EMF exposures. Principal Investigator. 2/01/97 to 1/31/99, \$24,770.
- 19. Electric Power Research Institute: Full uncertainty assessment of the relation of magnetic fields to childhood leukemia. Contractor. 8/1/01 to 6/30/02, \$47,000.
- 20. Public Health Institute: Assessment of lifetime risk of skin cancer from the use of coaltar containing shampoos. Contractor. 5/22/00 to 6/30/02, \$50,000.
- 21. National Institute of Mental Health: OCD treatment outcomes beyond phase 3 drug trials. Co-Investigator. 8/1/98 to 7/31/03, \$400,136.
- 22. Rockefeller Foundation: Development of a clinical assessment scale to predict end-stage dementia. Co-Investigator. 12/1/00-11/30/03, \$100,000.
- 23. National Institute of Mental Health: Risk for psychopathology among lesbians and gay men. Co-Investigator. 9/29/00 to 8/31/03, \$1,344,889.
- 24. National Institute on Drug Abuse: Marijuana use and the risks of lung and other cancers. Co-Investigator. 4/01/99 to 3/31/04, \$2,084,531.

- 25. The National Institute of Diabetes, Digestive and Kidney Diseases: Urologic disease in America. Consultant. 8/02/01 to 07/31/05, \$29,490.
- 26. National Kidney Foundation: Reverse epidemiology in maintenance dialysis patients. Consultant. 7/01/03 to 6/30/06, \$200,000.
- 27. National Institute of Environmental Health Science: Parkinson's disease susceptibility-genes and pesticides. Co-Investigator. 9/1/00 to 6/30/06, \$2,149,741.
- 28. National Institute of Allergy and Infectious Diseases: Interdisciplinary training in HIV/AIDS epidemiology. Program Faculty. 8/1/01 to 7/31/07, \$1,402,705.
- 29. Boehringer-Ingelheim Corporation: Estimation of the effects of tiotropium on chronic obstructive pulmonary disease. Contractor. 7/1/06 to 12/31/08, \$90,000.
- 30. National Center for Complementary and Alternative Medicine: Mind/brain/body interactions in stress-related disorders. Co-Investigator. 6/30/04 to 6/30/09, \$3,908,516.
- 31. National Cancer Institute: Cancer epidemiology training program. Co-Investigator. 12/01/98 to 08/31/15, \$2,397,580.
- 32. National Institute of Diabetes, Digestive and Kidney Diseases/Los Angeles Biomed: Understanding sources of bias and outcomes in peritoneal dialysis patient research. Principal Investigator 09/16/09 to 08/31/11, \$46,211.
- 33. National Institute of Environmental Health Sciences: Registry study of Parkinson's disease in Denmark. Co-Investigator. 9/19/06 to 7/31/12, \$4,575,787.
- 34. National Institute of Diabetes Digestive and Kidney Diseases: Examining racial and cardiovascular paradoxes in chronic kidney disease. Consultant. 6/01/07 to 5/31/12, \$875,000.
- 35. National Institutes of Health/Fogarty: AIDS international training and research program. Program Faculty. 9/24/03 to 5/31/13, \$9,129,588.

Miscellaneous Publications

- 1. **Greenland, S.** (1986). Review of Miettinen, O.S., "Theoretical Epidemiology". *Journal of the American Medical Association*, **256**, 929-930. Reprinted in *Statistics in Medicine*, **6**, 209-211, 1987.
- 2. **Greenland, S.** (1990). Foreword. In Oakes, M., *Statistical Inference*. Epidemiology Resources.

- 3. **Greenland, S.** (1991). Contribution to discussion of paper by N. Keiding. *Journal of the Royal Statistical Society, Series A*, **154**, 401-402.
- 4. Working Group on Recommendations for Reporting Clinical Trials in the Biomedical Literature (1994). Call for comments on a proposal to improve reporting of clinical trials in the biomedical literature. *Annals of Internal Medicine*, **121**, 895-896.
- 5. **Greenland, S.** (1995). Introduction for Rothman, K.J., "Causes". *American Journal of Epidemiology*, **141**, 89.
- 6. **Greenland, S.** (1995). Review of Clayton, D., Hills, M. "Statistical Models in Epidemiology". *American Journal of Epidemiology*, **141**, 181-182.
- 7. Working Group on Recommendations for Reporting of Clinical Trials in the Biomedical Literature. (1996). Checklist of information for inclusion in reports of clinical trials. *Annals of Internal Medicine*, **124**, 741-743.
- 8. **Greenland, S.** (1996). Review of Rosenbaum, P.R., "Observational Studies". *Statistics in Medicine*, **15**, 2629-2632.
- 9. **Greenland, S.** (1997). Contribution to discussion of paper by J.B. Copas and H.G. Li. *Journal of the Royal Statistical Society, Series B*, **59**, 85.
- 10. **Greenland, S.** (1997). Bayes and empirical-Bayes methods for epidemiologic analyses: a commentary and a review of two new books. *American Journal of Epidemiology*, **146**, 367-370.
- 11,12. Rothman, K. J. and **Greenland, S.** (1998). Articles on Hill's Criteria, Validity and Generalizability. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley. Reprinted in 2nd ed. (2005) and in Gail, M.H. and Benichou, J. (eds.) (2000). *Encyclopedia of Epidemiologic Methods*. New York: Wiley.
- 13. **Greenland, S.** and Draper, D. (1998). Article on Exchangeability. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley. Reprinted in 2nd ed. (2005).
- 14-19. **Greenland, S.** (1998, 2005). Articles on Causation, Collapsibility, Confounding, Identifiability, Study Population, Target Population. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*. New York: Wiley. Reprinted in 2nd ed. (2005), and in: Gail, M.H. and Benichou, J. (eds.), *Encyclopedia of Epidemiologic Methods*. New York: Wiley. See also Wiley StatsRef (2014-2015).
- 20. **Greenland, S.** (2001). Article on Confounding, Confounding Factors. In: Breslow, L. (ed.). *Encyclopedia of Public Health*. New York: MacMillan.
- 21. **Greenland, S.** (2002, 2nd ed. 2013). Article on Control Group. In: El-Shaarawi, A.H. and Piegorsch, W.W. (eds.), *Encyclopedia of Environmetrics*. New York: Wiley, 512.

- 22,23. **Greenland, S.** (2003). Articles on Confounding, Effect Modification. In: Anderson, N. (ed.). *Encyclopedia of Health and Behavior*. Thousand Oaks, CA: Sage Publications.
- 24. **Greenland, S.** (2004). Article on Confounding. In: Lewis-Beck, M., Bryman, A.E. and Liao, T.F. (ed.). *Encyclopedia of Social Science Research Methods*. Oregon, OH: Sage Publications.
- 25. **Greenland, S.** (2005). Contribution to discussion of J. Copas and S. Eguchi. *Journal of the Royal Statistical Society,* Series B, **67**, 504-505.
- 26. **Greenland, S.** (2005). Articles on Smoothing Methods in Epidemiology. In: Armitage, P. and Colton, T. (eds.), *Encyclopedia of Biostatistics*, 2nd ed. New York: Wiley, 4997-5009. See also Wiley StatsRef (2014).
- 27. **Greenland, S.** (2005). Contribution to discussion of Prentice, Pettinger, and Anderson. *Biometrics*, **61**, 920-921.
- 28. Kheifets, L., Mezei, G. and **Greenland, S.** (2006). Comment concerning "Childhood leukemia and residential magnetic fields: Are pooled analyses more valid than the original studies?" *Bioelectromagnetics*, **27**, 674-675.
- 29. **Greenland, S.** (2007). Commentary: On "Quality in epidemiological research: should we be submitting papers before we have the results and submitting more hypothesis generating research?" *International Journal of Epidemiology*, **36**, 944-945.
- 30. **Greenland, S.** and Pearl, J. (2007). Article on Causal Diagrams. In: Boslaugh, S. (ed.). *Encyclopedia of Epidemiology*. Thousand Oaks, CA: Sage Publications, 149-156.
- 31-33. **Greenland, S.** (2007). Articles on Causation and Causal Inference, Confounding, Effect Modification and Interaction. In: Boslaugh, S. (ed.). *Encyclopedia of Epidemiology*. Thousand Oaks, CA: Sage Publications.
- 34. Rothman, K.J., **Greenland, S.**, and Lash, T.L. (2008). Article on Case-Control Studies. In: Melnick, E. and Everitt, B. (eds.). *Encyclopedia of Quantitative Risk Analysis and Assessment*. New York: John Wiley and Sons. See also Wiley StatsRef (2014).
- 35. **Greenland, S.** and Pearl, J. (2008). Article on Causal Diagrams. In: Melnick, E. and Everitt, B. (eds.). *Encyclopedia of Quantitative Risk Analysis and Assessment*. New York: John Wiley and Sons. See also Wiley StatsRef (2017).
- 36-37. **Greenland, S.** (2008). Articles on Attributable Fraction and Probability of Causation, Effect Modification and Interaction. In: Melnick, E. and Everitt, B. (eds.). *Encyclopedia of Quantitative Risk Analysis and Assessment*. New York: John Wiley and Sons, 73-77. See also Wiley StatsRef (2014).
- 38. **Greenland, S.** (2008). Article on Confounding. In: D'Agostino, R.B., Sullivan, L., and Massaro, J. *Encyclopedia of Clinical Trials*. New York: John Wiley and Sons

- 39. **Greenland, S.** (2008). Comment: Addressing corporate influence through ethical guidelines. *International Journal of Epidemiology*, **37**, 57-59.
- 40. **Greenland, S.** (2008). Contribution to discussion of "Estimates of human immunodeficiency virus prevalence and proportion diagnosed based on Bayesian multiparameter synthesis of surveillance data" by A. Goubar et al. *Journal of the Royal Statistical Society*, Series A, **171**, 574-575.
- 41. **Greenland, S.** (2010). Review of "Applying Quantitative Bias Analysis to Epidemiologic Data." *Journal of the American Statistical Association*, **105**, 1277-1278.
- 42. **Greenland, S.** and Pearl, J. (2011). Article on Causal Diagrams. In: Lovric, M. (ed.). *International Encyclopedia of Statistical Science*. New York: Springer, **3**, 208-216.
- 43. **Greenland, S.** and Draper, D. (2011). Article on Exchangeability. In: Lovric, M. (ed.). *International Encyclopedia of Statistical Science*. New York: Springer, **5**, 474-476.
- 44-50. **Greenland, S.** (2011). Articles on Bias Analysis (**2**, 145-148), Causation and Causal Inference (**3**, 216-221), Collapsibility (**3**, 267-270), Confounding and Confounder Control (**3**, 284-290), Effect Modification (**5**, 423-426), Identifiability (**9**, 645), Interaction (**9**, 673-674). In: Lovric, M. (ed.). *International Encyclopedia of Statistical Science*. New York: Springer.
- 51. **Greenland, S.** (2011). Contribution to discussion of "Towards more accessible conceptions of statistical inference" by C.J. Wild et al. *Journal of the Royal Statistical Society*, Series A, **174**, 282.
- 52. **Greenland, S.** (2014). Epidemiologic (Observational) Studies. In: Cockerham, W.C., Dingwall, R., and Quah, S.R. *The Wiley Blackwell Encyclopedia of Health, Illness, Behavior, and Society*. New York: John Wiley and Sons.

Published Letters

- 1. Neutra, R. R., Friedman, E. A. and **Greenland, S.** (1978). Fetal monitoring. *New England Journal of Medicine*, **299**, 1371.
- 2. Hoffman, J. R., **Greenland, S.**, and Stewart, M. E. (1982). Pressure and immobilization for snakebite remains speculative. *Annals of Emergency Medicine*, **11**, 701-702.
- 3. **Greenland, S.**, Stewart, M. E., and Hoffman, J. R. (1982). Australian work in first-aid for poisonous snakebite. *Annals of Emergency Medicine*, **11**, 228.
- 4. Kraus, J. F. and **Greenland**, **S.** (1983). Survival from spinal cord injury. *Journal of Chronic Diseases*, **36**, 297.

