

## Edward L. Spitznagel, Jr.

Born: Cincinnati, Ohio, September 4, 1941.

### Education:

Xavier University, 1959-1962  
Awarded Bachelor of Science Degree (Summa Cum Laude), 1962  
University of Chicago, 1962-1965  
Awarded Master of Science Degree, 1963  
Awarded Ph.D. in Mathematics, 1965

### Scholarships and Fellowships:

Xavier University, 1959-1962  
Honorary Woodrow Wilson Fellow, 1962-1963  
National Science Foundation Fellow, 1962-1965

### Positions:

Assistant Professor of Mathematics  
Northwestern University, 1965-1969  
Associate Professor of Mathematics  
Washington University, 1969-1980  
Professor of Mathematics  
Washington University, 1980-present  
Joint appointment, Division of Biostatistics,  
Washington University School of Medicine, 1978-present

### Consulting Experience:

Litton Industries (USACDCEC, Fort Ord, CA)  
Price Waterhouse (Advanced Auditing Methods, NY)  
Mallinckrodt, Inc.  
St. Louis County Juvenile Court  
Monsanto Company  
American Red Cross  
Carboline Corporation  
Regional Justice Information Service  
Harris-Stowe State College  
Equal Employment Opportunity Commission  
American Optometric Association  
Petrolite Corporation  
U.S. Army Atmospheric Sciences Laboratory (White Sands, NM)  
St. Louis County Water Company  
Gateway Medical Research, Inc.  
MasterCard  
Missouri-American Water Company  
Capital City Water Company  
Kentucky-American Water Company  
Anheuser-Busch, Inc.  
Santa Clara County Mental Health Administration (San Jose, CA)  
and many law firms

Publications:

1. New impedance method for determining viscoelastic constants. *Rev. Sci. Inst.* **35**, 582-586 (1964). (With Potzick and Catanese)
2. Hall subgroups of certain families of finite groups. *Math. Z.* **97**, 259-290 (1967).
3. A new look at the fifteen puzzle. *Math. Mag.* **40**, 171-174 (1967).
4. Terminality of the maximal unipotent subgroups of Chevalley groups. *Math. Z.* **103**, 112-116 (1968).
5. Note on the alternating group. *Amer. Math. Monthly* **75**, 68-69 (1968).
6. A computer study of the orders of finite simple groups. *Math. Comp.* **22**, 669-671 (1968). (With Szygenda)
7. Density of finite simple group orders. *Math. Z.* **106**, 175-177 (1968). (With Dornhoff)
8. An experimental approach in the teaching of probability. *The Mathematics Teacher* **61**, 565-568 (1968).
9. Structure and terminality of the maximal unipotent subgroups of Steinberg groups. *Illinois J. Math.* **13**, 400-405 (1969).
10. Poisson integrals: rigor or mortis? *Amer. J. Phys.* **38**, 266-267 (1970). (With Hart)
11. An elementary proof that primes are scarce. *Amer. Math. Monthly* **77**, 396-397 (1970).
12. *Selected topics in mathematics*. Holt, Rinehart and Winston (1971).
13. Lognormal model for ascorbic acid requirements in man. *Bioscience* **21**, 981-984 (1971).
14. The uses of computing in a modernized probability and statistics course. *Proceedings of the Second Annual Conference on Computers in the Undergraduate Curricula*, 217-222 (1971).
15. Properties of a game based on Euclid's algorithm. *Math. Mag.* **46**, 87-92 (1973).
16. Use of a questionnaire-oriented research project in teaching undergraduate statistics. *Proceedings of the Fourth Annual Conference on Computers in the Undergraduate Curricula*, 352-357 (1973).
17. An inexpensive computer assist in teaching large enrollment mathematics courses. *Proceedings of Symposia in Applied Mathematics (American Mathematical Society)* **20**, 175-179 (1974).
18. Use of SAS in teaching a first course in statistics. *Proceedings of the First Annual Conference of SAS Users Group International*, 85-89 (1976).
19. Maintenance and analysis of anesthesia/surgery data with SAS. *Proceedings of the Third Annual Conference of SAS Users Group International*, 74-76 (1978). (With Owens)
20. K.W.I.C. indexes with SAS. *Proceedings of the Third Annual Conference of SAS Users Group International*, 267-270 (1978).

