

CURRICULUM VITAE
PETER A. LACHENBRUCH

DATE OF PREPARATION: September 2, 2010

PERSONAL DATA:

Citizenship Status: United States

Married, one adult child

EDUCATION:

1954-55		Occidental College, Los Angeles, CA
1955-58	B.A.	Univ. of California, Los Angeles, CA (Math)
1958-61	M.S.	Lehigh University, Bethlehem, PA (Math)
1962-65	Ph.D.	University of California, Los Angeles, CA (Biostatistics)

PRINCIPAL POSITIONS:

9-58 to 6-59	Graduate Assistant in Mathematics, Lehigh University, Bethlehem, Pennsylvania
9-62 to 5-65	U.S.P.H.S. Fellow in Biostatistics, University of California, Los Angeles, School of Public Health
6-65 to 5-70	Assistant Professor, Department of Biostatistics, Univ. of North Carolina
6-70 to 5-75	Associate Professor, Department of Biostatistics, Univ. of North Carolina
6-75 to 6-76	Professor, Department of Biostatistics, University of North Carolina
6-76 to 6-85	Professor and Head, Biostatistics, Department of Preventive Medicine and Environmental Health, University of Iowa
6-85 to 7-94	Professor, Department of Biostatistics, School of Public Health, University of California, Los Angeles
7-91 to 7-92	Chairman, Department of Biostatistics, School of Public Health, University of California, Los Angeles
7-94 to -9-99	Chief, Biostatistics Branch, Division of Biostatistics and Epidemiology Branch, Center for Biologics Research and Review, Food and Drug Administration
9-96 to -9-06	Senior Biological Research Scientist, Food and Drug Administration
1-97 to -6-06	Adjunct Professor, Department of Biostatistics, Johns Hopkins University, Bloomberg School of Public Health
10-99 to -9-06	Director, Division of Biostatistics, Center for Biologics Research and Review, Food and Drug Administration
10-06-6-06	Mathematical Statistician (part-time) Division of Biostatistics, Center for Biologics Research and Review, Food and Drug Administration
7-06-present	Professor, Department of Public Health, Oregon State University

OTHER PROFESSIONAL POSITIONS:

6-59 to 3-60	Programmer, Douglas Aircraft Company, Santa Monica, CA
3-60 to 6-61	Senior Operations Research Analyst, System Development Corporation, Santa Monica, CA
6-61 to 6-62	Associate Research Scientist, American Institute for Research, Los Angeles, CA
6-62 to 9-62	Programmer, Health Sciences Computing Facility, Univ. of California, Los Angeles

EDITORIAL POSITIONS:

Associate Editor, Methods of Information in Medicine, 1978 - 2009
Associate Editor, Statistics in Medicine, 1986 - present
Associate Editor, Computational Statistics and Data Analysis, 1988 - 1998
Associate Editor (book reviews), Journal of the American Statistical Association,
1989 - 1993
Associate Editor, Journal of Statistical Education (published by ASA), 1993-1996
Editor, Personal Crunching Column, Chance Magazine, 1994-95
Senior Associate Editor, Chance Magazine, 1995-1999
Editorial Board, Controlled Clinical Trials, 1996-2005
Editorial Board, Statistical Methods in Medical Research, 1999-present
Editorial Board, Journal of Biopharmaceutical Statistics, 2001-2009
Associate Editor, Biometrical Journal, 2000-present
Associate Editor, The Stata Journal, 2010-present

HONORS AND AWARDS:

1958-1959 Graduate Assistant in Mathematics (Lehigh University)
1962-1965 USPHS Fellow in Biostatistics (UCLA)
1967 Elected Membership to Sigma Xi
1969 Vice President North Carolina Chapter of the American
Statistical Association
1970 President of North Carolina Chapter of the American
Statistical Association
1970 Elected Membership in the International Union for the Scientific Study of Population
1971 Mortimer Spiegelman Award of APHA
1979 Fellow, American Statistical Association
1983 Elected to Membership, International Statistical Institute
1983 President Elect, Eastern North American Region (ENAR) of the International Biometrics Society
1984 President, ENAR
1991 Lowell J. Reed Lecturer, APHA Statistics Section
1996 Appointed Senior Biomedical Research Scientist in FDA
1997 FDA Award of Merit
1997 FDA Commendable Service Award
1998 FDA Commendable Service Award
1999 CBER Technical Excellence Award
1999 FDA Group Recognition Award (Fast Track Working Group)
1999 FDA Center Director's Distinguished Service Award (Gropup)
2000 CBER Certificate of Appreciation for teaching Basic Biostatistics Course
2000 FDA Commendable Service Award (group)
2001 CBER Award for Managerial Excellence
2002 FDA Group Recognition Award (Anthrax Vaccine availability)
2002 FDA Group Recognition Award (Smallpox Vaccine Availability)
2002 FDA Group Recognition Award (Blood Coagulation Factors Potency Standards)
2005 CBER Center Director's Award for Distinguished Service
2007 President-Elect, American Statistical Association
2008 President, American Statistical Association
2009 Past-President, American Statistical Association
2009 President Elect, Western North American Region (WNAR) of the International Biometrics
Society
2010 President, Western North American Region (WNAR) of the International Biometrics Society

RESEARCH INTERESTS:

Statistics for Regulatory Applications; Discriminant Analysis; Statistical Epidemiology; Survival Analysis, Missing values, Applications of Statistics to Rheumatology, Cancer, Environmental Science, Psychiatry

PUBLICATIONS:

A. Journal Articles

1. Wilson A.M., G. Saver, and P.A. Lachenbruch (1965) "Residential mobility and psychiatric help seeking," (ABSTRACT) American Journal of Psychiatry, **121**(11):1108-1109.
2. Lachenbruch, P. A., (1966) "Discriminant analysis when the initial samples are misclassified," Technometrics, **8**(4): 657-662.
3. Lachenbruch, P.A. (1967) "An almost unbiased method of obtaining confidence intervals for the probability of misclassification in discriminant analysis," Biometrics, **23**(4): 639-645.
4. Stern, E., P.A. Lachenbruch, and W.J. Dixon (1967) "Cancer of the uterine cervix II. A biometric approach to etiology," Cancer, **20**(2): 190-201.
5. Lachenbruch, P.A. (1967) "Frequency and timing of intercourse: Its relationship to the probability of conception," Population Studies, **21**(a): 23-31.
6. Lachenbruch, P. A., and M. R. Mickey (1968) "Estimation of error rates in discriminant analysis," Technometrics, **10**(1).
7. Lachenbruch, P. A. (1968) "On expected probabilities of misclassification in discriminant analysis, necessary sample size, and a relation with the multiple correlation coefficient," Biometrics, **24**(4): 823-834.
8. Stern, E., and P. A. Lachenbruch (1968) "Circumcision information in a cancer detection center population," The Journal of Chronic Disease, **21**: 117-124.
9. Lachenbruch, P. A., and H. A. David (June 1968) "The non-central distribution of range and studentized range in normal samples," (ABSTRACT) Annals of Mathematical Statistics.
10. Glasser, J.H., and P. A. Lachenbruch (1968) "Observation on the relationships between frequency and timing of intercourse and the probability of conception," Population Studies, **22**(3): 399-407.
11. Hamilton, G. F., and P. A. Lachenbruch (1969) "Reliability of goniometers in assessing finger joint angle," Journal of the American Physical Therapy Association, **49**(5): 465-469.
12. Lachenbruch, P. A. (1969) "Tables of simultaneous confidence limits for the binomial and Poisson distributions," Biometrika, **56**(2): 452.
13. Gabriel, K. R., and P. A. Lachenbruch (1969) "Non-parametric ANOVA in small samples: A Monte Carlo study of the adequacy of the asymptotic approximation," Biometrics, **25**(3): 593-596.
14. Jarrahi-Zadeh, A., F. J. Kane, R. L. Van De Castle, P. A. Lachenbruch, and J. A. Ewing (1969) "Emotional and cognitive changes in pregnancy and early puerperium," British Journal of Psychiatry, **115**(524): 797-805.