- 5. **Greenland, S.**, Neutra, R. R. and Staisch, K. J. (1983). The relation of electronic fetal monitoring to infant outcome measures. *American Journal of Epidemiology*, **117**, 637-638.
- 6. **Greenland, S.** and Morgenstern, H. (1983). Morgenstern corrects a conceptual error. *Journal of the American Public Health Association*, **73**, 703-704.
- 7. **Greenland, S.** (1986). Admission criteria for nonexperimental studies of treatments. *Journal of Chronic Diseases*, **39**, 327.
- 8. **Greenland, S.** (1986). Cohorts versus dynamic populations: a dissenting view. *Journal of Chronic Diseases*, **39**, 565-566.
- 9. **Greenland, S.**, Schlesselman, J. J. and Criqui, M. H. (1987). Re: "The fallacy of employing standard regression coefficients and correlations as measures of effect". *American Journal of Epidemiology*, **125**, 349-350.
- 10. **Greenland, S.** and Engelman, L. (1988). Re: "Inferences on odds ratios, relative risks, and risk differences based on standard regression programs". *American Journal of Epidemiology*, **128**, 445.
- 11. **Greenland, S.** (1988). The author replies to Newman and Browner. *American Journal of Epidemiology*, **128**, 1182-1184.
- 12. **Greenland, S.**, Morgenstern, H., Poole, C. and Robins, J. M. (1989). Re: "Confounding confounding." *American Journal of Epidemiology*, **130**, 1086-1089.
- 13. **Greenland, S.**, and Mickey, R.M. (1989). Re: "The impact of confounder selection on effect estimation". *American Journal of Epidemiology*, **130**, 1066.
- 14. Poole, C., Lanes, S.F., Davis, F., Pearce, N., Cohen, A.J., Shalat, S.L., Savitz, D.A., Morgenstern, H., and **Greenland, S.** (1990). 'Occurrence rates' for disease. *American Journal of Publich Health*, **80**, 622.
- 15. Kraus, J.F., Bulterys, M. and **Greenland, S.** (1990). A nested case-control study of oxytocin and sudden infant death syndrome. *American Journal of Obstetrics and Gynecology*, **162**, 604-605.
- 16. Richwald, G.A., and **Greenland, S.** (1990). In reply re: "Effectiveness of the cavity-rim cervical cap: results of a large clinical study." *Obstetrics and Gynecology*, **75**, 469-470.
- 17. **Greenland, S.** and Fairweather, W. F. (1990). Re: "Comparing proportions exposed in case-control studies using several control groups." *American Journal of Epidemiology*, **131**, 944.
- 18. **Greenland, S.** and Morgenstern, H. (1990). Letter to Editor. *International Journal of Epidemiology*, **19**, 766-767.

- 19. **Greenland, S.** (1990). Re: "A method for combining matched and unmatched binary data." *American Journal of Epidemiology*, **132**, 197-198.
- 20. **Greenland, S.** (1990). Re: "Those who were wrong". *American Journal of Epidemiology*, **132**, 585-586.
- 21. **Greenland, S.** and Morgenstern, H. (1991). Design versus directionality. *Journal of Clinical Epidemiology*, **44**, 211-214.
- 22. **Greenland, S.** and Morgenstern, H. (1991). Neither within-region nor cross-regional independence of exposure and covariates prevents ecological bias. *International Journal of Epidemiology*, **20**, 816-817.
- 23. **Greenland, S.** (1991). Re: "A simple method to calculate the confidence interval of a standardized mortality rate". *American Journal of Epidemiology*, **133**, 212-213.
- 24. **Greenland, S.** (1991). The author replies. *American Journal of Epidemiology*, **133**, 964-965.
- 25. Maclure, M. and **Greenland, S.** (1992). The authors reply. *American Journal of Epidemiology*, **136**, 1173.
- 26. **Greenland, S.** and Morgenstern, H. (1992). From Sander Greenland and Hal Morgenstern. *International Journal of Epidemiology*, **21**, 424-425.
- 27. Greenland, S. and Holland, P.W. (1992). Response. *Biometrics*, 48, 963-964.
- 28. **Greenland, S.** (1992). Author's reply. *Annals of Epidemiology*, **2**, 769-770.
- 29. **Greenland, S.** (1992). Author's reply. *Statistics in Medicine*, 11, 559-560.
- 30. **Greenland, S.** (1992). Re: "The bootstrap method for standard errors and confidence intervals of the adjusted attributable risk". *Epidemiology*, **3**, 271.
- 31. **Greenland, S.** (1992). Re: "Statistical reasoning in epidemiology". *American Journal of Epidemiology*, **135**, 1186-1187.
- 32. **Greenland, S.** (1992). Reply. *The American Statistician*, **46**, 163.
- 33. **Greenland, S.** (1992). Re: "Falsification in clinical trials". *Statistics in Medicine*, **11**, 1263-1264.
- 34. **Greenland, S.** and Robins, J. M. (1993). Re: "Measures of effect based on the sufficient causes model". *Epidemiology*, **4**, 385.
- 35. Sahl, J.D., Kelsh, M. A. and **Greenland, S.** (1993). SCE cancer study of electric utility workers: an exchange. *Microwave News*, **13**, 7.

- 36. Joffe, M.M. and **Greenland**, **S.** (1994). Re: "Toward a clearer definition of confounding". *American Journal of Epidemiology*, **139**, 962.
- 37. Pearce, N. and **Greenland, S.** (1994). Cumulative incidence and risk. *International Journal of Epidemiology*, **23**, 1105.
- 38. **Greenland, S.** (1994). The author replies. *Epidemiology*, **5**, 264.
- 39. **Greenland, S.** (1994). Re: "P values, hypothesis tests, and likelihood: implications for epidemiology of a neglected historical debate." *American Journal of Epidemiology*, **140**, 116-117.
- 40. Weinberg, C.R., Umbach, D. and **Greenland**, S. (1995). Weinberg et al. reply. *American Journal of Epidemiology*, **142**, 784.
- 41. Willett, W., **Greenland, S.**, MacMahon, B., Trichopoulos, D., Rothman, K., Thomas, D. B., Thun, M. and Weiss, N. (1995). The discipline of epidemiology. *Science*, **269**, 1325-1326.
- 42. **Greenland, S.** and Robins, J.M. (1995). The authors reply. *American Journal of Epidemiology*, **141**, 277-278.
- 43. **Greenland, S.** (1995). Author's reply. *Statistics in Medicine*, **14**, 328-329.
- 44. **Greenland, S.** (1995). Dr. Greenland replies. *American Journal of Epidemiology*, **142**, 102-103.
- 45. **Greenland, S.** (1995). Dr. Greenland replies. *American Journal of Epidemiology*, **142**, 781-782.
- 46. **Greenland, S.** (1995). Re: "Should an expected number of cases be an integer?" *Epidemiology*, **6**, 463.
- 47. **Greenland, S.** (1995). The author replies. *American Journal of Epidemiology*, **142**, 1008-1009.
- 48. **Greenland, S.** (1995). Previous research on power loss associated with categorization. *Epidemiology*, **6**, 641-642.
- 49. **Greenland, S.** and Robins, J.M. (1996). The authors reply. *American Journal of Epidemiology*, **143**, 523.
- 50. **Greenland, S.** (1996). The author replies. *Epidemiology*, 7, 211-212.
- 51. **Greenland, S.** (1997). Re: "Estimating relative risk functions in case-control studies using a nonparametric logistic regression". *American Journal of Epidemiology*, **146**, 883-884.

- 52. Zaffanella, L.A., Savitz, D.A., **Greenland, S.** and Ebi, K.L. (1998). The authors reply. *Epidemiology*, **9**, 474.
- 53. Michels, K.B., **Greenland, S.** and Rosner, B.A. (1999). The authors reply. *American Journal of Epidemiology*, **149**, 681-682.
- 54. **Greenland, S.** (1999). Re: "Comments on a meta-analysis of the relation between dietary calcium intake and blood pressure". *American Journal of Epidemiology*, **149**, 786-787.
- 55. **Greenland, S.** (1999). Re: "Confidence limits made easy: interval estimation using a substitution method". *American Journal of Epidemiology*, **149**, 884.
- 56. **Greenland, S.** (1999). Re: "Assessing the sensitivity of regression results to unmeasured confounders in observational studies". *Biometrics*, **55**, 990.
- 57. **Greenland, S.**, Michels, K.B., Poole, C. and Willett, W.C. (2000). Four authors reply. *American Journal of Epidemiology*, **152**, 394.
- 58. **Greenland, S.** (2000). The first author replies to Neuenschwander and Zwahlen. *American Journal of Epidemiology*, **152**, 688-689.
- 59. **Greenland, S.** (2001). Comment on Agresti and Caffo. *The American Statistician*, **55**, 172.
- 60. **Greenland, S.**, Michels, K.B., Poole, C., Robins J.M. and Willett, W.E. (2002). The authors reply. *American Journal of Epidemiology*, **154**, 978-979.
- 61. **Greenland, S.** (2002). Choosing effect measures for epidemiologic data. *Journal of Clinical Epidemiology*, **55**, 423-424.
- 62. **Greenland, S.** (2003). Comment on King and Ryan. *The American Statistician*, **57**, 221.
- 63. **Greenland, S.** (2003). Choosing sensible effect measures for practice and policy. *Journal of Clinical Epidemiology*, **56**, 392-393.
- 64. **Greenland, S.**, Gago-Domiguez, M., and Castellao, J.E. (2005). The authors reply. *Epidemiology*, **16**, 419.
- 65. Kaufman, J.S., MacLehose, R.F., Kaufman, S. and **Greenland**, **S.** (2005). The mediation proportion. *Epidemiology*, **16**, 710.
- 66. Hoffman, F.O., Ruttenber, J.A., **Greenland, S.**, and Carroll, R.J. (2006). Radiation exposure and thyroid cancer. *Journal of the American Medical Association*, **296**, 513.
- 67. Fox, M.P., Lash, T.L., and **Greenland, S.** (2006). Response to "Dimensional errors of metaphorical measurements: can they be resolved?" *International Journal of Epidemiology*, **35**, 1592-1593.

- 68. Yang, Q., **Greenland, S.**, and Flanders, W.D. (2006). Yang et al. respond. *American Journal of Public Health*, **96**, 1899-1901.
- 69. **Greenland, S.**, Fox, M.P., and Lash, T.L. (2006). Reply to Roger Marshall. *International Journal of Epidemiology*, **35**, 1589-1590.
- 70. **Greenland, S.** (2006). Comment on Gelman, A.: "The Boxer, the Wrestler and the Coin Flip." *The American Statistician*, **60**, 347.
- 71. Goodman, S.N., and **Greenland, S.** (2007). Why most published research findings are false: Problems in the analysis. *PLoS Med* 4(4): e168. doi:10.1371/journal. pmed.0040168. Accessed May 2, 2011.
- 72. Lash, T.L., Fox, M.P., **Greenland, S.**, Jurek, A.M., Hoggat, K.J., Cole, S., Brooks, D., Rothman, K.J., and Poole, C. (2010). Re: Promoting healthy skepticism in the news: helping journalists get it right. *Journal of the National Cancer Institute*, **102**, 829-830.
- 73. Howe, C.J., Cole, S.R., Westreich, D.J., Napravnik, S., Eron, J.E., and **Greenland, S.** (2011). Splines for trend analysis and continuous confounder control in epidemiologic research. *Epidemiology*, **22**, 874-875.
- 74. Ricks, J., Streja, L., and **Greenland**, **S.** (2011). Race, age, and mortality among patients undergoing dialysis. *Journal of the American Medical Association*, **306**, 2250.
- 75. Lipsky, A.M., and **Greenland, S.** (2011). Response to the letter 'Recognizing chronological bias for what it is' by Berger. *Clinical Trials*, **8**, 769.
- 76. **Greenland, S.** (2013). Should a meta-analyst want the likelihood or the posterior from each study? *Chance*, **26**, 63-64.
- 77. **Greenland, S.** (2013). Confounding of incidence density ratio in case-control studies. *Epidemiology*, **24**, 624-625.
- 78. Sullivan, S., Cowling, B.J., and **Greenland, S.** (2016). Frailty and influenza vaccine effectiveness. *Vaccine*, **34**, 4645-4646.
- 79. **Greenland, S.** (2017). A serious misinterpretation of a consistent inverse association of statin use with glioma across 3 case-control studies. *European Journal of Epidemiology*, **32**, 87-88. https://link.springer.com/article/10.1007%2Fs10654-016-0205-z
- 80. **Greenland, S.** (2017). A commentary on 'A comparison of Bayesian and Monte Carlo sensitivity analysis for unmeasured confounding' by Lawrence C. McCandless and Paul Gustafson. *Statistics in Medicine*, **36**, 3278-3280.
- 81. Amrhein, V., and **Greenland, S.** (2018). Remove, rather than redefine, statistical significance. *Nature Human Behavior*, **2**, 4, doi: 10.1038/s41562-017-0224-0.

82. **Greenland, S.**, Jewell, N.P., and Mansournia, M.A. (2018). Theory and methodology: essential tools that can become dangerous belief systems. *European Journal of Epidemiology*, **33**, 503-506, doi: 10.1007/s10654-018-0395-7.

Published Abstracts (not tracked after 2011)

- 1 Cherry, J.D., Deseda-Tous, J., Krause, P.J., Fannin, S.L., **Greenland, S.**, Odom, S.M., Strassburg, M. A. and Sullivan, C. B. (1977). Measles California, Oregon (California section). *MMWR*, **26**, 161.
- 2. Neutra, R.R., **Greenland, S.** and Friedman, E.A. (1978). Electronic monitoring and cesarean section rates. *Program of the 106th Annual APHA Meeting*, 125.
- 3. Strassburg, M.A., **Greenland, S.** and Fannin, S.L. (1979). An evaluation of reported vaccine failures in a community setting. *Program of the 107th Annual APHA Meeting*, 172.
- 4. Strassburg, M.A. and **Greenland**, **S.** (1979). Methodologic problems in evaluating the carcinogenic risk of environmental agents. *Pollution Abstracts*, **10**, 1219.
- 5. Neutra, R.R. (1980). The relative importance of weight loss as an explanatory cause of changes HDL and LDL cholesterol. *American Journal of Epidemiology*, **112**, 450.
- 6. Rothman, K.J., **Greenland, S.** and Walker, A.M. (1980). Statistical, biological and public health concepts of interaction. *American Journal of Epidemiology*, **112**, 424.
- 7. **Greenland, S.** and Neutra, R.R. (1980). Estimating exposure-specific rates from case-control data using Bayes' theorem: extensions to multiple exposure factors. *American Journal of Epidemiology*, **112**, 425.
- 8. Strassburg, M.A., Sever, L.E. and **Greenland, S.** (1980). An evaluation of an anecdotal epidemic of neural tube defects in Los Angeles County. *Program of the 108th Annual APHA Meeting*, 199.
- 9. **Greenland, S.** (1980). Dose-response considerations in logistic regression. *Program of the 108th Annual APHA Meeting*, 183.
- 10. **Greenland, S.**, Chan, T.C., Fielding, J., Neutra, R.R. and Kleeman, C. (1981). The short-term on blood pressure of an integrated risk-factor reduction program. *Abstracts of the 9th IEA Meeting*.
- 11. Reisbord, L.A. and **Greenland, S.** (1981). Back pain prevalence: association with demographic and socioeconomic factors. *Program of the 109th Annual APHA Meeting*, 229-230.