21. The use of loglinear and multivariate logistic models to assess the associations between HLA antigen responses and disease. *Proceedings of the 1978 American Statistical Association Section on Statistical Computing*, 271-275 (1978). (With Miller and Kass)
22. ASA physical status classifications: a study of consistency of ratings. *Anesthesiology* **49**, 239-243 (1978). (With Owens and Felts)
23. Interfacing SAS with Mark IV. *Proceedings of the Fourth Annual Conference of SAS Users Group International*, 41-44 (1979).
24. SAS as a management tool for course registration and grading. *Proceedings of the Fourth Annual Conference of SAS Users Group International*, 158-161 (1979).
25. Tally of ASA classification responses. *Anesthesiology* **51**, 181 (1979). (With Owens and Felts)
26. Outcome studies of anesthesia - Washington University. in *Health Care Delivery In Anesthesia*, edited by R. A. Hirsh, W. H. Forrest, Jr., F. K. Orkin, and H. Wollman. George F. Stickley Co. 67-72 (1980). (With Owens)
27. Morphological and biochemical studies in the development of cholinergic properties in cultured sympathetic neurons I. Correlative changes in choline acetyltransferase and synaptic vesicle cytochemistry. *J. Cell Biology* **84**, 680-691 (1980). (With Johnson et al.)
28. Letter to the editor regarding the Mahoney, Bird and Cooke article: Annual clinical examination - the best available screening test for breast cancer (*N. Engl. J. Med.* **301**, 315-316 (1979)). *New England Journal of Medicine* **302**, 60 (1980). (With Gohagan et. al.)
29. Anesthetic side effects and complications: An overview. in *Anesthetic Side Effects and Complications: Seeking, Finding, and Treating*, edited by W. D. Owens. Little, Brown and Company. 1-9 (1980). (With Owens)
30. A SAS macro for computing the kappa statistic to assess reliability. *Proceedings of the Fifth Annual Conference of SAS Users Group International*, 159-163 (1980). (With Rice and Helzer)
31. Computer generated repeatable examinations. *Proceedings of the Fifth Annual Conference of SAS Users Group International*, 438-442 (1980).
32. Shaded map reports. *Proceedings of the Fifth Annual Conference of SAS Users Group International*, 475-481 (1980).
33. Individual and combined effectiveness of palpation, thermography, and mammography in breast cancer screening. *Preventive Medicine* **9**, 713-721 (1980). (With Gohagan et al.)
34. Effect of pedaling rate on submaximal exercise responses of competitive cyclists. *J. Appl. Physiol.* **51**, 447-451 (1981). (With Hagberg et al.)
35. Simulation of population genetics models with SAS. *Proceedings of the Sixth Annual Conference of SAS Users Group International*, 605-606 (1981).
36. Optimal strategies for breast cancer detection. in *Systems Science in Health Care*, edited by C. Tilquin. Pergamon Press. 321-330 (1981). (With Gohagan et al.)

37. Computer graphics in selection of screening strategies. *Proceedings of the Seventh Annual Conference of SAS Users Group International*, 167-170 (1982). (With Gohagan)
38. Optimal stratified sampling, with an application to auditing. *Proceedings of the Seventh Annual Conference of SAS Users Group International*, 415-417 (1982).
39. *Early Detection of Breast Cancer: Risk, Detection Procedures, and Therapeutic Implications*. Praeger Publishers (1982). (With Gohagan et al.)
40. Plasma epinephrine and norepinephrine levels during anesthesia - enflurane-N<sub>2</sub>O-O<sub>2</sub> compared with fentanyl-N<sub>2</sub>O-O<sub>2</sub>. *Anesth. Anal.* **61**, 366-370 (1982). (With Brown et al.)
41. Heterogeneity in schizophrenia - a cluster-analytic approach. *Psychiat. R.* **8**, 1-12 (1983). (With Farmer and McGuffin)
42. SAS methods for balanced repeated replications. *Proceedings of the Eighth Annual Conference of SAS Users Group International*, 844-847 (1983).
43. Breast self examination as a screening procedure. *Third International Conference on System Science in Health Care*, 455-458 (1984). (With Gohagan et al.)
44. ROC analysis of mammography alone and in combination with clinical palpation for breast screening. *Third International Conference on System Science in Health Care*, 463-466 (1984). (With Gohagan et al.)
45. Experimental design for the evaluation of nuclear magnetic resonance imaging in clinical medicine. *Third International Conference on System Science in Health Care*, 881-884 (1984). (With Gohagan et al.)
46. Graphic representation of logistic regression models. *Proceedings of the Ninth Annual Conference of SAS Users Group International*, 870-873 (1984). (With Gohagan et al.)
47. Utilization patterns of health maintenance organization disenrollees. *Medical Care* **22**, 827-833 (1984). (With Griffith and Baloff)
48. ROC analysis of mammography and palpation for breast screening. *Invest Radiol* **19**, 587-592 (1984). (With Gohagan et al.)
49. A proposed solution to the base rate problem in the kappa statistic. *Arch Gen Psychiatry* **42**, 725-728 (1985). (With Helzer)
50. A comparison of clinical and Diagnostic Interview Schedule diagnoses: Physician reexamination of lay-interviewed cases in the general population. *Arch Gen Psychiatry* **42**, 657-666 (1985). (With Helzer et al.)
51. A mouse embryo culture system for quality control testing of human in vitro fertilization and embryo transfer media and fetal cord sera. *Gamete Research* **11**, 411-419 (1985). (With Cheung et al.)
52. Comparison of variance estimation methods for complex sample designs under extreme conditions. *Proceedings of the Tenth Annual Conference of SAS Users Group International*, 1084-1088 (1985).