15. Lachenbruch, P. A., and D. R. Brogan (February 1971) "Some distributions on the positive real line which have no moments," The American Statistician, p. 47-47.
16. Kane, F. J., P. A. Lachenbruch, L. Lokey, N. Chafetz, R. Auman, L. Pocuis, and M. A. Lipton (1971) "Motivational factors affecting contraceptive use," American Journal of Obstetrics and Gynecology, **110**(8): 1050-1054.
17. Kane, F. J., P. A. Lachenbruch, L. Lokey, N. Chafetz, R. Auman, L. Pocuis, and M. A. Lipton (1971) "Post-partum depression in southern black women," Diseases of the Nervous System, **32**: 486-489.
18. David, H. A., P. A. Lachenbruch, and H. P. Brandis (1972) "The power function of range and studentized range tests in normal samples," Biometrika, **59**(1): 161-168.
19. Lachenbruch, P. A., C. Sneeringer, and L. T. Revo (1973) "Robustness of the linear and quadratic discriminant function to certain types of non-normality," Communications in Statistics - Theor. Meth. **1**(1): 39-56.
20. Lachenbruch, P. A., and L. L. Kupper (1973) "Discriminant analysis when one population is a mixture of normals," Biometrische Zeitschrift, **5**(3): 191-197.
21. Lachenbruch, P. A. (1973) "A relation between the correlation coefficient and the t-test using an indicator variable," Biometrische Zeitschrift, **15**(4): 243-244.
22. Kane, F. J., and P. A. Lachenbruch (1973) "Adolescent pregnancy: A study of aborters and non-aborters," American Journal of Orthopsychiatry, **43**(5): 796-803.
23. Hulka, J. F., H. T. Lefler, A. Anglone, and P. A. Lachenbruch (1974) "A new electronic force monitor to measure factors influencing cervical dilation for vacuum curettage," American Journal of Obstetrics and Gynecology, **120**(2): 166-173.
24. Lachenbruch, P. A. (1974) "Discriminant analysis when the initial samples are misclassified II: Non-random misclassification models," Technometrics, **16**(3): 419-424.
25. Suchindran, C. M., and P.A. Lachenbruch (1974) "Estimates of parameters in a probability model for first live birth interval," Journal of the American Statistical Association, 69(346):507-513.
26. Cleveland, W. S., and P.A. Lachenbruch (1974), "A measure of divergence among several populations," Communications in Statistics 33:201-211.
27. Perry JF, Hamilton GF, Lachenbruch PA, Bevin AG (1974) "Protective sensation in the hand and its correlation with the ninhydrin sweat test" Am J Phys Med. Jun;53(3):113-8..
28. Suchindran, C. M., and P.A. Lachenbruch (1975) 'Estimates of fecundability from a truncated distribution of conception times,' Demography, 12(2):291-301.
29. Lachenbruch, P.A. (1975) 'Estimation of parameters of the Poisson with excess zeroes and negative binomial with excess zeroes distributions,' Biometrische Zeitschrift, 17(6):339-344.
30. Ahmed, S.W., and P.A. Lachenbruch (1975) "Discriminant analysis when one or both of the initial samples is contaminated: Large sample results," EDV in Medizin und Biologie, 1/2:35-42.
31. Lachenbruch, P.A. (1975) 'Zero-mean difference discrimination and the absolute linear discriminant function,' Biometrika, 62(2):397-401.

32. Lachenbruch, P.A. (1976) "Analysis of data with clumping at zero," Biometrische Zeitschrift, 18(5):351-356.
33. Hochberg, Y., and P.A. Lachenbruch (1976) "Two stage multiple comparison procedures based on the studentized range," Communications in Statistics - Theory and Methods, A5(15):1447-1453.
34. Lachenbruch, P.A. (1977) 'Some misuses of discriminant analysis," Methods of Information in Medicine 16(4):255-258.
35. Lachenbruch, P.A., C. M. Suchindran, J.W. Lingner, and E.B. Perrin (1977), "Use of models in evaluation of fertility dynamics: A Review," Genus, XXXIII(L -2):49-71.
36. Abramson, M., P.A. Lachenbruch, B.H.J. Press, and B.F. McCabe (1977), "Results of conservative surgery for middle ear cholesteatoma," The Laryngoscope, LXXXVII(8):1281-1287.
37. Lachenbruch, P.A. (1977) "Covariance adjusted discriminant functions," Annals of the Institute of Statistical Mathematics, Japan, 29(2A):247-257.
38. Lachenbruch, P.A. (1979) "Note on initial misclassification effects on the quadratic discriminant function," Technometrics, 21(1):129-132.
39. Lachenbruch, P.A., and M. Goldstein (1979) "Discriminant analysis," Biometrics, 35(1):69-85.
40. Lachenbruch, P.A. (1979) "Remarks on quality enhancement in SENIC," Clinical Pharmacology and Therapeutics, 25(5), Part 2:724.
41. Corder, M.P., T.E. Elliott, L.C. Maguire, J.T. Leimert, S.K. Panther, and P.A. Lachenbruch (1979) "Phase 11 study of cis-dichlorodiamineplatinum (11) in stage IVB Hodgkins disease," Cancer Treatment Reports, 63(5):763-766.
42. Clarke, W.R., P.A. Lachenbruch, and B. Broffitt (1979) "How non-normality affects the quadratic discriminant function," Communications in Statistics - Theory and Methods, A8(13):1285-1301.
43. Broffitt, B., W.R. Clarke, and P.A. Lachenbruch (1980) "The effect of huberizing and trimming on the quadratic discriminant function," Communications in Statistics - Theory and Methods, A9(1):13-25.
44. Quade, D., P.A. Lachenbruch, F.S. Whaley, D.K. McClish, and R.W. Haley (1980) "Effects of misclassification on statistical inferences in epidemiology," Am. J. of Epidemiology, 111 (5):503-515.
45. Lachenbruch, P.A., and W.R. Clarke (1980) "Discriminant analysis and its applications in epidemiology," Meth. Inform. Med., 19(4):220-226.
46. Woolson, R. F., and P.A. Lachenbruch (1980) "Rank tests for censored matched pairs," Biometrika, 67(3):597-606.
47. Lachenbruch, P.A., and B. Broffitt (1980) "On classifying observations when one population is a mixture of normals," Biom. J., 22(4):295-301.
48. Wiltse, C. G., P.A. Lachenbruch, and R. F. Woolson (1980) "A sampling study of the size and power of tests for paired survival data," Biom. J., 22(7):633-638.

49. Lachenbruch, P.A., (1980) "Note on combining risks using a logistic discriminant function approach," Biom. J., 22(8):759-762.
50. Corry, R.J., J.C. West, L.G. Hunsicker, B.A. Schanbacher and P.A. Lachenbruch (1980) "Effect of timing of administration and quantity of blood transfusion on cadaver renal transplant survival," Transplantation, 30(6):4-25-428.
51. Broffitt, B., W.R. Clarke, and P.A. Lachenbruch (1981) "Measurement errors - a location contamination problem in discriminant analysis," Commun. Statist. - Simulation and Computation B10(2):129-141.
52. Woolson, R.F., and P.A. Lachenbruch (1981) "Rank tests for censored randomized block designs," Biometrika, 68(2):427-435.
53. Henriksen RA, Kisker CT, Lachenbruch PA, Hart KP, Zaleski A (1981) "The factor VIII:C level is lower in daughters of hemophilia A subjects." Blood. Feb;57(2):376.
54. Behar, D., G. Winokur, C. Van Valkenburg, M. Lowry, and P.A. Lachenbruch (1981) "Clinical overlap among familial subtypes of unipolar depression," Neuropsychobiology, 7:179-184.
55. Corder, M.P., P.A. Lachenbruch, S.G. Lindle, J.H. Sisson, P.S. Johnson, and J.T. Kosier (1981) "A financial analysis of Hodgkin lymphoma staging," AJPH, 71(4):376-380.
56. Lachenbruch, P.A., M. Palta, and R.F. Woolson (1982) "Analysis of matched pairs studies with censored data," Commun. Statist. - Theory and Methods, 11(5):549-565.
57. Homan, S., P.A. Lachenbruch, G. Winokur, and P. Clayton (1982) "An efficacy study of electroconvulsive therapy and antidepressants in the treatment of primary depression," Psychological Medicine 12:615-624.
58. Tomanek, R.J., J.C. Searls, and P.A. Lachenbruch (1982) "Quantitative changes in the capillary bed during developing, peak, and stabilized cardiac hypertrophy in spontaneously hypertensive rat," Circulation Research, 51(3):295-304.
59. Woolson, R.F., and P.A. Lachenbruch (1982) "Regression analysis of matched case-control data," American Journal of Epidemiology, 115(3):444-452.
60. Kaigh, W.D., and P.A. Lachenbruch (1982) "A generalized quantile estimator," Communications in Statistics - Theory and Methods, A11(19):2217-2238.
61. Ekwo, E., M. M. Weinberger, P.A. Lachenbruch, and W.H. Huntley (1983) "Relationship of parental smoking and gas cooking to respiratory disease in children," Chest, 84(6):662-668.
62. Lachenbruch, P.A., and M. G. Myers (1983) "Unmatched observations in matched pairs analysis," The American Statistician, 37(4):317-319.
63. Woolson, R.F., and P.A. Lachenbruch (1983) "Rank analysis of covariance with right-censored data," Biometrics, 39:727-733.
64. Lachenbruch, P.A. (Nov 1983) "Statistical programs for microcomputers," BYTE, pp. 560-570.
65. Myers, M. G., S.J. Fomon, F. P. Koontz, G. A. McGuinness, P.A. Lachenbruch, and H.R. Hollingshead (1984) "Respiratory and gastrointestinal illnesses in breast- and formula-fed infants," American Journal of Diseases of Children, 138:629-632.