- 12. Strassburg, M.A., **Greenland, S.** and Portigal, L.D. (1981). A population-based case-control study of anencephalus and spina-bifida in Los Angeles County. *Program of the 109th Annual APHA Meeting*, 229.
- 13. Thomas, D.C. and **Greenland**, **S.** (1981). The relative efficiency of matched and independent sample designs for case-control studies. *Program of the 109th Annual APHA Meeting*, 157.
- 14. **Greenland, S.**, Morgenstern, H. and Thomas, D.C. (1981). Issues in determining matching criteria and stratum sizes in case-control studies. *Program of the 109th Annual APHA Meeting*, 157.
- 15. **Greenland, S.** (1981). The power of tests for interaction in epidemiologic studies. *Biometrics*, **37**, 851.
- 16. **Greenland, S.** (1982). Interpretation of summary measures when interaction in present. *American Journal of Epidemiology*, **116**, 587.
- 17. **Greenland, S.** (1982). Problems of interaction in the planning, conduct, and analysis of clinical studies. *Programme of the Third International ISCB Meeting*, 5.
- 18. **Greenland, S.**, Richwald, G.A., Honda, G.D. and Stewart, S.M. (1982). The effect of marijuana use during pregnancy in a home-delivery population. *Abstracts of the 110th Annual APHA Meeting*, 45.
- 19. **Greenland, S.**, Staisch, K.J. and Brown, N. (1983). Marijuana use: does it affect pregnancy outcome? *Modern Medicine of Canada*, **38**, 250.
- 20. Richwald, G.A., Honda, G.D., **Greenland, S.** and Stuart, S.M. (1983). A preliminary evaluation of labor and infant outcomes in a homebirth practice in Los Angeles. *American Journal of Epidemiology*, **118**, 445.
- 21. **Greenland, S.**, Olsen, J., Rachootin, P. and Thomsen-Pedersen, G. (1983). Effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section. *American Journal of Epidemiology*, **118**, 434.
- 22. Baker, D., **Greenland, S.**, Mendlein, J. and Salvan, A. (1984). Health impact of a toxic waste disposal site. *Abstracts of the 10th IEA Meeting*, 194.
- 23. **Greenland, S.** and Robins, J.M. (1984). Estimation of risk ratios and risk differences from sparse follow-up data. *Abstracts of the 10th IEA Meeting*, 113; and *American Journal of Epidemiology* **120**, 465.
- 24. **Greenland, S.** (1984). Power, sample size, and smallest detectable effect determination in epidemiologic studies of multiple risk factors. *Abstracts of the 10th IEA Meeting*, 159.

- 25. **Greenland, S.**, Schlesselman, J.J., Criqui, M.H. and Morgenstern, H. (1985). The fallacy of employing standardized regression coefficients as measures of biologic effect. *American Journal of Epidemiology*, **122**, 508.
- 26. Richwald, G.A., Kersey, L.H., Calabro, T.A., **Greenland, S.**, Potik, R. and Comas, M.A. (1985). The Los Angeles Cervical Cap Study: effectiveness and safety of the cavity-rim cervical cap in 1852 users. *Abstracts of the 113th Annual APHA Meeting*, 202.
- 27. **Greenland, S.**, Olsen, J., Rachootin, P. and Thomsen-Pedersen, G. (1986). Effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section. *Obstetrics and Gynecology Digest*, 14-15.
- 28. Baker, D.B. and **Greenland, S.** (1986). A health study of two communities near the Stringfellow acid pits. *American Journal of Epidemiology*, **124**, 498-499.
- 29. **Greenland, S.** (1986). Identifiability, exchangeability, and epidemiologic confounding. *American Journal of Epidemiology*, **124**, 526.
- 30. Richwald, G.A., **Greenland, S.**, Goldstein, E.J.C., Plichta, D.T. and Johnson, B. (1986). An assessment of risks associated with raw milk consumption in California. *Program of the 114th Annual APHA Meeting*, 120.
- 31. Bulterys, M., Kraus, J F., **Greenland, S.** and Nourjah, P. (1987). Risk factors for sudden infant death syndrome within the U.S. Collaborative Perinatal Project: new findings. *Abstracts of the 11th IEA Meeting*, 304.
- 32. Mickey, R. M. and **Greenland, S.** (1987). A study of the impact of confounder-selection criteria on effect estimation. *American Journal of Epidemiology*, **126**, 737.
- 33. Bulterys, M., Kraus, J.F., **Greenland, S.** and Nourjah, P. (1987). A nested case-control study of maternal cigarette smoking during pregnancy and sudden infant death syndrome. *American Journal of Epidemiology*, **126**, 744-745.
- 34. Drews, C., Kraus, J. and **Greenland, S.** (1987). The magnitude of recall error in a case-control study of sudden infant death syndrome. *American Journal of Epidemiology*, **126**, 745.
- 35. **Greenland, S.** (1987). On the design of studies using confidence intervals. *American Journal of Epidemiology*, **126**, 758.
- 36. Robins, J.M. and **Greenland, S.** (1988). Limits of empirical epidemiologic data to estimate the probability of causation in toxic tort suits. *American Journal of Epidemiology*, **128**, 907.
- 37. **Greenland, S.** (1988). Validation substudy or validated study? *American Journal of Epidemiology*, **128**, 906.

- 38. **Greenland, S.** (1988). Open population follow-up as an alternative to a fixed cohort study: implications for validity, efficiency, and generalizability. *American Journal of Epidemiology*, **128**, 945.
- 39. **Greenland, S.** (1989). Probability versus Popper. *Philosophy Index*, **23**, 435.
- 40. **Greenland, S.** and Morgenstern, H. (1989). Matching and efficiency in cohort studies. *American Journal of Epidemiology*, **130**, 797.
- 41. **Greenland, S.** (1989). Use of the case-control study design in evaluating preventive interventions. *American Journal of Epidemiology*, **130**, 854.
- 42. Salvan, A. and **Greenland, S.** (1990). Combining results from epidemiologic studies: a word of caution. *Program of the Conference on Statistics in Epidemiologic and Pharmacologic Research*, Bressanone, Italy, Sept. 1990.
- 43. Maldonado, G. and **Greenland, S.** (1991). Analyzing epidemiologic data with an incorrect model form: impact on confidence-interval performance. *American Journal of Epidemiology*, **132**, 782. Also in *Biometric Bulletin* **8**, 14.
- 44. **Greenland, S.** and Robins, J.M. (1990). The nonidentifiability of direct and indirect effects. *American Journal of Epidemiology*, **132**, 826.
- 45. **Greenland, S.** and Salvan, A. (1990). A semi-Bayes approach to the analysis of multivariate epidemiologic data, with an application to an occupational cancer-mortality study. *Proceedings of the XVth International Biometrics Conference*, 23. Also in *American Journal of Epidemiology* **132**, 762 (1990).
- 46. **Greenland, S.** and Salvan, A. (1990). Case-control analyses of site-specific cancer mortality in a large-transformer manufacturing plant. *Abstracts of the 12th IEA Meeting*, 45.
- 47. **Greenland, S.** (1991). Current quantitative understanding and directions for future empirical study. *Archives of Environmental Health*, **46**, 123.
- 48. Maldonado, G. and **Greenland, S.** (1991). Analyzing epidemiologic data with an incorrect model form: impact on point estimators. *American Journal of Epidemiology*, **134**, 716-717.
- 49. **Greenland, S.** (1991). Semi-Bayes methods for screening effects of toxic exposure. *Abstracts of the Joint Statistical Meetings*, 208.
- 50. **Greenland, S.** (1991). Modeling risk ratios from incomplete matched-cohort data: an estimating-equation approach. *Biometric Bulletin*, **8**, 14.

- 51. Joffe, M.M. and **Greenland**, **S.** (1992). Estimates and confidence intervals for model-based standardized parameters from the continuation ratio model. *American Journal of Epidemiology*, **136**, 989. Also *Biometric Bulletin* **9**, 16.
- 52. Maldonado, G.M. and **Greenland, S.** (1992). A simulation study of confounder-selection strategies. *American Journal of Epidemiology*, **136**, 999.
- 53. **Greenland, S.** (1992). A comparative study of maximum-likelihood, empirical-Bayes, and preliminary testing in logistic regression analysis of multiple exposures. *American Journal of Epidemiology*, **136**, 1035.
- 54. **Greenland, S.** (1992). A method for modeling risk ratios from matched-cohort data. *American Journal of Epidemiology*, **136**, 988-989.
- 55. **Greenland, S.** (1992). Hierarchical regression for epidemiologic analyses of multiple exposures. *Abstracts of the Fourth Japan-US Biostatistics Conference*, 53.
- 56. Maldonado, G. and **Greenland, S.** (1992). Analyzing epidemiologic data when the correct model form is unknown: Impact of model-form selection on the performance of confidence intervals. *Biometric Bulletin*, **9**, 17.
- 57. **Greenland, S.** (1992). Maximum-likelihood estimation of the attributable fraction from logistic models. *Biometric Bulletin*, **9**, 15-16.
- 58. **Greenland, S.** (1992). Causal inference as a prediction problem. *Biometric Bulletin*, **9**, 15.
- 59. Witte, J.S., **Greenland, S.** and Haile, R.W. (1993). Hierarchical regression analysis of studies with multiple exposures: An application to a study of diet and breast cancer using a knowledge-based prior. *American Journal of Epidemiology*, **138**, 598.
- 60. Joffe, M.M. and **Greenland, S.** (1993). An alternative approach to controlling confounding in cohort studies. *American Journal of Epidemiology*, **138**, 598.
- 61. **Greenland, S.** and Maldonado, G. (1993). Interpretation of multiplicative-model parameters as standardized parameters. *American Journal of Epidemiology*, **138**, 664.
- 62. **Greenland, S.** (1993). A critical look at some popular meta-analytic methods. *American Journal of Epidemiology*, **138**, 672.
- 63. Robins, J.M., Hu, F.-C. and **Greenland, S.** (1995). Estimation of the causal effect of a time-varying exposure on the marginal mean of a repeated binary outcome. *American Journal of Epidemiology*, **141**, S19.
- 64. Maldonado, G. and **Greenland**, **S.** (1995). When does factoring increase the accuracy of rate estimation? *American Journal of Epidemiology*, **141**, S68.

- 65. Witte, J.S. and **Greenland, S.** (1995). A nested approach to evaluating dose-response and trend. *American Journal of Epidemiology*, **141**, S48.
- 66. **Greenland, S.** (1995). Historical HIV incidence modeling in regional subgroups: Use of flexible discrete models with penalized splines based on prior curves. *Program of the 1995 Joint Meeting of IMS/WNAR*, 27.
- 67. Aragaki, C.C., Probst-Hensch, N.M., **Greenland, S.** and Haile, R.W. (1995). Use of a hierarchical model to estimate NAT2* genotype-specific heterocyclic amine effects. <u>In</u> *Program of the 6th International Conference on Carcinogenic N-Substituted Aryl Compounds*, Monterey, CA.
- 68. Ackerman, D.L. and **Greenland**, **S.** (1996). ROC curve analysis and logistic regression modeling to predict treatment outcome. *American Journal of Epidemiology*, **143**, S53.
- 69. Maldonado, G. and **Greenland, S.** (1996). Impact of model-form selection on the performance of confidence levels. *American Journal of Epidemiology*, **143**, S24.
- 70. Witte, J.S., Elston, R.C. and **Greenland, S.** (1996). Hierarchical modeling in genetic epidemiology: evaluating the spectrum of BRCA1 mutations. *American Journal of Epidemiology*, **143**, S11.
- 71. Poole, C. and **Greenland**, **S.** (1996). Expected person-time. *American Journal of Epidemiology*, **143**, S2.
- 72. **Greenland, S.** (1996). Confounding in case-crossover and case-time-control studies. *American Journal of Epidemiology*, **143**, S28.
- 73. **Greenland, S.** and Finkle, W.D. (1996). A case-control study of prosthetic implants and selected chronic diseases. *Epidemiology*, 7, S51.
- 74. Sheppard, A.R., Kelsh, M.A., Kaune, W.T. and **Greenland, S.** (1997). Unified magnetic field exposure assignments for epidemiologic studies of childhood cancer. *Abstracts of the Annual Review of Research on Biological Effects of Electric and Magnetic Fields*, 45.
- 75. Ebi, K.L., Zaffanella, L.E., Savitz, D.A. and **Greenland**, **S.** (1997). Application of the case-specular epidemiologic investigation method to the Savitz Denver study homes. *Abstracts of the Second World Congress for Electricity and Magnetism in Biology*, 105.
- 76. Gareen, I., Morgenstern, H. and **Greenland, S.** (1997). Explaining the association between maternal age and risk of cesarean delivery. *American Journal of Epidemiology*, **145**, S63.
- 77. Aragaki, C.C., **Greenland, S.**, Probst-Hensch, N. and Haile, R. (1997). A case-control study of food groups as risk factors for colorectal polyps within NAT2* acetylator status. *American Journal of Epidemiology*, **145**, S67.

