

CURRICULUM VITAE

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EDUCATION:

1995 Ph.D. Biostatistics
The University of North Carolina at Chapel Hill

1988 M.A. Statistics
The Pennsylvania State University, University Park, Pennsylvania

1986 B.S. Statistics
Virginia Tech, Blacksburg, Virginia

PROFESSIONAL EXPERIENCE:

2007-present **Research Professor**, Department of Biostatistics,
School of Public Health, University of North Carolina at
Chapel Hill

2002-present **Research Associate Professor**, Department of Biostatistics,
School of Public Health, University of North Carolina at
Chapel Hill

1999-2002 **Research Assistant Professor**, Department of Biostatistics,
School of Public Health, University of North Carolina at
Chapel Hill

- 1995-1999 **Assistant Professor** of Public Health Sciences (Biostatistics)
Department of Public Health Sciences, Wake Forest University
School of Medicine, Winston-Salem, North Carolina
- 1990-1995 **Statistical Consultant/Graduate Research Assistant**,
Biometric Consulting Lab, The University of North Carolina,
Chapel Hill, North Carolina
- 1988-1990 **Statistician I**, Glaxo, Inc., Research Triangle Park
Raleigh, North Carolina
- 1986-1986 **Mathematical Statistician/Summer Intern**, U.S. Department of Labor:
The Bureau of Labor Statistics, Washington D.C.

FELLOWSHIPS, HONORS AND AWARDS:

- 2006 Elected member of International Statistical Institute
- 2006 Elected Fellow of the Cecil G. Sheps Center for Health Services Research,
University of North Carolina at Chapel Hill
- 2001 James E. Grizzle Distinguished Alumnus Award
Department of Biostatistics, University of North Carolina
- 1998-1999 Adjunct Assistant Professor, Department of Biostatistics
School of Public Health, University of North Carolina at Chapel Hill
- 1995 Biometric Society, Eastern North American Region,
Student Travel Award Recipient
- 1994-1995 U.S. Public Health Service Traineeship
- 1990-1994 NIEHS Environmental Traineeship
- 1986 Cobb Whitfield Award for Outstanding Graduating Senior,
Department of Statistics, Virginia Tech

EDITORSHIPS:

- 2008-present Associate Editor (“Co-editor”), Sankhya (Indian Journal of Statistics)

PROFESSIONAL MEMBERSHIPS:

American Statistical Association
The International Biometrics Society
International Statistical Institute

BIBLIOGRAPHY:

Book Chapters

3. **Preisser J.** Cluster Trials, in Encyclopedia of Biopharmaceutical Statistics: Second Edition, Revised and Expanded, ed. S. Chow. Marcel Dekker, Inc., 2005 1(1). DOI: 10.1081/E-EBS-120023779.
2. Qaqish B, **Preisser J.** Generalized linear models for independent and dependent data, in Handbook of Statistics, Volume 18: Bioenvironmental and Public Health Statistics, eds. P.K Sen and C.R. Rao, 2000, pages 193-222.
1. Imrey P, Koch G, **Preisser J.** The evolution of categorical data modeling: a biometric perspective in Advances in Biometry, eds. P. Armitage and H.A. David. John Wiley & Sons, Inc., 1996; pages 89-113.

Journal Articles (Peer reviewed): Methods of Biostatistics/Epidemiology (students are underlined)

23. Perin J, **Preisser J**, Rathouz P. Semi-parametric efficient estimation for incomplete longitudinal binary data with application to smoking trends. Journal of the American Statistical Association (in press).
22. **Preisser J**, Lu B., Qaqish BF. Finite sample adjustments in estimating equations and covariance estimators for intracluster correlations. *Statistics in Medicine* 2008; 27(27):5764-5785.
21. **Preisser J**, Qaqish BF, Perin J. A note on deletion diagnostics for estimating equations. *Biometrika* 2008; 95:509-513.
20. **Preisser J**, Perin J. Deletion diagnostics for marginal mean and correlation model parameters in estimating equations. *Statistics and Computing* 2007; 17:381-393.
19. **Preisser J**, Reboussin B, Song E-Y, Wolfson M. The importance and role of intracluster correlations in planning cluster trials. *Epidemiology* 2007; 18: 552-560.
18. Lu B, **Preisser J**, Qaqish B, Suchindran C, Bangdiwala S, Wolfson M. A comparison of two bias-corrected covariance estimators for generalized estimating equations. *Biometrics* 2007; 63(3): 935-941.

17. Ahn C, Koch G, **Preisser J**, Seillier-Moiseiwitsch F. Log-linear models for mutations in the HIV genome. *Journal of Statistical Planning and Inference* 2007; 137(11):3227-3239.
16. Young M, **Preisser J**, Qaqish B, Wolfson M. A comparison of subject-specific and population averaged models for count data from cluster-unit intervention trials. *Statistical Methods in Medical Research* 2007; 16:167-184.
15. Kim H, **Preisser J**, Rozier G, Valiyaparambil J. Multi-level analysis of group-randomized trials with binary outcomes. *Community Dentistry and Oral Epidemiology* 2006, 34:241-51.
14. Hammill B, **Preisser J**. A SAS/IML Software Program for GEE and regression diagnostics. *Computational Statistics and Data Analysis* 2006; 51:1197-1212.
13. **Preisser J**, Mitchell C, Powers J, Arcury T, Gesler W. A two-step nonparametric sample survey approach for testing the association of degree of rurality with health services utilization. *Journal of Official Statistics* 2005; 21:39-51.
12. **Preisser J**, Garcia D. Alternative computational formulae for generalized linear model diagnostics: identifying influential observations with SAS Software. *Computational Statistics and Data Analysis* 2005; 48:755-764.
11. **Preisser J**, Arcury T, Quandt S. Detecting Patterns of Occupational Illness Clustering with Alternating Logistic Regressions applied to Longitudinal Data. *American Journal of Epidemiology* 2003;158:495-501.
10. **Preisser J**, Young M, Zaccaro D, Wolfson M. An integrated population average approach to the design, analysis and power determination of cluster-unit trials. *Statistics in Medicine* 2003; 22:1235-1254.
9. **Preisser J**. Quasi-likelihood analysis of Patient Satisfaction with Medical Care. *Health Services & Outcomes Research Methodology* 2002; 3:233-245.
8. **Preisser J**, Lohman K, Rathouz P. Performance of weighted estimating equations in longitudinal studies with dropouts missing at random. *Statistics in Medicine* 2002; 21:3035-3054.
7. **Preisser J**, Galecki A, Lohman K, Wagenknecht L. Analysis of smoking trends with incomplete longitudinal binary responses. *Journal of the American Statistical Association*, 2000; 95:1021-31.
6. Ananth C, **Preisser J**. Bivariate logistic regression: modeling the association of small for gestational age births in twin gestations. *Statistics in Medicine* 1999; 18:2011-2023.
5. Qaqish B, **Preisser J**. Resistant fits for regression with correlated outcomes: an estimating equation approach. *Journal of Statistical Planning and Inference* 1999; 75:415-431.
4. **Preisser J**, Qaqish B. Robust regression for clustered data with application to binary responses.

