

September 27, 2021

## CURRICULUM VITAE

GARY G. KOCH

135 Nottingham Drive  
Chapel Hill, NC 27517

Office  
(MG bldg): (919) 966-7282  
FAX: (919) 966-7285  
Home: (919) 967-6454  
FAX: (919) 933-2472

### EDUCATION

Ph.D. in Statistics, University of North Carolina at Chapel Hill, 1968  
D.Sc. (Hon), De Montfort University, Leicester, United Kingdom, 1996  
M.S. in Industrial Engineering, Ohio State University, Columbus, 1963  
B.S. in Mathematics, Ohio State University, Columbus, 1962

### MAJOR RESEARCH INTERESTS

Analysis of categorical data  
Clinical Trials Methodology  
Non-parametric multivariate inference

### PROFESSIONAL EXPERIENCE

1976 to Present Professor, Department of Biostatistics, University of North Carolina at Chapel Hill (1992 Recipient, McGavran Award for Excellence in Teaching, School of Public Health, 2007 Recipient of John E. Larsh, Jr. Award for Mentorship from University of North Carolina, School of Public Health, 2012 Recipient of Bernard G. Greenberg Alumni Endowment Award from University of North Carolina, Gillings School of Global Public Health)  
1987 to Present Director, Biometric Consulting Laboratory, Department of Biostatistics, University of North Carolina at Chapel Hill

### PREVIOUS PROFESSIONAL EXPERIENCE

1995-2000 Visiting Professor, DeMontfort University, Leicester, UK  
Summer 1985 Visiting Professor, New Mexico State University  
Summer 1982 Visiting Professor, University of Massachusetts  
Summer 1972 Visiting Professor, 14th Graduate Summer Session of Statistics in Health Sciences, School of Public Health, University of California, Berkeley  
Summer 1974 Visiting Professor, 16th Graduate Summer Session of Statistics in Health Sciences, School of Public Health, University of Texas, Houston  
1963-1976 Associate Professor, Assistant Professor, Instructor, and Research Associate, Department of Biostatistics, School of Public Health, University of North Carolina at Chapel Hill  
1966-1967 Statistician, Research Triangle Institute, Research Triangle Park, NC

### PROFESSIONAL AFFILIATIONS

American Statistical Association (Elected Fellow in August 1972, Dixon Award for Excellence in Statistical Consulting in August 2012, Karl E. Peace Award for Outstanding Statistical Contributions for the Betterment of Society in August 2014)  
 Biometric Society (ENAR President 1979)  
 Drug Information Association (Board of Directors, 1990-91, Outstanding Service Award, 1993)  
 Sigma Xi  
 American Public Health Association (Recipient of 1974 Spiegelman Award)  
 International Statistical Institute  
 The Ohio State University (2011 Professional Achievement Award)

Visiting Lecturer for Invited Presentations, Workshops, or Short Courses:

December 1974 Food and Drug Administration, Categorical Data Analysis  
 Feb.-July 1976 National Center for Health Statistics, Categorical Data Analysis  
 July 1976 University of Delaware, Categorical Data Analysis  
 October 1976 Pharmaceutical Manufacturers Association Statistics Committee, Categorical Data Analysis  
 January 1977 University of Massachusetts, Categorical Data Analysis  
 August 1977 University of Iowa, Categorical Data Analysis  
 August 1977 Mayo Clinic, Categorical Data Analysis  
 July 1978 Oregon State University, Categorical Data Analysis  
 August 1978 Brigham Young University, Categorical Data Analysis  
 August 1982 University of Montreal, Categorical Data Analysis  
 May 1985 New Mexico State University, Categorical Data Analysis  
 May 1987 Cincinnati ASA Chapter, Categorical Data Analysis  
 July 1988 U.S. Army Operational Test and Evaluation Agency, Categorical Data Analysis  
 May 1989 National Institute on Aging, Categorical Data Analysis  
 April 1990 Louisiana State University Medical Center, Categorical Data Analysis  
 June 1990 Drug Information Association, Statistical Issues Clinical Trials  
 June 1991 Drug Information Association, Statistical Issues Clinical Trials  
 August 1991 American Statistical Association, Categorical Data Analysis  
 March 1992 Duke University Medical Center, Statistical Issues Clinical Trials  
 April 1992 Louisiana State University Medical Center, Statistical Issues Clinical Trials  
 June 1992 Drug Information Association, Statistical Issues Clinical Trials  
 June 1994 Drug Information Association, Categorical Data Analysis  
 December 1994 Biopharmaceutical Applied Statistics Symposium, Categorical Data Analysis  
 July 1995 Statistical Society of Canada, Categorical Data Analysis  
 June 1996 Food and Drug Administration, Categorical Data Analysis  
 May 1998 The Finnish Society of Biostatistics, Categorical Data Analysis  
 December 1998 Biopharmaceutical Applied Statistics Symposium, Categorical Data Analysis  
 June 2000 The Ohio State University, Categorical Data Analysis  
 September 2000 PSI Workshop (Statisticians in the Pharmaceutical Industry, United Kingdom), Nonparametric Methods for Analysis Clinical Trials  
 December 2000 Biopharmaceutical Applied Statistics Symposium, Categorical Data Analysis  
 January 2001 University of Chile, Santiago, Categorical Data Analysis  
 June 2001 Societe Francaise de Statistique (groupe Biopharmacie et Santé) Nonparametric Analysis of Covariance  
 October 2001 PSI Workshop (Statisticians in the Pharmaceutical Industry, United Kingdom), Nonparametric Methods for Analysis Clinical Trials  
 December 2003 Biopharmaceutical Applied Statistics Symposium, Categorical Data Analysis  
 June 2005 Societe Francaise de Statistique Workshop, Statistical Methods to Address Multiplicity, Toulouse, France  
 August 2006 Joint Statistical Meetings (American Statistical Association), Categorical Data Analysis, Seattle, Washington  
 November 2006 Biopharmaceutical Applied Statistics Symposium, Multiplicity in Comparisons in Randomized Clinical Trials  
 November 2010 Biopharmaceutical Applied Statistics Symposium, Categorical Data Analysis

May 2010	The Ohio State University, Chhotey Lai and Mohra Devi Rustagi Memorial Lecture, Stratified Multivariate Mann-Whitney Estimators for the Comparison of Two Treatment with Randomization Based Covariance Adjustment
July 2012	FDA/Industry Statistics Workshop, Inferiority Index and Margin in NI Trials with Binary Outcome
April 2013	University of Kentucky, R.L. Anderson Lecture, Analysis of Covariance: Model-based and Nonparametric
November 2013	ASA New Jersey Chapter/Bayer Statistics Workshop
May 2014	Quintiles Trends and Innovations in Clinical Trials Conference, Overview of Strategies to Address Multiplicity for Primary and Key Secondary Assessments in Confirmatory Clinical Trials
November 2014	Short Course on Crossover Designs, BASS XXI, Rockville, Maryland
January 2015	Food and Drug Administration, Seminar on “A Multistage Noninferiority Study Design and Analysis Plan to Evaluate Successively More Stringent Criteria”
May 2016	Quintiles Trends and Innovations in Clinical Trials Conference
December 2016	NCTraCS, Biostatistics Seminar Series for Clinical and Translational Scientists, Analysis of Covariance: Model-based and Nonparametric
September 2017	FDA Seminar, Analysis of Covariance: Model-based and Nonparametric

#### SERVICE TO GOVERNMENT PROGRAMS AND PROFESSIONAL ASSOCIATIONS

June 1971	Consultant, Office of International Statistical Programs, NCHS (DHEW)
1971-1984	Consultant, Office of Defects Investigation, National Highway Traffic Safety Administration (DOT)
1973-1975	Consultant, Manual on Standards for Review Statistical Reports, Office of Statistical Methods, NCHS (DHEW)
1973-1977	Member, Dental Study Section, Division of Research Grants, NIH (DHEW)
1974-1977	Statistical Expert, Bureau of Drugs, FDA (DHEW)
1975-1978	Member, Committee on Research on Law Enforcement and Criminal Justice, Assembly of Behavioral and Social Sciences, National Research Council (NRC)
1976-1978	Consultant, Consumer Product Safety Commission Bureau of Epidemiology
1976-1980	Consultant, Alaska Judicial Council
1981-1984	Member, Committee on National Statistics, Assembly of Behavioral and Social Sciences, NRC
1984-1987	Member, Panel on Statistics for an Aging Population, Committee on National Statistics, Assembly of Behavioral and Social Sciences, NRC
1983-1987	Consultant, Circulatory Systems Devices Panel, National Center for Devices and Radiological Health, FDA
1987-1991	Consultant, National Vietnam Veteran Readjustment Study, Veterans Administration
1970-1974	Book Review Editor for Technometrics
1975-1979	Associate Editor for Biometrics
1975-1977	Member, Regional Committee on ENAR Biometric Society
1975	ENAR Biometric Society Program Chairman for Annual Meeting
1977	American Statistical Association Program Chairman for Annual Meeting
1976-1977	Associate Editor, The American Statistician
1980	Chairman, American Statistical Association Biometric Section
1981-1984	Editor, The American Statistician
1980-1986	Visiting Lecturer Program, Committee of Presidents of Statistical Societies
1985-1986	Member, Editorial Board, Drug Information Journal
1985-1989	Co-Chairman, American Statistical Association Sesquicentennial Committee
1989-present	Member, Editorial Board, Statistics in Medicine
1990-present	Member, Editorial Board, Journal of Biopharmaceutical Statistics
1990, 1991	Guest Editor, Drug Information Journal, Volume 24, No. 2, Volume 25, No. 3

1990-1991	Member, Board of Directors, Drug Information Association
1990-1991	Program Chair, Section on Survey Research Methods, American Statistical Association
1992	Program Chair, Drug Information Association, Workshop on Statistical Issues
1993-2001	Program Committee, Drug Information Association Annual Meeting
1993	Guest Editor, Drug Information Journal, Volume 27, No. 3
	September 1993 Chairman, Scientific Committee, Statistical Methods in Biopharmacy Conference in Paris, France
1994	Chairman, Fisher Lecture Award Committee, Committee of Presidents of Statistical Societies
1995-2012	Member, Editorial Board, Drug Information Journal
2002	Program Chair, Drug Information Association Annual Meeting
2002-2012	Member, Editorial Board, Pharmaceutical Statistics
2004-2008	Data and Safety Monitoring Board, VA/NIH Acute Renal Failure Trial Network (ATN) Study, Intensive vs Conventional Renal Support in Acute Renal Failure (VA Cooperative Study #530)

Publications:

(Excluding Those in the Proceedings of Annual Meeting of American Statistical Association)

1. Koch, G.G. [1967]. A general approach to the estimation of variance components. *Technometrics* 9, 93-117.
2. Koch, G.G. [1967]. An algorithm to determine the compatibility of donor-recipient pairs in organ transplantation. *Mathematical Biosciences* 1, 27-37.
3. Koch, G.G. [1967]. A type of statistical analysis useful in experiments involving drugs with transient effects. *Mathematical Biosciences* 1, 413-419.
4. Koch, G.G. [1967]. A procedure to estimate the population mean in random effects models. *Technometrics* 9, 577-585.
5. Bhapkar, V.P. and Koch, G.G. [1968]. Hypotheses of 'no interaction' in multi-dimensional contingency tables. *Technometrics* 10, 107-123.
6. Koch, G.G. and Sen, P.K. [1968]. Some aspects of the statistical analysis of the 'mixed model'. *Biometrics* 24, 27-48.
7. Koch, G.G. [1968]. Some further remarks concerning 'a general approach to the estimation of variance components'. *Technometrics* 10, 551-558.
8. Bhapkar, V.P. and Koch, G.G. [1968]. On the hypotheses of 'no interaction' in contingency tables. *Biometrics* 24, 567-594.
9. Palumbo, L., Jr., Shingleton, H.M., Fishburne, J.I., Jr., Pepper, F.D., Jr. and Koch, G.G. [1969]. Primary carcinoma of the vagina. *Journal of the Southern Medical Association* 62, 1048-1053.
10. Koch, G.G. [1969]. Some aspects of the statistical analysis of 'split-plot' experiments in completely randomized layouts. *Journal of the American Statistical Association* 65, 485-505.
11. Grizzle, J.E., Starmer, C.F., and Koch, G.G. [1969]. Analysis of categorical data for linear models. *Biometrics* 25, 489-504.
12. Koch, G.G. [1969]. The effect of nonsampling errors on measures of association in 2x2 contingency tables. *Journal of the American Statistical Association* 65, 851-864.
13. Koch, G.G. [1969]. A useful lemma for proving the equality of two matrices with applications to least squares type quadratic forms. *Journal of the American Statistical Association* 65, 969-970.
14. Horvitz, D.G. and Koch, G.G. [1969]. The effect of response errors on measures of association. New Developments in Survey Sampling, edited by Norman L. Johnson and Harry Smith, Jr., John Wiley and Sons, 247-282.
15. Koch, G.G. [1969]. A class of covers for finite projective geometries which are related to the design of combinatorial filing systems. *Journal of Combinatorial Theory* 7, 215-220.
16. Bose, R.C. and Koch, G.G. [1969]. The design of combinatorial information retrieval systems for files with multiple-value attributes. *The SIAM Journal of Applied Mathematics* 17, 1203-1214.

17. Koch, G.G. [1969]. The design of combinatorial filing systems for efficient information retrieval. *The Information Bazaar: Proceedings of the Sixth Annual National Colloquium on Information Retrieval*, edited by Louis Schultz, Medical Documentation Service, The College of Physicians of Philadelphia, 327-344.
18. Koch, G.G. [1970]. The use of non-parametric methods in the statistical analysis of a complex split-plot experiment. *Biometrics* 26, 105-128.
19. Johnson, W.D. and Koch, G.G. [1970]. Analysis of qualitative data: linear functions. *Health Services Research* 5, 358-369.
20. Shingleton, H.M., Fowler, W.C., Palumbo, L., Jr. and Koch, G.G. [1970]. Carcinoma of the vulva: Influence of radical operation on cure rate. *Obstetrics Gynecology* 35, 1-6.
21. Koch, G.G. and Reinfurt, D.W. [1971]. The analysis of complex contingency table data from general experimental designs and sample surveys. *Proceedings of the Sixteenth Conference on the Design of Experiments in Army Research, Development, and Testing*. Fort Lee, Virginia, 453-527.
22. Shingleton, H.M., Fowler, W.C. and Koch, G.G. [1971]. Pretreatment evaluation in cervical cancer. *American Journal of Obstetrics and Gynecology* 110, 385-389.
23. Voors, A.W., Reddick, R.L. and Koch, G.G. [1971]. Trace metals may decrease hypercholesterolemia in crowded cholesterol-fed roosters. *Environmental Research* 4, 520-529.
24. Johnson, W.D. and Koch, G.G. [1971]. A note on the weighted least squares analysis of Ries-Smith contingency table data. *Technometrics* 13, 438-447.
25. Koch, G.G. and Reinfurt, D.W. [1971]. The analysis of categorical data from mixed models. *Biometrics* 27, 157-173.
26. Koch, G.G. [1972]. The use of nonparametric methods in the statistical analysis of the two-period-change-over design. *Biometrics* 28, 577-584.
27. Koch, G.G., Imrey, P.B. and Reinfurt, D.W. [1972]. Linear model analysis of categorical data with incomplete response vectors. *Biometrics* 28, 663-692.
28. Koch, G.G., Johnson, W.D. and Tolley, H.D. [1972]. A linear models approach to the analysis of survival and extent of disease in multi-dimensional contingency tables. *Journal of the American Statistical Association* 67, 783-796.
29. Koch, G.G. and Lemeshow, S. [1972]. An application of multivariate analysis to complex sample survey data. *Journal of the American Statistical Association* 67, 780-782.
30. Crist, T., Shingleton, H.M. and Koch, G.G. [1972]. Stress incontinence and the nulliparous patient. *Obstetrics Gynecology* 40, 13-17.
31. Woolweaver, D.A., Koch, G.G., Crawford, J.J. and Lundblad, R.L. [1972]. Relation of the orogranulocytic migratory rate to periodontal disease and blood leukocyte count: A clinical study. *Journal of Dental Research* 51, 929-939.
32. Forthofer, R.N. and Koch, G.G. [1973]. An analysis for compounded functions of categorical data. *Biometrics* 29, 143-157.
33. Koch, G.G. [1973]. An alternative approach to multivariate response error models for sample survey data with applications to estimators involving subclass means. *Journal of the American Statistical Association* 68, 906-913.

34. Lehnen, R.G. and Koch, G.G. [1974]. A general linear approach to the analysis of non-metric data: application for political science. *American Journal of Political Science* 18, 283-313.
35. Freeman, J.L. and Koch, G.G. [1974]. Linear segmented analysis: statistical methodology for analyzing frequency tables pertaining to the relationship between unwanted pregnancies and media-time factors. Appendix C in The Media and Family Planning by J.R. Udry et al. Cambridge, Massachusetts: Ballinger Publishing Company, 201-213.
36. Forthofer, R.N. and Koch, G.G. [1974]. A program for the analysis for compounded functions of categorical data. *Computer Programs in Biomedicine* 3, 237-248.
37. Koch, G.G. and Forthofer, R.N. [1974]. An extension of the symmetric sum approach to the estimation of variance components. *Biometrische Zeitschrift* 16, 3-14.
38. Lehnen, R.G. and Koch, G.G. [1974]. Analyzing panel data with uncontrolled attrition. *The Public Opinion Quarterly* 38, 40-56.
39. Koch, G.G. and Reinfurt, D.W. [1974]. An analysis of the relationship between driver injury and vehicle age for automobiles involved in North Carolina accidents during 1966-1970. *Accident Analysis and Prevention* 6, 1-18.
40. Lehnen, R.G. and Koch, G.G. [1974]. The analysis of categorical data from repeated measurement research designs. *Political Methodology* 1, 103-123.
41. Koch, G.G. and Tolley, H.D. [1975]. A generalized modified 2 analysis of categorical data from a complex dilution experiment. *Biometrics* 31, 59-92.
42. Koch, G.G. Abernathy, J.R. and Imrey, P.B. [1975]. On a method for studying family size preferences. *Demography* 12, 57-66.
43. Koch, G.G., Freeman, D.H., Jr. and Freeman, J.L. [1975]. Strategies in the multivariate analysis of data from complex surveys. *International Statistical Review* 43, 59-78.
44. Landis, J.R. and Koch, G.G. [1975]. A review of statistical methods in the analysis of data arising from observer reliability studies, Part I. *Statistica Neerlandica* 29, 101-123.
45. Landis, J.R. and Koch, G.G. [1975]. A review of statistical methods in the analysis of data arising from observer reliability studies, Part II. *Statistica Neerlandica* 29, 151-161.
46. Clarke, S.H. and Koch, G.G. [1975]. A study of self-reported delinquency in Charlotte/Mecklenburg. *Popular Government* 41, 37-43.
47. Bauman, K.E., Koch, G.G., Udry, J.R. and Freeman, J.L. [1975]. The relationship between legal abortion and marriage. *Social Biology* 22, 117-124.
48. Clarke, S.H., and Koch, G.G. [1975]. Who goes to prison? Report on study of persons arrested for burglary and larceny. *Popular Government* 41, 25-37.
49. Clarke, S.H., Freeman, J.L. and Koch, G.G. [1976]. Bail risks: A multivariate analysis. *Journal of Legal Studies* 5, 341-385.
50. Clarke, S.H., Freeman, J.L. and Koch, G.G. [1976]. The effectiveness of bail systems. *Popular Government* 42, 22-37.

