



Exact Logistic Regression

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In the Stats Corners of April and May 2001, we discussed the basics of logistic regression and the concept of odds ratios. The standard analyses however are based on asymptotic methods and these may be inadequate when sample sizes are small or the data are sparse, skewed or heavily tied. Exact conditional analysis remains valid in such situations and is now available with the LOGISTIC procedure of SAS/STAT (from SAS V8.1 onwards). The following paper discusses the theory and methods for exact logistic regression and illustrates their application in version 8 of the SAS system: "Performing Exact Logistic Regression with the SAS System" by Robert E. Derr.

The paper can be downloaded from <http://www.sas.com/rnd/app/papers/exactlogistic.pdf>