Biometrics 1999; 55:574-579.

3. **Preisser J**, Koch G. Categorical data analysis in public health. *Annual Review of Public Health* 1997;18:51-82.
2. **Preisser J**, Qaqish B. Deletion diagnostics for generalized estimating equations. *Biometrika*, 1996;83(3):551-562.
1. **Preisser J**, Koch G, Shockley W. Statistical considerations for cross-sectional data relating to tracheal reconstruction over time. *Journal of Biopharmaceutical Statistics* 1993; 3(2):167-183.

Biostatistics Papers Submitted or in Preparation (students are underlined)

1. **Preisser J**, By K, Perin J, Qaqish B. Regression diagnostics for alternating logistic regressions. (submitted).
2. Teerenstra S, Lu B, **Preisser J**, van Achterberg T, Borm GF. Sample size considerations for GEE analysis of three-level cluster randomized trials. (submitted)
3. By K, Qaqish BF, **Preisser JS**, Perin J, Zink RC. ORTH: R and SAS Software for regression models of correlated binary data based on orthogonalized residuals. (submitted)

Non-peer Reviewed (students are underlined)

6. **Preisser, J. S.** (2005), "GEE Diagnostics for Marginal Association Models," 2005 Proceedings of the American Statistical Association, Section on Health Policy Statistics [CD-ROM], Alexandria, VA: American Statistical Association: pp-pp.
5. Young M, **Preisser J.** (2001), "Generalized estimating equations (GEE) with design-based correlation structures for cluster-unit trials." *ASA Proceedings of the Joint Statistical Meetings*. American Statistical Association (Alexandria, VA), 2001.
4. Zaccaro D, Wolfson M, **Preisser J.** (2000), "Use of propensity scores in a non-randomized community trial: Evaluating the enforcing underage drinking laws program." *ASA Proceedings of the Epidemiology Section*, 74-79. American Statistical Association (Alexandria, VA).
3. **Preisser J** (1995). "Regression diagnostics and resistant fits for generalized estimating equations", doctoral dissertation written under the direction of Bahjat F. Qaqish, Department of Biostatistics, University of North Carolina at Chapel Hill, Mimeo Series No. 2147.
2. **Preisser J**, Koch G, Shockley W. (1992). "Statistical considerations for tracheal reconstruction data." *ASA Proceedings of the Section on Statistical Education*, 233-238. American Statistical Association (Alexandria, VA).

1. **Preisser J** (1988). "Loglinear analysis of censored survival data." An unpublished paper written under the guidance of Clifford C. Clogg submitted in partial fulfillment of the requirements of the Masters of Arts degree, Department of Statistics, Pennsylvania State University, State College, Pa.

Letters

6. **Preisser J**. Measure for Measure, Re: Ending the Death Penalty, America: The National Catholic Weekly, 2008; 198, No. 16:37-37. [letter].

5. Olsen, M, **Preisser J**. Population-Average versus Cluster-Specific Estimates, "Rapid Responses to" The Effect of Clustering of Outcomes on the Association of Procedure Volume and Surgical Outcomes, Annals of Internal Medicine 2003; 139:658-665. 2005 [e-letter:
<http://www.annals.org/cgi/eletters/139/8/658>]

4. **Preisser J**. "First Author Replies", Re: Detecting Patterns of Occupational Illness Clustering with Alternating Logistic Regressions applied to Longitudinal Data. American Journal of Epidemiology 2004;160:506-507 [letter].

3. Arcury T, Quandt S, **Preisser J**, Norton D. The incidence of green tobacco sickness among latino farmworkers – Reply. J. Occupational and Environmental Medicine 2002;44:225-6 [letter].

2. Cohen S, Moran W, Wofford J, **Preisser J**. Reminders for health maintenance visits. Arch Fam Med 1999; 8(4):295-6 [letter].

1. Bowman M, Kirk J, Michielutte R, **Preisser J**. Use of amantadine for chronic fatigue syndrome. Archives of Internal Medicine 1997;157:1264-5 [letter].

Journal Articles (Peer reviewed): Applications in Epidemiology, Medicine, and Public Health

66. Daaleman TP, Williams CS, **Preisser JS**, Sloane, PD, Biola H, Zimmerman S. Advance Care Planning in Nursing Homes and Assisted Living Communities. J Am Med Dir Assoc 2009; 10: 243-251.

65. Phillips C, **Preisser J**, White R, Blakey G, Haug RH. Prediction of periodontal pathology around third molars using linear mixed effects modeling. Community Dental Health 2008, 24, 89-97.