51. Clarke, S.H. and Koch, G.G. [1976]. The influence of income and other factors on whether criminal defendants go to prison. *The Law and Society Review* 11, 57-92.
52. Surwit, E., Fowler, W.C., Jr, Palumbo, L., Koch, G.G. and Gjertsen, W. [1976]. Radical hysterectomy with or without preoperative radium for stage 1B squamous cell carcinoma of the cervix. *Obstetrics and Gynecology* 48, 130-133.
53. Koch, G.G., Freeman, J.L. and Lehnen, R.G. [1976]. A general methodology for the analysis of ranked policy preference data. *International Statistical Review* 44, 1-28.
54. Koch, G.G., Tolley, H.D. and Freeman, J.L. [1976]. An application of the clumped binomial model to the analysis of clustered attribute data. *Biometrics* 32, 337-354.
55. Imrey, P.B., Johnson, W.D. and Koch, G.G. [1976]. An incomplete contingency table approach to paired-comparison experiments. *Journal of the American Statistical Association* 71, 614-623.
56. Koch, G.G., Imrey, P.B., Freeman, D.H., Jr. and Tolley, H.D. [1976]. The asymptotic covariance structure of estimated parameters from contingency table log-linear models. *Proceedings of the 9th International Biometric Conference* 6, 317-336.
57. Landis, J.R., Stanish, W.M., Freeman, J.L. and Koch, G.G. [1976]. A computer program for the generalized chi-square analysis of categorical data using weighted least squares (GENCAT). *Computer Programs in Biomedicine* 6, 196-231.
58. Koch, G.G., El-Khorazaty, M.N. and Lewis, A.L. [1976]. The asymptotic covariance structure of log-linear model estimated parameters for the multiple recapture census. *Communications in Statistics A* 5, 1425-1455.
59. Freeman, D.H., Jr., Freeman, J.L., Brock, D.B. and Koch, G.G. [1976]. Strategies in the multivariate analysis of data from complex surveys II: An application to the United States National Health Interview Survey. *International Statistical Review* 44, 317-330.
60. Freeman, D.H., Jr., Freeman, J.L., Koch, G.G. and Brock, D.B. [1976]. An analysis of physician visit data from a complex survey. *American Journal of Public Health* 66, 979-983.
61. Koch, G.G., Landis, J.R., Freeman, J.L., Freeman, D.H., Jr. and Lehnen, R.G. [1977]. A general methodology for the analysis of experiments with repeated measurements of categorical data. *Biometrics* 33, 133-158.
62. Landis, J.R. and Koch, G.G. [1977]. The measurement of observer agreement for categorical data. *Biometrics* 33, 159-174.
63. Landis, J.R. and Koch, G.G. [1977]. An application of hierarchical Kappa-type statistics in the assessment of majority agreement among multiple observers. *Biometrics* 33, 363-374.
64. Higgins, J.E. and Koch, G.G. [1977]. Variable selection and generalized chi-square analysis of categorical data applied to a large cross-sectional occupational health survey. *International Statistical Review* 45, 51-62.
65. El-Khorazaty, M.N., Imrey, P.B., Koch, G.G. and Wells, H.B. [1977]. Estimating the total number of events with data from multiple-record systems: a review of methodological strategies. *International Statistical Review* 45, 129-157.
66. Landis, J.R. and Koch, G.G. [1977]. A one-way components of variance model for categorical data. *Biometrics* 33, 671-679.



67. Bauman, K.E., Anderson, A.E., Freeman, J.L. and Koch, G.G. [1977]. Legal abortions and trends in age-specific marriage rates. *The American Journal of Public Health* 67, 52-53.
68. Sutton, R., Hood, W.P., Jr. and Koch, G.G. [1977]. Non-invasive assessment of left ventricular function in chronic heart disease. *American Heart Journal* 9, 289-297.
69. Bauman, K.E., Anderson, A.E., Freeman, J.L. and Koch, G.G. [1977]. Legal abortions, subsidized family planning services, and the U.S. 'birth death'. *Social Biology* 24, 183-191.
70. Hull, J.H., Murray, W.J., Brown, H.S., Williams, B.O., Chi, S.L. and Koch, G.G. [1978]. Potential anticoagulant drug interactions in ambulatory patients. *Clinical Pharmacology and Therapeutics* 24(6), 644-649.
71. Johnson, W.D. and Koch, G.G. [1978]. Linear models analysis of competing risks for grouped survival times. *International Statistical Review* 46, 21-51.
72. Freeman, D.H., Jr., Freeman, J.L. and Koch, G.G. [1978]. A modified chi-squared approach for fitting Weibull models to synthetic life tables. *Biometrische Zeitschrift* 20, 29-40.
73. Stanish, W.M., Gillings, D.B. and Koch, G.G. [1978]. An application of multivariate ratio methods for the analysis of a longitudinal clinical trial with missing data. *Biometrics* 34, 305-317.
74. Koch, G.G., Grizzle, J.E., Semanya, K. and Sen, P.K. [1978]. Statistical methods for evaluation of mastitis treatment data. *Journal of Dairy Science* 61, 829-847.
75. Stanish, W.M., Koch, G.G. and Landis, J.R. [1978]. A computer program for multivariate ratio analysis (MISCAT). *Computer Programs in Biomedicine* 8, 197-207.
76. Stanish, W.M., Chi, G.Y.H., Johnson, W.D., Koch, G.G., Landis, J.R. and Liu-Chi, S. [1978]. A computer program for the generalized chi-square analysis of competing risks grouped survival data (CRISCAT). *Computer Programs in Biomedicine* 8, 208-223.
77. Landis, J.R., Heyman, E.R. and Koch, G.G. [1978]. Average partial association in three-way contingency tables: a review and discussion of alternative tests. *International Statistical Review* 46, 237-254.
78. Salama, I.A., Koch, G.G. and Tolley, H.D. [1978]. On the estimation of the most probable number in a serial dilution experiment. *Communications in Statistics A*, 7 1267-1281.
79. Landis, J.R., Cooper, M.M., Kennedy, T. and Koch, G.G. [1979]. A computer program for testing average partial association in three-way contingency tables (PARCAT). *Computer Programs in Biomedicine* 9, 223-246.
80. Koch, G.G. [1979]. Invited discussion of "Small area estimation--synthetic and other procedures, 1968-1978" by Paul Levy. *Proceedings of the NIDA/NCHS workshop on Synthetic Estimates for Small Areas: Statistical Workshop Papers and Discussion*, NIDA Research Monograph 24, DHEW Publication No. (ADM)79-801. Washington, DC: U.S. Government Printing Office, 24-29.
81. Curtin, L.R., Frockt, I.J. and Koch, G.G. [1979]. A note on the analysis of parity progression ratios. *Demography* 16(3), 481-484.
82. Landis, J.R. and Koch, G.G. [1979]. The Analysis of Categorical Data in Longitudinal Studies of Behavioral Development. Chapter 9 in Longitudinal Research in the Study of Behavior and Development, edited by J.R. Nesselroade and P.B. Baltes. Academic Press, New York, 233-261.

83. Grizzle, J.E. and Koch, G.G. [1979]. Some applications of categorical data analysis to epidemiological studies. *Environmental Health Perspectives* 32, 169-179.
84. de la Paz, L.R., Kerigan, A.T., Koch, G.G., Kolman, W.A. and Spodick, D.H. [1979]. Erythrityl tetranitrate: Sustained effects on systolic time intervals. Changes consistent with sustained preload reduction. *The American Journal of the Medical Sciences* 227(2), 173-177.
85. Clarke, S. and Koch, G.G. [1980]. Juvenile court: therapy or crime control and do lawyers make a difference? *Law and Society Review* 14(2), 263-308.
86. Hanker, J.S., Ambrose, W.W., Yates, P.E., Koch, G.G. and Carson, K.A. [1980]. Peripheral neuropathy in mouse hereditary diabetes mellitus. I Comparison of neurologic, histologic, and morphometric parameters with dystonic mice. *Acta Neuropathologica* 51, 145-153.
87. Blumstein, A. and Koch, G.G. [1980]. Criminal justice planning - a prolegomenon for a macro model for criminal justice planning: JUSSIM III. Indicators of Crime and Criminal Justice: Quantitative Studies, S.E. Fienberg and A.J. Reiss, Jr. (eds.), U.S. Department of Justice, Bureau of Justice Statistics Report NCJ-62349, Washington, DC: U.S. Government Printing Office, 99-108.
88. Koch, G.G., Gillings, D.B. and Stokes, M.E. [1980]. Biostatistical implications of design, sampling and measurement to the analysis of health science data. *Annual Review of Public Health* 1, 163-225.
89. Amara, I.A. and Koch, G.G. [1980]. A macro for multivariate randomization analysis of stratified sample data. *Proceedings of the Fifth Annual SAS Users Group Conference*, 134-144.
90. Monti, K., Koch, G.G. and Sawyer, J. [1980]. Segmented linear regression models applied to the analysis of data from a cross-sectional growth experiment. *Biometrical Journal* 22(1), 23-39.
91. Koch, G.G., Amara, I.A., Stokes, M.E. and Gillings, D.B. [1980]. Some views on parametric and non-parametric analysis for repeated measurements. *International Statistical Review* 48(3), 249-265.
92. Koch, G.G. [1980]. Discussion of "Regression models for ordinal data" by P. McCullagh. *Journal of the Royal Statistical Society, Series B* 42(2), 137-138.
93. Koch, G.G. [1981]. Commentary on Statistical Issues Underlying the Evaluation of a Social Policy Change on Motor Vehicle Accident Involvement. *Accident Analysis and Prevention* 13(4), 323-329.
94. Imrey, P.B., Koch, G.G. and Stokes, M.E., in collaboration with J.N. Darroch, D.H. Freeman, Jr. and H.D. Tolley [1981]. Categorical data analysis: Some reflections on the log linear model and logistic-regression. *International Statistical Review* 49, 265-283.
95. Schnitman, P.A., Shulman, L.B. and Koch, G.G. [1981]. Research design, statistics, and general methodology for this consensus development conference. Dental Implant: Benefits and Risk, Washington, DC: U.S. Government Printing Office, 11-49.
96. Hull, J.H., Hak, L.J., Koch, G.G., Wargin, W.A., Chi, S.L. and Mattocks, A.M. [1981]. Influence of range of renal function and liver disease on the predictability of creatinine clearance. *Clinical Pharmacology and Therapeutics* 29(4), 516-521.

97. Rumack, B.H., Peterson, R.G., Koch, G.G. and Amara, I.A. [1981]. Acetaminophen overdose: 662 cases with evaluation of oral N-acetylcysteine treatment. *Archives of Internal Medicine*, 380-385.
98. Shapiro, W., Park, J. and Koch, G.G. [1982]. Variability of spontaneous and exercise-induced ventricular arrhythmias in the absence and presence of treatment with acebutolol or quinidine. *The American Journal of Cardiology* 49, 445-453.
99. Bauman, K.E., Koch, G.G. and Bryan, E.S. [1982]. Validity of self reports of adolescent cigarette smoking. *International Journal of the Addictions* 17, 1131-1136.
100. Koch, G.G. and Bhapkar, V.P. [1982]. Chi-square tests. Encyclopedia of Statistical Sciences, Vol. 1, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 442-457.
101. Koch, G.G. and Stokes, M.E. [1982]. Chi-square tests: Numerical examples. Encyclopedia of Statistical Sciences, Vol. 1, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 457-472.
102. Imrey, P.B., Koch, G.G. and Stokes, M.E., in collaboration with J.N. Darroch, D.H. Freeman, Jr. and H.D. Tolley [1982]. Categorical data analysis: Some reflections on the log linear model and logistic regression. Part II: Data analysis. *International Statistical Review* 50, 35-63.
103. Koch, G.G. [1982]. Discussion of "Graduate programs in statistics." *Proceedings of the Conference on Teaching of Statistics and Statistical Consultation*, edited by J. Rustagi and D. Wolfe, Academic Press, New York, 101-111.
104. Imrey, P.B., Koch, G.G. and Davis, G.W. [1982]. Applications of log-linear models to epidemiologic research. *Proceedings of the Canadian Conference on Applied Statistics*, edited by T.D. Dwivedi, Academic Press, New York.
105. Koch, G.G., Amara, I.A., Davis, G.W. and Gillings, D.B. [1982]. A review of some statistical methods for covariance analysis of categorical data. *Biometrics* 38(3), 563-595.
106. Bauman, K.E., Bryan, E.S., Dent, C.W. and Koch, G.G. [1983]. The influence of observing carbon monoxide level on cigarette smoking by public prenatal patients. *American Journal of Public Health* 73(9), 1089-1091.
107. Bauman, K.E. and Koch, G.G. [1983]. Validity of self-reports and descriptive and analytical conclusions: The case of cigarette smoking by adolescents and their mothers. *American Journal of Epidemiology* 118(1), 90-98.
108. Koch, G.G. [1983]. Intraclass correlation. Encyclopedia of Statistical Sciences, Vol. 4, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 212-217.
109. Koch, G.G. and Gillings, D.B. [1983]. Inference, design based vs. model based. Encyclopedia of Statistical Sciences, Vol. 4, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 84-88.
110. Koch, G.G. [1983]. Hierarchical kappa statistics. Encyclopedia of Statistical Sciences, Vol. 3, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 630-631.
111. Koch, G.G., Amara, I.A., Atkinson, S.S. and Stanish, W.M. [1983]. Overview of categorical data analysis. *Proceedings of the Eighth Annual SAS Users Group International Conference*, 785-794.

112. Koch, G.G. and Stokes, M.E. [1983]. A macro for maximum likelihood fitting of log-linear models to Poisson and multinomial counts with contrasts matrix capability for hypothesis testing. *Proceedings of the Eight Annual SAS Users Group International Conference*, 795-800.
113. Kempthorne, W.J. and Koch, G.G. [1983]. A general approach for the analysis of attribute data from a two-stage nested design: One and two treatments per cluster. Contributions to Statistics: Essays in Honour of Norman L. Johnson, P.K. Sen (ed.), North-Holland Publishing Company, 259-281.
114. Semanya, K.A., Koch, G.G., Stokes, M.E. and Forthofer, R.N. [1983]. Linear models methods for some rank function analyses of ordinal categorical data. *Communications in Statistics A* 12(11), 1277-1298.
115. Salama, I., Quade, D. and Koch, G.G. [1983]. Tables for testing the equality of two proportions when prior information on their common value may be available. *Biometrical Journal* 25(3), 301-320.
116. Koch, G.G., Gitomer, S.L., Skalland, L. and Stokes, M.E. [1983]. Some non-parametric and categorical data analyses for a changeover design study and discussion of apparent carryover effects. *Statistics in Medicine* 2, 397-412.
117. Kempthorne, W.J. and Koch, G.G. [1983]. Statistical methodology for binary data from a set of partially structured two-way random cross-classifications. *Communications in Statistics* 12(23), 2761-2777.
118. Koch, G.G. and Sollecito, W.A. [1984]. Statistical considerations in the design, analysis, and interpretation of comparative clinical studies. *Drug Information Journal* 18, 131-151.
119. Gillings, D.B., Koch, G.G. et al. [1984]. Pooling 12 nomifensine studies for efficacy generalizability. *Journal of Clinical Psychiatry*, 45:4pt2(suppl), 78-84.
120. Koch, G.G. and Amara, I.A. [1984]. On generating statistics, formatting results and efficiency. *Proceedings of the Ninth Annual SAS Users Group International Conference*, 901-906.
121. Stanish, W.M. and Koch, G.G. [1984]. Repeated measurement analysis of categorical data. *Proceedings of the Ninth Annual SAS Users Group International Conference*, 761-770.
122. Koch, G.G., McCanless, I., and Ward, J.F., Jr. [1984]. Interpretation of statistical methodology associated with maintenance trials. *The American Journal of Medicine*, Vol. 77, 43-50.
123. Koch, G.G., Sen, P.K. and Amara, I.A. [1985]. Logrank scores, statistics, and tests. Encyclopedia of Statistical Sciences, Vol. 5, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 136-142.
124. Koch, G.G. and Edwards, S. [1985]. Logistic regression. Encyclopedia of Statistical Sciences, Vol. 5, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 128-133.
125. Koch, G.G. [1985]. Multiple record systems. Encyclopedia of Statistical Sciences, Vol. 5, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 717-718.
126. Koch, G.G., Singer, J.M. and Amara, I.A. [1985]. A two-stage procedure for the analysis of ordinal categorical data. Biostatistics: Statistics in Biomedical, Public Health and Environmental Sciences, edited by P.K. Sen, North Holland Publishing Company, Amsterdam, 357-387.
127. Stanek, E.J., III, and Koch, G.G. [1985]. The equivalence of parameter estimates from growth curve models and seemingly unrelated regression models. *The American Statistician* 39, 149-152.