66. Slymen, D. J., and P.A. Lachenbruch (1984) "Survival distributions arising from two families and generated by transformations," Communication in Statistics - Theory and Methods, A13(10):1179-1201.
67. Lachenbruch, P.A., S. Seibert, and S. Amini (1984) "A truncated proportional hazards test," Biometrical Journal, 26(3):241-250.
68. Lachenbruch, P.A., and R.F. Woolson (1984) "Randomized blocks analysis for the exponential distribution," Biometrical Journal, 26(3):295-303.
69. Lachenbruch, P.A., and R.F. Woolson (1984) "The matched pairs problem with exponential variates," Biometrical Journal, 26(4):391-397.
70. Lachenbruch, P.A., and R.F. Woolson (1985) "On small sample properties of the generalized signed rank and generalized sign tests," Communications in Statistics, 14(9):2109-2127.
71. Hardin, M. A., P.A. Lachenbruch, and H.L. Morris (1986) "Contribution of selected variables to the prediction of speech proficiency for adolescents with cleft lip and palate," Cleft Palate Journal, 23(1):10-23.
72. Andersen, B.L., P.A. Lachenbruch, B. Anderson, and C. Deprosse (1986) "Sexual dysfunction and signs of gynecologic cancer," Cancer, 57:1880-1886.
73. Homan, S. M., and P.A. Lachenbruch (1986) "Robust estimation of the exponential mean parameter for small samples: complete and censored data," Communications in Statistics-Simulation, 14(4):1087-1108.
74. Myers, M.G., G.A. McGuinness, P.A. Lachenbruch, et al. (1986) "Respiratory illnesses in survivors of infant respiratory distress syndrome," American Review of Resp 133:1011-1018.
75. Bonney, W. W., J. Johnson, R.A. Robinson, P.A. Lachenbruch, and R. Leafgreen (1986) "Stability of sublines in the R3327-H rat prostatic tumor," Journal of Urology, 136:1335-1342.
76. Jordan DK, Patil SR, Jochimsen PR, Lachenbruch PA, Corder MP (1986) "Sister chromatid exchange analysis in nurses handling antineoplastic drugs" Cancer Invest. 4(2):101-7.
77. Furst DE, Blocka K, Cassell S, Harris ER, Hirschberg JM, Josephson N, Lachenbruch PA, Trimble RB, Paulus HE (1987) "A controlled study of concurrent therapy with a nonacetylated salicylate and naproxen in rheumatoid arthritis" Arthritis Rheum. Feb;30(2):146-54.
78. Bonney WW, Robinson RA, Lachenbruch PA, Culp DA. (1987) "Yield of cancer tissue from prostatic needle biopsy" Urology. Feb;29(2):153-6.
79. Cave DG, Schweitzer SO, Lachenbruch PA (1988) "Community rating by class as a method of adjusting community rated employer group capitation premiums" GHAA J. Fall;9(1):80-96.
80. Cave, DG, Schweitzer, SO, Lachenbruch, PA (1988) "Adjusting Employer Group Capitation Premiums by community rating by class factors." Med. Care 27(9) 887-899
81. Flack, V.F., A.A. Afifi, P.A. Lachenbruch, and H.J.A. Schouten (1988) "Sample size determination for the two rater kappa statistic." Psychometrika, 53:321-325.
82. Lachenbruch, P.A. (1988) "Multiple reading procedures: The performance of diagnostic tests." Statistics in Medicine, 7:549-557.

83. Lachenbruch, P.A. (1988) "A note on sample size computation for testing interactions," Statistics in Medicine, 7:467-469.
84. Jochimsen, P. R., M. P. Corder, P.A. Lachenbruch, and M. E. Spaight (1988) "Preparation and administration of chemotherapy: haematological consequences for hospital-based nurses," Medical Toxicology, 3:59-63.
85. Furst, D. E., P. J. Clements, S. Hillis, P.A. Lachenbruch, B.L. Miller, M. G. Sterz, and H. E. Paulus (1989) "Immunosuppression with chlorambucil, versus placebo, for scleroderma, " Arthritis and Rheumatism, 32(5):584-593.
86. Lachenbruch, P.A. (1989) "On using microcomputers in statistical analysis," Infection Control and Hospital Epidemiology, 10:422-426.
87. National Academy of Sciences Panel on Discriminant Analysis, Classification and Clustering (1989) "Discriminant analysis and clustering" (authored a chapter for this report), Statistical Science, 4(1):34-69.
88. Gjertson, D.W., J. Hopfield, P.A. Lachenbruch, M.R. Mickey, T. Subleft, C. Yuge, and P.I. Terasaki (1990) "Measurement error in determination of band size for highly polymorphic single locus DNA markers," in Advances in Forensic Haemogenetics 3. (H.F. Polesky and W.R. Mayr, eds.), Heidelberg: Springer-Verlag, pp. 3-11.
89. Bulpitt, K. J., P.J. Clements, P.A. Lachenbruch, and H. E. Paulus (1990) "Prospective study of early systemic sclerosis: Outcome and prognostic indicators," Arthritis and Rheumatism, 33(suppl. 5):R6. (abstract).
90. Lachenbruch, P.A., and V. F. Flack (1990) "Considerations for effective simulation study analysis," Communications in Statistics. 18:1223-1250.
91. Lachenbruch, P.A. (1990) "Note on goodness-of-link tests," Journal of Statistical Computation and Simulation, 36:43-45.
92. Clements, P.J., P.A. Lachenbruch, S. C. Ng, M. Simmons, M. Sterz, and D. E. Furst (1990) "Skin score: A semiquantitative measure of cutaneous involvement which improves prediction of prognosis in systemic sclerosis (SSc)," Arthritis and Rheumatism, 33(8):1256-1263.
93. Aneshensel, C.A., C. M. Rutter, and P.A. Lachenbruch (1991) "Social structure, stress, and mental health: competing conceptual and analytic models," American Sociological Review, 56:166-178.
94. Rutter, C., V. Flack, and P. Lachenbruch (1991) "Bias in error rate estimates in discriminant analysis when stepwise variable selection is employed," Communications in Statistics-Simulation, 20(1):1-22.
95. Lachenbruch, P.A. (1991) "On analysis of proportions in tables with spoiled data," Biometrical Journal, 33:41-46.
96. Lachenbruch, P.A. (1991) "The Performance of tests when observations have different variances," Journal of Statistical Computation and Simulation, 40:83-92.
97. Lachenbruch, P.A., and P.J. Clements (1991) 'ANOVA, Kruskal-Wallis, Normal Scores and Unequal Variance,' Communications in Statistics - Theory and Methods, 20(1):107-126.
98. Lachenbruch, P.A. (1991) "Using world statistics in the classroom," Teaching Statistics, 13(3):74-77.

99. Lachenbruch, P.A., S. Reinsch, P.G. MacRae, and J.S. Tobis (1991) "Adjusting for recall bias with the proportional hazards model," Methods of Information in Medicine, 30:108-10. (Also reprinted in the Yearbook of Medical Informatics, 1992.)
100. Clements, P.J., P.A. Lachenbruch, D.E. Furst, H.E. Paulus, and M.G. Sterz (1991) 'Cardiac Score: A semiquantitative measure of cardiac involvement which improves prediction of prognosis in systemic sclerosis,' Arthritis and Rheumatism, 34:1371-1380.
101. Lachenbruch, P.A. (1992) 'Utility of logistic regression analysis in epidemiologic studies of the elderly,' Epidemiologic Methods in the Study of Aging, (R.B. Wallace and R.F. Woolson, eds.), Oxford University Press, New York; pp. 371-381.
102. Paulus, H. E., K. R. Johnson, and P.A. Lachenbruch (1992) "Practice-based evaluation of the long term benefit of second-line agents in rheumatoid arthritis," Journal of Rheumatology, (Suppl. 32) 19:80-84.
103. Reinsch, S., P. MacRae, P.A. Lachenbruch, and J. S. Tobis (1992) "Attempts to prevent falls and injury: A prospective community study," The Gerontologist, 32(4):450-456.
104. Lachenbruch, P.A. (1992) "On the sample size for studies based upon McNemar's test," Statistics in Medicine, 11:1521-1525.
105. Valentine, J.L., S.-Y. He, L.L. Reisbord, and P.A. Lachenbruch (1992) "Health response by questionnaire in arsenic-exposed populations," Journal of Clinical Epidemiology, 45(5):487-494.
106. Leuchter, A. F., T.F. Newton, I. A. Cook, D. O. Walter, and P.A. Lachenbruch (1992) "Changes in brain functional connectivity in Alzheimer-type and multi-infarct dementia," Brain 115, 1543-1561.
107. Reinsch, S., P. MacRae, P.A. Lachenbruch, and J. Tobis (1992) 'Risk perceptions for falls among community-residing older adults,' The Gerontologist 32,450-456.
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109. Bulpitt, K.J., P.J. Clements, P.A. Lachenbruch, H.E. Paulus, J.B. Peter, M.S. Agopian, J.Z. Singer, V.D. Steen, D.O. Clegg, C.M. Ziminski, G.S. Alarcon, M. Luggen, H.J. Williams, and J.R. Ward (1993) "Early undifferentiated connective tissue disease, III. Outcome and prognostic indicators in early scleroderma," Annals Intern Med 118(8):602-609.
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112. Valentine, J.L., M.E. Cebrian, G.G. Garcia-vargas, B. Faraji, J. Kuo, H.J. Gibb, and P.A. Lachenbruch (1994) "Daily selenium intake estimates for residents of arsenic endemic areas," Environmental Research 64:1-9.