64. Smith SK, Zimmerman S, Williams CS, **Preisser JS**, Clipp EC. Post-traumatic stress outcomes in non-hodgkin's lymphoma survivors. Journal of Clinical Oncology 2008, 26:934-941.

63. Quandt SA, Schulz MR, Vallejos QM, Feldman SR, **Preisser JS**, Arcury TA. Skin-related quality of life among migrant farmworkers. Journal of Cutaneous Medicine and

Surgery, 2008; 12:1-7.

62. Tallury P, Randall MK, Thaw KL, **Preisser JS**, Kalachandra S. Effects of solubilizing surfactants and loading of antiviral, antimicrobial, and antifungal drugs on their release rates from ethylene vinyl acetate copolymer. *Dental Materials* 2007; 23(8):977-82.
61. Hickman SE, Barrick AL, Williams CS, Zimmerman S, Connell BR, Preisser JS, Mitchell CM, Sloane PD. The Effect of Ambient Bright Light Therapy on Depressive Symptoms in Persons with Dementia Depression paper. *Journal of the American Geriatrics Society* 2007; 55:1524-1533.
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59. Arcury TA, Feldman SR, Vallejos Q, Schulz MR, Verma A, Fleischer AB, Rapp SR, Davis S, **Preisser JS**, Quandt SA. Diagnosed Skin Diseases among Migrant Farmworkers in North Carolina: Prevalence and Risk Factors. *Journal of Agricultural Safety and Health*, 2007, 13(4):407-418.
58. Sloane PD, Brooker D, Cohen L, Douglass C, Edelman P, Fulton BR, Jarrott S, Kasayka R, Kuhn D, **Preisser JS**, Williams CS, Zimmerman S. Dementia care mapping as a research tool. *International Journal of Geriatric Psychiatry*, 2007; 22: 580-589.
57. Gourlay ML, **Preisser JS**, Callahan LF, Linville JC, Sloane PD. Osteoporosis Preventive Care for Nonwhite Women and Men in Community Family Practice Clinics. *Southern Medical Journal* 2007;100:677-82.
56. Phillips C, Essick G, **Preisser J**, Turvey TA, Tucker M, Lin D. Sensory retraining following orthognathic surgery: effect on patient perception of altered sensation. *Journal of Oral and Maxillofacial Surgery* 2007; 65:1162-73.
55. Sloane PD, Cohen L, Williams C, Munn J, **Preisser J**, Sobsey M, Wait D, Zimmerman S. Effect of specialized bathing systems on resident cleanliness and water quality in nursing homes: a randomized clinical trial. *Journal of Water and Health* 2007; 5(2): 283-294.
54. Gourlay ML, **Preisser JS**, Callahan LF, Linville JC, Sloane PD. Survey of Osteoporosis Preventive Care in Community Family Medicine Settings. *Family Medicine* 2006;38:724-30.
53. Gesler W, Sherman J, Spencer J, Arcury T, **Preisser J**, Perin J. Exploring inequalities in health care coverage by degree of rurality in western North Carolina. *Southeastern Geographer* 2006; 46(1):97-120.
52. Zimmerman S, Sloane PD, Williams CS, Reed PS, **Preisser JS**, Eckert JK, Boustani M, Dobbs D. *The Gerontologist* 2005, 45(Special Issue 1):133-146.

51. Winzelberg GS, Williams CS, **Preisser JS**, Zimmerman S, Sloane PD. Factors associated with nursing assistant quality-of-life ratings for residents with dementia in long-term care facilities. *The Gerontologist* 2005, 45(Special Issue 1):96-105.
50. Zimmerman S, Williams CS, Reed PS, Boustani M, **Preisser JS**, Heck E, Sloane PD. Attitudes, stress, and satisfaction of staff who care for residents with dementia. *The Gerontologist* 2005, 45(Special Issue 1):96-105.
49. Port CL, Zimmerman S, Williams CS, Dobbs D, Williams S, **Preisser JS**. Families filling the gap: comparing family involvement for assisted living and nursing home residents with dementia. *The Gerontologist* 2005, 45(Special Issue 1):87-95.
48. Williams S, Williams C, Zimmerman S, Sloane P, **Preisser J**, Boustani M, Reed P. Characteristics associated with mobility limitation in long-term care residents with dementia. *The Gerontologist* 2005, 45(Special Issue 1):62-67.
47. Sloane P, Zimmerman S, Williams C, Reed P, Gill K, **Preisser J**. Evaluating the quality of life of long-term care residents with dementia. *The Gerontologist* 2005, 45(Special Issue 1):37-49.
46. Mayer M, **Preisser J**. The changing composition of the pediatric medical subspecialty workforce. *Pediatrics* 2005; 116:833-840.
45. Sloane P, Noell-Waggoner E, Hickman S, Mitchell M, Williams C, **Preisser J**, Barrick A, Zimmerman S, Brawley E. Implementing a lighting intervention in public areas of long-term care facilities: lessons learned. *Alzheimer's Care Quarterly* 2005; 4:280-293.
44. Krobot K, Kaufman J, Christensen D, **Preisser J**, Miller W, Ibrahim M. Accessing a new medication in Germany: A novel approach to assess a health insurance-related barrier. *Annals of Epidemiology* 2005; 15(10):756-761.
43. Beck J, Caplan D, **Preisser J**, Moss K. Reducing the Bias of Probing Depth and Attachment Level Estimates Using Random Partial Mouth Recording. *Community Dentistry and Oral Epidemiology* 2006; 34:1-10.
42. Grzywacz J, Rao P, Woods C, **Preisser J**, Gesler W, Arcury T. Children's health and workers' productivity: A rural examination of family interference with work. *Journal of Occupational Health Psychology* 2005; 10(4):382-92.
41. Boggess K, Price W, **Preisser J**, Moise K, Offenbacher S. Insulin-like growth factor and interleukin-1 β levels and subsequent fetal size in response to chronic *Porphyromonas gingivalis* exposure in the pregnant rabbit. *Am J Obstet Gynecol* 2005; 193: 1219-23.
40. Boggess K, Madianos P, **Preisser J**, Moise K, Offenbacher S. Chronic maternal and fetal *Porphyromonas gingivalis* exposure during pregnancy in rabbits. *Am J Obstet Gynecol* 2005; 192(2): 554-557.