128. Koch, G.G., Imrey, P.B., Singer, J.M., Atkinson, S.S. and Stokes, M.E. [1985]. Analysis of categorical data. In Collection Seminaire de Mathematiques Superieures 96, edited by G. Sabidussi, Les Presses de L'Universite de Montreal, Montreal.
129. Koch, G.G. [1985]. A basic demonstration of the [-1,1] range for the correlation coefficient. *The American Statistician* 39, 201-202.
130. Chaparas, S., Vandiviere, H., Melvin, I., Koch, G.G. and Becker, C. [1985]. Tuberculin test, variability with the Mantoux procedure. *American Review Respiratory Diseases*, Vol. 132, 175-177.
131. Griggs, T., Bauman, R., Reddick, R., Read, M., Koch, G.G. and Lamb, M. [1986]. Development of coronary arteriosclerosis in hypercholesterolemic swine: lack of influence of Von Willebrand Factor or acute intimal injury. *Arteriosclerosis*, 155-165.
132. Sheps, D.S., Adams, K., Woelfel, A., Chatterjee, B., Price, C., McCallister, S., Bissette, J. and Koch, G.G. [1986]. Acute effects of carbon monoxide on cardiac rhythm. *Proceedings of the Third Annual Asilomar Conference*, Health Effects Institute.
133. Koch, G.G., Atkinson, S.S. and Stokes, M.E. [1986]. Poisson regression. Encyclopedia of Statistical Sciences, Vol. 7 edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 32-42.
134. Koch, G.G., Elashoff, J.D. and Amara, I.A. [1987]. Repeated measurements studies, design and analysis. Encyclopedia of Statistical Sciences, Vol. 8 edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 46-73.
135. Boyd, G. and Associates [1987]. Use of smokeless tobacco among children and adolescents in the United States. *Preventive Medicine* 16, 402-421.
136. Kuczmarski, R., Fanelli, M. and Koch, G.G. [1987]. Ultrasonic assessment of body composition in obese adults: Overcoming the limitations of the caliper. *The American Journal of Clinical Nutrition*, 717-723.
137. Sheps, D., Adams, K., Goldstein, G., O'Neill, J., Koch, G.G. and Bromberg, P. [1987]. Lack of effect of low levels of carboxyhemoglobin on cardiovascular function in patients with ischemic heart disease, *Archives Environmental Health*, 42, 108-116.
138. Sheps, D., Adams, K., Hinderliter, A., Koch, G.G., Price, C., Bissette, J., Orlando, G. and Margolis, B. [1987]. Endorphins are related to pain perception in coronary artery disease, *American Journal of Cardiology*, Vol. 59, 523-527.
139. Gillings, D., Koch, G.G., Reich, T. and Stager, W. [1987]. Another look at the pentoxifylline efficacy data for intermittent claudication, *The Journal of Clinical Pharmacology*, 27, 601-609.
140. Kurata, J.H., Koch, G.G., and Nogawa, A.N. [1987]. Comparison of ranitidine and cimetidine ulcer maintenance therapy. *Journal of Clinical Gastroenterology* 9, 644-650.
141. Koch, G.G. [1987]. Areas for recommendations on statistical methodology in health planning for an aging population. *Proceedings of the 1987 public health conference on Records and Statistics*, National Center for Health Statistics, Washington, D.C., 207-209.
142. Schnitman, P.A., Rubenstein, J.E., Wohrle, P.S., Dasilva, J.D., and Koch, G.G. [1988]. Implants for partial edentulism. *Journal of Dental Education*, 12, 725-736.

143. Sheps, D.S., Hinderliter, A., Bragdon, E., Adams, K.F., Herbst, M.C., and Koch, G.G. [1988]. Endorphins and pain perception in silent myocardial ischemia. *American Journal of Cardiology* 61, 3F-6F.
144. Sheps, D.S., Koch, G.G., Bragdon, E.E., Ballenger, M.N., and McMurray, R.G. [1988]. The reproducibility of resting and post exercise plasma B-endorphins. *Life Sciences* 43, 787-791.
145. Iglhaut, J., Aukhil, I., Simpson, D.M., Johnston, M.C., and Koch, G.G. [1988]. Progenitor cell kinetics during guided tissue regeneration in experimental periodontal wounds. *Journal of Periodontal Research* 23, 107-117.
146. Kurata, J.H., Nogawa, A.N., and Koch, G.G. [1988]. Response to Dr. Freston's article on H-2 receptor antagonists and duodenal ulcer recurrence. *The American Journal of Gastroenterology* 83, 1427-28.
147. Adams, K.F., Koch, G.G., Sheps, D.S., Chatterjee, B., Goldstein, G.M., O'Neill, J.J., Bromberg, P.A. [1988]. Acute elevation of blood carboxyhemoglobin to 6% impairs exercise performance and aggravates symptoms in patients with ischemic heart disease. *Journal of the American College of Cardiology* 12, 900-909.
148. Koch, G.G. and Edwards, S. [1988]. Clinical Efficacy Trials with Categorical Data. Chapter 9 in Handbook of Biopharmaceutical Statistics in Human Drug Development, edited by Karl E. Peace, Marcel Dekker, New York, 403-457.
149. Deddens, J. and Koch, G.G. [1988]. Survival analysis, grouped data, Encyclopedia of Statistical Sciences, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 129-134.
150. Koch, G.G. and Gillings, D.B. [1988]. Tests, one-sided versus two-sided. Encyclopedia of Statistical Sciences, edited by N.L. Johnson and S. Kotz, John Wiley and Sons, Inc., New York, 218-222.
151. Singer, J., Koch, G.G., Stinnett, S. and Warren, D. [1988]. An example of simultaneous multivariate linear modelling of among and within subject variation. *Biometrical Journal* 30, 25-39.
152. Landis, J.R., Miller, M.E., Davis, C.S., and Koch, G.G. [1988]. Some general methods for the analysis of categorical data in longitudinal studies. *Statistics in Medicine* 7, 109-137.
153. Kuritz, S.J., Landis, J.R., and Koch, G.G. [1988]. A general overview of Mantel-Haenszel methods: applications and recent developments. *Annual Review of Public Health* 9, 123-160.
154. Hafner, K.B., Koch, G.G., and Canada, A.T. [1988]. Some analysis strategies for three period changeover designs with two treatments. *Statistics in Medicine* 7, 471-481.
155. Elashoff, J.D., Koch, G.G., and Chi, G.Y.H. [1988]. Designing a clinical trial to demonstrate prevention of ulcer recurrence: modeling simulation approaches. *Statistics in Medicine* 7, 877-888.
156. Tsujitani, M., and Koch, G.G. [1988]. Linear models approach to the analysis of association in multiway cross-classifications having ordered categories. *Reports of Statistical Application Research*, JUSE 35, 1-10.
157. Koch, G.G., Amara, I.A., and Simmons, P.D. [1988]. Multi-period crossover design for the comparison of two or more active treatments and placebo. *American Statistical Association 1988 Proceedings of the Biopharmaceutical Section*, 69-78.

158. Koch, G.G., Amara, I.A., Brown, B.W., Jr., Colton, T. and Gillings, D.B. [1989]. A two-period crossover design for the comparison of two active treatments and placebo. *Statistics in Medicine* 8, 487-504.
159. Carr, G., Hafner, K.B., and Koch, G.G. [1989]. Analysis of rank measures of association for ordinal data from longitudinal studies. *Journal of the American Statistical Association* 84, 797-804.
160. Bauman, K.E., Koch, G.G., and Fisher, L.A. [1989]. Family cigarette smoking and test performance by adolescents. *Health Psychology* 8, 97-105.
161. Hinderliter, A., Adams, K., Price, C., Herbst, M., Koch, G.G., and Sheps, D.S. [1989]. Effects of low-level carbon monoxide exposure on resting and exercise-induced ventricular arrhythmias in patients with coronary artery disease and no baseline ectopy. *Archives Environmental Health*, 44, 89-93.
162. Bauman, K.E., Padgett, C.A., and Koch, G.G. [1989]. A media-based campaign to encourage personal communication among adolescents about not smoking cigarettes: Participation, selection, and consequences. *Health Education Research* 4, 35-44.
163. Hiramatsu, Y., Buchanan, J.W., Knisley, S.B., Koch, G.G., Kropp, S., and Gettes, L.S. [1989]. Influence of rate-dependent cellular uncoupling on conduction change during simulated ischemia in guinea pig papillary muscles: Effect of verapamil. *Circulation Research* 65, 95-102.
164. Bynum, T.E., Koch, G.G., and Multi-Center Study Group. [1989]. Sucralfate tablets 1 gm twice a day prevents duodenal ulcer recurrence. *American Journal of Medicine Supplement* 86, 127-132.
165. Bauman, K.E., Koch, G.G., and Lentz, M. [1989]. Parent characteristics, perceived health risk, and smokeless tobacco use among white adolescent males. *NCI Monographs* 8, 43-48.
166. Bauman, K.E., Koch, G.G., Fisher, L.A., and Bryan, E.S. [1989]. Use of smokeless tobacco by age, race, and gender in ten standard metropolitan statistical areas of southeast United States. *NCI Monographs* 8, 35-37.
167. Bauman, K.E., Fisher, L.A., and Koch, G.G. [1989]. External variables, subjective expected utility, and adolescent behavior with alcohol and cigarettes. *Journal of Applied Social Psychology* 19, 789-804.
168. Bauman, K.E., Foshee, V.A., Koch, G.G., Haley, N.J., and Downton, M.I. [1989]. Testosterone and cigarette smoking in early adolescence. *Journal of Behavioral Medicine* 12, 425-433.
169. Bauman, K.E., Koch, G.G., Bryan, E.S., Haley, N.J., Downton, M.I., and Orlandi, M.A. [1989]. On the measurement of tobacco use by adolescents: validity of self-reports of smokeless tobacco use and validity of cotinine as an indicator of cigarette smoking. *American Journal of Epidemiology* 130, 327-337.
170. Weissert, W.G., Elston, J.M., Bolda, E., Cready, C.M., Zelman, W.N., Sloane, P.D., Kalsbeek, W.D., Mutran, E., Rice, T., and Koch, G.G. [1989]. Models of adult day care: findings from a national survey. *The Gerontologist* 29, 640-649.
171. Sheps, D.S., Maixner, W., Hinderliter, A.L., Herbst, M.C., Bradgon, E.E., Herdt, J., Kropp, S., Adams, K.F., Koch, G.G., Ekelund, L.G. [1989]. The relationship between systolic blood pressure, ventricular volume, and ischemic pain perception in patients with angina pectoris: a potential role for baroreceptors. *Israel Journal of Medical Science* 25, 482-487.

172. Bawden, J.W., Deaton, T.G., Koch, G.G., and Crawford, B.P. [1989]. Effect of an acute maternal fluoride dose on fetal plasma fluoride levels and enamel fluoride uptake in guinea pigs. *Journal of Dental Research* 68(7), 1169-1172.
173. Brown, J.D., Childers, K.W., Bauman, K.E., Koch, G.G. [1990]. The influence of new media and family structure on young adolescents' television and radio use. *Communication Research* 17, 65-82.
174. Vine, M.F., Schoenbach, V.J., Hulka, B.S., Koch, G.G., Samsa, G. [1990]. Atypical metaplasia as a risk factor for bronchogenic carcinoma. *American Journal of Epidemiology*, Vol. 131, 781-793.
175. Nichols, T.C., Bellinger, D., Tate, D.A., Reddick, R., Read, M.S., Koch, G.G., Brinkhous, K., and Griggs, T. [1990]. Von Willebrand factor and occlusive arterial thrombosis: A study in normal and von Willebrand disease pigs with diet-induced hypercholesterolemia atherosclerosis. *Arteriosclerosis* 10, 449-461.
176. Koch, G.G., and Beck, J.D. [1990]. Statistical concepts: a matrix for identification of model types. Risk Assessment in Dentistry, American Association of Dental Schools, Washington, D.C., 174-192.
177. Miller, P.F., Sheps, D.S., Bragdon, E., Herbst, M.C., Dalton, J.H., Hinderliter, A.L., Koch, G.G., Ekelund, L.G. [1990]. Aging and pain perception in ischemic heart disease. *American Heart Journal* 120, 22-30.
178. Beck, J.D., Koch, G.G., Rozier, R.G., Tudor, G. [1990]. Prevalence and risk indicators of periodontal attachment loss in a population of older community-dwelling blacks and whites. *Journal of Periodontology* 61, 521-528.
179. Sheps, D.S., Hinderliter, A.L., Ekelund, L.G., Goldstein, G.M., Bromberg, P.A., Dalton, J.L., Ballenger, M.N., Davis, S.M., and Koch, G.G. [1990]. Production of arrhythmias by 4% and 6% carboxyhemoglobin in patients with coronary heart disease, *Annals of Internal Medicine*, 113, 343-351.
180. Blanton, K.J., Biswas, G.D., Tsai, J., Adams, J., Dyer, D.W., Davis, S.M., Koch, G.G., Sen, P.K., and Sparling, F. [1990]. Genetic evidence that *Neisseria gonorrhoeae* produces specific receptors for transferrin and lactoferrin, *Journal of Bacteriology*, 172, 5225-5235.
181. Bauman, K.E., Foshee, V.A., Linzer, M.A., and Koch, G.G. [1990]. Effect of parental smoking classification on the association between parental and adolescent smoking, *Addictive Behaviors*, 15, 413-422.
182. Koch, G.G., Carr, G.J., Amara, I.A., Stokes, M.E., and Uryniak, T.J. [1990]. Categorical Data Analysis, Chapter 13 in *Statistical Methodology in the Pharmaceutical Sciences*, edited by D.A. Berry, Marcel Dekker, New York, 389-473.
183. Edwards, S., Koch, G.G., Peace, K.E., and Sollecito, W. [1990]. Summarization, analysis and monitoring of adverse experiences. Chapter 2. In: *Statistical issues in drug research and development*, K.E. Peace (ed), Marcel Dekker, Inc., New York, 19-170.
184. Koch, G.G., Leone, F.C., and Mason, R.L. [1990]. ASA celebrates sesquicentennial, *The American Statistician* 44, 113-115.
185. Elashoff, J.D., and Koch, G.G. [1990]. Statistical methods in trials of anti-ulcer drugs. Chapter 18 in *Ulcer Disease: Investigation and Basis for Therapy*, E. Swabb and S. Szabo (eds.), Marcel Dekker, Inc., New York, 375-406.



186. Koch, G.G., Tangen, C., Tudor, G., and Stokes, M.E. [1990]. Discussion: Strategies and issues for the analysis of ordered categorical data from multifactor studies in industry. *Technometrics* 32, 137-149.
187. Koch, G.G., Stinnett, S. and Sollecito, W.A. [1990]. Summary and discussion for experimental design considerations in drug development. *Drug Information Journal*, 24, 407-418.
188. Howard, G. and Koch, G.G. [1990]. The GLM Log-rank test: general linear modeling of log-rank scores as a method of analysis for survival data. *Communications in Statistics Simulation*, 19, 903-917.
189. Koch, G.G. [1991]. Comment (for paper by D'Agostino and Heeren on multiple comparisons). *Statistics in Medicine*, 10, 13-16.
190. Koch, G.G. [1991]. Summary and discussion for statistical issues in the pharmaceutical industry: analysis and reporting of Phase III clinical trials including kinetic/dynamic analysis and Bayesian analysis, *Drug Information Journal*, 25, 433-437.
191. Elston, J.M., Koch, G.G., Weissert, W.G. [1991]. Regression-adjusted small area estimates of functional dependency in the noninstitutional aged. *American Journal of Public Health*, Vol. 81, 335-343.
192. Bauman, K.E., Laprelle, J., Brown, J.D., Koch, G.G., and Padgett, C.A. [1991]. The influence of three mass media campaigns on variables related to adolescent cigarette smoking: results of a field experiment. *American Journal of Public Health*, 81, 597-604.
193. Hartzema, A.G., and Koch, G.G. [1991]. Basic statistical methods in pharmacoepidemiologic study designs. Chapter 9 in Pharmacoepidemiology: An Introduction. A.G. Hartzema and H. Tilson (eds.), 142-175.
194. Koch, G.G., Kurata, J.H., and Nogawa, A.N. [1991]. Maintenance therapy of duodenal ulcer with H<sub>2</sub>-receptor antagonists: a reappraisal of the meta-analysis of Palmer et al. *Alimentary Pharmacology and Therapeutics*, 5, 441-443.
195. Johnson, T.A., Engle, C.L., Boyd, L.M., Koch, G.G., Gwinn, M., and Gettes, L.S. [1991]. Magnitude and time course of extracellular potassium inhomogeneities during acute ischemia in pigs: effect of verapamil, *Circulation Research*, 83, 622-34.
196. Curtis, J.L., Houghton, J.L., Patterson, H., Koch, G., Bradley, D.A., and Adams, K.F., Jr. [1991]. Propranolol therapy alters estimation of potential cardiovascular risk derived from submaximal postinfarction exercise testing. *American Heart Journal*, 121, 1655-1664.
197. Lacey, J., Anderson, J.J.B., Fujita, T., Yoshimoto, Y., Fukase, M., Tsuchie, S., and Koch, G. [1991]. Correlates of cortical bone mass among pre- and post-menopausal Japanese women living in Japan. *Journal of Bone and Mineral Research*, 6, 651-659.
198. Sloane, P.D., Mathew, L.J., Scarborough, M., Desai, J.R., Koch, G.G., Tangen, C. [1991]. Physical and pharmacologic restraint of dementia patients in nursing homes: impact of specialized units. *Journal of the American Medical Association*, 265(10), 1278 - 1282.
199. Headen, S.W., Bauman, K.E., Deane, G.D., and Koch, G.G. [1991]. Are the correlates of cigarette smoking initiation different for black and white adolescents? *American Journal of Public Health*, 81, 854-858.