53. Sampling the household population. in *Epidemiologic Field Methods in Psychiatry: The NIMH Epidemiologic Catchment Area Program*, edited by W. Eaton and L. Kessler. Academic Press. 23-48 (1985). (With Holzer et al.)
54. Sampling: The institutional survey. in *Epidemiologic Field Methods in Psychiatry: The NIMH Epidemiologic Catchment Area Program*, edited by W. Eaton and L. Kessler. Academic Press. 49-66 (1985). (With Leaf et al.)
55. Statistical methods for estimating and extrapolating disease prevalence and incidence rates from a multisite study. in *Epidemiologic Field Methods in Psychiatry: The NIMH Epidemiologic Catchment Area Program*, edited by W. Eaton and L. Kessler. Academic Press. 351-373 (1985). (With Manton et al.)
56. Staging parameters for cancers of the head and neck: a multi-factorial analysis. *Laryngoscope* **95**, 1378-1381 (1985). (With Jacobs and Sessions)
57. Radiogenic breast cancer effects of mammographic screening. *Journal of the National Cancer Institute* **77**, 71-76 (1986). (With Gohagan et al.)
58. Difficult-to-recruit respondents and their effect on prevalence estimates in an epidemiologic survey. *American Journal of Epidemiology* **125**, 329-339 (1987). (With Cottler et al.)
59. Left globus pallidus abnormality in never-medicated patients with schizophrenia. *Proc Natl Acad Sci USA* **84**, 561-563 (1987). (With Early et al.)
60. Multispectral analysis of MR images of the breast. *Radiology* **163**, 703-707 (1987). (With Gohagan et al.)
61. The predictive validity of lay Diagnostic Interview Schedule diagnoses in the general population. *Arch Gen Psychiatry* **44**, 1069-1077 (1987). (With Helzer and McEvoy)
62. The effect of medication compliance on the control of hypertension. *Journal of General Internal Medicine* **2**, 298-305 (1987). (With Eisen et al.)
63. Teaching biostatistics with an emphasis on reading the medical literature. *Proceedings of the 1987 American Statistical Association Section on Statistical Education*, 111-115 (1987). (With Schechtman)
64. Evidence that the biliary migrating myoelectric complex (MMC) is preserved after feeding. *Gastroenterology* **95**, 894 (1988). (With Zenilman et al.)
65. Scheduling mammograms for asymptomatic women. *Preventive Medicine* **17**, 155-172 (1988). (With Gohagan et al.)
66. Increased fentanyl requirement in patients receiving long-term anticonvulsant therapy. *Anesthesiology Review* **15**, 54-55 (1988). (With Tempelhoff and Modica)
67. Accelerated train of four recovery from atracurium in patients receiving long-term anticonvulsant therapy. *Anesthesiology Review* **15**, 55-56 (1988). (With Modica and Tempelhoff)
68. Antimicrobial misuse in patients with positive blood cultures. *The American Journal of Medicine* **87**, 253-259 (1989). (With Dunagan et al.)

