

Project: Analysis of Data From Clinical Trials of New Treatments for Epilepsy

Client: Kansas Medical Center

Project Lead: Bryan Manly

Completion Date: March 2002

In this project methods were developed for assessing new methods for treating epilepsy using brain stimulation. Complications compared to usual clinical trials included the large differences between patients in their rate of suffering from symptoms of epilepsy, the small number of patients available, time trends in measured variables, and uncertainty about how best to measure the effectiveness of treatments. WEST proposed a linear regression model approach to analyses, taking into account different time periods, different times of day, and treatment effects. This work is described in an article by Osorio and Manly (2001) that has been submitted to a medical journal for publication. In this article the method of analysis is illustrated using the results from a trial on one patient with an endpoint measure that describes the intensity of seizures.

Research Papers Arising from This Project

Osorio, I. and Manly, B.F.J. (2001). Clinical trials of the efficacy of new treatments and new delivery modalities for epilepsy: experimental designs and statistical analyses. Submitted for publication.

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