200. Koch, G.G. [1991]. Discussion for one-sided and two-sided tests and p-values. *Journal of Biopharmaceutical Statistics*, 1, 161-170.
201. Schmid, J.E., Koch, G.G., and LaVange, L.M. [1991]. An overview of statistical issues and methods of meta-analysis. *Journal of Biopharmaceutical Statistics*, 1, 103-120.
202. Gillings, D. and Koch, G.G. [1991]. An application of the principle of intention-to-treat to the analysis of clinical trials. *Drug Information Journal*, 25, 411-424.
203. Koch, G.G. [1991]. Discussion: Statistical perspective: clinical trials adverse events. *Drug Information Journal*, 25, 461-464.
204. Edwards, S.E., King, J.H., and Koch, G.G. [1991]. A macro to create a SAS data set containing commonly reported statistics for the analysis of multiple 2x2 tables. *Proceedings of the 16th Annual SAS User's Group International Conference*, SAS Institute Inc., Cary, N.C., 1277-1279.
205. Tsujitani, M. and Koch, G.G. [1991]. Residual plots for log odds ratio regression models. *Biometrics*, 47, 1135-1141.
206. Sapin, P., Koch, G., Blauwet, M., McCarthy, J., Hinds, S., and Gettes, L. [1991]. Identification of false positive exercise tests with use of electrocardiographic criteria: a possible role for atrial repolarization waves. *Journal of the American College of Cardiology*, 18, 127-135.
207. Nichols, T.C., Bellinger, D.A., Reddick, R.L., Read, M.S., Koch, G.G., Brinkhous, K.M., and Griggs, T.R. [1991]. Role of von Willebrand factor in arterial thrombosis: studies in normal and von Willebrand disease pigs. *Circulation* 83, Supplement IV, IV-56-IV-64.
208. Applegate, W.B., Phillips, H.L., Schnaper, H., Shepherd, A.M., Schocken, D., Luhr, J.C., Koch, G., Park, G. [1991]. A randomized controlled trial of the effects of three antihypertensive agents on blood pressure control and quality of life in older women. *Archives of Internal Medicine*, 151, 1817-1823.
209. Light, K.C., Herbst, M.C., Bragdon, E.E., Hinderliter, A.L., Koch, G.G., Davis, M.R., and Sheps, D.S. [1991]. Depression and type A behavior pattern in patients with coronary artery disease: relationships to painful versus silent myocardial ischemia and -endorphin responses during exercise. *Psychosomatic Medicine*, 53, 669-683.
210. Wohns, D.W., Patterson, H., Clarke, S., Dunlap, S., Blauwet, M.B., Koch, G.G., Adams, K.F. [1991]. Influence of calcium administration on the short-term hemodynamic and anti-ischemic effects of nifedipine. *Journal American College of Cardiology*, 18, 1070-1076.
211. Bynum, T.E., and Koch, G.G. [1991]. Maintenance therapy with sucralfate in duodenal ulcer: genuine prevention or accelerated healing of ulcer recurrence. *The American Journal of Medicine*, 91, Supplement 2A, 84s-90s.
212. Ingram, D.L., White, S.T., Lyna, P.R., Crews, K.F., Schmid, J.E., Koch, G.G., and Everett, V.D. [1992]. Ureaplasma urealyticum and large colony mycoplasma colonization in female children and its relationship to sexual contact, age, and race. *Child Abuse and Neglect*, 16, 265-272.
213. Steckler, A., Goodman, R.M., McLeroy, K., Davis, S., and Koch, G. [1992]. Measuring the diffusion of innovative health promotion programs. *American Journal of Health Promotion*, 6, 214-224.
214. Koch, G.G., Singer, J., Stokes, M., Carr, G., Cohen, S. and Forthofer, R.N. [1992]. Some aspects of weighted least squares analysis for longitudinal categorical data. Chapter 9 in Statistical

- Models for Longitudinal Studies of Health, edited by James H. Dwyer, M. Feinleib, P. Lippert, H. Hoffmeister, Oxford University Press, 215-260.
215. Nichols, T., Bellinger, D., Davis, K., Koch, G., and Griggs, T. [1992]. Porcine von Willebrand disease and atherosclerosis: influence of polymorphism in apolipoprotein B100 genotype. *The American Journal of Pathology*, 140, 403-415.
  216. Beck, J.D., Koch, G.G., Zambon, J.J., Genco, R.J., and Tudor, G.E. [1992]. Evaluation of oral bacteria as risk indicators for periodontitis in older adults. *Journal of Periodontology*, 63, 93-99.
  217. LaPrelle, J., Bauman, K.E., and Koch, G.G. [1992]. High inter-community variation in adolescent cigarette smoking in a 10-community field experiment. *Evaluation Review*, 16, 115-130.
  218. Koch, G.G., and Beck, J.D. [1992]. Statistical methodologies useful for the analysis of data from risk-assessment studies. *Journal of Public Health Dentistry*, 52, 146-167.
  219. Landis, S.E., Earp, J.L., and Koch, G.G. [1992]. Impact of HIV testing and counseling on subsequent sexual behavior. *AIDS Education and Prevention*, 4 (1), 61-70.
  220. Landis, S.E., Schoenbach, V.J., Weber, D.J., Mittal, M., Krishan, M.A., Lewis, K., and Koch, G.G. [1992]. Results of a randomized trial of partner notification in cases of HIV infection in North Carolina. *New England Journal of Medicine*, 326, 101-106.
  221. Phillips, J.A., Cairns, V., and Koch, G.G. [1992]. The analysis of multiple-dose, combination-drug clinical trial using response surface methodology. *Journal of Biopharmaceutical Statistics*, 2 (1), 49-67.
  222. Marques, E.H. deF, and Koch, G.G. [1992]. Analysis of bivariate dichotomous data from a stratified two-stage cluster sample. *Communications in Statistics: Simulation and Computation*, 21 (3), 731-752.
  223. Koch, G.G. [1992]. Applicability of statistical reliability methods to the validation process. *Proceedings of International Workshop on Continuous Cell Lines, Current Issues, Development in Biological Standardization*, 76, S. Karger, New York, 225-229.
  224. Ingram, D.L., White, S.T., Lyna, P.R., Crews, K.F., Schmid, J.E., Everett, V.D., and Koch, G.G. [1992]. Gardnerella vaginalis infection and sexual contact in female children. *Child Abuse and Neglect*, 16, 847-853.
  225. Turney, E.A., Amara, I.A., Koch, G.G., and Stewart W.H. [1992]. Evaluation of alternative statistical methods for linear model analysis to compare two treatments for 24-hour blood pressure response. *Statistics in Medicine*, 11, 1843-1860.
  226. Sena, A.C., Maixner, W., Ballenger, M.N., Herbst, M.C., Koch, G.G., and Sheps, D.S. [1992]. The relationship between plasma -endorphin, opioid receptor activity and silent myocardial ischemia. *The Clinical Journal of Pain*, 8 (4), 307-316.
  227. McKee, S.P., Schor C.M., Steinman, S.B. Wilson, N., Koch, G.G., Davis, S.M., HsuWinges, C., Day, S.H., Chan, C.L., Movshon, J.A., Flom, M., Levi, D.M., and Flynn, J.T. [1992]. The Classification of Amblyopia on the Basis of Visual and Oculomotor Performance. *Transactions American Ophthalmology Society*, 90, 123-148.
  228. Adams, K.F., McAllister, S.M., El-Ashmawy, H., Atkinson, S., Koch, G., and Sheps, D.S. [1992]. "Interrelationships between left ventricular volume and output during exercise in healthy subjects." *The American Physiological Society*, 2097-2104.

229. Schoenbach, V.J., Landis, S.E., Weber, D.J., Mittal, M., Koch, G.G., Levine, P.H. [1993]. HIV seroprevalence in sexually transmitted disease clients in a low prevalence southern state: evidence of endemic sexual transmission. *Annals of Epidemiology*, 3 (3), 281-288.
230. Leserman, J. and Koch, G.G. [1993]. Review of self-reported depression and anxiety measures. *Drug Information Journal*, 27 (2), 537-548.
231. Peace, K.E. and Koch, G.G. [1993]. Statistical methods for a three-period crossover design in which high dose can't be used first. *Journal of Biopharmaceutical Statistics*, 3 (1), 103-116.
232. Preisser, J.S., Koch, G.G., and Shockley, W.W. [1993]. Statistical considerations for cross-sectional data relating to tracheal reconstruction over time. *Journal of Biopharmaceutical Statistics*, 3 (2), 167-183.
233. Koch, G.G., Schmid, J.E., Begun, J.M., Maier, W.C. [1993]. Meta-analysis of drug safety data. Chapter 11, Drug Safety Assessment in Clinical Trials, edited by G.S. Gilbert, Marcel Dekker, New York, 279-304.
234. Koch, G.G., Amara, I.A., Forster, J., McSorley, D., and Peace, K.E. [1993]. Statistical Issues in the Design and Analysis of Ulcer Healing and Recurrence Studies. *Drug Information Journal*, 27 (3), 805-824.
235. Nichols, T.C., Bellinger, D.A., Reddick, R.L., Smith, S.V., Koch, G.G., Davis, K., Sigman, J., Brinkhaus, K.M., Griggs, T.R., and Read, M.S. [1993]. The Roles of von Willebrand Factor and Factor VIII in Arterial Thrombosis: Studies in Canine von Willebrand Disease and Hemophilia A. *Blood*, 81 (10), 2644-2651.
236. Miller, P.M., Light, K., Bragdon, E., Ballenger, M.N., Herbst, M. Maixner, W., Hinderliter, A.L., Atkinson, S.S., Koch, G.G., and Sheps, D.S. [1993]. Beta-endorphin response to exercise and mental stress in patients with ischemic heart disease. *Journal of Psychosomatic Research*, 37, 455-465.
237. Parham, D.L., Goodman, R.M., Steckler, A., Schmid, J., and Koch, G. [1993]. Adoption of health education tobacco use prevention curricula in North Carolina school districts. *Family and Community Health*, 16 (3), 56-67.
238. Collier, A.M., Goldstein, G.M., Shrewsbury, R.P., Davis, S.M., Koch, G.G., Zhang, C., Benowitz, N.L., Lewtas, J., and Williams, R.W. [1993]. Cotinine elimination following ETS exposure in young children as a function of age, sex, and race. *Proceedings of Indoor Air*, 1, 669-674.
239. Drossman, D.A., Li, Z., Andruzzi, E., Temple, R.D., Talley, N.J., Thompson, W.G., Whitehead, W.E., Janssens, J., Funch-Jensen, P., Corazzari, E., Richter, J.E., and Koch, G.G. [1993]. U.S. householder survey of functional gastrointestinal disorders prevalence, sociodemography, and health impact. *Digestive Diseases and Sciences*, 38 (9), 1569-1580.
240. Scholze, J., Breitstadt, A., Cairns, V., Bauer, B., Bender, N., Priestley, C., Moreadith, C., Phillips, J., Vander Elst, E., and Koch, G. [1993]. Ramipril and hydrochlorothiazide combination therapy in hypertension: a clinical trial of factorial design. *Journal of Hypertension*, 11 (2), S25-S33.
241. Koch, G.G. [1993]. Discussion for 'Essential efficacy data analysis'. *Biopharmaceutical Report*, 2 (1), 7-8.
242. Machtei, E.E., Norderyd, J., Koch, G., Dunford, R., Grossi, S., and Genco, R.J. [1993]. The rate of periodontal attachment loss in subjects with established periodontitis. *Journal of Periodontology*, Vol 64(8), 713-718.

243. Musselman, D.R., Tate, D.A., Oberhardt, B.J., Abruzzini, A.F., Blauwet, M.B., Koch, G., and Dehmer, G.J. [1994]. Differences in clot lysis among patients demonstrated in vitro with three thrombolytic agents. *The American Journal of Cardiology*, 73 (8), 544.
244. Drake, C.W., Hunt, R.J., Beck, J.D., and Koch, G.G. [1994]. Eighteen-month coronal caries incidence in North Carolina older adults. *Journal of Public Health Dentistry*, 54 (1), 24-30.
245. LaVange, L.M., Keyes, L.L., Koch, G.G., and Margolis, P.A. [1994]. Application of sample survey methods for modelling ratios to incidence densities. *Statistics in Medicine*, 13, 343-355.
246. Grossi, S.G., Zambon, J.J., Ho, A.W., Koch, G., Dunford, R.G., Machtei, E.E., Norderyd, O.M., and Genco, R.J. [1994]. Assessment of Risk for periodontal disease. I. Risk Indicators for Attachment Loss. *Journal of Periodontology*, 65 (3), 260-267.
247. Sueta, C.A., Clarke, S.W., Dunlap, S.H., Jensen, L., Blauwet, M.B., Koch, G., Patterson, J.H., and Adams, K.F. [1994]. Effect of acute magnesium administration on the frequency of ventricular arrhythmia in patients with heart failure. *Circulation*, 89, 660-666.
248. Beck, J.D., Koch, G.G., and Offenbacher, S. [1994]. Attachment loss trends over three years in community-dwelling older adults. *Journal of Periodontology*, 65 (8), 737-743.
249. West, S.L., Strom, B.L., Freundlich, B., Normand, E., Koch, G., and Savitz, D.A. [1994]. Completeness of prescription recording in outpatient medical records from a health maintenance organization. *Journal of Clinical Epidemiology*, 47(2), 165-171.
250. Kershner, R., Koch, G., Amara, I., and Hackett, S. [1994]. Constructing and evaluating a partially complete crossover design for a multi-dose study. *Communications in Statistics Special Issue on Clinical Trial Design*, 23 (2), 395-402.
251. Gansky, S.A., Koch, G.G., Wilson, J. [1994]. Statistical evaluation of relationships between analgesic dose and ordered ratings of pain relief over an eight hour period. *Journal of Biopharmaceutical Statistics*, 4 (2), 233-265.
252. Beck, J.D. and Koch, G.G. [1994]. Characteristics of older adults experiencing periodontal attachment loss as gingival recession or probing depth. *Journal of Periodontal Research*, 29, 290-298.
253. Rozier, G.R., Spratt, C.J., Koch, G.G., Davies, G.M. [1994]. The prevalence of dental sealants in North Carolina school children. *Journal of Public Health Dentistry*, 54 (3), 177-183.
254. Lafata, J.E., Koch, G.G., and Weissert, W.G. [1994]. Estimating activity limitation in the noninstitutionalized population: a method for small areas. *American Journal of Public Health*, 84 (11), 1813-1817.
255. Kuczmarski, R.J., Anderson, J.J.B., and Koch, G.G. [1994]. Correlates of blood pressure in seventh-day adventist (SDA) and Non-SDA adolescents. *Journal of the American College of Nutrition*, 13, 165-173.
256. Davis, R.L. and Koch, G.G. [1994]. Statistical considerations for design and analysis of a multi-period crossover study to compare two treatments for migraine headache. *Journal of Biopharmaceutical Statistics*, 4 (3), 321-346.
257. Hartmaier, S.L., Sloane, P.D., Guess, H.A., and Koch, G.G. [1994]. The MDS cognition scale: a valid instrument for identifying and staging nursing home residents with dementia using the minimum data set. *Journal of American Geriatrics Society*, 42 (11), 1173-1179.

258. Ennet, S.T., Bauman, K.E., and Koch, G.G. [1994]. Variability in cigarette smoking within and between adolescent friendship cliques. *Addictive Behaviors*, Vol. 19 (3), 295-305.
259. Taylor, D.F., Bayne, S.C., Leinfelder, K.F., Davis, S., and Koch, G.G. [1994]. Pooling of long term clinical wear data for posterior composites. *American Journal of Dentistry*, Vol. 7(3) 167-174.
260. Tudor, G. and Koch, G.G. [1994]. Review of nonparametric methods for the analysis of crossover studies. *Statistical Methods in Medical Research*, 3 (4), 345-381.
261. Koch, G.G., Amara, I.A., and MacMillan, J. [1994]. Evaluation of alternative statistical models for crossover studies to demonstrate caffeine adjuvancy in the treatment of tension headache. *Journal of Biopharmaceutical Statistics*, 4 (3), 347-410.
262. Hartmaier, S.L., Sloane, P.D., Guess, H.A., Koch, G.G., Mitchell, C.M., Phillips, C.D. [1995] Validation of the Minimum Data Set Cognitive Performance Scale: Agreement with the Mini-Mental State Examination. *Journal of Gerontology: Medical Sciences*, 50A (2), M128-M133.
263. Nichols, T.C., Samama, C.M., Bellinger, D.A., Roussie, J., Reddick, R.L., Bonneau, M., Read, M.S., Bailliart, O., Koch, G.G., Vaiman, M., Sigman, J.L., Pignaud, G.A., Brinkhous, K.M., Griggs, T.R., Drouet, L. [1995]. Function of von Willebrand factor after crossed bone marrow transplantation between normal and von Willebrand disease pigs: Effect on arterial thrombosis in chimeras. *Proceedings of the National Academy of Sciences USA*, 92, 2455-2459.
264. Sloane, P.D., Lindeman, D.A., Phillips, C., Moritz, D.J., and Koch G. [1995]. Evaluating alzheimer's special care units: reviewing the evidence and identifying potential sources of bias. *The Gerontologist*, 35 (1), 103-111.
265. Kincade-Norburn, J.E., Bernard, S.L., Konrad, T.R., Woomert, A., DeFriese, G.H., Kalsbeek, W.D., Koch, G.G., and Ory, M.G. [1995]. Self-care and assistance from others in coping with functional status limitations among a national sample of older adults. *Journal of Gerontology: Social Sciences*, 50B(2), S101-S109.
266. Miller, C.A., Richards, T.B., Davis, S.M., McKaig, C.A., Koch, G.G., Sharp, T.J., and Christenson, G.M. [1995]. Validation of a screening survey to assess local public health performance. *Journal of Public Health Management and Practice*, 1 (1), 63-71.
267. Grossi, S.G., Genco, R.J., Machtei, E.E., Ho, A.W., Koch, G., Dunford, R., Zambon, J.J., and Hausmann, E. [1995]. Assessment of risk for periodontal disease. II. Risk indicators for alveolar bone loss. *Journal of Periodontology*, 66 (1), 23-29.
268. Morrissey, J.P., Harris, R.P., Kincade-Norburn, J., McLaughlin, C., Garrett, J.M., Jackman, A.M., Stein, J.S., Lannon, C., Schwartz, R.J., Patrick, D.L., and Koch, G.G. [1995]. Medicare reimbursement for preventive care: changes in performance of services, quality of life, and health care costs. *Medical Care*, 33 (4), 315-331.
269. Beck, J.D., Lawrence, H.P. and Koch, G.G. [1995]. A method for adjusting caries increments for reversals due to examiner misclassification. *Community Dentistry and Oral Epidemiology*, 23 (6), 321-330.
270. West, S. L., Savitz, D.A., Koch, G.G., Strom, B.L., Guess, H.A., Hartzema, A. [1995]. Recall Accuracy for prescription medications: self-report compared with database information. *American Journal of Epidemiology*, Vol. 142(10), 1103-1112.

271. Miller, C.A., Richards, T.B., Christenson, G.M., Koch, G.G., [1995]. Creating and validating practical measures for assessing public health practices in local communities. *Research and Measurement in Public Health Practice a supplement to American Journal of Preventive Medicine*, Vol. 11(6), 24-28.
272. Sapin, P.M., Blauwet, M.B., Koch, G.G., Gettes, L.S [1995]. Exaggerated atrial repolarization waves as a predictor of a false positive exercise tests in an unselected population. *Journal of Electrocardiology*, Vol 28(4), 313-321.
273. Stokes, M.E., Davis, C.S., and Koch, G.G. [1995]. Categorical Data Analysis Using the SAS System. Cary, NC: SAS Institute Inc.
274. Wong, Y., Bauman, K.E., Koch, G.G. [1996]. Increasing low income employee participation in a worksite health promotion program: a comparison of three commonly used strategies. *Health Education Research: Theory and Practice*, Vol. 11(1), 71-76.
275. Koch, G.G. and Gansky, S.A. [1996]. Statistical considerations for multiplicity in confirmatory protocols. *Drug Information Journal*, Vol. 30, 523-534.
276. Marques, E.H.deF, Koch, G.G. [1996]. A model for distributions and correlation structure of multivariate polytomous data from a two-stage cluster sample. *Communications in Statistics: Simulation and Computation*, Vol. 25(1), 25-39.
277. Stearns, S.C., Kovar, M.G., Hayes, K., Koch, G.G. [1996]. Risk indicators for hospitalization during the last year of life. *Health Services Research*, Vol. 31(1), 49-69.
278. Drake, C.W., Beck, J.D., Lawrence, H.P., Koch, G.G. [1996]. Three-year coronal caries incidence and risk factors in North Carolina elderly. *Caries Research*, Vol. 31, 1-7.
279. Stearns, S.C., Kovar, M.G., Hayes, K., Koch, G.G. [1996]. Estimates of national hospital use from administrative data and personal interviews. *Journal of Official Statistics*, Vol 12(1), 47-61.
280. Carroro, J.C., Raynaud, J.P., Koch, G.G. et al [1996]. Comparison of phytotherapy (permixon) with finasteride in the treatment of benign prostate hyperplasia: a randomized international study of 1098 patients. *The Prostate*, 29 (4) 231-240.
281. Imrey, P.B., Koch, G.G., Preisser, J.S. [1996]. The evolution of categorical data modeling: a biometric perspective. Chapter in Advances in Biometry, Armitage, P., and David, H.A. (eds), John Wiley and Sons., Inc., New York, 89-113.
282. Lawrence, H.P., Beck, J.D., Hunt R.J., Koch, G.G. [1996]. An Adjustment of the M-component of the DMFS Index for Prevalence Studies in Older Adults. *Community Dentistry and Oral Epidemiology*, 24 (5), 322-331.
283. Lafata, J.E., Koch, G.G., Ward, R.E. [1996]. Synthesizing evidence from multiple studies: the role of meta-analysis in pharmacoeconomics. *Medical Care*, Vol. 34(12), DS135-DS145.
284. Pathman, D., Konrad, T.R., Freed, G.L., Freeman, V.A., Koch, G.G. [1996]. The awareness-to-adherence model of the steps to clinical guideline compliance: the case of pediatric vaccine recommendations. *Medical Care*, Vol. 34 (9), 873-889.
285. LaVange, L.M., Stearns, S.C., Lafata, J.E., Koch, G.G., Shah, B.V. [1996]. Innovative strategies using SUDAAN for analysis of health surveys with complex samples. *Statistical Methods in Medical Research*, Vol. 5, 311-329.