- 78. Ackerman, D.L., **Greenland, S.**, Small, G.W. and Bystritsky, A. (1997). Characteristics of fluoxetine vs. placebo responders in a randomized trial of geriatric depression. *American Journal of Epidemiology*, **145**, S37.
- 79. Maldonado, G. and **Greenland, S.** (1997). Interpreting simulation studies of epidemiologic methods. *American Journal of Epidemiology*, **145**, S56.
- 80. **Greenland, S.** (1997). A unified theory for case-distribution analyses. *American Journal of Epidemiology*, **145**, S57.
- 81. **Greenland, S.** (1998). Combining ecologic and individual data: The multilevel approach. <u>In Program of the 13th International Symposium on Epidemiology in Occupational Health</u>, Helsinki, Finland. 191.
- 82. **Greenland, S.** (1998). Meta-analysis as an emerging meta-disaster. <u>In</u> *Abstracts of the Royal Statistical Society International Conference*, Glasgow, Scotland. 80.
- 83. Gareen, I., Morgenstern, H. and **Greenland**, **S.** (1998). Adverse outcomes of repeat elective cesarean section. *American Journal of Epidemiology*, **147**, S76.
- 84. Gareen, I., **Greenland, S.** and Morgenstern, H. (1998). Mixed and missing data categories in meta-analysis. *American Journal of Epidemiology*, **147**, S83.
- 85. Maldonado, G. and **Greenland, S.** (1998). Estimating causal effects. *American Journal of Epidemiology*, **147**, S80.
- 86. **Greenland, S.** (1998). There are no statistical advances in meta-analysis. *American Journal of Epidemiology*, **147**, S81.
- 87. Murphy, P.A., Poole, C., Harvey, T. and **Greenland, S.** (1999). Meta-analysis of epidemiologic studies of chlorinated drinking water and cancer: Contraindications to summary aggregation. *American Journal of Epidemiology*, **149**, S5.
- 88. Poole, C. and **Greenland**, S. (1999). Random-effects meta-analysis is not always conservative to fixed-effects meta-analysis. *American Journal of Epidemiology*, **149**, S56.
- 89. Michels, K.B., **Greenland**, **S.** and Rosner, B.A. (1999). Issues in the modeling of height and weight. *Obesity Research*, **7**, Suppl. 1, 6S.
- 90. **Greenland, S.** and Finkle, W.D. (1999). A retrospective cohort study of implanted medical devices and chronic diseases. *American Journal of Epidemiology*, **149**, S8.
- 91. **Greenland, S.**, Sheppard, A.R., Kelsh, M.A. and Kaune, W.T. (1999). A pooled analysis of magnetic fields, wire codes, and childhood leukemia. *American Journal of Epidemiology*, **149**, S57.

- 92. **Greenland, S.**, Schwartzbaum, J.A. and Finkle, W.D. (1999). Small-sample and sparsedata problems in conditional logistic regression analysis. *American Journal of Epidemiology*, **149**, S16.
- 93. **Greenland, S.** (1999). Sensitivity of inferences to choice of prior distributions for oddsratio and rate-ratio estimation. *Program of the Meeting of the International Biometric Society (ENAR)*.
- 94. **Greenland, S.** (2000). Overthrowing the tyranny of the null hypothesis. *Program of the AAAS Meeting*, A65.
- 95. Harawa, N., **Greenland, S.** and Bingham, T. (2000). Race/ethnicity and HIV risk among young MSM. *American Journal of Epidemiology*, **151**, S51.
- 96. Maldonado, G. and **Greenland**, **S.** (2000). The causal-contrast study design. *American Journal of Epidemiology*, **151**, S39.
- 97. Maldonado, G. and **Greenland, S.** (2000). A method to examine whether error due to misclassification of a binary exposure can explain an association. *American Journal of Epidemiology*, **151**, S40.
- 98. Maldonado, G., **Greenland, S.**, and Phillips C. (2000). Approximately nondifferential misclassification does not ensure bias toward the null. *American Journal of Epidemiology*, **151**, S39.
- 99. **Greenland, S.** (2000). Ecologic bias in estimating ecologic effects. *American Journal of Epidemiology*, **151**, S70.
- 100. **Greenland, S.** (2000). Bayesian and partial-Bayesian analysis of epidemiologic studies via data augmentation. *American Journal of Epidemiology*, **151**, S18.
- 101. **Greenland, S.** (2000). Variable selection versus shrinkage in model-based control of confounding. *Program of the International Biometrics Conference 2000*, 183-185.
- 102. **Greenland, S.** (2000). The probability of causation cannot be used in an equitable manner to resolve radiation tort claims and design compensation schemes. *Radiation Research*, **154**, 718-719.
- 103. Maldonado, G. and **Greenland, S.** (2001). The intervention-prediction design. *American Journal of Epidemiology*, **153**, S182.
- 104. Brumback, B., **Greenland, S.**, Redman, M. and Diehr, P. (2001). The intensity score approach to adjusting for confounding. *Abstracts of the NCI Causal Inference Conference*, 1.
- 105. **Greenland, S.** (2001). Data say nothing about epidemiologic associations or effects. *American Journal of Epidemiology*, **153**, S4.

- 106. **Greenland, S.** (2001). Sensitivity analysis versus Bayesian analysis of uncontrolled confounding. *Abstracts of the NCI Causal Inference Conference*, 5.
- 107. Brumback, B., **Greenland, S.**, Redman, M., Diehr, P. and Kiviat, N. (2002). The intensity score approach to adjusting for confounding. *American Journal of Epidemiology*, **155**, S76.
- 108. Maldonado, G. and **Greenland**, **S.** (2002). The role of the target population in estimating causal effects. *American Journal of Epidemiology*, **155**, S34.
- 109. **Greenland, S.** (2002). Epidemiologists in court, part 2: Further experiences, and proposals for improving practice. *American Journal of Epidemiology*, **155**, S30.
- 110. Maldonado, G. and **Greenland**, **S.** (2003). An introduction to uncertainty analysis for epidemiologists. *American Journal of Epidemiology*, **157**, S31.
- 111. **Greenland, S.** (2003). Multiple-bias modeling for epidemiologic data. *American Journal of Epidemiology*, **157**, S30.
- 112. **Greenland, S.** (2003). The need for multiple-bias modeling in observational studies. *Abstracts of the 2003 Joint Statistical Meetings*, 1.
- 113. Kalantar-Zadeh, K., Kilpatrick, R.D., McAllister, C.J., Shinaberger, C.S., Gjertson, D.W., Kopple, J.D., and **Greenland, S.** (2004). Time-dependent association between body mass index and cardiovascular mortality in hemodialysis patients. *Journal of the American Society of Nephrology*, **15**, suppl:126A.
- 114. Kalantar-Zadeh, K., Kilpatrick, R.D., Kuwae, K., McAllister, C.J., Gjertson, D.W., **Greenland, S.**, and Kopple, J.D. (2004). Population attributable mortality risk for albumin <3.8 g/dL: how many lives can be saved if hypoalbuminemia can be corrected in hemodialysis patients? *Journal of the American Society of Nephrology*, **15**, suppl, 382A-383A.
- 115. Kalantar-Zadeh, K., Kilpatrick, R.D., Gjertson, D.W., **Greenland, S.**, McAllister, C.J., and Kopple, J.D. (2004). Is a low or high serum phosporus a mortality predictor in hemodialysis patients. *American Journal of Kidney Disease*.
- 116. Kuwae, N., McAllister, C., Gjertson, D., **Greenland, S.**, Kopple, J., and Kalantar-Zadeh, K. (2004). Mortality predictability of serum potassium in dialysis patients. *American Journal of Kidney Disease*.
- 117. Jurek, A., Maldonado, G., Church T. and **Greenland, S.** (2004). Exposure measurement error is frequently ignored when interpreting epidemiologic study results. *American Journal of Epidemiology*, **159**, S72.
- 118. Jurek, A., Maldonado, G., and **Greenland, S.** (2004). Uncertainty analysis: An example of its application to estimating a survey proportion. *Epidemiology*, **15**, S155.

- 119. Moncau, J.E., Wunsch-Filho, V. and **Greenland, S.** (2004). Occupations associated with lung cancer in Sao Paulo Brazil: Application of hierarchical regression analysis. *American Journal of Epidemiology*, **159**, S53.
- 120. Cole, S.R., Chu, H. and **Greenland, S.** (2004). Using multiple imputation for measurement error correction in pediatric chronic kidney disease. *American Journal of Epidemiology*, **159**, S31.
- 121. Kilpatrick, R.D., **Greenland, S.**, McAllister, C.J., Kopple, J.D., and Kalantar-Zadeh, K. (2004). Time-dependent association between dialysis dose and cardiovascular mortality in hemodialysis patients. *Journal of the American Society of Nephrology*, **15**, suppl, 2A-3A.
- 122. Steenland, K. and **Greenland**, S. (2004). Monte-Carlo sensitivity analysis and Bayesian analysis of smoking as an unmeasured confounder in a study of silica and lung cancer. *American Journal of Epidemiology*, **159**, S72.
- 123. **Greenland, S.**, Luetters, C.M., Kelsey, J.L. and Mezei G. (2004). Is socioeconomic status related to childhood leukemia incidence? *American Journal of Epidemiology*, **159**, S95.
- 124. **Greenland, S.**, Gustafson, P. and Dunson, D. (2004). Application of Bayesian methods in epidemiology. *American Journal of Epidemiology*, **159**, S70.
- 125. **Greenland, S.** (2004). Statistics as a hindrance and an aid for inference from nonexperimental data. *American Journal of Epidemiology*, **159**, S70.
- 126. **Greenland, S.** (2005). Multiple-bias modeling for analysis of observational data. *Program of the 51st Meeting of the International Biometric Society*, 160.
- 127. Hoggatt, K.J., Ritz, B. and **Greenland, S.** (2005). An application of survival analysis methods to the study of infant birthweight. *American Journal of Epidemiology*, **161**, S73.
- 128. Yang, Q., **Greenland, S.** and Flanders, W.D. (2005). Separating the impact of changes in maternal age and age-specific prevalence on trends in low birth weight rates in the United States, 1980-2000. *American Journal of Epidemiology*, **161**, S129.
- 129. Hoggatt, K.J., **Greenland, S.** and Ritz, B. (2005). A novel application of survival analysis methods to the study of infant birthweight. *Abstracts of the Joint Statistical Meetings*, Session 72, 63.
- 130. **Greenland, S.** (2005). Extending likelihood-based algorithms and inference to nonidentified models. *Abstracts of the Joint Statistical Meetings*, Session 373, 315.
- 131. Hoggatt, K.J., Greenland, S, and Ritz, B. (2006). A two-phase analysis of air pollution and adverse birth outcomes. *Abstracts of the Joint Statistical Meetings*, Session 251, 215-216.

- 132. Morgenstern, H., Hashibe, M., Cui, Y., Tashkin, D.P., Zhang, Z-F., Cozen, W., Mack, T.M., and **Greenland, S.** (2006). Marijuana use and the risk of lung and upper-aerodigestive tract cancers. *American Journal of Epidemiology*, **163**, S108.
- 133. **Greenland, S.** (2006). Statistics for addressing methodologic issues in epidemiology. *American Journal of Epidemiology*, **163**, S166.
- 134. **Greenland, S.** (2006). Bias modeling via missing-data methods. *American Journal of Epidemiology*, **163**, S231.
- 135. **Greenland, S.** (2006). Marginal science: Facing the task of inference about an unobserved margin from an insufficient set of observed margins. *Abstracts of the 22nd Conference on Uncertainty in Artificial Intelligence*, 9.
- 136. Arah, O.A., Chiba, Y., and **Greenland, S.** (2007). Toward a framework for external adjustment for unmeasured confounding. *American Journal of Epidemiology*, **165**, S89.
- 137. **Greenland, S.** (2007). Hierarchical models for biases in observational studies. *Abstracts of the Joint Statistical Meetings*, Session 357, 283.
- 138. Jurek, A., **Greenland, S.**, and Carlin, B. (2009). Accounting for data errors in a birth-certificate study of maternal cigarette smoking and cleft lip and palate. *American Journal of Epidemiology*, **169**, S42.
- 139. Maldonado, G.M., **Greenland, S.**, and Poole, C. (2009). Assumptions, assumptions, assumptions. *American Journal of Epidemiology*, **169**, S38.
- 140. Gustafson, P. and **Greenland**, **S.** (2009). A diagnostic for uncertainty intervals from nonidentified models. *American Journal of Epidemiology*, **169**, S90.
- 141. **Greenland, S.** (2009). Overthrowing the tyranny of the null hypothesis in graphs. *American Journal of Epidemiology*, **169**, S39.
- 142. **Greenland, S.** (2009). Translating graphical models into statistical methods. *American Journal of Epidemiology*, **169**, S126.
- 143. Jurek, A., **Greenland, S.**, Spector, L., Roesler, M., and Ross, J. (2010). Self-report versus medical record data in a study of infant leukemia: A report from the children's oncology group. *American Journal of Epidemiology*, **171**, S59.
- 144. Howe, C.J., Cole, S.R., Westreich, D.J., **Greenland, S.**, Napravnik, S., and Eron, J.E. (2011). Splines for trend analysis and continuous confounder control in epidemiologic research. *American Journal of Epidemiology*, **173**, S273.