69. Exclusion of chromosomal mosaicism in amniotic-fluid cultures – efficacy of insitu versus flask techniques. *Prenatal Diagnosis* **10**, 41-57 (1990). (With Cheung et al.)
70. Anticonvulsant therapy increases fentanyl requirements during anesthesia for craniotomy. *Can J Anaesth* **37**, 327-332 (1990). (With Tempelhoff and Modica)
71. Nitrous oxide, nausea, and vomiting after outpatient gynecologic surgery. *J Clin Anesth* **2**, 168-171 (1990). (With Felts and Poler)
72. The relation of ulcerative colitis to psychiatric factors: a review of findings and methods. *Am J Psychiatry* **147**, 974-981 (1990). (With North et al.)
73. Clinical classification and staging for primary malignancies of the maxillary antrum. *Laryngoscope* **100**, 1106-1111 (1990). (With Zamora et al.)
74. Time-series analysis of myoelectric cycling of sphincter of Oddi: evidence of cycling during fed state. *Am J Physiology* **259**, 511-517 (1990). (With Zenilman et al.)
75. The effect of prescribed daily dose frequency on patient medication compliance. *Arch Intern Med* **150**, 1881-1884 (1990). (With Eisen et al.)
76. Resistance to atracurium-induced neuromuscular blockade in patients with intractable seizure disorders treated with anticonvulsants. *Anesthesia and Analgesia* **71**, 665-669 (1990). (With Tempelhoff et al.)
77. *California Mental Health Needs* **1**, 1-182. California Department of Mental Health (1990). (With Meinhardt and Jerrell).
78. *California Mental Health Needs* **2**, 1-467. California Department of Mental Health (1990). (With Meinhardt and Jerrell).
79. Comments on psychiatric aspects of ulcerative colitis - reply. *Am J Psychiatry* **148**, 688 (1991). (With North et al.)
80. Do life events or depression exacerbate inflammatory bowel disease? *Annals of Internal Medicine* **114**, 381-386 (1991). (With North et al.)
81. Antibiotic misuse in two clinical situations - positive blood culture and administration of aminoglycosides. *Reviews of Infectious Diseases* **13**, 405-412 (1991). (With Dunagan et al.)
82. Agreement between DSM-III and III-R substance use disorders. *Drug and Alcohol Dependence* **29**, 17-25 (1991). (With Cottler et al.)
83. New methods in cross-cultural psychiatry: Psychiatric illness in Taiwan and the United States. *Am J Psychiatry* **148**, 1697-1704 (1991). (With Compton et al.)
84. Surgical pathology of cancer of the oral cavity and oropharynx. *Laryngoscope* **101**, 1175-1197 (1991). (With Sessions et al.)
85. Sensitivity of chromosomal mosaicism detected by different tissue-culture methods. *Prenatal Diagnosis* **11**, 927-928 (1991). (With Cheung et al.)

86. Are hard-to-interview street dwellers needed in assessing psychiatric disorders in homeless men? *International Journal of Methods in Psychiatric Research* **1**, 69-78 (1991). (With Smith and North)
87. Gender differences in sociopathy and somatization in men and women with homosexual experience. *International Journal of Methods in Psychiatric Research* **1**, 89-99 (1991). (With North et al.)
88. Anticoagulant effects of nonionic versus ionic contrast-media in angiography syringes. *Investigative Radiology* **27**, 185 (1992).
89. Posttraumatic stress disorder among substance users from the general population. *Am J Psychiatry* **149**, 664-670 (1992). (With Cottler et al.)
90. A systematic study of mental illness, substance abuse, and treatment in 600 homeless men. *Annals of Clinical Psychiatry* **4**, 111-120 (1992). (With Smith and North)
91. Clinical staging for primary malignancies of the supraglottic larynx. *Laryngoscope* **103**, 69-77 (1993). (With Zamora et al.)
92. Symptomatic cytomegalovirus infection in renal transplant recipients given either Minnesota antilymphoblast globulin (MALG) or OKT3 for rejection prophylaxis. *American Journal of Kidney Diseases* **21**, 196-201 (1993). (With Bailey et al.)
93. Alcohol, drugs, and psychiatric comorbidity among homeless women. *J Clin Psychiatry* **54**, 82-87 (1993). (With Smith and North)
94. Is antisocial personality a valid diagnosis among the homeless? *Am J Psychiatry* **150**, 578-583 (1993). (With North and Smith)
95. Post-traumatic stress in survivors of three disasters. *Journal of Social Behavior and Personality* **8**, 353-368 (1993). (With Smith and North)
96. Cytomegalovirus infection and pneumonitis. *Am Rev Respir Dis* **147**, 1017-1023 (1993). (With Ettinger et al.)
97. Epidermoid carcinoma of the oral cavity and oropharynx: validity of the current AJCC staging system and new statistical tools for the prediction of subclinical neck disease. *Otolaryngology and Head and Neck Surgery* **108**, 225-232 (1993). (With Ghouri et al.)
98. Results of a rubella screening program for hospital employees: a five-year review (1968-1990). *American Journal of Epidemiology* **138**, 756-764 (1993). (With Fraser et al.)
99. Subjective reports of withdrawal among cocaine users: recommendations for DSM-IV. *Drug and Alcohol Dependence* **33**, 97-104 (1993). (With Cottler et al.)
100. Posttraumatic stress disorder in survivors of a mass shooting. *Am J Psychiatry* **151**, 82-88 (1994). (With North and Smith)
101. Violence and the homeless: an epidemiologic study of victimization and aggression. *Journal of Traumatic Stress* **7**, 95-110 (1994). (With North and Smith)
102. On-site PT, aPTT and platelet count: A comparison between whole blood and laboratory assays with coagulation factor analysis in patients presenting for cardiac surgery. *Anesthesiology* **80**, 338-351 (1994). (With Despotis et al.)