286. Moss, M.E., Beck, J.D., Kaplan, B.H., Offenbacher, S., Weintraub, J.A., Koch, G.G., Genco, R.J., Machtei, E.E., Tedesco, L.A. [1996]. Exploratory case-control analysis of psychosocial factors and adult periodontitis. *Journal of Periodontology*, Vol. 67 (10), 1060-1069.
287. Adams, K.F, Dunlap, S.H., Sueta, C.A., Clarke, S.W., Patterson, J.H., Blauwet, M.B., Jensen, L.R., Tomasko, L., and Koch, G. [1996]. Relation Between Gender, Etiology and Survival in Patients With Symptomatic Heart Failure. *Journal of the American College of Cardiology*, Vol 28(7), 1781-1788.
288. Sorenson, J.R., Chevront, B., Bruning, A., Talton, S., DeVellis, B., Koch, G.G., Callanan, N., Fernald, G. [1996]. Proband and parent assistance in identifying relatives for cystic fibrosis carrier testing. *American Journal of Medical Genetics*. Vol. 63, 419-425.
289. Kaufmann, J. and Koch, G.G. [1996]. Statistical considerations in the design of clinical trials, weighted means and analysis of data. Proceedings of the conference in honor of Shayle R. Searle: August 9 - 10, 1996, Biometrics Unit, Cornell University, 77-92.
290. Herman-Giddens, M.E., Slora, E.J., Hasemeier, C.M., Bourdony, C.J., Bhapkar, M.V., Koch, G.G., Wasserman, R.C. [1997]. Secondary sexual characteristics and menses in young girls seen in office practice: a study from the Pediatric Research in Office Settings (PROS) Network. *Pediatrics*, Vol 99(4), 505 - 512.
291. Krittayaphong, R., Cascio, W.E., Light, K.C., Sheffield, D., Golden, R.N., Finkel, J.B., Glekas, G., Koch, G.G., Sheps, D.S. [1997]. Heart rate variability in patients with coronary artery disease: differences in patients with higher and lower depression scores. *Psychosomatic Medicine*, Vol 59(3), 231-235.
292. Hinderliter, A.L., Koch, G.G., Li, S., et al. [1997]. Effects of long-term infusion of prostacyclin (epoprostenol) on echocardiographic measures of right ventricular structure and function in primary pulmonary hypertension. *Circulation*, Vol. 95(6), 1479-1486.
293. Kanda, A., Watanabe, I., Williams, M.L., Engle, C.L., Li, S., Koch, G.G., Gettes, L.S. [1997]. Unanticipated lessening of the rise in extracellular K during ischemia by pinacidil. *Circulation*, Vol 95(7), 1937-1944.
294. Holmgren, E.B., Koch, G.G. [1997]. Statistical modeling of dose response relationships in clinical trials - a case study. *Journal of Biopharmaceutical Statistics*, Vol. 7 (2), 301-312.
295. Ramaswamy, R., Koch, G.G., Amara, I.A. [1997]. Application of rank analysis of covariance methods to analysis of multiple anatomical regions with treatment for seborrheic dermatitis. *Journal of Biopharmaceutical Statistics*, Vol. 7(3), 403-416.
296. Koch, G.G. [1997]. Discussion for "P-value adjustments for subgroup analyses." *Journal of Biopharmaceutical Statistics*, Vol. 7(2), 323-331.
297. Preisser, J.S., Koch, G.G. [1997]. Categorical Data Analysis in Public Health. *Annual Review of Public Health*, Vol. 18, 51-82.
298. Koch, G.G., Paquette, D.W. [1997]. Design principles and statistical considerations in periodontal clinical trials. *Annals of Periodontology*, Vol. 2(1), 42-63.
299. West, S.L., Savitz, D.A., Koch, G., Shaff, K.L., Strom, B.L., Guess, H.A., and Hartzema, A.G. [1997]. Demographics, Health Behaviors, and Past Drug Use as Predictors of Recall Accuracy for Previous Prescription Medication Use. *Journal of Clinical Epidemiology*, Vol 50(8), 975-980.



300. Davies, G.M., Koch, G.G., and Beck, J. [1997]. Statistical strategies for event rate comparisons in dental studies. *Journal of Biopharmaceutical Statistics*, Vol 7(4), 625-634.
301. Sorenson, J.R., Chevront, B., DeVellis, B., Callanan, N., Silverman, L., Koch, G.G., Sharp, T., Fernald, G. [1997]. Acceptance of home and clinic-based cystic fibrosis carrier education and testing by first, second, and third degree relatives of cystic fibrosis patients. *American Journal of Medical Genetics*, Vol 70, 121-129.
302. Beck, J.D., Sharp, T., Koch, G.G., and Offenbacher, S. [1997]. A 5-year study of attachment loss and tooth loss in community-dwelling older adults. *Journal of Periodontal Research*, Vol 32, 516-523.
303. Beck, J.D., Sharp, T., Koch, G.G., and Offenbacher, S. [1997]. A study of attachment loss patterns in survivor teeth at 18 months, 36 months and 5 years in community-dwelling older adults. *Journal of Periodontal Research*, Vol 32, 497-505.
304. Beck, J.D., Cusmano, L., Green-Helms, W., Koch, G.G., and Offenbacher, S. [1997]. A 5-year study of attachment loss in community-dwelling older adults: incidence density. *Journal of Periodontal Research*, Vol 32, 506-515.
305. Dehmer, G.J., Nichols, T.C., Bode, A.P., Liles, D., Sigman, J., Li, S., Koch, G., Tate, D.A., and Griggs, T.R. [1997]. Assessment of platelet activation by coronary sinus blood sampling during balloon angioplasty and directional coronary atherectomy. *American Journal of Cardiology*, Vol 80, 871-877.
306. Phillips, C.D., Sloane, P.D., Hawes, C., Koch, G., Han, J., Spry, K., Dunterman, G., and Williams, R.L. [1997]. Effects of residence in alzheimer disease special care units on functional outcomes. *Journal of the American Medical Association*, Vol 278(16), 1340-1344.
307. Hadgu, A, Koch, G., and Westrom, L. [1997]. Analysis of ectopic pregnancy data using marginal and conditional models. *Statistics in Medicine*, Vol 16(21), 2403- 2417.
308. Tulloch, J.F., Phillips, C., Koch, G., and Proffit, W.R. [1997]. The effect of early intervention on skeletal pattern of Class II malocclusion: a randomized clinical trial. *American Journal of Orthodontics and Dentofacial Orthopedics*, Vol. 111(4), 391-400.
309. Robison, V.A., Rozier, R.G., Weintraub, J.A., and Koch, G.G. [1997]. The relationship between clinical tooth status and receipt of sealants among child medicaid recipients. *Journal of Dental Research*, Vol 76(12), 1862 - 1868.
310. Oringer, R.J., Fiorellini, J.P., Koch, G.G., Sharp, T.J., Nevins, M.L., Davis, G.H., and Howell, T.H [1997]. Comparison of manual and automated probing in an untreated periodontitis population. *Journal of Periodontology*, Vol. 68, 1156 - 1162.
311. Nichols, T.C., Bellinger, D.A., Reddick, R.L., Koch, G.G., Sigman, J.L, Erickson, G., du Laney, T., Johnson, T. Read, M.S., and Griggs, T.R. [1998]. von Willebrand factor does not influence atherogenesis in arteries subjected to altered shear stress. *Arteriosclerosis, Thrombosis, and Vascular Biology*, Vol. 18, 323 - 330.
312. Foshee, V.A., Bauman, K.E., Arriaga, X.B., Helms, R.W., Koch, G.G., and Linder, G.F. [1998]. An evaluation of Safe Dates, an adolescent dating violence prevention program. *American Journal of Public Health*, Vol 88 (1), 45 - 50.
313. Jung, J-W and Koch, G.G. [1998]. Analysis of correlated ordered categorical data with rank measures of association for responses with ties. *Communications in Statistics: Simulation and Computation*, Vol. 27(1), 167 - 183.

314. Luta, G. and Koch, G.G. [1998]. An application of methods for clustered binary responses to a cardiovascular study with small sample size. *Journal of Biopharmaceutical Statistics*, Vol. 8(1), 87 - 102.
315. Jung, J-W and Koch, GG.[1998]. A linear model method for rank measures of association from longitudinal studies with fixed conditions (visits) for data collection and more than two groups. *Journal of Biopharmaceutical Statistics*, Vol. 8(2), 299 - 316.
316. Landis, J.R., Sharp, T.J., Kuritz, S.J., and Koch, G.G. [1998]. Generalized Mantel-Haenszel Methods with Clinical Research Applications. *Encyclopedia of Biostatistics*, eds. Armitage, P. and Colton, T. Vol. 3, 2378 - 2391, John Wiley and Sons, Ltd.
317. Imrey, P.B. and Koch, G.G. [1998]. Categorical Data Analysis. *Encyclopedia of Biostatistics*, eds. Armitage, P. and Colton, T. Vol. 1, 545 - 563, John Wiley and Sons, Ltd.
318. Sheffield, D., Krittayaphong, R., Cascio, W.E., Light, K.C., Golden, R.N., Finkel, J.B., Glekas, G., Koch, G.G., and Sheps D.S. [1998]. Heart rate variability at rest and during mental stress in patients with coronary artery disease: differences in patients with high and low depression scores. *International Journal of Behavioral Medicine*, Vol. 5(1), 31 - 47.
319. Passannante, A.N., Hazucha, M.J., Bromberg, P.A., Seal, E., Folinsbee, L., and Koch, G. [1998]. Nociceptive mechanisms modulate ozone-induced human lung function decrements. *Journal of Applied Physiology*, Vol 85(5), 1863 - 1870.
320. Scuria, M.S., Morgan, V., Guckes, A.D., Li, S., and Koch, G. [1998]. Prognostic variables associated with implant failure: a retrospective effectiveness study. *International Journal of Oral Maxillofacial Implants*, Vol. 13 (3), 400 - 406.
321. Koch, G.G., Davis, S.M., and Anderson, R.L. [1998]. Methodological advances and plans for improving regulatory success for confirmatory studies. *Statistics in Medicine*, Vol. 17, 1675 - 1690.
322. Koch, G.G., Tangen, C.M., Jung, J-W, and Amara, I.A. [1998]. Issues for covariance analysis of dichotomous and ordered categorical data from randomized clinical trials and non-parametric strategies for addressing them. *Statistics in Medicine*, Vol. 17, 1863 - 1892.
323. Koch, G.G. [1998]. Discussion of "estimating treatment effects in clinical crossover trials". *Journal of Biopharmaceutical Statistics*, Vol 8(2), 239 - 242.
324. Falk, R.W., and Koch, G.G. [1998]. Testing a specified difference between proportions. *Biometrics*, 54(4), 1602 - 1614.
325. Jung, J-W and Koch, G.G. [1999]. Multivariate non-parametric methods for Mann-Whitney statistics to analyze cross-over studies with two treatment sequences. *Statistics in Medicine*, Vol 18, 989 - 1017.
326. Hadgu, A. and Koch, G.G. [1999]. Application of generalized estimating equations to a dental randomized clinical trial. *Journal of Biopharmaceutical Statistics*, 9, 161 - 178.
327. Tangen, C.M. and Koch, G.G. [1999]. Nonparametric analysis of covariance for hypothesis testing with logrank and wilcoxon scores and survival rate estimation in a randomized clinical trial. *Journal of Biopharmaceutical Statistics*, Vol. 9(2), 307 - 338.

328. Tangen, C. M. and Koch, G.G. [1999]. Complementary nonparametric analysis of covariance for logistic regression in a randomized clinical trial setting. *Journal of Biopharmaceutical Statistics*, Vol. 9(1), 45 - 66.
329. Koch, G.G. and Tangen, C.M. [1999]. Nonparametric analysis of covariance and its role in noninferiority clinical trials. *Drug Information Journal*, Vol. 33(4), 1145 - 1159.
330. Koch, G.G. [1999]. Discussion for 'Indexes of contrast and quantitative significance for comparisons of two groups'. *Statistics in Medicine*, 18, 2585 - 2589.
331. Hinderliter, A.L., Willis, P.W., Long, W., Clarke, W.R., Ralph, D., Caldwell, E.J., Williams, W., Ettinger, N.A., Hill, N.S., Summer, W.R., de Boisblanc, B., Koch, G., Li, S., Clayton, L.M., Jöbsis, M.M., and Crow, J.W. [1999]. Frequency and prognostic significance of pericardial effusion in primary pulmonary hypertension. *The American Journal of Cardiology*, Vol. 84, 481 - 484.
332. Pastore, L.M., Savitz, D.A., Thorp, J.M., Koch, G.G., Hertz-Picciotto, I. and Irwin, D.E. [1999]. Predictors of symptomatic urinary tract infection after 20 weeks' gestation. *Journal of Perinatology*, Vol. 19(7), 488 - 493.
333. Dehmer, G.J., Nichols, T.C., Li, S., Koch, G.G., Tate, D.A., and Griggs, T.R. [1999]. Effects of an ionic and nonionic contrast agent on von Willebrand factor assessed during coronary angiography. *The American Journal of Cardiology*, Vol. 84, 223 - 225.
334. Adams, K.F., Sueta, C.A., Gheorghide, M., O'Connor, C.M., Schwartz, T.A., Koch, G.G., Uretsky, B., Swedberg, K., McKenna, W., Soler-Soler, J., and Califf, R.M. [1999]. Gender differences in survival in advanced heart failure: Insights from the FIRST study. *Circulation*, Vol. 99, 1816 - 1821.
335. Koch, G.G. [2000]. Discussion for 'Alpha calculus in clinical trials: Considerations and commentary for the new millennium. *Statistics in Medicine*, Vol. 19, 781-784.
336. Tangen, C.M. and Koch, G.G. [2000]. Nonparametric covariance methods for incidence density analyses of time-to-event data from a randomized clinical trial and their complementary roles to proportional hazards regression. *Statistics in Medicine*, Vol. 19, 1039-1058.
337. Davis, K.J., Sloane, P.D., Mitchell, C.M., Preisser, J., Grant, L., Hawes, M.C., Lindeman, D., Montgomery, R., Long, K., Phillips, C., and Koch, G. [2000]. Specialized Dementia Programs in Residential Care Settings. *The Gerontologist*, Vol. 40, 32-42.
338. Helton, E., Darragh, R., Francis, P., Fricker, F.J., Jue, K., Koch, G., Mair, D., Pierpont, M.E., Prochazka, J.V., Linn, L.S., and Winter, S.C. [2000]. Metabolic aspects of myocardial disease and a role for L-Carnitine in the treatment of childhood cardiomyopathy. *Pediatrics*, Vol. 105, 1260-1270.
339. Tudor, G.E., Koch, G.G., and Catellier, D. [2000]. Statistical methods for crossover designs in bioenvironmental and public health studies. Chapter 20 in Handbook of Statistics: Bioenvironmental and Public Health Statistics, Vol. 18, eds. C.R. Rao and P.K. Sen. North Holland, 571-614.
340. Stokes, M.E., Davis, C.S., and Koch, G.G. [2000]. Categorical Data Analysis Using the SAS System 2nd Edition. Cary, NC: SAS Institute Inc.
341. Koch, G.G. [2000]. Discussion for 'Consensus and controversy in pharmaceutical statistics.' *The Statistician*, Vol. 49, 166.

342. Pathman, D.E., Taylor Jr., D.H., Konrad, T.R., King, T.S., Harris, T., Henderson, T.M., Bernstein, J.D., Tucker, T., Crook, K.D., Spaulding, C., and Koch, G.G. [2000]. State scholarship, loan forgiveness, and related programs. *Journal of the American Medical Association*, Vol. 284, 2084-2092.
343. Imrey, P.B. and Koch, G.G. [2000]. Vasant P. Bhapkar's contributions to the development of general categorical data modeling. *Journal of Indian Statistical Association*, 38 (2), 133-154.
344. Schell, M.J., McBride, M.A., Gennings, C., and Koch, G.G. [2001]. The intention-to-treat principle for clinical trials. Chapter 12 in *Clinical Trials in Neurology*, ed. R.J. Guiloff. Springer-Verlag, London, 131-144.
345. Gansky, S.A. and Koch, G.G. [2001]. Assessing bias of multicenter trials with incomplete treatment allocation. *Journal of Statistical Planning and Inference: Statistical Design of Medical Experiments II*. Vol 96, 83-107.
346. Ennett, S.T., Bauman, K.E., Pemberton, M., Foshee, V.A., Chuang, Y., King, T.S., and Koch, G.G. [2001]. Mediation in a family-directed program for prevention of adolescent tobacco and alcohol use. *Preventive Medicine*, Vol. 33, 333-346.
347. LaVange, L.M., Koch, G.G., and Schwartz, T.A. [2001]. Applying sample survey methods to clinical trials data. *Statistics in Medicine*, Vol. 20, 2609-2623.
348. Tangen, C.M. and Koch, G.G. [2001]. Non-parametric analysis of covariance for confirmatory randomized clinical trials to evaluate dose-response relationships. *Statistics in Medicine*, Vol. 20, 2585-2607.
349. Denne, J.S. and Koch, G.G. [2001]. Monitoring a clinical trial with multiple hypotheses concerning the treatment effect on a single primary endpoint. *Statistics in Medicine*, Vol. 20, 2801-2812.
350. Pincus, T., Koch, G.G., Sokka, T., Lefkowitz, J., Wolfe, F., Jordan, J.M., Luta, G., Callahan, L.F., Wang, X., Schwartz, T., Abramson, S.B., Caldwell, J.R., Harrell, R.A., Kremer, J.M., Lautzenheiser, R.L., Markenson, J.A., Schnitzer, T.J., Weaver, A., Cummins, P., Wilson, A., Morant, S., and Fort, J. [2001]. A randomized, double-blind, crossover clinical trial of diclofenac plus misoprostol versus acetaminophen in patients with osteoarthritis of the hip or knee. *Arthritis and Rheumatism*, Vol. 44, 1587-1598.
351. Lawrence, H.P., Garcia, R.I., Essick, G.K., Hawkins, R., Krall, E.A., Spiro III, A., Vokonas, P.S., Kong, L., King, T., and Koch, G.G. [2001]. A longitudinal study of the association between tooth loss and age-related hearing loss. *Spec Care Dentist*, Vol. 21, 129-140.
352. Herman-Giddens, M.E., Wang, L., and Koch, G. [2001]. Secondary sexual characteristics in boys. *Arch Pediatr Adolesc Med.*, Vol. 155, 1022-1028.
353. Bauman, K.E., Foshee, V.A., Ennett, S.T., Pemberton, M., Hicks, K.A., King, T.S., and Koch, G.G. [2001]. Influence of a family program on adolescent tobacco and alcohol use. *American Journal of Public Health*, Vol. 91, 604-610.
354. Grabenstein, J.D., Guess, H.A., Hartzema, A.G., Koch, G.G., and Konrad, T.R. [2001]. Effect of vaccination by community pharmacists among adult prescription recipients. *Medical Care*, Vol. 39, 340-348.
355. Segreti, A.C., Leung, H.M., Koch, G.G., Davis, R.L., Mohberg, N.R., Peace, K.E. [2001]. Biopharmaceutical statistics in a pharmaceutical regulated environment: Past, present, and future. *Journal of Biopharmaceutical Statistics*, Vol 11, (4).