113. Tashkin, D.P., P.J. Clements, R.S. Wright, H. Gong, Jr., M.S. Simmons, P.A. Lachenbruch and D. E. Furst (1994) 'Inter-relationships between pulmonary and extra-pulmonary involvement in systemic sclerosis (SSc): A longitudinal analysis." Chest 105(2):489-495..
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15. Lachenbruch, P.A., V.A. Clark, W.G. Cumberland, P.C. Chang, A.A. Afifi, V.F. Flack and R.M. Elashoff (1987) Letter to the Editor: Four Comments Received on Statistical Testing and Confidence Intervals. American Journal of Public Health 77(2):237.
16. Schneiderman, L., W.M. Furman, P.A. Lachenbruch, E.P. Fielder, M.B. Welch, I.S.J. Chow (Apr 1987) Gain Participant Needs Assessment, Report Two, UCLA School of Social Welfare, Center for Child & Family Policy Studies.
17. Lachenbruch, P.A. (1988) "The statistician as computer center," Proceedings of the Section on Statistical Education of the American Statistical Association.
18. Lachenbruch, P.A. (1989) Trends in health statistics and the Spiegelman award: The Spiegelman award lecture, 1989." UCLA Statistics Series #40 (presented at the American Public Health Association, October 24, 1989.

19. Lachenbruch, P. A. (2004) "Simulating N/I Distributions" presented at North American Stata User's Group meeting August, 2004.
20. **Lachenbruch, P. A. (2008)** "Communicating Statistics and Professional Development" Presidential Address, Joint Statistical Meetings, Denver August
21. **Lachenbruch, P. A. and Acock A. (2008)** "Teaching with Stata" presented at North American Stata User's Group Meeting March 2008 Los Angeles

F. Book Reviews

1. Hays, W.L. and R.L. Winkler, Statistics: Probability Inference and Decision, Volume 1, Holt, Rinehart and Winston, 1970, in Technometrics, 13(4):920 (1971).
2. Anderssen, R.S. and M.R. Osborne, Data Representation, University of Queensland Press, 1970, in Technometrics, 13(4):925 (1971).
3. Armitage, P., Statistical Methods in Medical Research (John Wiley and Sons, 1971), in Technometrics, 14(i):235 (1972).
4. Freund, J., Mathematical Statistics (2nd Edition) Prentice Hall, 1971 in Technometrics, 14(3):807 (1972).
5. Mosteller, F., et al., Statistics by Example in Technometrics, 16(2):326 (1974).
6. Lancaster, H.O., An Introduction to Medical Statistics in the Journal of the American Statistical Association, 69(348):1048-1049 (1974).
7. Marriott, F.H.C., The Interpretation of Multiple Observations, London: Academic Press, 1974; p ix, 117 in the Journal of the American Statistical Association, 71(353):249 (1976).
8. Bock, R.D., Multivariate Statistical Methods in Behavioral Research, New York: McGraw-Hill Book Co., 1975; p xiii, 623 in the Journal of the American Statistical Association, 72(359):690-691 (1977).
9. Everitt, B., Cluster Analysis (2nd ed.), John Wiley-Halsted Press, 1980; p vii, 136 in Technometrics, 23(3):308 (1981).
10. Gordon, A.D., Classification: Methods for the Exploratory Analysis of Multivariate Data, Chapman and Hall, 1981; p xii, 193 in Technometrics, 24(4):340-341 (1982).
11. Hand, D.J., Discrimination and Classification, John Wiley, 1981; p x, 218 in Technometrics, 24(4):340-341 (1982).
12. Mardia, K., J. Kent and J. Bibby, Multivariate Analysis in Biometrics, 37(1):199 (1981).
13. Rogers, W.R., Basic Microcomputing and Biostatistics, Humana Press, Clifton, NJ, in J. Biomechanics, 18(9):731 (1985).
14. E.J. Snell, Applied Statistics: A Handbook of BMDP Analyses, in Biometrics, 44(3):918-919 (1988).
15. Cohen, J., Statistical Power Analysis for the Behavioral Sciences, in JASA, 84(408):1096 (1990).
16. Aitken, M.A. et al., Statistical Modelling in GLIM, in JASA, 85(409):267 (1990).
17. Carroll, R.J. and D. Ruppert, Transformation and Weighting in Regression, in JASA, p. 593 (1990).
18. Lindsay, J.K., The Analysis of Categorical Data Using GLIM, in JASA.

19. Lwanga, S.K. and S. Lemeshow, Sample Size Determination in Health Studies: A Practical Manual, Geneva: World Health Organization, in JASA, p. 1149 (1991).
20. Lipsey, M.W., Design Sensitivity: Statistical Power for Experimental Research, Newberry Park: Sage Publications, in JASA, p. 1179 (1990).
21. Odeh, R.E. and M. Fox, Sample Size Choice: Charts for Experiments with Linear Models, in JASA, p. 591 (1992).
22. Greenwood, P. E. and M. S. Nikulin, A Guide to Chi-Squared Testing in Statistics in Medicine (1999)
23. Rabe-Hesketh, S. and Everitt, B. A Handbook of Statistical Analyses Using Stata in the American Statistician p. 153 (2000)
24. Thode, H. Testing for Normality Marcel Dekker (2002) in ISCB review.
25. Parmigiani, G., Garrett, E., Irizarry, R., and Zeger, S. The Analysis of Gene Expression Data Springer (2003) in ISCB review

G. North Carolina Institute of Statistics Mimeo Series

1. Lachenbruch, P.A. (1967) "The non-central F distribution: Some extensions of Tang's Tables," North Carolina Institute of Statistics Mimeo Series Publications No. 531.
2. Lachenbruch, P.A. (1967) "Tables of Poisson random numbers," North Carolina Institute of Statistics Mimeo Series Publications No. 532.
3. Lachenbruch, P.A. and K.R. Gabriel (1967) "Non-parametric anova in small samples: A Monte Carlo study of the adequacy of the asymptotic approximation," North Carolina Institute of Statistics Mimeo Series Publications No. 569.
4. Lachenbruch, P.A. (1968) "Simultaneous confidence limits for the binomial and Poisson distribution," North Carolina Institute of Statistics Mimeo Series Publications No. 596.
5. Lachenbruch, P.A. and D.R. Brogan (1970) "Some distributions on the positive real line which have no moments," North Carolina Inst. of Statistics Mimeo Series Publications No. 700.
6. Lachenbruch, P.A. and J. Perry (1971) "Testing equality of proportion of success of several correlated binomial variates," North Carolina Institute of Statistics Mimeo Series Publications No. 767.
7. Lachenbruch, P.A. (1972) "Some results of the multiple group discriminant problem," North Carolina Inst. of Statistics Mimeo Series Publications
8. Lachenbruch, P.A. and W.S. Cleveland (1972) "A measure of divergence among several populations," North Carolina Institute of Statistics Mimeo Series Publications No. 838.
9. Lachenbruch, P.A. and R. Zemach (1972) "Statistical evaluation of vital rates for small groups," North Carolina Institute of Statistics Mimeo Series Publications No. 839.
10. Lachenbruch, P.A., M.C. Sheps and A. Sorant (1972) "Applications of POPREP, A modification of POPSIM," North Carolina Institute of Statistics Mimeo Series Publications No. 841.

SCIENTIFIC AND PROFESSIONAL ASSOCIATIONS AND OFFICES HELD:

1962-present American Statistical Association:
 Council Chairman, 1978
 Chair-Elect, Biometrics Section, 1988, Program Chair Biometrics Section, 1989
 Chair Biometrics Section, 1989

1963-present Biometric Society:
 ENAR Regional Advisory Board, 1970-72
 Representative to ASA Council, 1978
 President-Elect, Biometric Society, ENAR, 1983
 President, Biometric Society, ENAR, 1984
 International Governing Board, 1990-1997
 International Governing Board, Long Range Planning Committee, 1992-93
 Constitution Revision Committee, 1995-96
 Information Technology Committee, 1996-present

1967-1991 Sigma Xi

1969-1985 American Association for the Advancement of Science (Fellow)
 Representative to Sec. U 1973

1970-2004 Royal Statistical Society

1971-present Delta Omega

1971-1990 American Public Health Association:
 Statistics Section Council, 1974-76
 Governing Council, 1979-80
 Mortimer Spiegelman Health Statistics Award Committee, 1971-1974, Chairman, 1974
 Program Chairman, 1972, 1982
 Chairman-Elect, 1982
 Chairman, Statistics Section, 1983

1983 President-Elect, International Biometric Society, ENAR

1984 President, International Biometric Society, ENAR

1987- Institute of Mathematical Statistics

1992-1993 President, Southern Calif. Chapter of the American Statistical Association

2007 President-Elect, American Statistical Association

2008 President, American Statistical Association

2009 Past President, American Statistical Association

2009 President-Elect, International Biometric Society, WNAR

2010 President, International Biometric Society, WNAR

CONSULTING ACTIVITIES:

1976-1980 FDA Advisory Panel on Obstetric and Gynecological Devices

1980-1984 NCI Biometry and Epidemiology Contract Review Committee

1982-1987 National Academy of Science: Board of Mathematical Sciences, Committee on Applied and Theoretical Statistics, Panel on Discriminant Analysis

1987-1994 Special Study Section, Statistical Research (NIH)

1989-1993 Paine-Lawrence Corporation, Consultant

1989-1993 Prophet Advisory Panel (NIH)

1991-1994 Madison Pillsbury and Sutro (Law Firm)

1991, 1992 Epidemiology and Disease Control Study Section 1

1992-1994 FDA Arthritis Advisory Committee

1992-1994 American College of Rheumatology Committee on Design and Response Parameters in Clinical Trials in Systemic Sclerosis (Scleroderma)

1998-2000 Advisory Panel to Department of Statistics , Ohio State University

1999 Member of International Review Board, Center for Epidemiological Research in Southern Africa. Cape Town, S.A.

2000-2001-2007 Advisory Panel to Department of Statistics, George Mason University
Member, Data Monitoring Committee, COURAGE trial (to compare medical approaches and PCTA, VA)

2006- Member, Data Safety and Monitoring Committee, PIOPED III Trial (to compare methods of diagnosis of Pulmonary Embolism. Sponsored by NHLBI)

2006- Member, Data Monitoring Committee, Robot Assisted Upper Limb Neurorehabilitation in Stroke Patients (VA)

2006- Member, Observational Safety Monitoring Committee Women's Health Initiative (WHI) Extension Study (NHLBI)

2006 Consultant to Dendreon Corporation – one day meeting. (Sept 8)

2009- Member, Data Safety Monitoring Board, Tanezumab Studies, Pfizer

2009 Consultant, Genentech Corp

2009 Consultant, Northfield Pharmaceuticals

2009- Consultant, AMGEN

2009- Consultant, Kakkis Everylife Foundation

2009- Consultant, Astellas

2010- Member, Steering Committee, BioCryst

NATIONAL AND INTERNATIONAL ACTIVITIES:

1970,74,76,79, 82,84,86,88, 90,92,94,96 Attended meetings of the International Biometrics Society

1990 Invited Participant to International Conference of Teaching of Statistics (ICOTS).

1996 Participant at International Society of Clinical Biostatistics (Boston)

2000 Participant at International Society of Clinical Biostatistics (Dundee)

2002 Participant at International Society of Clinical Biostatistics (Dijon)

2002 Invited paper Statistics, Quality of Life, and the Environment (Vannes)

2004 Invited paper at Statistical Applications in the Health Sciences (Nantes)

2005 Invited paper at Statistics in the Health Sciences (Paris)

2006 Session Organizer and Chair, International Society of Clinical Biostatistics (Geneva)

ATTENDANCE AT MEETINGS:

International Biometrics Society, 1970, 1972, 1974, 1976, 1979, 1982, 1984, 1986,1988,1990,1992, 1994, 1996
Joint Statistical Meetings, ASA, IMS, and Biometric Society Annually since 1965.
Biometric Society, ENAR meetings, Annually from 1966 to 1985, 1996
Biometric Society, WNAR Meeting, 1964, 1965, 1989, 1991, 1993
Program Chair, ASA Biometrics Section, 1989 Meetings.
International Statistical Institute, 1969, 1985
International Society of Clinical Biostatistics, 1996, 2000, 2002, 2006

PAPERS PRESENTED:

Only papers in which Lachenbruch was the presenter are given.

1. "Estimation of the multiple correlation coefficient and mean square prediction error," with M.R. Mickey, WNAR Meetings (1965), Riverside, California.
2. "Simulating a human population: Some problems and prospects," APHA Meetings (1966), San Francisco, California.

3. "Discriminant analysis when the initial samples are misclassified," ASA Meetings (1966), Los Angeles, California.
4. "Estimation of error rates in discriminant analysis," with MR Mickey, ASA Meetings (1967), Washington, D.C.
5. "Further observation on the relationship between frequency and timing of intercourse and the probability of conception," with J.H. Glasser, PAA Meetings (1967), Cincinnati, Ohio.
6. "The non-central distribution of range and studentized range in normal samples," with H.A. David, ENAR Meetings (1968), Blacksburg, Virginia.
7. "POPSIM: A demographic microsimulation model," with D.G. Horvitz, F. Giesbrecht and B.V. Shah, IUSSP Meetings (1969), London, England.
8. "Robustness of the linear discriminant function to certain types of non-normality," with C. Lilienthal and L.T. Revo, ISI Meetings (1969), London, England.
9. "On classifying multivariate ordered categorical data: The poisson and negative binomial case," with L.T. Revo, ENAR Meetings (1970), Chapel Hill, N.C.
10. "Testing equality of proportion of success of several correlated binomial variables," with J. Perry, 7th International Biometrics Conference (1970), Hannover, Germany.
11. "A problem in post-stratification," APHA Meetings, (1970), Houston, Texas.
12. "Discriminant analysis with normal mixtures," The Classification Society Meetings (1971), London, Ontario.
13. "Association between age at onset and duration of disease when the data is truncated," ASA Meetings, (1971), Fort Collins, Colorado.
14. Discussant of "Experience and problems in the creation of the sample registration system in India," V.K. Ramabhadran, International Symposium on Statistical Problems in Population Research, Honolulu, Hawaii, 1971.
15. Discussant of "Statistical problems in population research," L. Moses and B.W. Brown, ISI Meetings, Washington, D.C., 1971.
16. "Measuring Association when one of the variables is truncated," APHA Meetings (1971), Minneapolis, Minnesota.
17. "An application of growth curve models in the analysis of fertility data," African Regional Population Conference, Accra, December, 1971.
18. "A survey of discriminant analysis," Seminar, N.C. State University, February, 1972.
19. "Some results on the multiple group discriminant problem," NATO, Advanced Study Seminar on Discriminant Analysis, Athens, Greece, June, 1972.
20. "A measure of divergence among several populations," with W.S. Cleveland, ASA Meetings, August 1972, Montreal, Canada.

21. "A survey of discriminant analysis," Medical College of Virginia, November, 1972.
22. "Further results on initial misclassification in discriminant analysis," International Symposium on Design and Linear Models, Fort Collins, Colorado, March, 1973.
23. "Some results on discriminant analysis," State University of New York at Buffalo, April, 1973.
24. "A measure of divergence of populations," Population Association of America, New Orleans, LA, April, 1973.
25. "Simulating human populations: Some applications of POPREP to evaluating measures of fertility," Southern California Chapter of the American Statistical Association, September 1973.
26. "Pattern recognition and discrimination: A statistician's view," Seminar, Syracuse University, October, 1973.
27. "The effects of changes of fertility parameters on fertility measures," with D.G. Horvitz and C.M. Suchindran, APHA, San Francisco, November, 1973.
28. "Some problems in using regression analysis in public health," with L.L. Kupper, APHA, San Francisco, November, 1973.
29. "A survey of discriminant analysis," Seminar, State University of New York at Buffalo, April, 1973.
30. "Methodological issues in screening for potential drug reactors," with P.B. Imrey, APHA Annual Meeting, San Francisco, November, 1973.
31. "Equal mean discrimination and the absolute linear discriminant function," Bay Area Biostatistics Colloquium, March 19, 1974.
32. "Some graphical aids to fitting the Poisson with zeroes and negative binomial with zeroes distributions," Biometrics Society (WNAAR), Regional Meeting, Irvine, California, June, 1974.
33. "Covariance adjusted discriminant functions," (Seminar), University of Iowa, Iowa City, July, 1974.
34. "The classification regions for discriminant functions with covariates," 8th International Biometrics Conference Bucharest, Romania, August 27, 1974.
35. "Statistical evaluation of vital rates for small groups," with R. Zemach, APHA Annual Meeting, New Orleans, October, 1974.
36. "A problem in discrimination using ranks," Computer Science and Statistics: Eighth Annual Symposium on the Interface, Los Angeles, February, 1975.
37. "Application of a generalized Chandrasekar-Deming technique to nosocomial infection detection," with D. Quade, ASA Meetings, Atlanta, 1975.
38. "Some unsolved practical problems in discriminant analysis," Biometrics Society (ENAR), College Station, Texas, March, 1976.
39. "The SENIC project and some of its statistical problems," with D. Quade, N.C. Chapter, American Statistical Association, May, 1976.