- 145. Zhu, M., Chu, H. and **Greenland, S.** (2011). A cautionary note on standard errors from complex survey analysis: classical weighted least squares, generalized estimating equation, or information-weighted least-squares regression? *Abstracts of the 139th Annual APHA Meeting*, presentation 248057.
- 146. **Greenland, S.** (2011). All inference is biased judgment. *Journal of Epidemiology and Community Health*, **65**, supplement 1, A3.

(abstracts not tracked after 2011)

147. Finkle, W.D., Ridgeway, G., **Greenland, S.**, Irwin, D.E., Juneau, P., Palmer, L. (2017). Risk of aortic valve and neoropsychiatric disorders following an initial prescription for levofloxacin or ciprofloxacin in the edlerly. *Pharmacoepidemiology and Drug Safety*, **26**, suppl. 2, 391-392.

Invited Presentations

- 1. April 1976, Los Angeles, California: UCLA School of Public Health. "Bias from subject loss in cohort studies."
- 2. November 1977, Boston, Massachusetts: Harvard School of Public Health. "Regression analysis of matched-pair case-control studies."
- 3. October 1978, Los Angeles, California: American Public Health Association. "Confounding and the selection of variables for analytic control."
- 4. October 1980, Montreal, Canada: Department of Epidemiology, McGill University. "Current methodologic issues in epidemiology."
- 5. October 1980, Detroit, Michigan: American Public Health Association. "Methodologic problems in case-control studies" (roundtable leader).
- 6. October 1980, Detroit, Michigan: American Public Health Association. "Dose-response considerations in logistic regression."
- 7. September 1981, Oxford, England: Oxford University. "Why we should abandon the P value as measure of evidence for or against the null hypothesis."
- 8. November 1981, Los Angeles, California: American Public Health Public Health Association. "Issues in determining matching criteria and stratum sizes in case-control studies."
- 9. February 1982, New Haven, Connecticut: Yale University School of Public Health. "Interpretation of summary measures when interaction present."

- 10. February 1982, Bethesda, Maryland: USUHS Medical School. "The effects of marijuana use during pregnancy."
- 11. March 1982, Los Angeles, California: UCLA Cancer Center. "Assessment of synergy."
- 12. June 1982, Cincinnati, Ohio: Society for Epidemiologic Research. "Interpretation of summary measures when interaction is present."
- 13. June 1982, San Diego, California: IMS-Biometric Society (WNAR). "Estimation of standardized parameters from multivariate and matched data."
- 14. August 1982, Ottawa, Canada: University of Ottawa. "A summary of two epidemiologic studies of the effect of marijuana use on labor and delivery."
- 15. September 1982, Odense, Denmark: Institute for Social Medicine, Odense University. "Internal electronic fetal monitoring: an epidemiologic evaluation of the American experience."
- 16. September 1982, Rotterdam, The Netherlands: International Society for Clinical Biostatistics. "Problems of interaction in the planning, analysis, and comparison of clinical studies."
- 17. October 1982, Albuquerque, New Mexico: University of New Mexico Tumor Registry. "Current methods and problems in analytic epidemiology."
- 18. October 1982, Albuquerque, New Mexico: University of New Mexico School of Medicine. "The effect of marijuana use on labor and delivery."
- 19. March 1983, Honolulu, Hawaii: University of Hawaii Cancer Center. "The relationship of confounding to selection bias in case-control studies."
- 20. February 1984, Loma Linda, California: Loma Linda University, School of Public Health. "Confounding in epidemiologic studies: some recent developments."
- 21. May 1984, Melbourne, Australia: University of Melbourne. "An evaluation of a home-birth practice."
- 22. May 1984, Adelaide Australia: Australia-New Zealand Society for Epidemiologic Research National Conference. "A workshop on current developments in design and analysis of epidemiologic studies" (series of 4 lectures).
- 23. May 1984, Adelaide, Australia: Australia-New Zealand Society for Occupational Medicine National Conference. "Some problems in epidemiologic analysis."
- 24. May 1984, Adelaide, Australia: Commonwealth Scientific and Industrial Research Organization. "Pitfalls of a statistical modeling in epidemiologic analysis."

- 25. May 1984, Perth, Australia: National Health and Medical Research Council, University of Western Australia. "Some current developments in epidemiologic methods" (series of 4 lectures).
- 26. June 1984, Sydney, Australia: Commonwealth Institute of Health, University of Sydney. "Control-initiated case-control studies."
- 27. June 1984, Newcastle, Australia: Department of Mathematics, University of Newcastle. "Power, sample size, and smallest detectable effect determination in epidemiologic studies."
- 28. June 1984, Brisbane, Australia: Queensland Institute of Medical Research, University of Queensland. "Evaluating the impact of electronic fetal monitoring."
- 29. June 1984, Auckland, New Zealand: Department of Community Health, University of Auckland. "Epidemiologic evaluation of medical technology."
- 30. September 1984, Boston, Massachusetts: Dept. of Epidemiology, Harvard School of Public Health. "Confounding and misclassification."
- 31. September 1984, Chapel Hill, North Carolina: Dept. of Biostatistics, University of North Carolina. "Recent issues and developments in the estimation of relative risks."
- 32. October 1984, Seattle, Washington: Department of Epidemiology, University of Washington. "Problems in the detection of confounding when measurement errors are present."
- 33. October 1984, Seattle, Washington: Dept. of Biostatistics, Fred Hutchison Cancer Research Center. "Power, sample size, and smallest detectable effect determination in multivariate studies."
- 34. November 1984, Anaheim, California: American Public Health Association. "Confounding, selection bias, and misclassification."
- 35. November 1984, Albuquerque, New Mexico: University of New Mexico Tumor Registry. "Basic survival analysis: relation to the proportional hazards model."
- 36. April 1985, Washington, D.C.: National Cancer Institute. "Interpreting time-related trends in effect estimates."
- 37. April 1985, New York, New York: Division of Epidemiology, Columbia University, School of Public Health. "Interpretation and choice of effect measures in epidemiologic analysis."
- 38. June 1985, Alta, Utah: Society for Industrial and Applied Mathematics. "Partial and marginal matching in case-control studies."

- 39. May 1986, Boston, Massachusetts: Department of Population Sciences, Harvard School of Public Health. "Raw milk: a case study of the interplay of science, public health, and politics."
- 40. May 1986, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Invalidity of some proposed criteria for covariate control."
- 41. June 1986, Minneapolis, Minnesota: Department of Epidemiology, University of Minnesota School of Public Health. "Entrenched fallacies in epidemiologic statistics."
- 42. September 1986, Las Vegas, Nevada: American Public Health Association. "The role of significance tests in epidemiologic analysis."
- 43. April 1987, San Francisco, California: Department of Preventive Medicine, University of California. "Misuses of statistics in causal analysis."
- 44. August 1987, San Francisco, California: American Statistical Association. "Significance testing versus continuity principles."
- 45. October 1987, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Confounding versus statistical validity."
- 46. April 1988, Davis, California: Department of Epidemiology and Preventive Medicine, University of California. "Fallacies in the definition and estimation of attributable fractions."
- 47. April 1988, Davis, California: Division of Biostatistics, University of California. "Statistical uncertainty due to misclassification: implications for validation substudies."
- 49. June 1988, Vancouver, British Columbia: Society for Epidemiologic Research. "Open population follow-up as an alternative to a fixed cohort study: implications for validity, efficiency, and generalizability."
- 50. September 1988, Boston, Massachusetts: Harvard School of Public Health. "Matching and efficiency in cohort studies."
- 51. April 1989, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. "Structural models and fixed margins in the analysis of two-by-two tables."
- 52. April 1989, New York, New York: Division of Epidemiology, Columbia University School of Public Health. "Randomization, statistics, and causal inference."
- 53. April 1989, New York, New York: Department of Environmental and Occupational Medicine, Mount Sinai Medical School. "Matching and efficiency in cohort studies."

- 54. June 1989, Birmingham, Alabama: Society for Epidemiologic Research. "Use of the case-control study design in evaluating preventive interventions."
- 55. June 1989, Gainesville, Florida: Department of Statistics, University of Florida. "The deduction of fixed margins in the causal analysis of two-by-two tables."
- 56. June 1989, Atlanta, Georgia: Department of Biostatistics and Epidemiology, Emory University School of Medicine. "Comparability, collapsibility, and confounding: the confusion continues."
- 57. August 1989, Helsinki, Finland: Department of Epidemiology and Biostatistics, Finnish Institute of Occupational Health. "Empirical Bayes analysis of correlated associations: application to an occupational mortality study."
- 58. September 1989, Linköping, Sweden: Swedish Council for Planning and Coordination of Research. "Theories of epidemiologic inference."
- 59. September 1989, Stockholm, Sweden: Department of Epidemiology, Karolinska Institute. "Empirical Bayes analysis of correlated associations application to an occupational mortality study."
- 60. September 1989, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "A recent history of the concept of confounding."
- 61. February 1990, New Orleans, Louisiana: American Association for the Advancement of Science. "Meta-analysis of observational studies."
- 62. April 1990, Los Angeles, California: Department of Preventive Medicine, University of Southern California School of Medicine. "Counterfactual models for causal effects in epidemiology."
- 63. August 1990, Berkeley, California: Second Annual Meeting of the International Society for Environmental Epidemiology. "Ecologic bias: Current quantitative understanding and directions for future study."
- 64. November, 1990, Berkeley, California: Department of Statistics, University of California, Berkeley. "Smoothing by a maximal model: an alternative to variable selection."
- 65,66. January 1991, Davis, California: Department of Occupational Health, University of California, Davis. Also Berkeley, California: California State Department of Health. "Summarization, smoothing, and inference in epidemiologic data analysis."
- 67. February 1991, Ann Arbor, Michigan: Department of Epidemiology, University of Michigan School of Public Health. "Causal inference as a prediction problem."

- 68. February 1991, Ann Arbor, Michigan: Program in Clinical Research Design and Statistical Analysis. "Summarization, smoothing, and inference in epidemiologic data analysis."
- 69. April 1991, San Francisco, California: Department of Epidemiology and Biostatistics, University of California, San Francisco. "Smoothing by a maximal model: an alternative to variable selection."
- 70,71. May 1991, Helsinki, Finland: Institute of Occupational Health. Also Aarhus, Denmark: Institute of Social Medicine. "Summarization, smoothing, and inference."
- 72. August 1991, Atlanta, Georgia: American Statistical Association. "Semi-Bayes methods for screening effects of toxic exposures."
- 73-75. September 1991, Rotterdam, The Netherlands: Erasmus University, Department of Epidemiology and Biostatistics. Series of three lectures: "Summarization, smoothing, and inference"; "Causal inference as a prediction problem"; and "Empirical-Bayes methods for epidemiologic research".
- 76. October 1991, Albuquerque, New Mexico: Department of Mathematics and Statistics, University of New Mexico. "Empirical-Bayes and Semi-Bayes regression for epidemiologic analyses of multiple exposures: a comparative study."
- 77,78. April 1992, Stanford, California: Division of Epidemiology, Stanford University School of Medicine. Also June 1992, Minneapolis, Minnesota: Division of Epidemiology, University of Minnesota School of Public Health. "The role of statistics in epidemiologic research."
- 79. June 1992, Corvallis, Oregon: Joint Statistical Meetings of IMS and WNAR. "Causal inference as a prediction problem."
- 80,81. June 1992, Minneapolis, Minnesota: Society for Epidemiologic Research. Also July 1992, Detroit, Michigan: Henry Ford Hospital. "Hierarchical methods in logistic regression analyses of multiple exposures."
- 82. November 1992, Tokyo, Japan: Institute of Statistical Mathematics. "Causal inference and statistical prediction."
- 83,84. November 1992, Tokyo, Japan: Fourth Japan-US Biostatistics Conference and Institute of Statistical Mathematics. Also May 1993, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Hierarchical regression for epidemiologic analyses of multiple exposures."
- 85. May 1993, Atlanta, Georgia: International Society for Environmental Epidemiology. "Coping with the inevitable subjectivity of meta-analysis."