356. Zimmerman, S., Sloane, P.D., Eckert, J.K., Buie, V.C., Walsh, J.F., Koch, G.G., and Hebel, J.R. [2001]. An overview of the collaborative studies of long-term care. Chapter 6 in Assisted Living Needs, Practices, and Policies in Residential Care for the Elderly, eds. S. Zimmerman, P.D. Sloane, and J.K. Eckert. The Johns Hopkins University Press, 117-143.
357. Bohan, T.P., Helton, E., McDonald, I., Konig, S., Gazitt, S., Sugimoto, T., Scheffner, D., Cusmano, L., Li, S., and Koch, G. [2001]. Effect of L-Carnitine treatment for valproate-induced hepatotoxicity. *Neurology*, Vol. 56, 1405-1414.
358. Vasey, C.G., Usedom, J.E., Woodard, S.M., Bhapkar, M., Schwartz, T., and Koch, G.G. [2001]. Prediction of cardiac mortality after myocardial infarction: the role of maximal treadmill stress echocardiography. *Journal of the American Society of Echocardiography*, Vol. 14, 38-43.
359. Witjes, W. P.J., de la Rosette J. J.M.C.H., van den Berg-Segers, A., Colongo, D., Koch, G., Zlotta, A.R., Colau, A., de Wildt, M.J.A.M., Wijkstra, H. [2002]. Computerised Assessment of Maximum Urinary Flow: an Efficient, Consistent and Valid Approach. *European Urology*, Vol. 41, 206-213.
360. Grabenstein, J.D., Guess, H.A., Hartzema, A.G., Koch, G.G., Konrad, T.R. [2002]. Attitudinal factors among adult prescription recipients associated with choice of where to be vaccinated. *Journal of Clinical Epidemiology*, Vol. 55, 279-284.
361. Bauman, K.E., Ennett, S.T., Foshee, V.A., Pemberton, M., King, T.S., Koch, G.G. [2002]. Influence of a family program on adolescent smoking and drinking prevalence. *Prevention Science*, Vol. 3(1), 35-42.
362. Denne, J., Koch, G. [2002]. A sequential procedure for studies comparing multiple doses. *Pharmaceutical Statistics*, Vol. 1, 107-118.
363. Howard, D.L., Sloane, P.D., Zimmerman, S., Eckert, K., Walsh, J.F., Buie, V.C., Taylor, P.J., Koch, G.G. [2002]. Distribution of African Americans in residential care/assisted living and nursing homes: more evidence of racial disparity?. *American Journal of Public Health*, Vol. 92 (8), 1272-1277.
364. Koch, G.G. [2002]. Statistical remarks concerning the odds ratio and its interpretation for the comparison of two treatments in a randomized clinical trial. *Journal of Statistical Studies*, Special Volume, 105-113.
365. Kotwall, C.A., Maxwell, J.G., Brinker, C.C., Koch, G.G., Covington, D.L. [2002]. National estimates of mortality rates for radical pancreaticoduodenectomy in 25,000 patients. *Annals of Surgical Oncology*, Vol. 9(9), 847-854.
366. Raymond, R.J., Hinderliter, A.L., Willis, P.W., IV, Clarke, W.R., Ralph, D., Caldwell, E.J., Williams, W., Ettinger, N.A., Hill, N.S., Summer, W.R., de Boisblanc, B., Schwartz, T., Koch, G.G., Clayton, L.M., Jöbsis, M.M., Crow, J.W., Long, W.. [2002]. Echocardiographic predictors of adverse outcomes in primary pulmonary hypertension. *Journal of the American College of Cardiology*, Volume 39 (7), 1214-1219.
367. Koch, G.G. [2002]. Missing data: a damaging (and possibly catastrophic disorder) for statistical planning. *Bulletin of International Chinese Statistical Association*, January, 43-45.
368. Debruyne, F., Koch, G., Boyle, P., Calias Da Silva, F., Gillenwater, J.G., Hamdy, F.C., Perrin, P., Teillac, P., Vela-Navarrete, R., Raynaud, J-P. [2002]. Comparison of a Phytotherapeutic Agent (Permixon) with an  $\alpha$ -Blocker (Tamsulosin) in the Treatment of Benign Prostatic Hyperplasia: A 1-Year Randomized International Study. *European Urology*, Vol. 41 (5), 497-507.

369. Pincus, T., Strand, V., Koch, G., Amara, I., Crawford, B., Wolfe, F., Cohen, S., and Felson, D. [2003]. An index of the three core data set patient questionnaire measures distinguishes efficacy of active treatment from that of placebo as effectively as the American College of Rheumatology 20% Response Criteria (ACR20) or the Disease Activity Score (DAS) in a rheumatoid arthritis clinical trial. *Arthritis & Rheumatism*, Vol. 48 (3), 625-630.
370. Lieberman, J.A., Phillips, M., Gu, H., Stroup, S., Zhang, P., Kong, L., Ji, Z., Koch, G., and Hamer, R.M. [2003]. Atypical and conventional antipsychotic drugs in treatment-naïve first-episode schizophrenia: a 52-week randomized trial of Clozapine vs Chlorpromazine. *Neuropsychopharmacology*, Vol. 28, 995-1003.
371. Hinderliter, A.L., Willis IV, P.W., Long, W.A., Clarke, W.R., Ralph, D., Caldwell, E.J., Williams, W., Ettinger, N.A., Hill, N.S., Summer, W.R., Boisblanc, B., Koch, G., Li, S., Clayton, L.M., Jöbbsis, M.M., Crow, J.W. [2003]. Frequency and Severity of Tricuspid Regurgitation Determined by Doppler Echocardiography in Primary Pulmonary Hypertension. *The American Journal of Cardiology*, Vol. 91, 1033-1037.
372. Davis, S.M., Koch, G.G., Davis, C.E., LaVange, L.M. [2003]. Statistical Approaches to Effectiveness Measurement and Outcome-Driven Re-Randomizations in the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE) Studies. *Schizophrenia Bulletin*, Vol. 29(1), 73-80.
373. Drossman, D.A., Toner, B.B., Whitehead, W.E., Diamant, N.E., Dalton, C.B., Duncan, S., Emmott, S., Proffitt, V., Akman, D., Frusciante, K., Le, T., Meyer, K., Bradshaw, B., Mikula, K., Morris, C.B., Blackman, C.J., Hu, Y., Jia, H., Li, J.Z., Koch, G.G., Bangdiwala, S.I. [2003]. Cognitive-Behavioral Therapy Versus Education and Desipramine Versus Placebo for Moderate to Severe Functional Bowel Disorders. *Gastroenterology*, Vol 125(1), 19-31.
374. Müller-Lissner, S., Koch, G., Talley, N.J., Drossman, D., Rueegg, P., Dunger-Baldauf, C., Lefkowitz, M. [2003]. Subject's Global Assessment of Relief: An appropriate method to assess the impact of treatment on irritable bowel syndrome-related symptoms in clinical trials. *Journal of Clinical Epidemiology*, Vol. 56 (4), 310-316.
375. Gullledge, A.A., McShea, C., Schwartz, T., Koch, G., Lord, S.T. [2003]. Effects of hyperfibrinogenemia on vasculature of C57BL/6 mice with and without atherogenic diet. *Arteriosclerosis, Thrombosis & Vascular Biology*, Vol. 23, 130-135.
376. Murray, S.C., Otterness, M.F., Forster, J.K., Catellier, D.J., and Koch G.G. [2004]. An application of a multi-stage strategy involving confidence intervals to evaluate whether a response rate is favourable or not. *Pharmaceutical Statistics*, Vol. 3, 25-37.
377. Moodie, P.F., Nelson, N.A., and Koch, G.G. [2004]. A non-parametric procedure for evaluating treatment effect in the meta-analysis of survival data. *Statistics in Medicine*, Vol. 23(7), 1075-1093.
378. Moecks, J., Koch, G. G., Scott, M., Budde, M., Givens, S., Koehler, W., Knoessl, M. [2004]. Measures of Morbidity in Clinical Studies with Recurrent Skeletal Complications. *Journal of Biopharmaceutical Statistics*, Vol. 14(2), 415-437.
379. Pathman, D.E., Konrad, T.R., King, T.S., Taylor, D.H., Koch, G.G. [2004]. Outcomes of States' Scholarship, Loan Repayment, and Related Programs for Physicians. *Medical Care*, Vol. 42 (6), 560-568.
380. Pincus, T., Koch, G., Lei, H., Mangal, B., Sokka, T., Moskowitz, R., Wolfe, F., Gibofsky, A., Simon, L., Zlotnick, S., Fort, J.G. Patient Preference for Placebo, Acetaminophen(paracetamol) or

- Celecoxib Efficacy Studies (PACES): two randomised, placebo controlled, crossover clinical trials in patients with osteoarthritis of the knee or hip. [2004]. *Annals of the Rheumatic Diseases*, 63: 931-939.
381. Sloane, P.D., Hoeffler, B., Mitchell, C.M., McKenzie, D.A., Barrick, A.L., Rader, J., Stewart, B.J., Talerico, K.A., Rasin, J., Zink, R.C., Koch, G.G. [2004]. Effect of Person-Centered Showering and the Towel Bath on Bathing-Associated Aggression, Agitation and Discomfort in Nursing Home Residents with Dementia: A Randomized, Controlled Trial. *Journal of the American Geriatrics Society*, Vol. 52(11), 1795-1804.
  382. Kong, L., Kohberger, R.C., Koch, G.G. [2004]. Type I Error and Power in Non-Inferiority/Equivalence Trials with Correlated Multiple Endpoints: An Example from Vaccine Development Trials. *Journal of Biopharmaceutical Statistics*. Vol. 14, 893-907.
  383. Pathman, D.E, Konrad, T.R., Dann, R., Koch, G. [2004]. Retention of Primary Care Physicians in Rural Health Professional Shortage Areas. *American Journal of Public Health*, Vol. 94(10), 1723-1729.
  384. Keene, O.N., Davis, R.L., Koch, G.G. [2004]. Use of generalized estimating equations in a trial in influenza to explore treatment effects over time. *Pharmaceutical Statistics*, Vol. 3, 281-287.
  385. Koch, G.G. and Stokes, M.E. [2004]. Paper 212-29: Some statistical strategies for analyzing confirmatory studies involving one or more occurrences of primary events. Proceedings of the SAS Users Group International 29<sup>th</sup> Annual Conference.
  386. Koch, G.G. [2005]. Commentary for "Statistical consideration of the strategy for demonstrating clinical evidence of effectiveness-one larger versus two smaller pivotal studies." *Statistics in Medicine*, Vol. 24(11), 1639-1651.
  387. Dann, R.S. and Koch, G.G. [2005]. Review and evaluation of methods for computing confidence intervals for the ratio of two proportions and considerations for non-inferiority clinical trials. *Journal of Biopharmaceutical Statistics*, Vol. 15(1), 85-107.
  388. Somerville, M., Wilson, T., Koch, G., and Westfall, P. [2005]. Evaluation of a weighted multiple comparison procedure. *Pharmaceutical Statistics*, Vol. 4, 7-13.
  389. Maru, S., Koch, G.G., Stender, M., Clark, D., Gibowski, L., Petri, H., White, A.D, and Simpson, R.J. [2005]. Anti-diabetic drugs and heart failure risk in patients with type 2 diabetes in the UK primary care setting. *Diabetes Care*, Vol. 28(1), 20-26.
  390. LaVange, L.M., Durham, T.A, Koch, G.G. [2005]. Randomization-Based Nonparametric Methods for the Analysis of Multicentre Trials. *Statistical Methods in Medical Research*, Vol. 14, 281-301.
  391. Kong, L., Koch, G.G., Liu, T., Wang, H. [2005]. Performance of Some Multiple Testing Procedures to Compare Three Doses of a Test Drug and Placebo. *Pharmaceutical Statistics*, Vol. 4(1), 25-35.
  392. Pincus, T., Amara, I., Koch, G. G. [2005]. Continuous Indices of Core Data Set Measures in Rheumatoid Arthritis Clinical Trials: Lower Responses to Placebo Than Seen With Categorical Responses With the American College of Rheumatology 20% Criteria. *Arthritis and Rheumatism*, Vol. 52(4), 1031-1036.
  393. Imrey, P.B., Koch, G.G. "Categorical Data Analysis." *Encyclopedia of Biostatistics*, 2<sup>nd</sup> Ed. Chichester: John Wiley & Sons, 2005. Vol. 1, 682-707.

394. Pincus, T., Wang, X., Chung, C., Sokka, T., Koch, G.G. [2005]. Patient Preference in a Crossover Clinical Trial of Patients with Osteoarthritis of the Knee or Hip: Face Validity of Self-Report Questionnaire Ratings. *Journal of Rheumatology*, Vol. 32(3), 533-9.
395. Brodala, N., Merricks, E.P., Bellinger, D.A., Damrongsri, D., Offenbacher, S., Beck, J., Madianos, P., Sotres, D., Chang, Y. Koch, G., Nichols, T.C. [2005]. *Porphyromonas gingivalis* Bacteria Induces Coronary and Aortic Atherosclerosis in Normocholesterolemic and Hypercholesterolemic Pigs. *Arteriosclerosis, Thrombosis, and Vascular Biology*, Vol. 25, 1446-1451.
396. Adelberg, A.M., Blotzer, A., Koch, G., Moise, R., Chescheir, N., Wolfe, H. [2005]. Impact of maternal fetal surgery for myelomeningocele on the progression of ventriculomegaly in utero. *American Journal of Obstetric & Gynecology*. Vol. 193: 727-731.
397. Knoke, J.D., Anderson, C.M., Koch, G.G. [2006]. Analyzing repeated measures marginal models on sample surveys with resampling methods. *Journal of Statistical Software*, Vol. 15(8), 1-13.
398. Lindsay L., Jackson, L.A., Savitz, D.A., Weber, D.J., Koch, G.G, Kong, L., Guess, H.A. [2006]. Community Influenza Activity and Risk of Acute Influenza-like Illness Episodes among Healthy Unvaccinated Pregnant and Postpartum Women. *American Journal of Epidemiology*, Vol. 163(9), 838-848.
399. Chung, C.P., Thompson, J.L., Koch, G.G., Amara, I., Strand, V., Pincus, T. [2006]. Are American College of Rheumatology 50% response criteria superior to 20% criteria in distinguishing active aggressive treatment in rheumatoid arthritis clinical trials reported since 1997? A meta-analysis of discriminant capacities. *Annals of the Rheumatic Diseases*, Vol. 65, 1602-1607.
400. Dunger-Baldauf, C., Racine, A., Koch, G. [2006]. Re-treatment Studies: Design and Analysis. *Drug Information Journal*, Vol. 40, 209-217.
401. Pincus, T., Chung, C., Segurado, O.G., Amara, I., Koch, G.G. [2006]. An Index of Patient Reported Outcomes (PRO-Index) Discriminates Effectively Between Active and Control Treatment in 4 Clinical Trials of Adalimumab in Rheumatoid Arthritis. *The Journal of Rheumatology*, Vol. 33(11), 2146-2152.
402. Kong, L., Kohberger, R.C., Koch, G.G. [2006]. Design of vaccine equivalence/non-inferiority trials with correlated multiple binomial endpoints. *Journal of Biopharmaceutical Statistics*, Vol. 16(4), 555-572.
403. LaVange, L., Koch, G.G. [2006]. Rank Score Tests. *Circulation*, Vol. 114, 2528-2533.
404. Sherwood, A., Blumenthal, J.A., Trivedi, R., Johnson, K.S., O'Connor, C.M., Adams, K.F., Dupree, C.S., Waugh, R.A., Bensimhon, D.R., Gaulden, L., Christenson, R.H., Koch, G.G., Hinderliter, A.L. [2007]. Relationship of Depression to Death or Hospitalization in Patients with Heart Failure. *Archives of International Medicine*, Vol. 167, 367-373.
405. Koch, G.G., Stokes, M.E. [2007]. Some Nonparametric and Regression Model Strategies for Counts of Primary Events from Randomized Studies. *International Journal of Statistical Sciences*, Vol. 5 (Special Issue).
406. Ahn, C., Koch, G.G., Paynter, L., Preisser, J.S., Seiller-Moiseiwitzh, F. [2007]. Log-linear models for mutations in the HIV genome. *Journal of Statistical Planning and Inference*. Vol 137, 3227-3239.
407. LaVange, L.M., Koch, G.G. Statistical Projection of Clinical Subsample Estimates to a Survey Population. [2007]. *Journal of Periodontology*. Vol 78 (7), 1400-1406.