39. Arcury T, Gesler W, **Preisser J**, Sherman J, Spencer J, Perin J. The effects of geography and spatial behavior on health care utilization among residents of a rural region. *Health Services Research* 2005; 40(1): 135-155.
38. Arcury T, **Preisser J**, Gesler W, Powers J. Access to transportation and health care utilization in a rural region. *Journal of Rural Health* 2005;21:31-38.
37. Gary RA, Sueta CA, Dougherty M, Rosenberg B, Cheek D, **Preisser J**, Neelon V, McMurray R. Home-based exercise improves functional performance and quality of life in women with diastolic heart failure. *Heart & Lung*, 2004; 33(4):210-218.
36. Krobot K, Miller W, Kaufman J, Christensen D, **Preisser J**, Ibrahim M. Disparity in access to new medication by type of health insurance: lessons from Germany. *Medical Care* 2004;42:487-91.
35. Krobot K, Miller W, Kaufman J, Christensen D, **Preisser J**, Ibrahim M. Using Risk Advancement Period Methodology to Study Delay in Access To Health Benefits From Pharmaceutical Innovation in the German Statutory Health Insurance Scheme. *Epidemiology* 2004; 15:202-208.
34. Arcury T, **Preisser J**, Gesler W, Sherman J. Complementary and alternative medicine use among rural residents in western North Carolina *Complementary Health Practice Review* 2004; 9:93-102.
33. Bland D, Dugan E, Cohen S, **Preisser J**, Davis C, McGann P, Suggs P, Pearce K. The effects of implementation of the Agency for Health Care Policy and Research urinary incontinence guidelines in primary care practices, *Journal of the American Geriatrics Society* 2003; 51:979-984.
32. Spangler J, Arcury T, Quandt S, **Preisser J**. Cigarette Smoking among Mexican farmworkers working in tobacco-Eastern North Carolina. *Journal of Agromedicine* 2003; 9(1):83-91.
31. Woods C, Arcury T, Powers J, **Preisser J**, Gesler W. Determinants of Health Care Use by Children in Rural Western North Carolina: Results from the Mountain Accessibility Project Survey. *Pediatrics* 2003;112:e143-152.
30. Arcury T, Quandt S, **Preisser J**, Bernert J, Norton D, Wang J. High levels of transdermal nicotine exposure produce green tobacco sickness in Latino farmworkers. *Nicotine & Tobacco Research* 2003; 5:315-321.
29. Champagne C, Buchanan W, Reddy M, **Preisser J**, Beck J, Offenbacher S. Potential for gingival crevice fluid measures as predictors of risk for periodontal diseases. *Periodontology* 2000 2003;31:167-180.
28. Arcury T, Quandt S, Garcia D, **Preisser J**, Norton D, Rao P. A clinic based case-control comparison of green tobacco sickness among minority farmworkers: clues for prevention.

Southern Medical Journal 2002; 95:1008-11.

27. Barroso J, **Preisser J**, Leserman J, Gaynes B, Golden R, Evans D. The relationship of fatigue and depression among HIV Positive Gay Men. *Psychosomatics* 2002;43:317-325.

26. Quandt S, **Preisser J**, Arcury T. Mobility Patterns of Migrant Farmworkers in North Carolina: Implications for Occupational Health Research and Policy. *Human Organization* 2002; 61:21-29.

25. Gesler W, Arcury T, **Preisser J**, Trevor J, Sherman J, Spencer J. Access to care issues for health professionals in the mountain region of North Carolina. *International Quarterly of Community Health Education* 2000-2001; 20(1):83-102.

24. Reynolds P, Crenshaw C, Lefkowitz D, Shelton B, **Preisser J**, and Tegeler C. A Practical stroke severity scale predicts hospital outcomes. *Journal of Stroke and Cerebrovascular Disease* 2001;10:231-235.

23. Dugan E, Roberts C, Cohen S, **Preisser J**, Davis C, Bland D, Albertson E. Why older community dwelling adults do not discuss urinary incontinence with their primary care providers. *Journal of the American Geriatrics Society* 2001;49:462-465.

22. Arcury T, Quandt S, **Preisser J**. Predictors of incidence and prevalence of green tobacco sickness among latino farmworkers in North Carolina, USA. *Journal of Epidemiology and Community Health* 2001; 55: 818-824.

21. Arcury T, Quandt S, **Preisser J**, Norton D. The Incidence of Green Tobacco Sickness Among Latino Farmworkers. *Journal of Occupational and Environmental Medicine* 2001;43(7):601-609.

20. Quandt S, Arcury T, **Preisser J**, Bernert TJ, Norton D. Environmental and Behavioral Predictors of Salivary Cotinine in Latino Tobacco Workers. *Journal of Occupational and Environmental Medicine* 2001; 43: 844-852.

19. Austin C, Arcury T, Quandt S, **Preisser J**, Saavedra R, Cabrera L. Training farmworkers about pesticide safety: issues of control. *Journal of Health Care for the Poor and Underserved* 2001; 12(2):236-249.

18. Flack JM, Yunis C, **Preisser J**, Holmes CB, Mensah G, McLean B, Saunders E; for the ATIME Research Group. The rapidity of drug dose escalation influences blood pressure response and adverse effects burden in patients with hypertension. *Archives of Internal Medicine* 2000; 160:1842-1847.