103. Prospective evaluation and clinical utility of on-site coagulation monitoring in patients undergoing cardiac operation. *J Thorac Cardiovasc Surg* **107**, 271-279 (1994). (With Despotis et al.)
104. Two-compartment pharmacokinetics. *Proceedings of the Fifth Annual International Conference on Technology in Collegiate Mathematics*, edited by L. Lum. Addison-Wesley Publishing Company. 417-420 (1994).
105. Inhalant use: characteristics and predictors. *American Journal on Addictions* **3**, 263-272 (1994). (With Compton et al.)
106. Prediction of occult neck disease in laryngeal cancer by means of a logistic regression statistical model. *Laryngoscope* **104**, 1280-1284 (1994). (With Ghouri et al.)
107. Comparison of activated coagulation time and whole blood heparin measurements to laboratory plasma anti-Xa heparin concentration in cardiac surgical patients. *J Thorac Cardiovasc Surg* **108**, 1076-1082 (1994). (With Despotis et al.)
108. GAP: groups, algorithms, and programming (review). *Notices Amer Math Soc* **41**, 780-782 (1994).
109. Prediction of subclinical neck disease in laryngeal cancer patients using a logistic regression statistical model. in *Laryngeal Cancer: Proceedings of the 2nd World Congress on Laryngeal Cancer, Sydney, 20-24 February 1994*, edited by R. Smee and G.P. Bridger. Elsevier Science B.V. 570-573 (1994). (With Ghouri et al.)
110. Predictors of mortality in alcoholic women: a 20-year follow-up study. *Alcoholism, Clinical and Experimental Research* **18**, 1177-1186 (1994). (With Smith et al.)
111. Improvement in user performance following development and routine use of an expert system. *Medinfo* **8**, 1064-1067 (1994). (With Kahn et al.)
112. Exclusion of chromosomal mosaicism in amniotic fluid cultures – determination of number of colonies needed for accurate analysis. *Prenatal Diagnosis* **14**, 1009-1017 (1994). (With Featherstone et al.)
113. Adult offspring of alcoholic women as family history informants. *Alcoholism, Clinical and Experimental Research* **18**, 1354-1360 (1994). (With Smith et al.)
114. The impact of heparin concentration and activated clotting time monitoring on blood conservation: A prospective, randomized evaluation in patients undergoing cardiac operation. *J Thorac Cardiovasc Surg* **110**, 46-54 (1995). (With Despotis et al.)
115. Risk factors for a positive tuberculin skin test among employees of an urban, midwestern teaching hospital. *Annals of Internal Medicine* **122**, 580-585 (1995). (With Bailey et al.)
116. Predictors of mortality in alcoholic men: a 20-year follow-up study. *Alcoholism, Clinical and Experimental Research* **19**, 984-991 (1995). (With Lewis et al.)
117. Complaints of constipation in obsessive-compulsive disorder. *Annals of Clinical Psychiatry* **7**, 65-70 (1995). (With North et al.)