408. Lebrech, D., Misiewicz, J.J. eds. [2007]. An evidence-based approach to the management of irritable bowel syndrome in the European Union: World Gastroenterology Organization Advisory Board on Irritable Bowel Syndrome. Advisory Committee Members: Koch, G.G. et al. *European Journal of Gastroenterology and Hepatology*. Vol 19, Suppl.
409. Vesikari, T., Itzler, R., Matson, D., Santosham, M., Christie, C., Coia, M., Cook, J., Koch, G.G., Heaton, P. [2007]. Efficacy of a pentavalent rotavirus vaccine in reducing rotavirus-associated health care utilization across three regions (11 countries). *International Journal of Infectious Diseases*. Vol. 11, Suppl 2, S28-S34.
410. American College of Rheumatology Committee to Reevaluate Improvement Criteria. [2007]. A Proposed Revision to the ACR20: The Hybrid Measure of American College of Rheumatology Response. *Arthritis & Rheumatism (Arthritis Care & Research)*. Vol. 57, No. 2, 193-202.
411. Dann, R., S., Koch, G.G. [2008]. Methods for one-sided testing of the difference between proportions and sample size considerations related to non-inferiority clinical trials. *Pharmaceutical Statistics*. Vol. 7, 130-141.
412. Koch, G.G. [2008]. Commentary for Current Issues in Non-Inferiority. *Statistics in Medicine*. Vol. 27, 333-342.
413. Matsukura, T., Koch, G. G. [2008]. Cumulative Statistical Power for Hierarchical Comparisons to Evaluate Two Combination Drug Doses. *Journal of Biopharmaceutical Statistics*. Vol. 18 (4): 750-772.
414. Cobitz, A., Zambanini, A., Sowell, M., Heise, M., Louridas, B., McMorn, S., Semigran, M., Koch, G. [2008]. A retrospective evaluation of congestive heart failure and myocardial ischemia events in 14237 patients with type 2 diabetes mellitus enrolled in 42 short-term, double-blind, randomized clinical studies with rosiglitazone. *Pharmacoepidemiology and Drug Safety*. Vol. 17, 769-781.
415. Ahn, C., Seillier-Moiseiwitsch, F., Koch, G.G. [2008]. Predictive tests for linked changes. *Statistics in Medicine*. Vol. 27, 4790-4804.
416. Pincus, T., Amara, I., Segurado, O.G., Bergman, M., Koch, G. G. [2008]. Relative Efficiencies of Physician/Assessor Global Estimates and Patient Questionnaire Measures are similar to or greater than joint counts to distinguish Adalimumab from control treatments in rheumatoid arthritis clinical trials. *The Journal of Rheumatology*. Vol. 35, 201-205.
417. LaVange, L. M., Koch, G.G. "Randomization-based nonparametric (ANCOVA)." Wiley Encyclopedia of Clinical Trials. Boston: John Wiley and Sons, Inc., 2008.
418. Murphy, L., Schwartz, T.A., Helmick, C.G., Renner, J.B., Tudor, G., Koch, G., Dragomir, A., Kalsbeek, W.D., Luta, G., Jordan, J.M. [2008]. Lifetime Risk of Symptomatic Knee Osteoarthritis. *Arthritis and Rheumatism*. Vol. 59(9), 1207-1213.
419. Marquess, J.S., Burke, C.T., Beecham, A.H., Dixon, R.G., Stavos, J.M., Sag, A.A., Koch, G.G., Mauro, M.A. [2008]. Factors associated with failed retrieval of the Günther Tulip inferior vena cava filter. *Journal of Vascular Interventional Radiology*. Vol 19(9), 1321-1327.
420. Wang, S. S., Paynter, L., Kelly, R.V., Koch, G.G., Skains, M.S., Gettes, L.S. [2009]. Electrocardiographic determination of culprit lesion site in patients with acute coronary events. *Journal of Electrocardiology*. Vol. 42, 46-51.

421. Machlus, K.R., Colby, E.A., Wu, J.R., Koch, G.G., Key, N.S., Wolberg, A.S. [2009]. Effects of tissue factor, thrombomodulin and elevated clotting factor levels on thrombin generation in the calibrated automated thrombogram. *Journal of Thrombosis and Haemostasis*. Vol 102 (5), 936-944.
422. Hartnett, M.E., Tinkham, N., Paynter, L., Geisen, P., Rosenberg, P., Koch, G., Cohen, K.L. [2009]. Aqueous vascular endothelial growth factor as a predictor of macular thickening following cataract surgery in patients with diabetes mellitus. *American Journal of Ophthalmology*. Vol 148(6), 895-901.
423. Rau, J.C., Deans, C., Hoffman, M.R., Thomas, D.B., Malcom, G.T., Zieske, A.W., Strong, J.P., Koch, G.G., Church, F.C. [2009]. Heparin cofactor II in atherosclerotic lesions from the Pathobiological Determinants of Atherosclerosis in Youth (PDAY) study. *Experimental and Molecular Pathology*. Vol 87(3), 178-83.
424. Barthel, B.L., Zhang, Z., Rudnicki, D.L., Coldren, C.D., Polinkovsky, M., Sun, H., Koch, G.G., Chan, D.C., Koch, T.H. [2009]. Preclinical Efficacy of a Carboxylesterase 2-Activated Prodrug for Doxazolidine. *Journal of Medicinal Chemistry*. Vol 52(23), 7678-7688.
425. Kawaguchi, A., Koch, G.G., Ramaswamy, R. [2009]. Applications of extensions of bivariate rank sum statistics to the crossover design to compare two treatments through four sequence groups. *Biometrics*. Vol 65(3), 979-988.
426. Saville, B., Herring, A., Koch, G.G. [2010]. A robust method for comparing two treatments in a confirmatory clinical trial via multivariate time-to-event methods that jointly incorporate information from longitudinal and time-to-event data. *Statistics in Medicine*. Vol. 29, 75-85.
427. Hasford, J., Bramlage, P., Koch, G., Lehmacher, W., Einhäupl, K., Rothwell, P.M. [2010]. Inconsistent trial assessments by the National Institute for Health and Clinical Excellence and IQWiG: standards for the performance and interpretation of subgroup analyses are needed. *Journal of Clinical Epidemiology*, Vol. 63, 1298-1304.
428. Quan, H., Wu, Y., Ren, H., Seko, N., Bizet, F., Koch, G.G. [2010]. Benefit-Risk Assessments in Dose-Finding Trials. *Statistics in Biopharmaceutical Research*. Vol. 2(2): 153-164.
429. Kawaguchi, A., Koch, G.G. [2010]. Multivariate Mann-Whitney Estimators for the Comparison of Two Treatments in a Three-Period Crossover Study with Randomly Missing Data. *Journal of Biopharmaceutical Statistics*. Vol. 20(4): 720-744.
430. Itzler, R., Koch, G.G., Matson, D.O., Gothefors, L., VanDamme, P., DiNubile, M.J., Heaton, P.M. [2010]. Robustness of the healthcare utilization results from the Rotavirus Efficacy and Safety Trial (REST) evaluating the human-bovine (WC3) reassortant pentavalent rotavirus vaccine (RV5). *BMC Pediatrics*. Vol. 10(42). <http://www.biomedcentral.com/1471-2431/10/42>
431. Stone, P.H., Chaitman, B.R., Stocke, K., Sano, J., DeVault, A., Koch, G.G. [2010]. The Anti-Ischemic Mechanism of Action of Ranolazine in Stable Ischemic Heart Disease. *Journal of the American College of Cardiology*. Vol. 56(12): 934-942.
432. Murphy, L.B., Helmick, C.G., Schwartz, T.A., Renner, J.B., Tudor, G., Koch, G.G., Dragomir, A.D., Kalsbeek, W.D., Luta, G., Jordan, J.M. [2010]. One in four people may develop symptomatic hip osteoarthritis in his or her lifetime. *Osteoarthritis and Cartilage*. Vol. 18: 1372-1379.
433. Davis, S. M., Koch, G.G., Rosenheck, R. A., Davis, V. G. [2010]. *Statistical Considerations. Antipsychotic Trials in Schizophrenia: The CATIE Project*. Ed. T. Scott Stroup, Jeffrey A. Lieberman. Cambridge: Cambridge University Press. Chapter 2: 22-38.

434. Anand, S.P., Murray, S.C., Koch, G.G. [2010] Sample size calculations for crossover thorough QT studies: satisfaction of regulatory threshold and assay sensitivity. *Journal of Biopharmaceutical Statistics*. 20: 563-579.
435. Saville, B.R., Kim, Y.S., Koch, G.G. [2011]. Graphical displays for clarifying how allocation ratio affects total sample size for the two sample logrank test. *Pharmaceutical Statistics*. Vol. 10(1): 40-44.
436. Sherwood, A., Blumenthal, J.A., Hinderliter, A.L., Koch, G.G., Adams, K.F., Dupree, C.S., Bensimhon, D.R., Johnson, K.S., Trivedi, R., Bowers, M., Christenson, R.H., O'Connor, C.M. [2011]. Worsening Depressive Symptoms are Associated with Adverse Clinical Outcomes in Patients with Heart Failure. *Journal of the American College of Cardiology*. Vol. 52(4): 418-423.
437. Sherwood, A., O'Connor, C.M., Routledge, F.S., Hinderliter, A.L., Watkins, L.L., Babyak, M.A., Koch, G.G., Adams, K.F., Dupree, C.S., Chang, P.P., Hoffman, B.M., Johnson, J., Bowers, M., Johnson, K.S., Blumenthal, J.A. [2011]. Coping effectively with heart failure (COPE-HF): Design and rationale of a telephone-based coping skills intervention. *Journal of Cardiac Failure*. Vol. 57(4): 418-423.
438. Johnson, W.D., Koch, Gary G. [2011]. *Intraclass Correlation*. International Encyclopedia of Statistical Science. Ed. Miodrag Lovric. Berlin: Springer. Part 9: 685-87.
439. Davison, B.A., Cotter, G., Sun, H., Chen, L., Teerlink, J.R., Metra, M., Felker, G.M., Voors, A., Ponikowski, P., Filippatos, G., Greenberg, B., Teichman, S.L., Unemori, E., Koch, G.G. [2011]. Permutation criteria to evaluate multiple clinical endpoints in a proof-of-concept study: lessons from Pre-RELAX-AHF. *Clinical Research in Cardiology*. Vol. 100: 745-753. Online publishing, DOI: 10.1007/s00392-011-0304-5.
440. Gray, L.D., Hussey, M.A., Larson, B.M., Machlus, K.R., Campbell, R.A., Koch, G., Ezban, M., Hedner, U., Wolberg, A.S. [2011]. Recombinant factor VIIa analog NN1731 (V158D/E296V/M298Q-FVIIa) enhances fibrin formation, structure and stability in lipidated hemophili plasma. *Thrombosis Research*. Vol. 128: 570-576.
441. Kawaguchi, A., Koch, G.G., Wang, X. [2011]. Stratified Multivariate Mann-Whitney Estimators for the Comparison of Two Treatments with Randomization Based Covariance Adjustment. *Statistics in Biopharmaceutical Research*. Vol.3 (2): 217-231.
442. Saville, B. R., LaVange, L.M., Koch, G.G. [2011]. Estimating Covariate-Adjusted Incidence Density Ratios for Multiple Time Intervals. *Statistics in Biopharmaceutical Research*. Vol. 3(2): 242-252.
443. Moodie, P.F., Saville, B.R., Koch, G.G., Tangen, C.M. [2011]. Estimating Covariate-Adjusted Log Hazard Ratios for Multiple Time Intervals in Clinical Trials using Nonparametric Randomization Based ANCOVA. *Statistics in Biopharmaceutical Research*. Vol. 3(2): 232-241.
444. Davis, S.M., Stroup, T.S, Koch, G.G., Davis, C.E., Rosenheck, R., Lieberman, J.A. [2011]. Time to All-cause Treatment Discontinuation as the Primary Outcome in the Clinical Antipsychotic Trials of Intervention Effectiveness (CATIE) Schizophrenia Study. *Statistics in Biopharmaceutical Research*. Vol 3(2): 253-265.
445. Gansky, S.A. Cheng, N.F., Koch, G.G. [2011]. Dose-weighted adjusted Mantel-Haenszel tests for numeric scaled strata in a randomized trial. *Statistics in Biopharmaceutical Research*. Vol. 3(2): 266-275.

446. Landis, J. R., King, T.S., Choi, J.W., Chinchilli, V.M., Koch, G.G. [2011]. Measures of agreement and concordance with clinical research applications. *Statistics in Biopharmaceutical Research*. Vol. 3(2): 185-209.
447. Bunouf, P., Grouin, J.M., Molenberghs, G., Koch, G. [2012]. Analysing intensive longitudinal data after summarization at landmarks: an application to daily pain evaluation in a clinical trial. *Journal of the Royal Statistical Society, Series A*. Vol. 175, Part 2: 513–534
448. Quan, H., Zhou, D., Mancini, P., He, Y., Koch, G.G. [2012]. Adaptive patient population selection design in clinical trials. *Statistics in Biopharmaceutical Research*, 4(1), 86-99
449. Sun, H., Davison, B.A., Cotter, G., Pencina, M.J., Koch, G.G. [2012] Evaluating treatment efficacy by multiple end points in phase II acute heart failure clinical trials. *Circulation: Heart Failure*, 5: 742-749
450. Durham, T.A., Koch, G.G., LaVange, L.M. [2012]. Introductory Statistics in Medical Research, Chapter 11 in Principles of Research Methodology: A Guide for Clinical Investigators. Supino, P.G. and Borer, J. Editors. Springer [publisher], New York, NY.
451. Stokes, M.E., Davis, C.S., and Koch, G.G. [2012]. Categorical Data Analysis Using SAS 3rd Edition. Cary, NC: SAS Institute Inc.
452. Zink, R.C., Koch, G.G. [2012] NParCov3: A SAS/IML macro for non-parametric randomization-based analysis of covariance. *Journal of Statistical Software*. Vol. 50(3): published online.
453. Elm, J., Palesch, Y.Y., Koch, G.G., Hinson, V., Ravina, B., Zhao, W. [2012]. Flexible Analytical methods for Adding a Treatment Arm Mid-study to an Ongoing Clinical Trial. *Journal of Biopharmaceutical Statistics*. Vol. 22(4): 758-772.
454. Saville B.R., Koch G.G [2013]. Estimating covariate-adjusted log hazard ratios in randomized clinical trials using Cox proportional hazards models and nonparametric randomization based analysis of covariance. *Journal of Biopharmaceutical Statistics* Vol. 23(2): 477-490
455. Li, S., Hussey, M.A., Schwartz, T.A., Koch G.G [2013]. A multistage analysis strategy for a clinical trial to assess successively more stringent criteria for a primary endpoint with a low event rate. *Pharmaceutical Statistics*. Vol. 12(2): 65-73
456. Watkins, L.L., Koch, G.G., Sherwood, A., Blumenthal, J.A., Davidson, J.R.T., O'Connor, C., Sketch, M.H. [2013]. Association of anxiety and depression with all-cause mortality in individuals with coronary heart disease. *Journal of the American Heart Association*. Vol. published online.
457. Weissman, N.J., Sanchez, M., Koch, G.G., Smith, S.R., Shanahan, W.R., Anderson, C.M. [2013] Echocardiographic assessment of cardiac valvular regurgitation with lorcaserin from analysis of 3 phase 3 clinical trials. *Circulation: Cardiovascular Imaging*. 6:560-567.
458. Hussey, M.A., Koch, G.G., Preisser, J.S., Saville, B.E. [2013]. Analysis of matched studies with dichotomous outcomes using nonparametric randomization based analysis of covariance. *Statistics in Biopharmaceutical Research*. 5(3): 194-203.
459. Wang, S.J., Bretz, F., Dmitrienko, A., Hsu, J., Hung, H.M.J., Huque, M., Koch, G.G. [2013]. Panel forum on multiple comparison procedures: A commentary from a complex trial design and analysis plan. *Biometrical Journal*. Vol. 55(3): 275-293.
460. Huang, X., Lixia, J., Wei, L., Quan, H., Teoh, L., Koch, G.G. [2013]. Missing radiographic data handling in randomized clinical trials in rheumatoid arthritis. *Journal of Biopharmaceutical Statistics*. Vol. 23: 1435-1452.

461. Yazici, B., Koch, G.G., Ercan, I., Agaoglu, E., Pincus, T., Bingol, U. [2013]. Examining the socio-demographic characteristics of osteoarthritis patients using GEE. *Pensee Journal*. Vol. 75(12): 438-449.
462. Hinderliter, A.H., Routledge, F.S., Blumenthal, J.A., Koch, G.G., Hussey, M.A., Wohlgenuth, W.K., Sherwood, A. [2013]. Reproducibility of blood pressure dipping: Relation to day-to-day variability in sleep quality. *Journal of American Society of Hypertension*. Vol. 7(6): 432-439.
463. Schwartz, T.A., Koch, G.G. [2014]. An overview of statistical planning to address subgroups in confirmatory clinical trials. *Journal of Biopharmaceutical Statistics*. Vol. 24(1): 72-93.
464. El-Khorazaty, J., Koch, G.G., and Preisser, J. [2014]. The iterative proportional fitting algorithm for adjusted agreement in a non-inferiority diagnostic clinical trial. *Pharmaceutical Statistics*. 13(3): 173-178.
465. Zhao, Y., Herring, A.H., Zhou, H., Ali, M.W., Koch, G.G. [2014]. A multiple imputation method for sensitivity analyses of time-to-event data with possibly informative censoring. *Journal of Biopharmaceutical Statistics*. Vol. 24(2): 229-253.
466. Zhao, Y, Preisser, J.S., Koch, G.G. [2014]. Sensitivity analysis for withdrawals in grouped time-to-event data. *Statistics in Biopharmaceutical Research*. 6(1):41-54.
467. Smith, P., Blumenthal, J., Carney, R., Freedland, K, O’Hayer, C., Trulock, E., Martinu, T., Schwartz, T., Hoffman, B., Koch, G., Davis, R., and Palmer, S. [2014]. Neurological functioning and survival following lung transplantation. *Chest*. 145(3): 604-611.
468. Lin, D., Tao, R., Kalsbeek, W.D., Zeng, D., Gonzalez, F., Fernandez-Rhodes, L., Graff, M., Koch, G.G., North, K.E., Heiss, G. [2014]. Genetic association analysis under complex survey sampling: the Hispanic community health study/study of Latinos. *The American Journal of Human Genetics*. Vol. 95: 675-688.
469. Fusco W., N. Choudhary, P. Routh, M. Ventevogel, V. Smith, G. Koch, G. Almond, P. Orndorff, G. Sempowski, I. Leduc. (2014). “The Haemophilus Ducreyi Trimeric Autotransporter Adhesin DsrA is an effective vaccine immunogen in the experimental swine model of chancroid”, *Vaccine* 32 (30): 3752-3758.
470. Zou, B., Cai, J., Zhou, H., Koch, G.G., Zou, F. [2015]. On model selections for repeated measurement data in clinical studies. *Statistics in Medicine*. 34(10): 1621-1633.
471. Nolan, T.L., Hudgens, M.G., Sen, P.K., Koch, G.G. [2015]. Analysis of repeated low-dose challenge studies. *Statistics in Medicine*. 34(12): 1981-1992.
472. Collard, H.R., Bradford, W.Z., Cottin, V., Flaherty, K.R., King, T.E., Koch, G.G., Kolb, M., Martinez, F.J., Montgomery, B., Raghu, G., Richeldi, L., Rose, D., Wells, A.U., Brown, K.K. [2015]. A new era in idiopathic pulmonary fibrosis: considerations for future clinical trials. *European Respiratory Journal*. 46(1): 243-249.
473. Kawaguchi, A. and Koch, G. [2015]. sanon: An R package for stratified analysis with nonparametric covariables adjustment. *Journal of Statistical Software*, 67(1): 1-37.
474. Nichols, T., Merricks, E., Bellinger, D., Raymer, R., Yu, J., Lam, D., Koch, G., Busby, W., and Clemmons, D. [2015]. Oxidized LDL and fructosamine associated with severity of coronary artery atherosclerosis in insulin resistant pigs fed a high fat/high NaCl diet. *PloS one*, 10(7), e0132302. PMID: 4492503.