40. "Some unsolved practical problems in discriminant analysis," IFIP Working Conference on Medical Decision Making, Dijon, France, May, 1976.
41. "Robustness of discriminant functions," UCLA School of Public Health, Seminar, January, 1977.
42. "Robustness of the quadratic discriminant function," University of Minnesota Department of Statistics, Seminar, May, 1977.
43. "Thoughts on statistical consulting," University of Minnesota, Department of Statistics, Seminar, May, 1977.
44. "The effect of non-normality on the quadratic discriminant function," MEDINFO 77, Toronto, August, 1977; also presented at ASA meetings, 1977, Chicago.
45. "Some misuses of discriminant analysis," First World Conference on Mathematics at the Service of Man, Barcelona, July, 1977.
46. "Nonparametric analysis of censored matched pairs," with R. Woolson, 10th International Biometrics Conference, Guaraja Brazil, August, 1979.
47. "A class of locally most powerful rank tests for censored matched pairs," with R. Woolson. Seminar presented at University of Bradford, England, December, 1979 and Oxford University, England, November, 1979. (presented by Woolson)
48. "Statistical approaches to hemophilia: A carrier detection," with C.T. Kisker, M. Stein and R. Henricksen, 13th Hawaii International Conference on Systems Science, January, 1980.
49. "Robustness of discriminant functions," Seminar presented at Carnegie-Mellon University, Pittsburgh, PA, January, 1980.
50. "Categorical discriminant analysis," with Y. Chang and W.R. Clarke, Invited paper, Biometrics Society Meetings, Charleston, S.C., March, 1980.
51. "Comparability of cancer patients and hospitals from the Iowa tumor registry," with J. Pendergast and E.P. Isacson, 14th Hawaii International Conference On System Science, January, 1981.
52. "SAMP - A program to compute sample size," AEP Conference, San Diego, April, 1986.
53. "SPT - Statistical utilities for microcomputers," Invited seminar, UC Riverside, May, 1986.
54. "Experience with a microcomputer teaching laboratory," with J. Sayre, Invited paper, APHA, October, 1986.
55. "How to revitalize the statistics section of the American Public Health Association," APHA, Atlanta, 1991.
56. "Designing Studies for Dose Response" with W. K. Wong, Invited paper, Biometric Society (WNAR) meetings, Laramie, Wyoming, June 1993.
57. Lachenbruch, P.A. Horne, A.D., Hsu, H., Getson, P. "Evolving Concepts in the Statistical Evaluation of Vaccines." DIA Winter Meeting, Newport Beach, CA Jan 28-29, 1995

58. Lynch, C.J. and Lachenbruch, P. A. "Statistical Problems in Applications at the FDA" Great Lakes Symposium on Applied Statistics. Kalamazoo , MI June 23-25, 1995
59. Lachenbruch, P.A. "Assessing Comparability of Screening Tests" Seminar presented at Johns Hopkins University, November 30, 1994
60. Lachenbruch, P. A. "Sensitivity and Specificity Applications in the Biologics Approval Process." Seminar presented at the George Mason University, Sept. 15, 1995
61. Lachenbruch, P.A. "Assessing Equivalence of Screening Tests: Extensions of McNemar's Test" presented at Mid-Atlantic Probability and Statistics Day, George Washington University, Oct 21, 1995
62. Lachenbruch, P.A. "Reviewer Module III: Statistical Considerations" presented at FDA/CBER reviewer training October, 1994
63. Lachenbruch, P. A. "Active Controls in Rheumatoid Arthritis Studies" presented at Biological Therapies in Rheumatoid Arthritis Conference, San Francisco, Mar 1995
64. Lachenbruch, P.A. "Some Issues in Equivalence Studies" presented at Emerging Therapies in Rheumatoid Arthritis Conference, Phoenix, AZ May 1995
65. Chakravarty, A., Harkins, R., Lachenbruch, P.A., Tiwari, J. "Problems and Strategies for Designing and Analyzing Sepsis Trials" presented at First Seattle Symposium on Survival Analysis, November, 1995, and at Sepsis/Sirs Conference, February, 1996.
66. Lachenbruch, P.A. "Introduction to Graphical Methods in Statistics" DCTDA Seminars in Clinical Trials October, 1995
67. Lachenbruch, P.A. "Introduction to Sensitivity and Specificity" presented at DCTDA seminar in Clinical Trials and Statistics, January, 1996
68. Lachenbruch, P.A. "Basics of EXCEL" presented at DCTDA seminar in Clinical Trials and Statistics, Spring 1996
69. Lachenbruch, P.A., Gupta, G., Rieves, D. "Standardized Rates" presented at DCTDA seminar in Clinical Trials and Statistics, Fall 1996
70. Lachenbruch, P.A. "Ambiguous Results in Clinical Trials" presented at **Understanding, Applying and Not Misusing the Mathematical and Statistical Techniques Used in Clinical Trials** - Rockville, MD Oct 1996.
71. Lachenbruch, P. A. "ICH Guideline E9: Statistical Principles for Clinical Trials" DIA winter meetings, Dana Point, CA, Feb 1997
72. Lachenbruch, P. A. "Multiple Comparisons principles at CBER: Discussion of Papers by Follmann, Bristol, and Hsu" DIA Statistical Meetings, Hilton Head, SC, Mar 1997
73. Lachenbruch, P. A. "Adjusting Analyses for Baseline Variables" presented at CBER seminar on Clinical Trials. June 1997
74. Lachenbruch, P. A. "Survival Analysis" presented at CBER seminar on Clinical Trials. June 1997

75. Taffs, R. E., Hsu, H. S. H. and Lachenbruch, P. A. "Proposed statistical models for the TgPVR21 mouse test of OPV" Meeting on Transgenic Mice Susceptible to Poliovirus as a Model for Neurovirulence Test of Oral Poliomyelitis Vaccine. WHO, Geneva, Switzerland September 1997 (presented by Taffs)
76. Lachenbruch, P. A. "Statistical Reviewing at CBER: Hints and Prerequisites" Seminar presented at the Ohio State University October 1997
77. Lachenbruch, P. A. "Statistical Reviewing at CBER: Hints and Prerequisites" Seminar presented at the University of Massachusetts, November 1997
78. Taffs, R. E., Hsu, H.S.H. and Lachenbruch, P. A. "Validation of Statistical Models for the TgPVR Mouse Test of OPV" FDA Forum on Regulatory Sciences. December 1997 (presented by Taffs)
79. Lachenbruch, P. A. "Statistical Reviewing at CBER: Hints and Prerequisites" Southern California Chapter of the American Statistical Association, February 1998.
80. Lachenbruch, P. A. "How to have a meeting with CBER" DIA Biologics Update, Dana Point, CA February 1998
81. Lachenbruch, P. A. "Statistical Reviewing at CBER: Hints and Prerequisites" Seminar presented at Harvard University March 1997
82. Lachenbruch, P. A. and Ghanshyam Gupta "FDA and Software Validation" , Interface 1999, Schaumburg, IL; June 10, 1999. (presented by Gupta)
83. Lachenbruch, P. A. "How to hold a meeting with the FDA" RAPS meeting, Washington, D. C. October 1998
84. Lachenbruch, P. A.. Seminar "The Statistician's Role in Clinical Trials" Ohio State University Department of Statistics, April 30, 1999
85. Lachenbruch, P. A. – "CBER Biostatistics" – FDASA / Biopharmaceutical Section workshop, Sept 30, 1999, Arlington, VA
86. Lachenbruch, P.A. – "Comparisons of Two-Part Models with Competitors" – Symposium on Non-linear Models Honoring David Allen. November, 1999, Lexington, KY
87. Lachenbruch, P. A. – "Having an effective statistical meeting with the FDA" - Henry Stewart Conferences and Symposium, March, 2000.
88. Lachenbruch, P.A. – "Missing Values – Regulatory Issues" Society for Clinical Trials, May 4, 2000, Toronto, Canada
89. Lachenbruch, P.A. – "Comparisons of Two-Part Models with Competitors" Joint Statistical Meetings, August 17, 2000, Indianapolis
90. Lachenbruch, P.A. – "Missing Values – Regulatory Issues" FDASA/Biopharmaceutical Section Workshop, Sept 14, 2000, Bethesda
91. Lachenbruch, P.A. – "Both Sides Now " FDA Advisory Committee Statisticians Meeting, Sept 19, 2000, Rockville

92. Lachenbruch, P. A. Regulatory aspects of QOL studies. Vannes, France, October 2000.
93. Lachenbruch, P. A. Equivalence Trials in Allergenic Products. Allergenic Products Advisory Committee, February 2001.
94. Lachenbruch, P. A. Discussion of Sequential Analysis of categorical data Papers , DIA annual meeting, Denver, CO July 2001
95. Lachenbruch, P. A. Discussion of Issues in Multi Center Trials, DIA annual meeting, Denver, CO July 2001
96. Lachenbruch, P. A. Short Course on FDA Statistical Reviewing Expectations. Biometrics Society, ENAR. Charlotte, March 2001
97. Lachenbruch, P. A. and Hsu, H. Some Ideas on the Evaluation and Development of Vaccines. Biometrics Society, ENAR, Charlotte, March 2001
98. Lachenbruch, P. A. – “Having an effective statistical meeting with the FDA” - Henry Stewart Conferences and Symposium, June, 2001.
99. Misra, S. M. and Lachenbruch, P. A. Analysis of Diagnostic Imaging Data. DIA meeting, Denver, CO July 2001 (presented by Misra)
100. Misra, S. M. and Lachenbruch, P. A. Analysis of Diagnostic Imaging Data. FDASA/ASA Biopharmaceutical Section meeting, Bethesda, MD, September 2001 (delayed to January 2002)
101. Lachenbruch, P. A., Rida, W., Kou, J. “Lot Consistency Studies” International Association of Clinical Biostatistics / Society for Clinical Trials meeting London, July, 2003
102. Lachenbruch, P. A. Roundtable luncheon presenter on Lot Consistency Studies at Joint Statistical Meeting, San Francisco, CA, August 2003
103. Lachenbruch, P. A. and Wittes, J. “A Sentinel Event Based Adverse Event Monitoring Scheme” at International Conference on Statistics in Health Sciences, Nantes, France, June 2004
104. Lachenbruch, P. A. Panelist on Level of Assurance at Vaccine Cell Substrate conference, Rockville, MD, June 2004
105. Lachenbruch, P. A. ”Non-inferiority Studies in Japanese Encephalitis” WHO Working group on Clinical Trials for Novel Japanese Encephalitis Vaccines, Geneva, Switzerland September 2004
106. Lachenbruch, P. A., Miller, F. W. Rider, L. G. “Developing International Consensus on Measures of Improvement in Myositis” Joint Statistical Meetings, Toronto, Canada August 2004
107. Lachenbruch, P. A. Panelist on AAPS workshop on Specifications for Biotechnology and Biological Products, Washington, DC, October 2004
108. Lachenbruch, P. A. , Gupta, G, Ng, T-N, Silverman, T., Zaslavsky, B. “Use of Bayesian Methods in Regulatory Approval Actions” Society for Clinical Trials, Portland, OR May 2005
109. Ng, T-H. Lachenbruch, P. A. “FDA Perspective Statistical Considerations for Very Small Clinical Trials” Workshop: Biological Therapeutics for Rare Plasma Protein Disorders” Bethesda, MD June 2005

