



Michael P. McDermott, PhD obtained his doctoral degree in Statistics from the University of Rochester in 1989. For nearly 20 years he has been involved in the design and analysis of clinical trials and other clinical and basic studies in a variety of neurological diseases including Parkinson's disease, Huntington's disease, Tourette's syndrome, epilepsy, periodic paralysis, various muscular dystrophies and other muscle diseases, HIV-associated dementia, multiple sclerosis, and attention deficit-hyperactivity disorder. He was Associate Editor of the journal *Neurology* from 1997-2003 and has served on the Medical Advisory Committee of the Muscular Dystrophy Association since 1998. Much of Dr. McDermott's statistical research has been in the area of order-restricted inference, specifically with regard to developing novel approaches to hypothesis testing problems involving order-constrained parameters (e.g., tests for trend in dose-response studies). More recently he has been working on problems of inference concerning the accuracy of diagnostic tests in two different settings: (1) when all subjects are administered the diagnostic test but the true disease status is verified in only a subset of these subjects (verification bias), and (2) when there are more than two possible diagnostic categories (receiver operating characteristic [ROC] surfaces).

Dr. McDermott is currently Associate Professor of Biostatistics and Neurology and Associate Chair of the Department of Biostatistics and Computational Biology at the University of Rochester.

Representative Publications:

Mudholkar GS, **McDermott MP**. A class of tests for equality of ordered means. *Biometrika* 1989; 76:161-168.

Wang Y, **McDermott MP**. Conditional likelihood ratio test for a nonnegative normal mean vector. *J Am Statist Assoc* 1998; 93:380-386.

McDermott MP. Generalized orthogonal contrast tests for homogeneity of ordered means. *Canad J Statist* 1999; 27:457-470.

McDermott MP, Wang Y. Construction of uniformly more powerful tests for hypotheses about linear inequalities. *J Statist Plan Inf* 2002; 107:207-217.

McDermott MP, Hall WJ, Oakes D, Eberly S. Design and analysis of two-period studies of potentially disease-modifying treatments. *Controlled Clin Trials* 2002; 23:635-649.