475. Wang, S.J., Bretz, F., Dmitrienko, A., Hsu, J., Huang, H.M.J., Koch, G., Maurer, W., Offen, W., O'Neill, R. [2015]. Multiplicity in confirmatory clinical trials: a case study with discussion from a JSM panel. *Statistics in Medicine*, 34(26), 3461-80.
476. Alosch, M., Huque, M., Koch, G.G. [2015]. Statistical perspectives on subgroup analysis: testing for heterogeneity and evaluating error rate for the complementary subgroup. *Journal of Biopharmaceutical Statistics*, 25(6), 1161-1178.
477. Lu, K., Li, D., Koch, G.G. [2015]. Comparison between two controlled multiple imputation methods for sensitivity analyses of time-to-event data with possibly informative censoring. *Journal of Biopharmaceutical Statistics*, 7(3): 199-213.
478. Koch, G.G., [2015]. Commentary for "Evaluation and Review of Strategies to Assess Cardiovascular Risk in Clinical Trials in Patients with Type 2 Diabetes Mellitus." *Statistics in Biopharmaceutical Research*, 7(4), 267-271.
479. Luo, X., Li, M., Wu, C., Xu, Q., Chen, G., Dornseif, B.E., Renschler, M.F., Koch, G. [2016]. A proposed approach for analyzing post study therapy effect in survival analysis. *Journal of Biopharmaceutical Statistics*. 26(4), 790-800.
480. Hussey, M.A., Koch, G.G., Preisser, J.S., Saville, B.R. [2016]. Nonparametric randomization-based covariate adjustment for stratified analysis of time-to-event or dichotomous outcomes. *Journal of Biopharmaceutical Statistics*, 26(3): 579-89.
481. Barthel, B.L., Mooz, E.L., Wiener, L.E., Koch, G.G., Koch, T.H. (2016). Correlation of in Situ Oxazolidine Formation with Highly Synergistic Cytotoxicity and DNA Cross-Linking in Cancer Cells from Combinations of Doxorubicin and Formaldehyde. *Journal of Medicinal Chemistry*, 59(5), 2205-21.
482. Piccini, J. P., Pritchett, E. L., Davison, B. A., Cotter, G., Wiener, L. E., Koch, G., Feld, G., Waldo, A., van Gelder, I. C., Camm, A. J., Kowey, P. R., Iwashita, J. and Dittrich, H. C. (2016). Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of a Single Oral Dose of Vanoxerine for the Conversion of Subjects with REcent Onset Atrial Fibrillation or Flutter to Normal Sinus Rhythm: RESTORE SR. *Heart Rhythm*, 13, 1777-1783.
483. Zhao, Y., Saville, B., Zhou, H., Koch, G.G. [2016]. Sensitivity analysis for missing outcomes in time-to-event data with covariate adjustment. *Journal of Biopharmaceutical Statistics*. 26(2): 269-279.
484. Fan, C., Zhang, D. Wei, L., Koch, G. [2016]. Methods for missing data handling in randomized clinical trials with nonnormal endpoints with application to a phase III clinical trial. *Statistics in Biopharmaceutical Research*, 8(2), 1-15.
485. Koch, G.G. and Wiener, L.E. [2016] Commentary for the Missing Data Working Group's perspective for regulatory clinical trials, estimands, and sensitivity analyses. *Statistics in Medicine*, 35, 2887-2893.
486. Zou, B., Zou, F. Shuster, J.J., Tighe, P.J., Koch, G.G., Zhou, G. (2016). On variance estimate for covariate adjustment by propensity score analysis. *Statistics in Medicine*, 35, 3537-3548.
487. Wiener, L.E. and Koch, G.G. [2017]. Repeated Measurements, Design and Analysis for. *Wiley StatsRef: Statistical Reference Online*, 1-35.
488. Sherwood, A., Blumenthal, J.A., Koch, G.G., Hoffman, B.M., Watkins, L.L., Smith, P.J., O'Conner, C.M., Adams, K.F., Rogers, J.G., Sueta, C., Chang, P.P., Johnson, K.S., Schwartz, J.,

- Hinderliter, A.L. [2017]. Effects of coping skills training on quality of life, disease biomarkers, and clinical outcomes in patients with heart failure: A randomized clinical trial. *Circulation: Heart Failure*, Vol.10(1), <https://doi.org/10.1161/CIRCHEARTFAILURE.116.003410>
489. Li, S., Koch, G.G., Preisser, J.S., Lam, D., Sanchez-Kam, M. [2017]. Sensitivity analysis for missing dichotomous outcome data in multi-visit randomized clinical trial with randomization-based covariance adjustment. *Journal of Biopharmaceutical Statistics*, 27(3), 387-398.
490. Lam, D., Koch, G.G., Preisser, J.S., Saville, B.R., Hussey, M.A. [2017]. Randomization-based adjustment of multiple treatment hazard ratios for covariates with missing data. *Journal of Biopharmaceutical Statistics*, 27(3), 373-386.
491. Sun, H., Binkowitz, B., Koch, G.G. [2017]. Statistical planning to address strongly correlated endpoints for inferential subgroups: An innovative approach for an illustrative clinical trial with complex multiplicity issues. *Journal of Biopharmaceutical Statistics*, 27(3), 399-415.
492. Sun, H., Kawaguchi, A., Koch, G. [2017]. Analyzing multiple endpoints in a confirmatory randomized clinical trial—an approach that addresses stratification, missing values, baseline imbalance and multiplicity for strictly ordinal outcome. *Pharmaceutical Statistics*, 16(2), 157-166.
493. Sherwood, A., Hill, L.K., Blumenthal, J.A., Adams, K.F., Jr., Paine, N.J., Koch, G.G., O'Connor, C.M., Johnson, K.S., Hinderliter, A.L. [2017]. Blood pressure reactivity to psychological stress is associated with clinical outcomes in patients with heart failure. *American Heart Journal*, 191, 82-90.
494. Lam, D., Koch, G.G., Preisser, J.S., Saville, B.R. [2017]. Randomization-based adjustment of treatment hazard ratio for covariates with missing data. *Statistics in Biopharmaceutical Research*, 9(2), 195-203.
495. Zou, B., Cai, J., Koch, G.G., Zhou, H., Zou, F. [2017]. A model-based conditional power assessment for decision making in randomized controlled trial studies. *Statistics in Medicine*, 36(30), 4765-4776.
496. Torres, V.E., Chapman, A.B., Devuyst, O., Gansevoort, R.T., Perrone, R.D., Koch, G., Ouyang, J., McQuade, R.D., Blais, J.D., Czerwiec, F.S., Sergeeva, O. [2017]. Tolvaptan in later-stage autosomal dominant polycystic kidney disease. *New England Journal of Medicine*, 377(20), 1930-1942.
497. Ouyang, J., Carroll, K.J., Koch, G., Li, J. [2017]. Coping with missing data in phase III pivotal registration trials: Tolvaptan in subjects with kidney disease, a case study. *Pharmaceutical Statistics*, 16(4), 250-266.
498. Dmitrienko, A. and Koch, G.G., eds. [2017]. Analysis of Clinical Trials Using SAS, 2nd Edition. Cary, NC: SAS Institute Inc.
499. Zink, R.C., Koch, G.G., Chung, Y., and Wiener, L.E. [2017]. Chapter 2: Advanced randomization-based methods, Analysis of Clinical Trials Using SAS, 2nd Edition, eds. Dmitrienko, A. and Koch, G.G. Cary, NC: SAS Institute Inc.
500. Koch, G.G. and Wiener, L.E. [2017]. Chi-Squared Tests: Basics. *Wiley StatsRef: Statistical Reference Online*, 1-20.
501. Zhang, P., Carroll, K., Hobart, M., Augustine, C., Koch, G. [2017]. A case study in identifying targeted patients population in major depressive disorder by enhanced enrichment design. *Pharmaceutical Statistics*, 17(2): 144-154.

502. Li, X., Wulfsohn, M., Koch, G.G. [2017]. Considerations on testing secondary endpoints in group sequential design. *Statistics in Biopharmaceutical Research*, 9(4), 333-337.
503. Sun, H., Snyder, E., Koch, G.G. [2018]. Statistical planning in confirmatory clinical trials with multiple treatment groups, multiple visits, and multiple endpoints. *Journal of Biopharmaceutical Statistics*, 28(1), 189-211.
504. Mehta, S., Bastero-Caballero, R. Sun, Y. Zhu, R. Murphy, D. Hardas, B., Koch, G.G. [2018]. Performance of intraclass correlation coefficient (ICC) as a reality index under various distributions in scale reliability studies. *Statistics in Medicine*, 37(18), 2734-2752.
505. Yuan, J., Mesenbrink, P., Zhou, J., Liu, J., Zhu, R., Koch, G. [2018]. Clinical study design to assess both short-term and long-term efficacy in addition to group sequential test on safety. *Therapeutic Innovation & Regulatory Science*, 52(6), 690-695.
506. Koch, G.G., Wiener, L.E., Stokes, M.E. [2018]. Chi-Squared Tests: Numerical Examples. *Wiley StatsRef: Statistical Reference Online*.
507. Koch, G.G. [2019]. Commentary on “Statistics at FDA: Reflections on the Past Six Years”, *Statistics in Biopharmaceutical Research*, 11(1), 26-29.
508. Blumenthal, J.A., Zhu, Y., Koch, G.G., Smith, P.J., Watkins, L.L., Hinderliter, A.L., Hoffman, B.M., Rogers, J.G., Chang, P.P., O’Connor, C., Johnson, K.S., Sherwood, A. [2019]. The modifying effects of social support on psychological outcomes in patients with heart failure. *Health Psychology*, 38(6), 502-508.
509. Wang, D., Robieson, W., Zhao, J., Wiener, C., Koch, G. [2019]. Statistical considerations in a delayed-start design to demonstrate disease modification effect in neurodegenerative disorders. *Pharmaceutical Statistics*, 18: 407-419.
510. Ouyang, J., Zhang, P., Carroll, K.J., Lee, J., **Koch, G.G.** [2019]. Comparisons of global tests on intersection hypotheses and their application in matched parallel gatekeeping procedures. *Journal of Biopharmaceutical Statistics*, 30(4); 593-606.
511. Fan, C., Wei, L., **Koch, G.G.** [2019]. Methods for missing data handling in phase III clinical trials with nonnormal endpoints and nonnormal covariates. *Statistics in Biopharmaceutical Research*, 12(1): 68-78.
512. Salama, I. and **Koch, G.** [2019]. On the maximum-minimums identity: Extension and applications. *The American Statistician*, 74(3): 297-300.
513. Yuan, J., Zhu, R., Jia, D., Palm, U., **Koch, G.** [2019]. Combined-indications significance level of multiple related indications developed simultaneously. *Therapeutic Innovation & Regulatory Science*, 54(3): 571-576.
514. Gatto, N.M., Koralek, D.O., Bracken, M.B., Duggan, W.T., Lem, J., Klioze, S., **Koch, G.G.**, Wise, R.A., Cohen, R.B., Jackson, N.C. [2019]. Lung cancer mortality with inhaled insulin or comparator: Follow-up study of patients enrolled in Exubera-controlled clinical trials (FUSE) Final Results. *Diabetes Care*, Published online.
515. Eckel, R.H., Farooki, A., Henry, R.R., **Koch, G.G.**, Leiter, L.A. [2019]. Cardiovascular outcome trials in type 2 diabetes: What do they mean for clinical practice? *Clinical Diabetes*, 37(4): 316-337.



516. Wiener, L.E.\*, Ivanova, A., Li, S., Silverman, R.K., **Koch, G.G.** [2019]. Randomization-based analysis of covariance for inference in the sequential parallel comparison design. *Journal of Biopharmaceutical Statistics*, 29(4): 696-713.
517. Narag, G.L., Wiener, L.E.\*, Penniston, K.L., Antonelli, J.A., Averch, T.D., Sivalingam, S., Chew, B.H., Bird, V.G., Pais, V.M., Jr., Sur, R.L., Chi, T., Streeper, N.M., Nakada, S.Y., **Koch, G.G.**, Viprakasit, D.P. [2020]. The effect of travel distance on HRQOL for patients with nephrolithiasis. *Canadian Urological Association Journal*, 14(4): 99-104.
518. Gatto, N.M., Bracken, M.B., Kolitsopoulos, F., Duggan, W.T., **Koch, G.G.**, Wise, R.A., Jackson, N.C. [2020]. Pulmonary and cardiovascular safety of inhaled insulin in routine practice: The Exubera large simple trial (VOLUME). *Contemporary Clinical Trials Communications*, 18(2020) 100427.
519. Davison, B.A., Takagi, K., Senger, S., **Koch, G.G.**, Metra, M. Kimmoun, A., Mebazaa, A., Voors, A.A., Nielsen, O.W., Chioncel, O., Pang, P.S., Greenberg, B.H., Maggioni, A.P., Cohen-Solal, A., Ertl, G., Sato, N., Teerlink, J.R., Filippatos, G., Ponikowski, P., Gayat, E., Edwards, C., Cotter, G. [2020]. Mega-trials in heart failure: effects of dilution in examination of new therapies. *European Journal of Heart Failure*, 22(9): 1698-1707.
520. Wiener, L.E.\*, Ivanova, A., **Koch, G.G.** [2020]. Methods for clarifying criteria for study continuation at interim analysis. *Pharmaceutical Statistics*, 19:720-732.
521. Yu, J.\*, **Koch, G.G.** [2020]. Randomization-Based Methods for Treatment Comparisons for Dichotomous Outcomes for Multiple Anatomical Regions. *Statistics in Biopharmaceutical Research*, Published online.
522. Davison, B.A., Harrison, S.A., Cotter, G., Alkhoury, N., Sanyal, A., Edwards, C., Colca, J.R., Iwashita, J., **Koch, G.G.**, Dittrich, H.C. [2020]. Liver biopsy evaluation reliability in NASH. Impact on a randomized clinical trial. *Journal of Hepatology*, 73; 1322-1332.
523. DeSantis, S.M., Li, R., Zhang, Y., Wang, X., Vernon, S.W., Tilley, B.C., **Koch, G.G.** [2020]. Intent-to-treat analysis of cluster randomized trials when clusters report unidentifiable outcome proportions. *Clinical Trials*, 17(6); 627-636.
524. Davison, B.A., Senger, S., Sama, I.E., **Koch, G.G.**, Mebazaa, A., Dickstein, K., Samani, N.J., Metra, M., Zannad, F., Filippatos, G.S., Hillege, H.L., Ponikowski, P., van Veldhuisen, D.J., Lang, C.C., van der Meer, P., Nunez, J., Bayes-Genis, A., Edwards, C., Voors, A.A., Cotter, G. [2021]. Is Acute heart failure a distinctive disorder? An analysis from BIOSTAT-CHF. *European Journal of Heart Failure*, 23:43-57.
525. Kosiborod, M., Berwanger, O., **Koch, G.G.**, Martinze, F., Mukhtar, O., Verma, S., Chopra, V., Javaheri, A., Ambery, P., Gasparyan, S.B., Buenconsejo, J., Sjostrom, C.D., Langkilde, A.M., Oscarsson, J., Esterline, R. [2021]. Effects of Dapagliflozin on Prevention of Major Clinical Events and Recovery in Patients with Respiratory Failure due to COVID-19: The Design and Rationale for the DARE-19 study. *Diabetes, Obesity, and Metabolism*, 2021; 23:886-896.
526. Sui, J., Jiao, J., Sun, Y., Liu, J., Bastero, R., **Koch, G.** [2020]. Evaluation of Alternative Confidence Intervals to Address Non-Inferiority Through the Stratified Difference between Proportions. *Pharmaceutical Statistics*, 2021; 20:146-162.
527. Zou, B., Mi, X., Tighe, P.J., **Koch, G.G.**, Zou, F. [2021]. On kernel machine learning for propensity score estimation under complex confounding structures. *Pharmaceutical Statistics*, 2021:1-13.

528. Pan, Z., Huang, W., Pan, J., **Koch, G.** [2021]. Design and Analysis of a Biosimilar Bridging Study with a Prediction Interval Based Consistency Test. *Therapeutic Innovation & Regulatory Science*, 2021, In press. <https://doi.org/10.1007/s43441-021-00280-1>.
529. Gasparyan, S.B., Folkvaljon, F., Bengtsson, O., Buenconsejo, J., **Koch, G.G.** [2021]. Adjusted win ratio with stratification: Calculation methods and interpretation. *Statistical Methods in Medical Research*, 2021; 30(2):580-611.
530. Davison, B.A., Edwards, C., Loomba, R., Harrison, S.A., Cotter, G., Alkhoury, N., **Koch, G.G.**, Dittrich, H.C. [2021]. Noninvasive measure of treatment response in non-alcoholic steatohepatitis: Insights from EMMINENCE and meta-analysis. *Journal of Gastroenterology and Hepatology*, 2021; 1-10.
531. Gasparyan, S.B., Kowalewski, E.K.\*, Folkvaljon, F., Bengtsson, O., Buenconsejo, J., **Koch, G.G.** [2021]. Power and sample size calculation for the win odds test: Application to an ordinal endpoint in COVID-19 trials. *Journal of Biopharmaceutical Statistics*, 2021; published online. <https://doi.org/10.1080/10543406.2021.1968893>.
532. Kosiborod, M., Esterline, R., Furtado, R.H.M., Oscarsson, J., Gasparyan, S., **Koch, G.G.**, Martinez, F., Mukhtar, O., Verma, S., Chopra, V., Buenconsejo, J., with 23 other co-authors, and Berwanger, O. [2021]. Dapagliflozin in patients with cardiometabolic risk factors hospitalised with Covid-19 (DARE-19): a randomised, double-blind, placebo-controlled, phase 3 trial. *The Lancet Diabetes & Endocrinology*, 2021; published online. [https://doi.org/10.1016/S2213-8587\(21\)00180-7](https://doi.org/10.1016/S2213-8587(21)00180-7).
533. Tilley, B. C., Mainous, A. G., Amorrortu, R. P., McKee, M. D., Smith, D. W., Li, R., DeSantis, S. M., Vernon, S. W., Koch, G., Ford, M. E., Diaz, V., & Alvidrez, J. [2021]. Using increased trust in medical researchers to increase minority recruitment: The RECRUIT cluster randomized clinical trial. *Contemporary Clinical Trials*, 109, 106519. <https://doi.org/10.1016/j.cct.2021.106519>