110. Lachenbruch, P. A. "Selecting the Appropriate Statistical Distribution for Primary Analysis" International Chinese Statistical Association, Bethesda, MD June 2005
111. Lachenbruch, P. A. "Validation of Measures" Chronic Graft versus Host Disease Workshop. Bethesda, MD June 2005
112. Lachenbruch, P. A. "Selecting the Appropriate Statistical Distribution for Primary Analysis" Seminar, Oregon State University, Corvallis, OR February 2006
113. Lachenbruch, P. A. "Communicating Statistics" Presented to Oregon Chapter of ASA, January, 2007
114. Lachenbruch, P.A. "Communicating Statistics and Developing Professionals" Presented at Fall Technical Conference (ASA and ASQ), Jacksonville, FL October 2007
115. Lachenbruch, P.A. and Acock, A. "Teaching Statistics with Stata" Presented at West Coast Stata User's Group Meetings, Marina del Rey, October 2007
116. Lachenbruch, P.A. "How I started in Statistics" Presented to Nevada Chapter of ASA Careers Day, Reno November 2007
117. Lachenbruch, P.A. "Communicating Statistics and Developing Professionals" Presented at Philadelphia Chapter of ASA, Philadelphia, PA January 2008
118. Lachenbruch, P.A. "Selecting the appropriate distribution for the primary analysis: a case study" Presented to the University of Pennsylvania Department of Biostatistics, Philadelphia, PA January 2008
119. Lachenbruch, P.A. "Comments on a JAMA Editorial" Keynote Address presented to Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, May 2008
120. Lachenbruch, P.A. "Communicating Statistics and Developing Professionals" Invited presentation at International Symposium on Biopharmaceutical Statistics, Shanghai, China June 2008
121. Lachenbruch, P. A. "Communicating Statistics and Developing Professionals" ASA Presidential Address presented at the Joint Statistical Meetings, Denver, CO, August 2008
122. Lachenbruch, P. A. "Variable Selection when Missing Values are Present: A Case Study" Presented to the OHSU Seminar in Biostatistics, January 2009
123. Lachenbruch, P. A. "The American Statistical Association – Communicating Statistics and Developing Professionals" Presented to the OSU Department of Statistics Seminar, February 2009
124. Lachenbruch, P. A. "Musings on Statistics in Drug Development" Keynote Address Presented to DIA/FDA symposium on drug development, Arlington, VA, April 2009
125. Lachenbruch, P. A. "Follow on Biologics – discussant" Vancouver, Canada Joint Statistical Meetings, August 2010
126. Lachenbruch, P. A. Roundtable on Risk Analysis discussion leader. Vancouver, Canada Joint Statistical Meetings, August 2010

FINANCIAL SUPPORT:

Title	Period	Support
Mental Health Epidemiology & Biometry	7-82 - 6-89	1 %
Establishment of Populations for Epidemiological Studies, Biometry Section	6-80 - 6-85	2%
Estimation of Prognosis Using SEER Data	9-81 - 2-85	35%
Cardiovascular Training	7-75 - 6-85	4%
Growth, Surgical and Speech Aspects of Cleft Palate	6-81 - 5-86	4%
Analysis of Controlled Trial of Chlorambucil vs. Placebo in PSS	11-83 - 11-85	10%
Gain Participant Needs Assessment	6-86 - 7-87	10%
Models of Ethnicity & Depression Over Time: The LA-ECA	7-87 - 6-90	10%
Multipurpose Arthritis Center Grant	7-92 - 6-97	10%
Experimental Intervention for the Reduction of Falls	8-88 - 7-91	5%
Cancer Center Core Support Grant (BASE Project)	12-88 - 11-93	30%
Relationships between Sulfur-Dioxide-Induced Bronchoconstriction and Daily Activities in Asthmatic Subjects	7-89 - 12-91	10%
Mental Illness in the Elderly: Diagnostic Testing	3-89 - 2-94	2%
Biostatistics Training for AIDS Research	9-90 - 7-95	-
High Dose vs. Low Dose Penicillamine in Early Generalized Systemic Sclerosis	9-91 - 9-94	5%
Assessment of Therapeutic Responses and their Impact on Outcomes in Juvenile Dermatomyositis	6-07 - 6-10	12%
Selection of Variables when Missing Values are Present	Submitted to NSF	17%

UNIVERSITY SERVICE:

Committee Service: University of Iowa:

Graduate Council, 1980-83

Vice President's University Advisory Committee on Statistics, Chair 1983-84; member 1983-1985
Campus Planning Committee, 1983-1985

Committee Service: UCLA:

Chair, SPH Academic Computing Committee, 1985-87 Office of Academic Computing Advisory Committee Credentials Committee, 1986-88

Faculty Executive Committee, 1987-91

Academic Senate Computing Committee 1986-88 Legislative Assembly 1988-present

Chair, FEC of School of Public Health 1989-91

Faculty Council, School of Public Health 1989-91 University Legislative Assembly Alternate 1990-92

Committee Service: Oregon State University

Curriculum Committee, College of Health and Human Sciences 2006-2009

Research Council, Vice-President's office, 2008-present

Search Committee, Department of Public Health 2009-2010

Teaching Activities: University of Iowa:

<u>Year</u>	<u>Course Title & No.</u>
1976-1977	Survival Analysis 63:171 Rates & Proportions 63:169 Biostatistics 63:161
1977-1978	Introduction to Biostatistics 3: 1 1 Introduction to Biostatistics 3:1 1 0 Demography 63:168
1978-1979	Biostatistics 63:161 Survival Analysis 63:261 Intro. to Biostatistics 63: 1 1 0
1979-1980	Introduction to Biostatistics 3:1 1 0 Survival Analysis 63:171 Demography 63:168
1980-1981	Problems in Preventive Medicine 3:171 Introduction to Biostatistics 3: 110
1981-1982	Survival Analysis 63:261 Biostatistics 63:161
1982-1983	Introduction to Biostatistics 3:1 1 0 Survival Analysis 63:261 Survival Analysis 63:171
1983-1984	Dynamics of Health 63:101 Biometrics and Bioassay 63:167
1984-1985	Dynamics of Health 63:101 Survival Analysis 63:261 Computer Packages 63:171
	Psychiatric Epidemiology Seminar 3:173

Teaching Activities: UCLA:

<u>Year</u>	<u>Course Title & No.</u>
Winter 1986	Biostatistics PH 200B
Spring 1986	Biostatistics PH 200C Advanced Seminar PH 204F
Fall 1986	Basic Biostatistics PH 101A
Winter 1987	Basic Biostatistics PH 101B Biostatistics PH 200B
Spring 1987	Biostatistics PH 200C Advanced Seminar 204F
Fall 1987	Basic Biostatistics PH 101A Introduction to Microcomputers PH 409
Winter 1988	Basic Biostatistics PH 101B
Spring 1988	Biostatistics PH 200C

Fall 1988	Advanced Seminar 204F Basic Biostatistics PH 101A Introduction to Microcomputers PH 409
Winter 1988	Basic Biostatistics PH 101B
Spring 1989	Biostatistics PH 200C
Fall 1989	Biostatistical Consulting BIOS 402B Applied Multivariate Biostatistics BIOS 406
Winter 1990	Principles of Biostatistical Consulting BIOS 402A Biostatistical Consulting BIOS 402B
Spring 1990	Biostatistics BIOS 200C Biostatistical Consulting BIOS 402B
Fall 1990	Introduction to Biostatistics BIOS 100A Applied Multivariate Analysis BIOS 406
Winter 1991	Biostatistical consulting BIOS 402B
Spring 1991	Biostatistics BIOS 200C
Fall 1991	Applied Multivariate Analysis BIOS 406
Spring 1992	Introduction to Biostatistics BIOS 100B Biostatistics 200C
Fall 1992	Basic Biostatistics BIOS 1 1 OA Applied Multivariate Analysis BIOS 406
Spring 1993	Biostatistics BIOS 200C Advanced Seminar BIOS 245