- 86,87. May 1993, Gainesville, Florida: Department of Statistics, University of Florida. Also May 1993, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Alternative models for ordinal logistic regression."
- 88. June 1993, Keystone, Colorado: Society for Epidemiologic Research. "Prospects and pitfalls of meta-analysis."
- 89. June 1993, Laramie, Wyoming: Institute of Mathematical Statistics and the Biometric Society. "Extensions of the attributable fraction and probability of causation to continuous outcomes."
- 90,91. November 1993, Thousand Oaks, California: American Statistical Association (Southern California Chapter). Also December, 1993, Santa Monica, California: RAND Corporation. "The relative performance of simple methods for handling missing covariates in epidemiologic regression analysis."
- 92,93. February 1994, Boston, Massachusetts: Harvard School of Public Health. Also May 1994, Seattle, Washington: Fred Hutchinson Cancer Research Center. "A study of basic methods for handling missing covariates in epidemiologic regression analyses."
- 94. May 1994, Seattle, Washington: University of Washington School of Public Health. "Ecologic studies: biases, misconceptions, and counterexamples."
- 95. January 1995, Sacramento, California: State of California Department of Health Services. "Application of penalized splines to HIV backprojection in L.A. County."
- 96. January 1995, Davis California: Department of Statistics, University of California. "Iterative reweighting in hierarchical regression for epidemiologic analysis."
- 97-99. March 1995, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. Also April 1995, Milan, Italy: Division of Epidemiology and Biostatistics, European Institute of Oncology, and Bath, England: Department of Statistics, University of Bath. "All models should be as big as a house: Some Savage observations for the new computer age."
- 100. April 1995, Lyon, International Agency for Research on Cancer. "Principles of Epidemiologic Analysis."
- 101-103. March 1996, Boston Massachusetts: Department of Epidemiology, Harvard School of Public Health. Also New Orleans, Louisiana: Department of Epidemiology and Biostatistics, Tulane University School of Public Health, and Cleveland, Ohio: Department of Epidemiology and Biostatistics, Case-Western University School of Medicine. "Sinning is believing in epidemiology."

- 104,105. March 1996, New Orleans, Louisiana: Department of Epidemiology and Biostatistics, Tulane University School of Public Health. Also Cleveland, Ohio: Department of Epidemiology and Biostatistics, Case-Western University School of Medicine. "Penalized likelihood as a unifying concept for epidemiologic analysis."
- 106. November 1996, Stanford, California: Division of Biostatistics, Stanford University School of Medicine. "Hierarchical regression as an unifying concept for epidemiologic statistics."
- 107. May 1997, Atlanta, Georgia: American Statistical Association. "Making use of higher-stage information in epidemiologic analyses."
- 108. May 1997, Atlanta, Georgia: Centers for Disease Control. "Should all epidemiologic regressions use random coefficients?"
- 109. July 1997, Santa Fe, New Mexico: Santa Fe Institute. "Causal inference as a prediction problem."
- 110. August 1997, Anaheim, California: American Statistical Association. "The sensitivity of a sensitivity analysis."
- 111,112. September 1997, Oviedo, Spain: XV National Meeting of the Spanish Society of Epidemiology. "Facing the limits of epidemiology" and "Multilevel modeling as a foundation for epidemiologic analysis."
- 113,114. March 1998, Baltimore, Maryland: Department of Epidemiology, Johns Hopkins School of Public Health. Also Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina School of Public Health. "Sinning is believing in epidemiology."
- 115. June 1998, Chicago, Illinois: Annual Meeting of The Society for Epidemiologic Research. "Lies, damned lies, and meta-analyses."
- 116. September 1998, Helsinki, Finland: 13th International Symposium on Epidemiology in Occupational Health. "Combining ecologic and individual data: The multilevel approach."
- 117. September 1998, Glasgow, Scotland: International Conference of the Royal Statistical Society. "Meta-analysis as an emerging meta-disaster."
- 118. March 1999, New York, New York: Department of Epidemiology, Columbia University School of Public Health. "Principles of multilevel analysis."
- 119. August 1999, Berkeley, California: School of Public Health, University of California, Berkeley. "Magnetic fields and childhood leukemia."

- 120,121. December 1999, Marrakech, Morocco: World Health Organization Conference on Summary Measures for Population Health. Also February 2000, New York, New York: Department of Epidemiology, Columbia University School of Public Health. "Causality theory for summarization of population health in policy uses of epidemiologic results."
- 122. February 2000, Chapel Hill, North Carolina: School of Public Health. "Putting prior information into epidemiologic regression analysis."
- 123. February 2000, Bethesda, Maryland: Food and Drug Administration. "The Bayesian-frequentist fusion: Epidemiologic regression using random coefficients."
- 124,125. February 2000, Washington, D.C.: American Association for Advancement of Science Annual Meeting. Also May 2000, Los Angeles: Marschak Colloquium, UCLA Department of Economics. "Overthrowing the tyranny of the null hypothesis."
- 126. June 2000, Edmonton, Canada: University of Alberta International Conference on Statistics and Health. "Ecologic bias in estimating ecologic effects."
- 127. June 2000, Park City, Utah: American Statistical Association Meeting on Radiation and Health. "Why the probability of causation is inappropriate for compensation schemes."
- 128. July 2000, San Francisco, California: International Biometrics Conference. "Variable selection versus shrinkage in model-based control of confounding."
- 129. November 2000, Houston, Texas: School of Public Health, University of Texas, Houston. "Multilevel model theory for ecologic analyses."
- 130. January 2001, Sacramento, California: University of California at Davis Conference in Epidemiology. "Causality theory for policy uses of epidemiologic results."
- 131. March 2001, Los Angeles, California: Research Conference on Biopolitics, UCLA Center for Governance. "A full Bayesian probability model for epidemiologic research on magnetic fields and childhood leukemia."
- 132. April 2001, Seattle, Washington: Department of Biostatistics, University of Washington School of Public Health. "Facing the nonidentification problem in epidemiology."
- 133. June 2001, Toronto, Canada: First National Student Congress, Canadian Society for Epidemiology and Biostatistics. "Incorporating validity concerns into epidemiologic modeling."
- 134. June 2001, Toronto, Canada: First North American Congress of Epidemiology. "Epidemiology and the Law" (first panel speaker).
- 135. June 2001, Toronto, Canada: First North American Congress of Epidemiology. "Data say nothing about epidemiologic associations and effects."

- 136. July 2001, Whistler, British Columbia: Workshop on Selection Bias in Epidemiologic Studies of EMF and Childhood Leukemia. "Bayesian analysis of uncontrolled confounding in the Los Angeles study of wire codes and childhood leukemia."
- 137. December 2001, Seattle, Washington: Center for Statistics and the Social Sciences, University of Washington. "Data say nothing at all: A plea for honesty in the packaging and practice of statistics."
- 138. January 2002, Los Angeles, California: Seminar on Statistical Associations and Causal Connections, Statistical Literacy Project. "Epidemiologic and statistical aspects of causal modeling."
- 139. March 2002, Palo Alto, California: Department of Preventive Medicine, Stanford University School of Medicine. Also Seattle, Washington: School of Nursing, University of Washington. "An introduction to multiple-bias modeling in observational data analysis."
- 140. March 2002, Seattle, Washington: Department of Biostatistics, University of Washington. "Quantifying biases in causal models: classical confounding versus collider-stratification bias."
- 141. May 2002, Berkeley, California: Mathematical Sciences Research Institute Symposium on Statistical Challenges for Meta-Analysis of Medical and Health-Policy Data. "The need for multiple-bias modeling in meta-analysis and pooled analysis."
- 142. June 2002, Los Angeles, California: Joint meeting of the Biometric Society (WNAR) and the Institute of Mathematical Statistics. "We can't learn anything from a sensitivity analysis without a prior for the sensitivity parameters."
- 143. June 2002, Palm Springs, California: Society for Epidemiologic Research. "Epidemiologists in court, part 2: Further experiences, and proposals for improving practice."
- 144. August 2002, Montreal, Canada: XVI World Congress of Epidemiology. "Accounting for biases with statistical analyses."
- 145. February 2003, Denver, Colorado: American Association for Advancement of Science Symposium on Causation in Law, Science, and Everyday Speech. "The chaos of causation: confronting courts with conflicts in concepts and methods for inferring cause and effect."
- 146. March 2003, San Diego, California: Colloquium on Scientific Inference and Public Policy. "Defending the rights of chemicals?"
- 147. June 2003, Atlanta, Georgia: Society for Epidemiologic Research. "Bayesian modeling of multiple biases."

- 148. August 2003, San Francisco, California: Joint Statistical Meeting of the American Statistical Association, the International Biometric Society, and the Institute of Mathematical Statistics. "The need for multiple-bias modeling in observational studies."
- 149. May 2004, Santa Cruz, California: Department of Applied Mathematics and Statistics, University of California. "Bayesian bias modeling and some useful approximations."
- 150. May 2004, Berkeley, California: Public Health Institute, University of California, Berkeley. "Meta-analysis and pooled analysis with multiple bias modeling."
- 151. June 2004, Salt Lake City, Utah: Society for Epidemiologic Research. "Statistics as a hindrance and an aid for inference from nonexperimental data."
- 152. September 2004, London, England: Department of Epidemiology, London School of Hygiene and Tropical Medicine. "Incorporating bias models into epidemiologic research."
- 153,154. September 2004, Bristol, England: Department of Social Medicine, University of Bristol. Also March 2005, Munich, Germany: Department of Psychology, Max Planck Institute for Psychiatry. "You can and should do Bayes at home: simple and effective Bayesian methods for epidemiologic research."
- 155,156. September 2004, London, England: Department of Statistics, University College. Also March 2005, Jena, Germany: Institute for Psychology, Friedrich Schiller University. "Statistics as an aid and a hindrance to observational research."
- 157,158. September 2004, London, England: Royal Statistical Society. Also March 2005, Halle, Germany: International Biometric Society, 51st Meeting, Martin Luther University. "Multiple-bias modeling for observational data" (keynote address).
- 159. June 2005, Toronto, Canada: Society for Epidemiologic Research. "Escaping delusions of grandeur in epidemiology and statistics."
- 160. August 2005, Minneapolis, Minnesota: American Statistical Association. "Extending likelihood-based algorithms and inference to nonidentified bias models."
- 161,162. July 2006, Cambridge, Massachusetts: 22nd Conference on Uncertainty in Artificial Intelligence, Massachusetts Institute of Technology (keynote address). Also Department of Epidemiology, Mailman School of Public Health, Columbia University, New York. "Marginal science: Facing the task of inference about an unobserved margin from an insufficient set of observed margins."
- 163. February 2007, Montreal, Canada: Department of Epidemiology and Biostatistics, University of Montreal. "Options for multiple exposure variables: State your objective, please."
- 164-166. February 2007, Quebec, Canada: Department of Preventive Medicine, University of

- Laval, and Portland, Oregon: Department of Public Health and Preventive Medicine, Oregon Health Sciences University. Also May 2007, San Diego, California: University of California. "Postmodern epidemiology: From the holy trinity of validity threats to the unity of graphical and missing-data perspectives."
- 167. August 2007, Salt Lake City, Utah: American Statistical Association Joint Statistical Meetings. "Hierarchical models for biases in observational studies."
- 168. February 2008, Vancouver, Canada: Department of Statistics, University of British Columbia. "The need for statistical theory and methods for inference on nonidentified parameters."
- 169-171. March 2008, Erice, Italy: Ettore Majorana Foundation and Centre for Scientific Culture. Series of three lectures on "Biases and effect-measure modification," "Meta-analysis: The study of studies," and "Analysis of quantitative exposures."
- 172. March 2008, Amsterdam, The Netherlands: Department of Epidemiology, University of Amsterdam. "The inadequacy of standard statistical theory and methods for epidemiologic research."
- 173. April 2008, Rostock, Germany: Max Planck Institute for Demographic Research. "An overview of developments in longitudinal causal modeling in the health sciences, 1980-2000."
- 174. April 2008, Hannover, Germany: Institute for Biostatisics, Leibniz University. "The need for statistical theory and methods for inference on nonidentified parameters."
- 175-178. June-August 2008, Thousand Oaks, California: Amgen Corporation. Lecture series: "Causal models and causal inference in health sciences"; "Causal inference in 'broken trials': The need for intent-to-treat and g-estimation"; "Bayesian perspectives Part II; "Bayesian perspectives Part II bias in observational studies."
- 179. September 2008, Porto Alegre, Brazil: XVIII IEA World Congress of Epidemiology. Keynote address: "What does statistics have to offer epidemiologists?"
- 180. October 2008, Duarte, California: City of Hope. "The inadequacy of standard statistical theory and methods for epidemiologic research."
- 181. February 2009, Philadelphia, Pennsylvania: Department of Biostatistics and Epidemiology, University of Pennsylvania Medical School. "Statistics in epidemiology: It's all sensitivity analysis."
- 182. March 2009, Boston, Massachusetts: Department of Epidemiology, Harvard University School of Public Health. "From statistics to uncertainty analysis: A new paradigm for epidemiologic inference?"
- 183. March 2009, Chicago, Illinois: Department of Health Studies, University of Chicago:

- "Statistics in epidemiology: It's all sensitivity analysis."
- 184. March 2009, Cambridge, England: Center for Mathematical Sciences, Cambridge University, Conference on Causal Inference: State of the Art. "Is causal inference anything more than predictive inference for intervention alternatives?"
- 185. March 2009, Lyon, France: International Agency for Research on Cancer. "Statistics in epidemiology: It's all sensitivity analysis."
- 186. June 2009, Anaheim, California: Society for Pediatric and Perinatal Epidemiologic Research. "Bayesian perspectives for epidemiologic research."
- 187. June 2009, Anaheim, California: Society for Epidemiologic Research. "Overthrowing the tyranny of null hypotheses in graphs."
- 188. June 2009, Anaheim, California: Society for Epidemiologic Research. "Translating graphical models into statistical methods."
- 189. August 2009, Providence, Rhode Island: International Society for Pharmacoepidemiology. "The need for Bayesian thinking and methods in observational studies."
- 190. August 2009, Providence, Rhode Island: International Society for Pharmacoepidemiology. "Accounting for uncertainty about investigator bias" (keynote address).
- 191. September 2009, Dunedin, New Zealand: Australasian Epidemiological Association. "What good does statistics offer the epidemiologist?" (keynote address).
- 192. September 2009, Wellington, New Zealand: Massey University. "Accounting for uncertainty about investigator bias."
- 193. October 2009, San Diego, California: American Society of Nephrology. "Logic, Causation, and Confounding in Health and Medical Research"
- 194. March 2010, Los Angeles, California: University of California Symposium in Honor of Judea Pearl. "Predictive diagrams: Backing off from causality in DAGs."
- 195. April 2010, Paris, France: Center for Research in Epidemiology and Population Health, INSERM. "Is statistics the sick man of health science?"
- 196,197. April 2010, Rotterdam, The Netherlands: Department of Biostatistics, Erasmus University. Also Oxford, England: Oxford University. "The need for syncretism in applied statistics."
- 198. April 2010, London, England: London School of Hygiene and Tropical Medicine, Bradford Hill Memorial Lecture. "'Medical statistics a half-century after Bradford Hill: sometimes a blessing, often a curse."
- 199. April 2010, Bristol, England: Department of Social Medicine, University of Bristol.