17. Dugan E, Cohen S, **Preisser J**, Davis C, Suggs P, McGann P. The association of urinary incontinence and depressive symptoms among older adults. *Journal of the American Geriatrics Society*, 2000; 48:413-416.

16. Davis K, Sloane P, Mitchell C, **Preisser J**, Grant L, Hawes M, Lindeman D, Montgomery R,

Phillips C, Koch G. Dementia Special Care Units in Assisted Living Facilities I: Characteristics. *The Gerontologist*. 2000, 40:32-42.

15. Moran W, Cohen S, **Preisser J**, Wofford J, Shelton B, McClatchey M. Training, evidence, or influence: correlates of PSA use in primary care. *American Journal of Managed Care*. 2000, 6:315-324.

14. Quandt S, Arcury T, **Preisser J**, Norton D, Austin C. Migrant farmworkers and Green Tobacco Sickness: new issues for an understudied disease. *American Journal of Industrial Medicine* 2000; 37:307-315.

13. Arcury T, Quandt S, Austin C, **Preisser J**, Cabrera L. Implementation of US-EPA 's Worker Protection Standard Training for Agricultural Laborers: an evaluation using North Carolina data. *Public Health Reports* 1999; 114:459-468.

12. Cohen S, Robinson D, Howard G, Suggs P, Dugan E, Pearce K, Carroll D, McGann P, **Preisser J**. Communication between older adults and their physicians about urinary incontinence. *J. Gerontology: Medical Sciences* 1999;54A:M34-M37.

11. Wagenknecht L, Craven T, **Preisser J**, Manolio T, Winders S, Hulley S. Ten-year trends in cigarette smoking among young adults, 1986-1996: The Cardia Study. *Ann Epidemiol* 1998; 8:301-307.

10. Sloane P, Mitchell C, **Preisser J**, Phillips C, Commander C, Burker E. Environmental correlates of resident agitation in Alzheimers Disease special care units, *J American Geriatrics Society* 1998; 46:862-9.

9. Hall W, Reed J, Flack J, Yunis C, **Preisser J**, and the ISHIB Investigators Group. Comparison of the efficacy of dihydropyridine calcium channel antagonists in african american hypertensives, *Archives of Internal Medicine* 1998; 158(18):2029-2034.

8. Robinson D, Pearce K, **Preisser J**, Dugan E, Suggs P, and Cohen S. Relationship between patient reports of urinary incontinence symptoms and quality of life measures, *Obstetrics and Gynecology* 1998; 91:224-228.

7. **Preisser J**, Cohen S, Wofford J, Moran W, Shelton B, McClatchey M, Wolfe P. Physician and patient predictors of health maintenance visits. *Archives of Family Medicine* 1998;7:346-351.

6. O'Shea T, **Preisser J**, Klinepeter K, Dillard R. Trends in mortality and cerebral palsy in a geographically based cohort of very low birth weight neonates born 1982 to 1994. *Pediatrics* 1998; 101:642-647.

5. Ligush J, Reavis S, **Preisser J**, Hansen K. Duplex ultrasound defines operative strategies for patients with limb threatening ischemia. *J Vascular Surgery* 1998; 28:482-491.

4. Dugan E, Cohen S, Robinson D, Anderson R, **Preisser J**, Suggs P, Pearce K, Poehling U, McGann P. The quality of life of older incontinent adults: determining generic and condition specific predictors. *Quality of Life Research* 1998; 7:337-344..

3. Jason D, Lantz P, **Preisser J**. A national survey of autopsy cost and workload. *J Forensic Sciences* 1997;42(2):270-275.

2. Burker E, Wong H, Sloane P, Mattingly D, **Preisser J**, Mitchell M. Predictors of fear of falling in dizzy and non-dizzy elderly. *Psychology and Aging* 1995;10(1):104-110.

1. Bailey K, Sloane P, Mitchell M, **Preisser J**. Which primary care patients with dizziness will develop persistent impairment? *Archives of Family Medicine* 1993;2(8):847-852.

PRESENTATIONS:

Invited

Analysis of count data having zeros with application to dental caries. Clinical Translational Science Institute, University of Pittsburgh, 2009.

Use and interpretation of zero-inflated count data models: application to a caries clinical trial. Task Force on Design & Analysis in Oral Health Research semi-annual meeting, Newark, 2009.

Software development for GEE and Orth. Biometrics ENAR meeting, San Antonio, March, 2009.

Finite Sample Bias-corrections to Sandwich Covariance Estimators for Longitudinal and Clustered Data. Joint Statistical Meetings at Salt Lake City, 2007.

Issues of Clustering in the Mountain Accessibility Project. National Service Research Training Award Program Seminar Series, Cecil. B. Sheps Center for Health Services Research, University of North Carolina at Chapel Hill, Nov 7, 2005.

Improving the sandwich covariance estimator for marginal mean and within-cluster association regression models. Division of Biostatistics, University of Pennsylvania, November, 2005.

GEE regression diagnostics and an improved variance estimator for marginal association models. Duke Clinical Research Institute, Durham, North Carolina, 2005.

Statistical strategies for addressing dropout in longitudinal trials: LOCF vs. mixed models, GlaxoSmithKline, Inc. Research Triangle Park, NC 2004.

Variance estimation in bivariate binary-response transition models. Department of Health Evaluation Sciences, University of Virginia, Charlottesville, Virginia, 2004.

Variance estimation in bivariate binary-response transition models. Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia, 2004.

A biostatistical perspective on the use of generalized estimating equations. Biometrics ENAR meeting, Tampa, March, 2003.

Survey results on healthcare use in western North Carolina: the Mountain Accessibility Project. Institute of Public Health, Jagiellonian University, Krakow, Poland, 2003.

Analysis of smoking trends with incomplete longitudinal binary responses using weighted estimating equations, Statistical Methods and Epidemiology Working Group, Department of Biostatistics, Harvard University, Boston, 2002.