Teaching Activities Johns Hopkins University:

<u>Year</u>	<u>Course Title and No.</u>	
Third Term 1997-98	Statistical Methods in Public Health II	622
Fourth Term 1997-98	Statistical Methods in Public Health III	623
First Term 1998-99	Statistical Methods in Public Health I	621
Second Term 1998-99	Statistical Methods in Public Health II	622
Third Term 1998-99	Statistical Methods in Public Health III	623
First Term 1999-00	Statistical Methods in Public Health I	621
Second Term 1999-00	Statistical Methods in Public Health II	622
Third Term 1999-00	Statistical Methods in Public Health III	623
First Term 2000-01	Statistical Methods in Public Health I	621
Second Term 2000-01	Statistical Methods in Public Health II	622
Third Term 2000-01	Statistical Methods in Public Health III	623
First Term 2001-02	Statistical Methods in Public Health I	621
Second Term 2001-02	Statistical Methods in Public Health II	622
Third Term 2001-2002	Statistical Methods in Public Health III	623
First Term 2002-2003	Statistical Methods in Public Health I	621
Second Term 2001-02	Statistical Methods in Public Health II	622
Third Term 2001-2002	Statistical Methods in Public Health III	623
First Term 2002-2003	Statistical Methods in Public Health I	621
Second Term 2002-2003	Statistical Methods in Public Health II	622
Third Term 2002-2003	Statistical Methods in Public Health III	623
First Term 2003-2004	Statistical Methods in Public Health I	621
Second Term 2003-2004	Statistical Methods in Public Health II	622
Third Term 2003-2004	Statistical Methods in Public Health III	623
Third Term 2004-05	Statistical Reasoning in Public Health I	611
Fourth Term 2004-05	Statistical Reasoning in Public Health II	612

Teaching Activities at Oregon State University

Winter Term 2007	Introduction to Biostatistics	H 524
Spring Term 2007	Biostatistics Seminar -multivariate analysis	H 591
Fall 2007	Introduction to Biostatistics	H 524
Winter/Spring 2008	Seminar on GLLAMM	
Spring 2008	Basic Biostatistics	H 220
Fall 2008	Introduction to Biostatistics	H 524
Spring 2009	Basic Biostatistics	H 220
Spring 2009	Workflow Analysis	H 605
Fall 2009	Introduction to Biostatistics	H 524
Fall 2009	Basic Biostatistics	H 220
Winter 2010	Doctoral Seminar	H 612
Spring 2010	Basic Biostatistics	H 220

OTHER TEACHING ACTIVITIES:

Summer 1987-92 Summer Prologue for Minority Students

Chairman of Doctoral Committee, University of North Carolina:

Lawrence T. Revo, Ph.D, Retired

C.M. Suchindran, Ph.D., Professor, Univ. of North Carolina

S.W. Ahmed, Ph.D., Chief Statistician, Consumer Product Safety Commission, Now Mathematica Research

P.P. Talwar, Ph.D., Family Health Research Institute

R.S.S. Sarma, Ph.D., India

A. Moustafa, Ph.D., Egypt

Chairman of Doctoral Committee, University of Iowa:

Lawrence Lin, Ph.D., 1979, Baxter Laboratories

Y. Chang, Ph.D., 1980, Retired

Donald Slymen, Ph.D., 1983, San Diego State University

Sharon Homan, Ph.D., 1983, St. Louis University

Chairman of Doctoral Committee, UCLA:

Moon Chull Han, Biostatistics, Ph.D., 5-87, Univ. of Illinois,
Chicago (Deceased)

David W. Gjertson, Ph.D., Biostatistics, 6-89, UCLA

Gil David Fine, Ph.D., Biostatistics, 6-91, Private consultant

Post-doctoral Fellows Supervised, University of Iowa:

W.D. Kaigh 1978-79, Univ. of Texas, El Paso

S.G. Lindle 1978-79

D. Behar 1977-78

D. Loyd 1978-79

L. McAdams 1978-79, UCLA - Harbor

G. Miner 1980-82, StatSoft

L. Miner 1980-82, Southwestern Nazarene College

B. Pfohl 1980-81, University of Iowa

C. Larson	1981-82
A.G. Warrack	1982-83, Univ. of N. Carolina, Greensboro
C. Logue	1982-84, Stanford University
B. Cook	1982-84
D. Jarjoura	1984-85, Medical College of Ohio, Toledo
J. Wilcox	1984-85

Post-doctoral Fellows Supervised, UCLA:

Fred Angulo	1990-1993
Dong Kee Kim	1991-1994 (Faculty Seoul National University, Korea)
Robert Currier	1992-1994

Member of Doctoral Committee, University of Iowa:

J. Leeper, Ph.D., Department of Preventive Medicine, 5-77
T. Ng, Ph.D., Department of Statistics, 12-80
D. Patterson, Ph.D., Department of Statistics, 12-84
S. Amini, Ph.D., Department of Preventive Medicine, 6-85

Member of Doctoral Committee, UCLA:

Yong Won Cho	(Biostatistics)	PhD	1987
Denise Roe	(Biostatistics)	DrPH	1987
Lois McCloskey	(Public Health)	DrPH	1988
Hong Lin Su	(Biostatistics)	PhD	1988
Mori Jamshidian	(Mathematics)	PhD	1988
Doug Cave	(Public Health)	PhD	1988
Judy Stein	(Public Health)	DrPH	1994
Rob Simmons	(Public Health)	DrPH	1989
Mehdi Bozorgmehr	(Sociology)	PhD	1991
George Maldonado	(Public Health)	DrPH	1990
Susan Gardin	(Public Health)	PhD	1990
Celia Kaplan	(Public Health)	DrPH	1989
Dong Kee Kim	(Biostatistics)	PhD	1991
Andrea Hollatz-Brown	(Public Health)	PhD	1991
Chin-Yin Lew-Ting	(Public Health)	PhD	1992
Carolyn Rutter	(Biostatistics)	PhD	1991
Patricia English	(Biostatistics)	DrPH	1992
Arminda Siqueira	(Biostatistics)	PhD	1992
Thomas Wilson	(Epidemiology)	PhD	1993
Lisa Russell	(Comm Hlth Sci)	DrPH	
Frederick Angulo	(Epidemiology)	DrPH	1993
Jeanne Bertolli	(Epidemiology)	PhD	1994
Kevin Campbell	(Comm Hlth Sci)	PhD	1994
Peifeng Hu	(Epidemiology)	PhD	

Master's Papers Supervised:

Bradley Rosbrook	(Biostatistics)	MS	1986
Gil Fine	(Biostatistics)	MS	1986
Carolyn Rutter	(Biostatistics)	MS	1987

Dong Kee Kim	(Biostatistics)	MS	1987
Scott Komo	(Biostatistics)	MS	1988
Jung Chi Wang	(Biostatistics)	MS	1989
Carl Yuan	(Biostatistics)	MS	1989
Barbra Richardson	(Biostatistics)	MS	1989
Jean de Traversay	(Biostatistics)	MS	1989
Bing Chen Jiang	(Biostatistics)	MS	1991
Lida Hadjiaghai	(Biostatistics)	MS	1992
Jie Huang	(Biostatistics)	MS	1992
Lawrence D. Chu	(Biostatistics)	MS	1994
Zhaohe Luo	(Biostatistics)	MS	1994

Member of Master's Committee:

Erastus Njeru	(Biostatistics)	MS	1988
Kay Winen Chang	(Env Sciences)	MS	1989
Yun Chon	(Biostatistics)	MS	1990
Andrew Dagus	(Biostatistics)	MS	1990
Catherine Bachman- Wuesthoff	(BSHE)	MS	1991
Laura Petersen	(Biostatistics)	MS	1992
Rika Watanabe	(Epidemiology)	MS	1992

Oregon State University

Yunrim Park	(Computer Science)	MS	2008
Henri Compaore	(Public Health)	MPH	2007
Violet Lindstrom	(Public Health)	MPH	2008
Beth Appert	(Public Health)	MPH	2008
Holly Corwin	(Public Health)	MPH	2010
Erin Schneider	(Public Health)	MPH	2010
Trina Frantz	(Public Health)	MPH	2010

FDA Committee Service

Performance, Promotion and Retention Committee - Co-Chair, 1995-1999. Part of Strategic Planning
Information Technology Implementation Committee - 1995-1999 Part of Strategic Planning
Electronic CRF/CRT committee - participated in DIA meeting with this group. 1996-2000
Advisory Committee Statisticians Meeting organizing committee. 1996-2005
ICH E9 non-EWG committee - part of FDA group commenting on drafts. 1996-1998
Senior Biomedical Research Scientist Advisory Committee. 1997-2005
Information Management Coordinating Committee. 2001-2005
Research Coordinating Committee. 2000-2005
Document Control Working Group 2001-2002
FDA Data Council 2002-2005