- "Meaninglessly small P-values: Adventures in pseudo-precision."
- 200. April 2010, Bristol, England: Department of Philosophy, University of Bristol. "How much progress in medicine is illusory?"
- 201. April 2010, Cambridge, England: Department of History and Philosophy of Science. "The art and (pseudo)science of epidemiologic risk assessment."
- 202. May 2010, Riverside, California: Department of Statistics. "The need for syncretism in applied statistics."
- 203,204. June 2010, Los Angeles, California: Marschak Colloquium, UCLA Department of Economics. Also January 2011, Park City, Utah: Fourth International IMS/ISBA Joint Meeting. "Integrating Bayesian and frequentist statistics, or: Seeing both sides of the same biased coin."
- 205. May 2011, Los Angeles, California: University of California Multi-Campus Complexity Program, Human Social Complexity Videoconference. "Causal modeling of bias: A graphical overview of concepts for methods."
- 206,207. May 2011, Ann Arbor, Michigan: Atlantic Causal Inference Conference, University of Michigan. Also Chapel Hill, North Carolina: Department of Epidemiology. "Causal inference: Much more than just statistics?" (keynote address).
- 208. May 2011, Muncie, Indiana: Midwestern Biopharmaceutical Statistics Workshop, Ball State University. "Graphical and likelihood-based approaches to bias analysis."
- 209. June 2011, San Luis Obispo, California: Joint Statistical Meetings of IMS and WNAR. "Is causal inference anything more than predictive inference for intervention alternatives?"
- 210. August 2011, Edinburgh, Scotland: XIX IEA World Congress of Epidemiology. Workshop presentation: "Effect modifiers that are also confounders: how to treat in analysis."
- 211. August 2011, Edinburgh, Scotland: XIX IEA World Congress of Epidemiology. Keynote address: "All inference is biased judgment."
- 212,213. August 2011, London, England: Department of Medical Statistics, London School of Hygiene and Tropical Medicine. Also Rotterdam, The Netherlands: Master Class in Advances in Epidemiologic Analysis, Erasmus University. "Evidence synthesis: much more than statistics."

- 214. March 2012, Davis, California: Department of Public Health Sciences, School of Medicine, University of California, Davis. "Causal Inference: Much More than Just Statistics."
- 215. March 2012, Davis, California: School of Law, University of California Davis. Symposium Witness and Discussant, "The Daubert Hearing from All the Critical Perspectives."
- 216. March 2012, Zurich, Switzerland: Department of Biostatistics, University of Zurich. "Evidence synthesis: much more than statistics."
- 217. March 2012, Zurich, Switzerland: Department of Statistics, Swiss Technical Institute. "Integrating Bayesian and frequentist statistics, or: Seeing both sides of the same biased coin."
- 218. May 2012, Los Angeles, California: California Center for Population Research, University of California, Los Angeles. "Causal Inference: Much More than Just Statistics."
- 219. November 2012, San Diego, California: Joint Meeting of the History of Science Society and the Philosophy of Science Association. "Overthrowing the tyranny of null hypotheses in health and medical sciences."
- 220. February 2013, New York City: Department of Epidemiology, Mailman School of Public Health, Columbia University. "Is Epidemiology too Difficult for Statisticians?"
- 221. June 2013, Utrecht, Netherlands, Preconference of the Netherlands Epidemiology Society. "Modern methods for causal modeling in health and medical science: Cautions and capabilities."
- 222. June 2013, Utrecht, Netherlands, Conference of the Netherlands Epidemiology Society. "On the misuse, neglect, and nonsense use of epidemiologic effect measures in policy formulation."
- 223, 224. September 2013, Aarhus, Denmark: Department of Medicine, Aarhus University; and Stockholm, Sweden: Department of Epidemiology, Karolinska Institute. "Is Epidemiology too Difficult for Statisticians?"
- 225. September 2013, Helsinki, Finland: Finnish Epidemiology Society and the Finnish Cancer Registry. "Misconceptions and Biases in the Teaching and Applications of Statistics in Health and Medical Science."
- 226. April 2014, Rochester, New York: University of Rochester Medical Center. 14th Annual Saward-Berg Honorary Lecture. "Modern statistical methods for health and medical science: Cautions and capabilities."
- 227. April 2014, Western Michigan University: Center for Health Data Research, Analysis, and Mapping (HDReAM). "Overthrowing the tyranny of null hypotheses in health and medical

sciences."

- 228, 229. July 2014, School of Population and Global Health, University of Melbourne; also August 2014, National Centre for Epidemiology and Population Health, College of Medicine, Biology and Environment, The Australian National University. "On the misuse, neglect, and nonsense use of epidemiologic effect measures in policy formulation."
- 230, 231. July 2014, Statistical Society of Australia and Faculty of Science, University of Melbourne; also August 2014, School of Public Health, Sydney University. "Overthrowing the tyranny of null hypotheses in health and medical sciences."
- 232, 233. March 2015, Oslo, Norway: Norwegian Institute of Public Health, University of Oslo; and Aarhus, Denmark: Department of Epidemiology, Aarhus University. "Limitations and extensions of DAGs and causal models for observational epidemiology."
- 234. April 2015, Stockholm, Sweden: Department of Epidemiology, Karolinska Institute. "Consensus formation from observation of complex systems with limited intervention: Why statistics needs to be absorbed into epistemology."
- 235. May 2015, Davis, California: Department of Public Health Sciences, School of Medicine, University of California, Davis. "Modern methods for causal modeling in health and medical science: Uses, cautions, limits"
- 236. May 2015, Davis, California: Robert Dyar Labrador Memorial Lectureship in Epidemiology, Department of Population Health and Reproduction, University of California, Davis. "A case study in how expert witnesses obstruct justice and endanger patient care."
- 237. October 2015, San Diego, California: Pacific Endodontic Research Foundation, TDO Scientific Session. "Problems of safety assurance."
- 238. October 2015, Durham, North Carolina: Department of Statistical Science, Duke University. "The information content of a prior distribution and the fallacy of prior spikes in 'soft' sciences."
- 239. September 2016, Dunedin, New Zealand: Department of Preventive and Social Medicine, University of Otago School of Medicine. "A researcher's guide to understanding modern statistics."
- 240-242. September 2016, Auckland, New Zealand: Department of Statistics, University of Auckland. Also March 2017, Boston, Massachusetts: Department of Epidemiology, Harvard T.K. Chan School of Public Health, and Pittsburgh, Pennsylvania: Department of Epidemiology, University of Pittsburgh School of Public Health. "Evidence wars: Statistical ergonomics and the information content of a P-value."
- 243. September 2017, Los Angeles, California: UCLA Integrative Center for Learning and Memory Workshop on Multidisciplinary Approaches to Causal Inference. "Null

- hypotheses are anti-parsimonious causal explanations."
- 244. September 2017, Los Angeles, California: UCLA Integrative Center for Learning and Memory Symposium on Multidisciplinary Approaches to Causal Inference. "Cognitive distortions of causal-inference statistics."
- 245. October 2017, Bethesda, Maryland: American Statistical Association Symposium on Statistical Inference. "Statistical training needs to address cognitive limitations and biases."
- 246. October 2017, Los Angeles, California: Department of Statistics, University of California Los Angeles. "The challenges of avoiding the abuse of statistical methodology."
- 247-248. February 2018, Basel, Switzerland: University of Basel, Department of Environmental Sciences. Also March 2018, Faculty of Economics and Management, Free University of Bozen-Bolzano, Italy. "The unconditional information in P-values, and its refutational interpretation via S-values."
- 249-252. February 2019, Vancouver, British Columbia: University of British Columbia, Simon Fraser University; also Montreal, Quebec: McGill University, and Boston, Massachusetts: Brigham and Women's Hopsital, Harvard University. "Statistics as a condemned building: A demolition and reconstruction plan."
- 253. February 2019, Modena, Italy: Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia Medical School, Modena, Italy. "The need for cognitive science in statistics."
- 254. May 2019, Los Angeles, California: Department of Epidemiology, University of California Los Angeles. "To stop uncertainty laundering, replace 'significance' and 'confidence' with compatibility."
- 255. June 2019, Scottsdale, Arizona: International Academy of Endodontics Annual Meeting. "What if anything have we learned and can we learn from nutritional epidemiology and trials?"

Invited Workshops and Courses

- 1. September 1982, Rotterdam, The Netherlands: Erasmus University, Department of Epidemiology: "A short course on theory and quantitative methods in epidemiology" (series of 4 lectures).
- 2. May 1991, Hindsgavl, Denmark: Institute of Social Medicine, University of Aarhus. "Epidemiologic theory and analysis."
- 3. September 1998, Münster, Germany: Institute for Epidemiology and Social Medicine. "Epidemiologic analysis from a truly Bayesian perspective."

- 4. September 1998, Helsinki, Finland: Institute of Occupational Health. "Principles of multilevel analysis."
- 5. March, 1999, Chapel Hill, North Carolina: Department of Epidemiology, University of North Carolina. "Principles of multilevel analysis."
- 6. January 2002, Los Angeles, California: Keck Foundation Workshop on Causal Modeling Methods (co-instructor with Judea Pearl).
- 7, 8. June 2003, Atlanta, Georgia, and June 2005, Toronto, Canada: American College of Epidemiology. "Applying quantitative sensitivity analysis to epidemiologic data" (coinstructor).
- 9-12. July-September 2005, Department of Epidemiology, Mailman School of Public Health, Columbia University, New York; Department of Epidemiology, Bloomberg School of Public Health, Johns Hopkins University, Baltimore; Department of Environmental and Occupational Health, University of Minnesota, Minneapolis; and Centre for Public Health Research, Massey University, Wellington, New Zealand. "Bayesian and bias-modeling methods for epidemiologic research."
- 13. March 2006, 23rd Annual Behavioral Risk Factor Surveillance System Conference (CDC), Palm Springs, California. "Bayesian Perspectives for Epidemiologic Research: I. Rationale and Basic Methods. II. Regression and Bias Modeling."
- 14. February 2007, Quebec, Canada: Department of Preventive Medicine, University of Laval. "You can and should do Bayes at home, work, and school."
- 15. March 2008, Bern, Switzerland: Institute for Social and Preventive Medicine, University of Bern. "Practical Bayesian methods for the health sciences."
- 16. September 2008, Porto Alegre, Brazil: XVIII IEA World Congress of Epidemiology. Course on Epidemiologic Research and New Directions, lectures: "An overview of some advances in epidemiologic methods in the past quarter-century" and "Bayesian bias analysis"
- 17. February 2009, New York, New York: Department of Epidemiology and Population Health, Albert Einstein College of Medicine. "Bayesian perspectives and bias analysis for observational epidemiologic studies."
- 18. August 2009, Silver Spring, Maryland: U.S. Food and Drug Administration. "Bayesian perspectives and methods for epidemiology."
- 19. August 2009, Dunedin, New Zealand: Australasian Epidemiological Association. "Uncertainty analysis."

- 20. April 2010, Rotterdam, The Netherlands: Department of Biostatistics, Erasmus University. "Bayesian methods and bias analysis."
- 21. September 2010, San Francisco, California: American College of Epidemiology. "Bayesian methods without Bayes theorem or MCMC."
- 22. September 2012, Chicago, Illinois: American College of Epidemiology. "Bayesian methods and bias analysis."
- 23. September 2013, Stockholm, Sweden: Department of Epidemiology, Karolinska Institute. "Penalized methods as universal tools for data analysis."
- 24. April 2014, Aare, Sweden: Swedish Interdisciplinary Graduate School in Register-based Research. "Penalized methods as universal tools for data analysis."
- 25. July 2014, Melbourne, Australia: School of Population and Global Health, University of Melbourne. "Bayesian and penalised regression methods for epidemiological analysis."
- 26. May 2015, San Francisco, California: Department of Epidemiology and Biostatistics, School of Medicine, University of California San Francisco. "Bias analysis: How to not assume what you don't know."
- 27. September 2016, Auckland, New Zealand: Department of Statistics, University of Auckland. "Bayesian and penalised regression methods for epidemiological analysis."
- 28. February 2018, Basel, Switzerland: Department of Epidemiology and Public Health, Swiss Tropical and Public Health Institute, University of Basel. "Bayesian and Penalized Regression Methods for Nonexperimental Data Analysis."