Analysis of longitudinal binary data subject to missingness. James E. Grizzle Distinguished Alumnus Award Lecture, Dept of Biostatistics, University of North Carolina, Chapel Hill 2001.

Analysis of longitudinal binary data subject to missingness. Department of Biostatistics and Bioinformatics, Duke University, Durham, North Carolina 2001.

A quasi-likelihood analysis of patient satisfaction with patient-doctor communication. Department of Biostatistics, Virginia Commonwealth University, Richmond, Virginia 1998.
GEE: What is it and why does it matter. Biometrics ENAR meeting, Pittsburgh, 1998.

Resistant fits using modified generalized estimating equations. Department of Statistics, Virginia Tech, Blacksburg, Virginia, 1997.

Generalized estimating equations: regression diagnostics and resistant fits. Penn State College of Medicine, Hershey, Pennsylvania, 1995.

Generalized estimating equations: regression diagnostics and resistant fits. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1995.

Contributed

Loglinear Modeling of Health Services Use in a Sample Survey. Joint Statistical Meetings at Washington, DC, 2009 (topic contributed talk).

Deletion diagnostics for alternating logistic regressions. International Biometrics Society, ENAR spring meeting, Tampa, 2006.

GEE diagnostics for marginal association models. Joint Statistical Meetings at Minneapolis, 2005.

Design Issues in a large non-randomized community trial to reduce underage drinking. Biometrics, ENAR meeting, Chicago, 2000.

Analysis of smoking trends with longitudinal binary responses subject to dropout (poster). Biometrics ENAR meeting, Atlanta, 1999.

A quasi-likelihood analysis of patient satisfaction with patient-doctor communication. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1998.

Bivariate logistic regression: modeling concordance of small-for-gestational-age births in twins. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1997.

Weighted generalized estimating equations. Wake Forest University School of Medicine, Winston-Salem, North Carolina, 1997.

Generalized estimating equations: regression diagnostics and resistant fits. Department of Biostatistics, University of North Carolina, Chapel Hill, North Carolina, 1995.

Resistant fits for correlated binary regression with medical applications. ENAR Meeting, Birmingham, Alabama, 1995.

Influence measures for generalized estimating equations. Joint Statistical Meetings, Toronto 1994.

Co-authored Biostatistical Presentations (presented by another person, students are underlined)

Semi-parametric efficient estimator for incomplete longitudinal binary data with application to smoking trends. Jamie Perin, John S. Preisser. Joint Statistical Meetings, August 3-7, 2008, Denver, Colorado. (This paper was a recipient of a travel award from the ASA Section on Health Policy Statistics).

Some aspects of model assessment when using GEE. B. Qaqish, J. Preisser. International Biometrics Society, ENAR spring meeting, Atlanta, 2007. (*invited talk*).

Random cluster size, Within-cluster resampling, and generalized estimating equations. E. Andraca-Carrera, B. Qaqish, J. Preisser. International Biometrics Society, ENAR spring meeting, Atlanta, 2007.

GEE with design-based correlation structures for cluster-unit trials. M. Young, J. Preisser. Joint Statistical Meetings at Atlanta, 2001.

Is degree of rurality associated with health service use? C. Mitchell, J. Preisser, W. Gesler, T. Arcury. International Biometrics Society, ENAR spring meeting, Charlotte, 2001.

Use of propensity scores in a non-randomized community trial: the Enforcing Underage Drinking Laws Program. Zaccaro D, Wolfson M, Preisser J. Joint Statistical Meetings, Indianapolis, IN, 2000.

TEACHING EXPERIENCE:

Courses taught

- 2000, 2002 BIOS 765 (265) (Models and Methods in Categorical Data Analysis), Instructor,
2004, 2006 Department of Biostatistics, University of North Carolina at Chapel Hill
2008
- 1998, 1999 EPID 708/HSRE 708 (Applied Linear Models), Instructor,
Wake Forest University School of Medicine, Winston-Salem, North Carolina
- 1987, 1988 Introductory Statistics, Instructor, Department of Statistics,
The Pennsylvania State University, University Park, Pennsylvania

Guest lectures

- March 5, 2007 “Generating Valid and Effective Samples” and “Sampling Issues in Three
March 19, 2008 Health Studies”, HPAA 885, Methods in Health Services Research,
School
March 18, 2009 of Public Health, University of North Carolina.
- April 30, 2003 “Exact Logistic Regression: Ordinal Exposure Variable” Epid 303, Oral
Epidemiology, School of Public Health, University of North Carolina.
- April 16, 2003 “Exact Logistic Regression and Related Topics” Epid 303, Oral
Epidemiology, School of Public Health, University of North Carolina.
- February 12, 2002 “Alternating logistic regressions: modeling clustering of binary
outcomes” Epid 369, School of Public Health, Univ. of North Carolina.
- April 6, 2000 “Statistical Methods for the Analysis of Interventions: Anova versus
Mixed Model Analysis of Repeated Measures” Nursing 337, School of
Nursing, University of North Carolina.
- June 1999 “Weighted Generalized Estimating Equations for Missing Longitudinal
Data”. Bios 250 “Missing Data” course, Department of Biostatistics,
University of North Carolina at Chapel Hill.
- October 1, 1998 “Sample Size Calculation for Clinical Trials”, Epidemiology Masters
Program Students, Wake Forest University.
- March 13, 1997 “Statistical Issues in Planning and Implementing a Research Study” and
“Power and Sample Size Considerations”, delivered for the Health
Services Research Center Workshop

September 4, 2009

- October 10, 1996 “Repeated Measures for Categorical Data”, Epid 409, Wake Forest University.
- April 19, 1996 “Statistical Issues in Planning and Implementing a Research Study” and “Power and Sample Size Considerations”, two lectures delivered for the Health Services Research Center Workshop