118. Is there a relationship between “heavy drinking” and HIV high risk sexual behaviors among general population subjects? *The International Journal of the Addictions* **30**, 1453-1478 (1995). (With Shillington et al.)
119. Assessing gender interactions in the prediction of mortality in alcoholic men and women: a 20-year follow-up study. *Alcoholism, Clinical and Experimental Research* **19**, 1162-1172 (1995). (With Lewis et al.)
120. Factors associated with excessive postoperative blood loss and hemostatic transfusion requirements - a multivariate analysis in cardiac surgical patients. *Anesthesia and Analgesia* **82**, 13-21 (1996). (With Despotis et al.)
121. Comparing assessments of DSM-IV substance dependence disorders using CIDI-SAM and SCAN. *Drug and Alcohol Dependence* **41**, 179-187 (1996). (With Compton et al.)
122. Effects of gender and comorbidity on problem drinking in a community sample. *Alcoholism, Clinical and Experimental Research* **20**, 466-476 (1996). (With Lewis et al.)
123. Response of kaolin ACT to heparin: evaluation with an automated assay and higher heparin doses. *Ann Thorac Surg* **61**, 795-799 (1996). (With Despotis et al.)
124. Gastrointestinal symptoms and psychiatric disorders in the general population - findings from the NIMH epidemiologic catchment area project. *Digestive Diseases and Sciences* **41**, 633-640 (1996). (With North et al.)
125. Aprotinin prolongs activated and nonactivated whole blood clotting time and potentiates the effect of heparin in vitro. *Anesthesia and Analgesia* **82**, 1126-1131 (1996). (With Despotis et al.)
126. Are the mentally ill homeless a distinct homeless subgroup? *Annals of Clinical Psychiatry* **8**, 117-128 (1996). (With North et al.)
127. Increasing brain tumor rates: Is there a link to aspartame? *Journal of Neuropathology and Experimental Neurology* **55**, 1115-1123 (1996). (With Olney et al.)
128. Structured and semi-structured assessment of ICD-10 substance dependence disorders: CIDI-SAM vs. SCAN. *International Journal of Methods in Psychiatric Research* **6**, 285-293 (1996). (With Compton et al.)
129. Evaluation of a new point-of-care test that measures PAF-mediated acceleration of coagulation in cardiac surgical patients. *Anesthesiology* **85**, 1311-1323 (1996). (With Despotis et al.)
130. More effective suppression of hemostatic system activation in patients undergoing cardiac surgery by heparin dosing based on heparin blood concentrations rather than ACT. *Thrombosis and Haemostasis* **76**, 902-908 (1996). (With Despotis et al.)
131. The effects of cytomegalovirus serology on graft and recipient survival in cadaveric renal transplantation: implications for organ allocation. *American Journal of Kidney Diseases* **29**, 428-434 (1997). (With Schnitzler et al.)
132. Predictors of achieving stable housing in a mentally ill homeless population. *Psychiatric Services* **48**, 528-530 (1997). (With Pollio et al.)