Contributed Presentations

- 1. June 1980, Minneapolis, Minnesota: Society for Epidemiologic Research. "Estimating exposure-specific rates from case-control data using Bayes' theorem: extensions to multiple exposure factors."
- 2. June 1981, Vancouver, British Columbia: Biometric Society (WNAR). "The power of tests for interaction in epidemiologic studies."
- 3. June 1983, Winnipeg, Manitoba: Society for Epidemiologic Research. "Effects of electronic fetal monitoring on rates of early neonatal death, low Apgar score, and cesarean section."
- 4. June 1985, Chapel Hill, North Carolina: Society for Epidemiologic Research. "The fallacy of employing standardized regression coefficients as measures of biological effect."

- 5. June 1986, Pittsburgh, Pennsylvania: Society for Epidemiologic Research. "A health study of two communities near the Stringfellow hazardous waste disposal site."
- 6. June 1986, Pittsburgh, Pennsylvania: Society for Epidemiologic Research. "Identifiability, exchangeability, and epidemiologic confounding."
- 7. June 1987, Amherst, Massachusetts: Society for Epidemiologic Research. "On the design of studies using confidence intervals."
- 8. June 1988, Vancouver, British Columbia: Society for Epidemiologic Research. "Validation substudy or validated study?"
- 9. June 1989, Birmingham, Alabama: Society for Epidemiologic Research. "Matching and efficiency in cohort studies."
- 10. June 1990, Snowbird, Utah: Society for Epidemiologic Research. "The nonidentifiability of direct and indirect effects."
- 11. June 1990, Snowbird, Utah: Society for Epidemiologic Research. "A semi-Bayes approach to the analysis of multivariate epidemiologic data, with an application to an occupational cancer-mortality study."
- 12. August 1990, Los Angeles, California: International Epidemiological Association. "Case-control analyses of site-specific cancer mortality at a large-transformer manufacturing plant."
- 13. July 1991, Santa Barbara, California: Joint Statistical Meetings of IMS and WNAR. "Modeling risk ratios from incomplete matched-cohort data: an estimating-equation approach."
- 14. June 1992, Corvallis, Oregon: Joint Statistical Meetings of IMS and WNAR. "Maximum-likelihood estimation of the attributable fraction from logistic models."
- 15. June 1992, Minneapolis, Minnesota: Society for Epidemiologic Research. "A method for modeling risk ratios from matched-cohort data."
- 16. June 1993, Laramie, Wyoming: Joint Statistical Meetings of IMS and WNAR. "Alternative models for ordinal logistic regression."
- 17. June 1994, Los Angeles, California: Joint Statistical Meetings of IMS and WNAR. "A study of basic methods for handling missing covariates in epidemiologic regression analyses."
- 18. June 1995, Snowbird, Utah: Society for Epidemiologic Research. "Estimation of the causal effect of a time-varying exposure on the marginal mean of a repeated binary outcome."

- 19. June 1995, Stanford, California: Joint Statistical Meetings of IMS and WNAR. "Historical HIV incidence modeling in regional subgroups: use of flexible discrete models with penalized splines based on prior curves."
- 20. June 1996, Boston Massachusetts: Society for Epidemiologic Research. "Confounding in case-crossover and case-time-control studies."
- 21. June 1997, Edmonton, Alberta: Society for Epidemiologic Research. "Characteristics of fluoxetine vs. placebo responders in a randomized trial of geriatric depression."
- 22. June 1999, Baltimore, Maryland: Society for Epidemiologic Research: "A pooled analysis of magnetic fields, wire codes, and childhood leukemia."
- 23. June 2000, Seattle, Washington: Society for Epidemiologic Research. "Ecologic bias in estimating ecologic effects."
- 24. June 2000, Seattle, Washington: Society for Epidemiologic Research. "Bayesian and partial-Bayesian analysis of epidemiologic studies via data augmentation."
- 25. August 2001, Snowbird, Utah: NCI Causal Inference Conference. "Sensitivity analysis versus Bayesian analysis of uncontrolled confounding."
- 26. June 2004, Salt Lake City, Utah: Society for Epidemiologic Research. "Monte-Carlo sensitivity analysis and Bayesian analysis of smoking as an unmeasured confounder in a study of silica and lung cancer."

Editorial Activities

1982-1986	Associate Editor for <i>Epidemiology: A Dictionary of Terms</i> for Oxford University Press
1984-1998	Associate Editor, American Journal of Epidemiology
1985-2013	Associate Editor, Statistics in Medicine
1989-2006	Associate Editor, Epidemiology
2000-2010	Editorial Advisory Board, Methodos Series
2011-2017	Editorial Board Member, The Journal of Causal Inference
2007-2014	Associate Editor for A Dictionary of Epidemiology for Oxford University Press
2004-present	Editorial Board Member, European Journal of Epidemiology
2010-present	Editorial Board Member, Epidemiologic Methods

Reviewing Activities

Referee for American Journal of Epidemiology, Epidemiology, European Journal of Epidemiology, International Journal of Epidemiology, and Statistics in Medicine; occasional referee for the American Journal of Public Health, The American Statistician, Annals of Epidemiology, Biometrics, Biometrika, Biostatistics, Communications in Statistics, Computational Statistics and Data Analysis, Controlled Clinical Trials, Drug Safety, International Statistical Review, Journal of the American Medical Association, Journal of the American Statistical Association, Journal of Clinical Epidemiology, The New England Journal of Medicine, Risk Analysis, and the Scandinavian Journal of Work, Environment, and Health.

1980-1981	Review of textbook, "Case-Control Studies: Design, Conduct, Analysis," for Oxford University Press.
1981-1982	Review of textbook, "Epidemiologic Research: Principles and Quantitative Methods," for Lifetime Learning, Inc.
1981-1982	Review of textbook, "Principles of Epidemiologic Research," for John Wiley and Sons, Inc.
1983-1985	Review of textbook, "Modern Epidemiology," for Little, Brown, Inc.
1985	Review of textbook, "Methods in Observational Epidemiology," for Oxford University Press.
1987	Review of textbook, "Research Methods in Occupational Epidemiology," for Oxford University Press.
1988-89	Review of textbook, "Applied Logistic Regression," for Wiley and Sons, Inc.
1993	Review of textbook, "Observational Studies", for Springer-Verlag.
1994-1995	Review of textbook, "Methods in Observational Epidemiology" (2nd Ed.), for Oxford University Press.
2008	Reviewer for Medical Research Council, United Kingdom
2008	Reviewer for Swiss Cancer League

Community and Public Service Activities

1980	Consultant (WOS) to Maternal and Child Health Division, Los Angeles County Department of Health Services (Dr. Erica Watson)
1977-1982	Consultant (WOS) to Acute Communicable Disease Control Division, Los Angeles County Department of Health Services (Marc Strassburg, M.P.H.)

1979-1982	Consultant (WOS) to Center for Health Enhancement, Los Angeles (Dr. Jonathan Fielding)
1982-1986	Consultant (WOS) to Program Evaluation Division, Los Angeles County
1982-1980	Department of Health Services (Dr. Marc Strassburg)
1986-1989	Consultant (WOS) to Consumer's Union (Larry King)
1986-1989	Consultant (WOS) to Acute Communicable Disease Control Division, Los Angeles County Department of Health Services (Dr. James Thomas)
1987-1989	Consultant (WOS) to Center for Community and Preventive Medicine, Charles R. Drew University of Medicine and Science (Dr. Bruce Allen)
1990-1994	Member, Health Effects Institute Working Group on Complex Mixtures (Dr. Aaron Cohen)
1994-1995	Member, Working Group on Recommendations for Reporting of Clinical Trials in the Biomedical Literature.
1994-1995	Member, International Life Sciences Institute Working Group on Meta-Analysis
1994-1997	Member, Health Effects Institute Particle Epidemiology Project Oversight Committee (Dr. Aaron Cohen)
1996-1997	Member, FDA Food Advisory Committee Working Group
1997-1998	Member, EPA Review Panel on Meta-Analysis of Water Chlorination and Cancer (Dr. Patricia Murphy)
1998-1999	Member, Federal Focus Review Panel on Application of the London Principles for Risk Assessment
1989-1999	Consultant (WOS) to Sexually Transmitted Disease Division, Los Angeles County Department of Health Services (Dr. Gary Richwald)
1999-2000	Consultant (WOS) to World Health Organization Global Programme on Evidence for Health Policy (Drs. Christopher Murray and Alan Lopez)
2000-2001	Consultant, California Birth Defects Monitoring Program, March of Dimes Birth Defects Foundation (Dr. Suzan Carmichael)
2000-2001	Reviewer, Surgeon General's Report on Active Smoking and Health, Office on Smoking and Health, National Center for Chronic Disease Prevention and Health Promotion, CDC (Elizabeth Majestic)
2000-2002	Consultant, Environmental Health Investigations Branch, California State Department of Health (Dr. Raymond Neutra)

2000-2003	Member, Executive Committee, Society for Epidemiologic Research
2004-2005	Member, Epidemiology Without Borders Organizing Committee
2004-2005	Member, Committee on Alternate Models to Daubert Standards, National Academy of Sciences
2000-2006	Consultant, California State Attorney General's Office, Proposition 65 Risk Assessment (Deputy Attorney Generals: Edward Weil and Susan Durbin)
2005-2007	Chair, Section in Epidemiology, American Statistical Association
2006-2010	Member, Drug Safety and Risk Management Advisory Committee, Food and Drug Administration
2000-2014	Advisor, American Council on Science and Health
2001-present	Member, Advisory Committee, Harvard Program on Causal Inference in Epidemiology and Allied Sciences

University Committee Service

1980-1982	Research Committee, UCLA School of Public Health
1982-1984	Admissions Policy Committee, UCLA School of Public Health
1984-1986	Course Approval Committee, UCLA School of Public Health
1986-1988	M.P.H. Exam Committee, UCLA School of Public Health
1987-1989	Educational Policy and Curriculum Committee, UCLA School of Public Health
1989-1991	Equipment Committee, UCLA School of Public Health
1991-2008	Computing Committee, UCLA School of Public Health
1980-2012	Doctoral Examination Committee, Department of Epidemiology, UCLA School of Public Health

Teaching Experience (see also Invited Workshops and Courses, above)

1973-1974 Teaching Assistant, Statistics 2, "Introductory Statistics," University of California, Berkeley

Winter 1978	Teaching Assistant, Public Health 147, "Principles of Epidemiology," UCLA
Fall 1978	Instructor, Health Sciences 510C, "Cardiovascular Epidemiology," Cal State University, Northridge
Spring 1980	Instructor, Health Sciences 592, "Biostatistics for Epidemiologists," Cal State University, Northridge
Fall 1981	Instructor, Public Health 298B, "Advanced Analytic Epidemiology," UCLA
1981-1984	Lecturer, Public Health 114, "Epidemiology I," UCLA
1982-1986	Co-Instructor, Public Health 211A, "Epidemiology II," UCLA
1980-1986	Co-Instructor, Public Health 211B, "Epidemiology III," UCLA
1982-1987	Instructor, Epidemiology 291 (formerly Public Health 221), "Seminar in Epidemiologic Methodology," UCLA
Summer 1992	Instructor, Epidemiology 737, "Seminar in Statistics in Epidemiology," University of Michigan
1982-1997	Instructor, Epidemiology 202A (formerly Public Health 211C), "Epidemiology: Theory and Methodology I," UCLA
1988-1997	Instructor, Epidemiology 202B (formerly Public Health 211D), "Epidemiology: Theory and Methodology II," UCLA
1999-2004	Instructor, Epidemiology 211/Biostatistics 211, "Statistical Methods in Epidemiology," UCLA
2000-2004	Instructor, Epidemiology 212/Biostatistics 209, "Epidemiologic Regression", UCLA
1998-2011	Instructor, Epidemiology 204/Statistics 243, "Logic, Causation, and Probability," UCLA
2005-2011	Instructor, Epidemiology 200C, "Analysis Methods", UCLA
1980-2012	Instructor, Epidemiology 292 (formerly Public Health 229), "Advanced Seminar in Epidemiology," UCLA
1980-2013	Instructor, Epidemiology 203 (formerly Public Health 223), "Topics in Theoretical Epidemiology," UCLA

Doctoral Students Graduated

Marc Rosenthal (1984), Gordon Dwight Honda (1986), George M. Maldonado (1990), Alberto Salvan (1990), Victoria K. Cortessis (1993), Marshall Michael Joffe (1994), John Stuart Witte (1994), Wendy McKelvey (1996), Corinne C. Aragaki (1997), Anne L. Coleman (1997), Manuela Gago-Dominguez (1998), Jose Esteban Castellao (1998), Jose Eduardo Moncau (1999), Lisa Viola Smith (2000), Nina T. Harawa (2001), Ellen Thometz Rudy (2001), Jaana Marita Leppala (2002), Katherine J. Hoggatt (2005), Ari M. Lipsky (2009).