Research Supervision*

University of North Carolina Biostatistics Graduate Students

- Jamie Perin Ph.D. Dissertation Advisor (“Improved generalized estimating equations for incomplete longitudinal binary data, covariance estimation in small samples, and ordinal data”) Defense expected Fall, 2009.
- Bing Lu Dr.PH Dissertation Advisor (“Estimating correlation parameters in cluster trials with binary responses using estimating equations”). Defended March 2005.
- Mary L. Young Dr.PH Dissertation Advisor (“Generalized estimating equations with design-based correlation structures for cluster-unit trials”). Defended September 2003.
- Dongming Lin Masters Paper Advisor (“Partial Proportional Odds Models for Sensory Retraining Data ”) Completed May 2006.
- Jamie Perin Masters Paper Advisor (“Correlated Health Care Outcomes from the Mountain Accessibility Project Cluster Sample Survey in Rural North Carolina”). Completed November 2005.
- Bradley Hammill Masters Paper Advisor (“A SAS/IML Software Program for GEE and Regression Diagnostics”). Completed July 2005.
- Daniel Garcia Masters Paper Advisor (“Alternative Computational Formulae for Generalized linear model diagnostics: identifying influential observations with SAS Software”). Completed November 2002.
- Cicely Mitchell Masters Paper Advisor (“Is degree of rurality associated with health service use?”) Completed May 2001.
- **Guosheng Yin Masters Paper Advisor (“Repeated Measures Data Analysis of Managing Uncertainty in Cancer”). Completed May, 2000.
- Xiangqiong Gu Masters Paper Advisor (“Linear Mixed Model Analysis of a Grouped

Randomized Trial of Migrant Farmworkers to Increase Protective Behaviors against Pesticide Use in Tobacco Fields”). Completed June 2000.

* I have served on several doctoral committees in the Department of Epidemiology, School of Public Health, and in the School of Nursing at the University of North Carolina.

** Received award for the Best Master’s Paper in the Department of Biostatistics, 2000.

Curriculum Development and Instructional Design

- 2000-2008 Continued development of content for Bios 765, “Models and Methods in Categorical Data Analysis”, University of North Carolina
- 1999 Served as chair of the UNC Biostatistics committee formed to make recommendations to restructure the first year MS linear models sequence
- 1998 Member of Health Services Research Master’s Program Executive Committee, Wake Forest University.

FUNDING

Current

- 2007-2009 Clustering of Underage Alcohol Use in Communities & its contextual influences. Principal Investigator of subcontract to Wake Forest University.
- 2007-2009 Estimating Association of Clustered Ordinal Dental Data, 1-R03-DE017907-01,A1, National Institute of Dental and Craniofacial Research. Principal Investigator.
- 2006-2011 Phenotype and Gene Expression Profile in Odontogenetic Tumors, 5 R01 DE016079-03, NIDCR (Principal Investigator: Wright). Statistician
- 2007-2012 Periodontal Disease and Coronary Vessel Remodeling in Metabolic Syndrome Patients, 1R01DE018184-01, NIDCR (Principal Investigator: Welty). Statistician.
- 2008-2013 Prevention of dental caries in early head start children, 1 R01 DE018236-01 NIH, (Principal Investigator: Rozier)

Past

- 2005-2009 Estimation of Association for Multivariate Binary Data, R01 CA101901-01, National Cancer Institute, NIH (Principal Investigator: Bahjat F. Qaqish). Co-investigator.
- 2005-2008 Evaluating the Association's Training Program for Director Care Staff. (Principal

- Investigator: Sheryl Zimmerman). Biostatistician.
- 2004-2008 Intra-oral drug delivery systems for HIV/AIDS patients, 5-R01-DE015267-03, National Institute of Dental & Cranofacial Research (Principal Investigator: Sid Kalachandra). Biostatistician.
- 2003-2008 NIA Academic Leadership Career Award-Preparing the Next Generation of Researchers in Aging (Principal Investigator: Philip Sloane). Biostatistician.
- 1998-2007 Multicenter Trial of Third Molar Patient Management, Amer Assoc/Oral & Maxillofacial Surgeons (Principal Investigator: C. Phillips). Biostatistician.
- 2003-2007 Evaluation of the Enforcement of Underage Drinking Laws Program: Community Trial. Biostatistical consultant and Principal Investigator of subcontract to Wake Forest University.
- 2001-2006 Sensory Re-Training Following Orthognatic Surgery, R01 DE13967-02, Nat Institute of Dental & Cranofacial Research, (Principal Investigator: C. Phillips). Biostatistician.
- 2001-2006 High Intensity Light Therapy in Alzheimer's Disease, R01 AT00212-02, National Institute of Complementary and Alternative Medicine (Principal Investigator: P. Sloane). Biostatistician.
- 2004-2005 Methods for Marginal Association Models for Correlated Binary Outcomes. Six month grant award for fixed term faculty to do statistical methodology at 25% salary support from Department of Biostatistics, University of North Carolina. Principal Investigator.
- 1998-2004 Geographic Effects on Rural Health Care Utilization, 5-R01-HS09624-04, Agency/Health Care Policy & Res. (Principal Investigator: W. Gesler). Coinvestigator.
- 1999-2004 Comprehensive Center for Inflammatory Disorders (CCID), P60-DE-13079-01, National Institute of Dental & Cranofacial Research (Principal Investiagor: P. Flood). Biostatistician.
- 2000-2004 Dementia Care In Assisted Living & Nursing Homes, Alzheimer's Association Grants Operations (Principal Investigator: Zimmerman). Biostatistician.
- 2002-2003 Clinical Prediction Models for Fatigue and Depression among HIV-positive Men. 9P30 AI0504101-04, National Institute of Health. Pilot grant award from Univ. of North Carolina Center for Aids Research. Principle Investigator.
- 1999-2002 Green Tobacco Sickness, OHO3648, Subcontract from Wake Forest University.