133. Antithrombin III during cardiac surgery: effect on response of activated clotting time to heparin and relationship to markers of hemostatic activation. *Anesthesia and Analgesia* **85**, 498-506 (1997). (With Despotis et al.)
134. Nonpsychotic thought disorder: objective clinical identification of somatization and antisocial personality in language patterns. *Compr Psychiatry* **38**, 171-178 (1997). (With North et al.)
135. Changes in HIV/AIDS risk behaviors in drug users in St. Louis: applications of random regression models. *J Drug Issues* **27**, 399-416 (1997). (With Gallagher et al.)
136. Whole blood heparin concentration measurements by automated protamine titration agree with plasma anti-Xa measurements. *J Thorac Cardiovasc Surg* **113**, 611-613 (1997). (With Despotis et al.)
137. Impact of cytomegalovirus serology on graft survival in living related kidney transplantation: implications for donor selection. *Surgery* **121**, 563-568 (1997). (With Schnitzler et al.)
138. Homeless street people report conservative sexual attitudes yet anticipate risky behavior. *Psychiatric Rehabilitation Journal* **20**, 75-79 (1997). (With Song et al.)
139. One-year follow-up of survivors of a mass shooting. *Am J Psychiatry* **154**, 1696-1702 (1997). (With North and Smith)
140. Cytomegalovirus and HLA-A, B, and DR locus interactions: impact on renal transplant graft survival. *American Journal of Kidney Diseases* **30**, 766-771 (1997). (With Schnitzler et al.)
141. A comparison of clinical and structured interview diagnoses in a homeless mental health clinic. *Community Mental Health Journal* **33**, 531-543 (1997). (With North et al.)
142. Cocaine users with antisocial personality improve HIV risk behaviors as much as those without antisocial personality. *Drug and Alcohol Dependence* **49**, 239-247 (1998). (With Compton et al.)
143. The association of psychiatric diagnosis with weather conditions in a large urban homeless sample. *Soc Psychiatry Psychiatr Epidemiol* **33**, 206-210 (1998). (With North et al.)
144. Agreement between DSM-III and DSM-III-R substance use disorders. in *DSM-IV Sourcebook: Volume 4*, edited by T.A. Widiger et al. American Psychiatric Association. 29-42 (1998). (With Cottler et al.)
145. Taking chances: problem gamblers and mental health disorders—results from the St. Louis Epidemiologic Catchment Area Study. *Am J Public Health* **88**, 1093-1096 (1998). (With Cunningham-Williams et al.)
146. Importance of hemodynamic factors in the prognosis of symptomatic carotid occlusion. *JAMA* **280**, 1055-1060 (1998). (With Grubb et al.)
147. Correlates of early onset and chronicity of homelessness in a large urban homeless sample. *J Nerv Ment Dis* **186**, 393-400 (1998). (With North et al.)
148. Enrollment predictors of the special education outcome for students with SED. *Behavioral Disorders* **23**, 243-256 (1998). (With Mattison and Felix)
149. Substance abuse as a predictor of VA mental health care utilization among Vietnam veterans. *J Behav Health Serv Res* **26**, 126-139 (1999). (With Virgo et al.)

150. Long-term stability of Child Behavior Checklist profile types in a child psychiatric clinic population. *J Am Acad Child Adolesc Psychiatry* **38**, 700-707 (1999). (With Mattison)
151. Use of point-of-care test in identification of patients who can benefit from desmopressin during cardiac surgery: a randomized controlled trial. *Lancet* **354**, 106-110 (1999). (With Despotis et al.)
152. A randomized trial of povidone-iodine compared with iodine tincture for venipuncture site disinfection: effects on rates of blood culture contamination. *Am J Med* **107**, 119-125 (1999). (With Little et al.)
153. Psychiatric disorders among survivors of the Oklahoma City bombing. *JAMA* **282**, 755-762 (1999). (With North et al.)
154. Adverse events in platelet apheresis donors: A multivariate analysis in a hospital-based program. *Vox Sang* **77**, 24-32 (1999). (With Despotis et al.)
155. Development of a new staging system for recurrent oral cavity and oropharyngeal squamous cell carcinoma. *Cancer* **86**, 1387-1395 (1999). (With Lacy and Piccirillo)
156. The effects of psychiatric comorbidity on response to an HIV prevention intervention. *Drug and Alcohol Dependence* **58**, 247-257 (2000). (With Compton et al.)
157. Applying artificial neural network models to clinical decision making. *Psychological Assessment* **12**, 40-51 (2000). (With Price et al.)
158. The effect of epsilon-aminocaproic acid on HemoSTATUS and kaolin-activated clotting time measurements. *Anesthesia and Analgesia* **90**, 1281-1285 (2000). (With Saleem et al.)
159. Substance dependence and other psychiatric disorders among drug dependent subjects: race and gender correlates. *American Journal on Addictions* **9**, 113-125 (2000). (With Compton et al.)
160. Psychiatric disorders among drug dependent subjects: are they primary or secondary? *American Journal on Addictions* **9**, 126-134 (2000). (With Compton et al.)
161. Evidence for the involvement of two different MHC class II regions in susceptibility or protection in allergic bronchopulmonary aspergillosis. *J Allergy Clin Immunol* **106**, 723-729 (2000). (With Chauhan et al.)
162. Service use over time and achievement of stable housing in a mentally ill homeless population. *Psychiatric Services* **51**, 1536-1543 (2000). (With Pollio et al.)
163. Problem gambling and comorbid psychiatric and substance use disorders among drug users recruited from drug treatment and community settings. *Journal of Gambling Studies* **16**, 347-376 (2000). (With Cunningham-Williams et al.)
164. Longitudinal use of the Teacher's Report Form in tracking outcome for students with SED. *Journal of Emotional and Behavioral Disorders* **9**, 94-105 (2001). (With Mattison)
165. Effect of extended coverage of immunosuppressive medication by Medicare on the survival of cadaveric renal transplants. *American Journal of Transplantation* **1**, 69-73 (2001). (With Woodward et al.)

