

Faculty biosketch

Name: Pamela Ohman Strickland

Undergraduate school: Bowdoin College

Graduate School: Cornell University

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Key publications:

Ohman-Strickland, P.A. and Lu, S. Estimates, power and sample size calculations for two-sample ordinal outcomes under before-after study designs. *Statistics in Medicine* 2003; 30:97-108.

Ohman Strickland, P.A. and Casella, G. Conditional inference following group sequential testing. *Biometrical Journal*, 2003; 45:515-526.

Fiedler, N., Weisel, C., Lynch, R., Kelly-McNeil, K., Wedeen, R., Jones, K., Udasin, I., Ohman-Strickland, P. and Gochfeld, M. Cognitive Effects of Chronic Exposure to Lead and Solvents. *American Journal of Industrial Medicine*, 2003. 44:413-423.

Desir, B., Amre, D.K., Lu, S.-E., Ohman-Strickland, P.A., Dubinsky, M., Fisher, R. and Seidman, E.G., Utility of serum antibodies in determining clinical course in pediatric Crohn's disease. *Clinical Gastroenterology and Hepatology*, 2004. 2:139-146.

Cohen, D., DiCiccio-Bloom, B., Headley, A., Orzano, A.J., Ohman Strickland, P., Levine, J., Scott, J. and Crabtree, B. Opportunistic approaches for delivering preventive care in illness visits. *Preventive Medicine*, 2004. 38:565-573.

Shih, W.J., Ohman Strickland, P.A. and Lin, Y. Analyses of Pilot and Early Phase Studies with Small Sample Sizes. *Statistics in Medicine*, 2004. 23:1827-1842.

Agresti, A, Caffo, B, and Ohman Strickland, P. Examples in which misspecification of a random effects distribution reduces efficiency, and possible remedies. *Computational Statistics and Data Analysis*, 2004. 47: 639-653.

Fiedler N, Laumbach R, Kelly-McNeil K, Liroy P, Fan Z-H, Zhang J, Ottenweller J, Ohman-Strickland P, and Kipen H. Health Effects of a Mixture of Indoor Air Volatile Organics, their Ozone Oxidation Products and Stress. *Environmental Health Perspectives*, 2005. 11:1542-1548.

Shakarjian MP, Bhatt P, Gordon MK, Chang Y-C, Casbign SL, Rudge TL, Kiser RC, Sabourin CL, Casillas RP, Ohman-Strickland P, Riley DJ, and Gerecke DR. Preferential expression of matrix metalloproteinase-9 in mouse skin after sulfur mustard exposure. *Journal of Applied Toxicology* 2006. 26:239-246.

Honors, awards, community service:

- Member of the UMDNJ Stuart D. Cook Master Educators Guild
- Inducted into Delta Omega, the Honorary Society in Public Health
- Secretary of the Faculty for the UMDNJ-School of Public Health
- Reviewer for numerous journals including *Annals of Family Medicine*

Comments:

As a biostatistician, I am interested in the application and development of statistical methods that further the understanding of factors leading to promotion of health and the prevention and treatment of disease in diverse populations. I have extensive experience with hierarchical linear modeling of both continuous and binary responses. For example, these models can be applied to examine determinants of the care received by patients within family medicine practices. These models allow for simultaneous examination of both patient- and practice-level predictors while controlling for clustering of patients within practices. I am also experienced in the analysis of ordinal data (often found in survey studies), bootstrap methods for data with small sample sizes or non-normally distributed data, and survival analysis.