Principal investigator of subcontract.

1998 Statistical Approaches to Cancer Control Trials with Categorical Outcomes in the Presence of Nonrandom Drop-outs. American Cancer Society. Pilot grant award from Wake Forest University School of Medicine. Principal Investigator.

PROFESSIONAL SERVICE

University

2009 Mentor of a minority student in Biostatistics Summer Undergraduate Research and Education (BSURE) program

2009 Chair of Gary Koch Festschrift Subcommittee, member of 60th Departmental Anniversary Committee

2008-2009 Chair of Department of Biostatistics Space Committee

2007 Served on UNC School of Public Health Student Poster Competition Committee

2006-2009 Serve on UNC School of Public Health space committee

2006-2007 Serve on PhD Part II & DrPH Subcommittee of the Doctoral Examinations Committee, Department of Biostatistics, University of North Carolina

2003-2007 Serve on UNC Biostatistics Masters Examination Committee

2002-2006 K-Award Advisory Committee Member for Dr. Michelle Mayer, Department of Health Policy and Administration, and Cecil B. Sheps Center, University of North Carolina

2005 Served on search committee for a Chair of the Department of Biostatistics

2004 Served on search committee for a Department of Biostatistics Faculty Member for the Lineberger Cancer Center

2001 Served as discussion facilitator for UNC Summer Reading Program for incoming freshman and transfer students.

2000-2001 Served on UNC Biostatistics Graduate Studies Committee

1995-1999 Primary Faculty Statistician in Health Services Research Center, Department of Public Health Sciences, Wake Forest University School of Medicine

National/International

- 2009 Served as member of NIH/NIDCR Scientific Review Group 2009/05 ZDE1 MH (14) that convened on 2/11/2009 to review grant applications for a RFA DE-08-009 R21s entitled "Developing Complex Models of Oral Health Behavior"
- 2008 Served as member of NIH/NIDCR Scientific Review Group 2008/08 ZDE1 JH 35 that convened on 5/2/2008 to review grant applications for a RFA DE-08-009 R21s entitled "Developing Complex Models of Oral Health Behavior"
- 2007-2009 International Biometrics Society, ENAR Regional Advisory Board
- 2007 Served as member of NIH Scientific Review Group 2007/10 ZDE1 YL (53) that convened on 5/24/2007 to review grant applications for a PAR entitled "NIDCR Small Research Grants for Data Analysis and Statistical Methodology (R03)"
- 2006 Served as member of NIH/NIDCR Special Emphasis Panel/Scientific Review Group 2007/01 ZDE1 PZ (12) that convened on 11/09/2006 to review grant applications for several PARs related to dental research.
- 2006 ENAR 2007 Spring Meeting (Atlanta) Program Committee, Representative of the Biometrics Section of the American Statistical Association
- 2006 Organized an invited paper session "Model Selection and Assessment in GEE" for the Biometric Society ENAR Conference, March, 2007, Atlanta.
- 2005 Chair, Section on Statistics in Epidemiology of the American Statistical Association (2004 Chair-Elect, 2006 Past-Chair)
- 2005 Member of Nathan Mantel Award Selection Committee of the Section on Statistics in Epidemiology of the American Statistical Association
- 2005 Reviewer of Grant Proposal for the Natural Sciences and Engineering Research Council of Canada.
- 2004-06 Young Investigator Award Committee, Section on Statistics in Epidemiology of the American Statistical Association
- 2004 Organized an invited paper session on the theme "Statistics in Epidemiology" for the International Conference on Statistics in Health Sciences at Nantes University, Nantes, France, June 23-25, 2004.
- 2004 Serve on Data Safety and Monitoring Board for clinical trial, "Take Control of Your Blood Pressure". Principal Investigator: Hayden Bosworth, Ph.D., Duke University.

- 2003-2007 Serve on Data Monitoring Committees for two clinical trials that test a pharmacologic intervention for the prevention of HIV disease in Africa.
- 2002-2004 Serve on Steering Committee for Dementia Care in Assisted Living and Nursing Homes, a project funded by the Alzheimer's Association (PIs: Sheryl Zimmerman, Ph.D., Philip Sloane, M.D., J. Kevin Eckert, Ph.D.)
- 2002 Served as reviewer for the Center for Scientific Review Special Emphasis Panel, Clinical Cardiovascular Sciences (CCVS) study section, NIH.
- 2001 Served on Local Arrangements Committee, Biometric Society ENAR Conference, Charlotte, NC
- 2000 Served as reviewer on a Special Emphasis Panel for STD prevention, Center for Disease Control and Prevention, Atlanta

JOURNAL ARTICLES REFEREED:

- 2008-2009 (8) Computer Methods and Programs in Biomedicine
Journal of Biopharmaceutical Statistics
JRSS-A
Paediatric and Perinatal Epidemiology
Statistics and Probability Letters
Statistics in Medicine (2)
Statistical Methodology
- 2005-2007 (14) American Journal of Epidemiology
Computer Methods and Programs in Biomedicine
Drug and Alcohol Dependence
Encyclopedia of Clinical Trials
Environmental Health Perspectives
Journal of the American Statistical Association
Journal of Clinical Endocrinology
Statistics in Medicine (6)
Statistical Modelling
- 2001-2004 (9) Applied Statistics (JRSS-C)
Biometrical Journal
Biometrics
Health Services Research & Outcomes Methodology
Journal of the American Statistical Association
Journal of Biopharmaceutical Statistics
Journal of Computational and Graphical Statistics

1996-2000 (14)

- Statistics in Medicine (2)
- Biometrics (4)
- Drug Information Journal (2)
- Journal of the American Statistical Association (3)
- Journal of Epidemiology and Community Health
- Journal of Statistical Computation and Simulation
- Statistics in Medicine (3)