166. The association of irritable bowel syndrome and somatization disorder. *Ann Clin Psychiatry* **13**, 25-30 (2001). (With Miller et al.)
167. Remission from drug abuse over a 25-year period: patterns of remission and treatment use. *Am J Public Health* **91**, 1107-1113 (2001). (With Price et al.)
168. Laboratory screening prior to ECT. *The Journal of ECT* **17**, 158-165 (2001). (With Lafferty et al.)
169. Validation of a comorbidity education program. *Journal of Registry Management* **28**, 125-131 (2001). (With Johnston et al.)
170. A prospective study of coping after exposure to a mass murder episode. *Ann Clin Psychiatry* **13**, 81-87 (2001). (With North and Smith)
171. Twenty-five year mortality of US servicemen deployed in Vietnam: predictive utility of early drug use. *Drug and Alcohol Dependence* **64**, 309-318 (2001). (With Price et al.)
172. Photic and circadian expression of luciferase in MPeriod1-luc transgenic mice invivo. *Proc Natl Acad Sci USA* **99**, 489-494 (2002). (With Wilsbacher et al.)
173. Psychiatric disorders in rescue workers after the Oklahoma City bombing. *Am J Psychiatry* **159**, 857-859 (2002). (With North et al.)
174. Multivariate analysis to assess treatment effectiveness in advanced head and neck cancer. *Arch Otolaryngol Head Neck Surg* **128**, 497-503 (2002). (With Patel and Piccirillo.)
175. The specificity of family history of alcohol and drug abuse in cocaine abusers. *Am J Addict* **11**, 85-94 (2002). (With Compton et al.)
176. Coping, functioning, and adjustment of rescue workers after the Oklahoma City bombing. *J Trauma Stress* **15**, 171-175 (2002). (With North et al.)
177. Three-year follow-up of survivors of a mass shooting episode. *J Urban Health* **79**, 383-391 (2002). (With North et al.)
178. Test of the plausibility of adolescent substance use playing a causal role in developing adulthood antisocial behavior. *J Abnorm Psychol* **111**, 144-155 (2002). (With Ridenour et al.)
179. Development of a new head and neck cancer-specific comorbidity index. *Arch Otolaryngol Head Neck Surg* **128**, 1172-1179 (2002). (With Piccirillo et al.)
180. The clinical picture of depression in preschool children. *J Am Acad Child Adolesc Psychiatry* **42**, 340-348 (2003). (With Luby et al.)
181. Personality and depressive symptoms: a multi-dimensional analysis. *J Affect Disord* **74**, 123-130 (2003). (With Grucza et al.)
182. The role of psychiatric disorders in predicting drug dependence treatment outcomes. *Am J Psychiatry* **160**, 890-895 (2003). (With Compton et al.)
183. Is there a progression from abuse disorders to dependence disorders? *Addiction* **98**, 635-644 (2003). (With Ridenour et al.)

184. Modification of DSM-IV criteria for depressed preschool children. *Am J Psychiatry* **160**, 1169-1172 (2003). (With Luby et al.)
185. Improved glucose tolerance with lifetime diet restriction favorably affects disease and survival in dogs. *J Nutr* **133**, 2887-2892 (2003). (With Larson et al.)
186. Evaluation of gene expression measurements from commercial microarray platforms. *Nucleic Acids Res* **19**, 5676-5684 (2003). (With Tan et al.)
187. Alterations in stress cortisol reactivity in depressed preschoolers relative to psychiatric and no-disorder comparison groups. *Arch Gen Psychiatry* **60**, 1248-1255 (2003). (With Luby et al.)
188. Incorporation of gene-specific variability improves expression analysis using high-density DNA microarrays. *BMC Biol* **1**, 1 (2003). (With Budhraja et al.)
189. Modeling service access in a homeless population. *J Psychoactive Drugs* **35**, 487-495 (2003). (With Pollio et al.)
190. Are rates of psychiatric disorders in the homeless population changing? *Am J Public Health* **94**, 103-108 (2004). (With North et al.)
191. Comparison of comorbidity indexes for patients with head and neck cancer. *Med Care* **42**, 482-486 (2004). (With Piccirillo et al.)