STATISTICAL METHODS TO ANALYSE ORDINAL CATEGORICAL DATA ARISING FROM THE CLINICAL TRIAL OF DRUGS FROM THE PHARMACEUTICAL INDUSTRY

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The pharmaceutical industry gives rise to square tables of ordinal data from the clinical trial of newly manufactured drugs. The proportional odds model is assumed to fit the data. A simulated study compares existing methods with a new method of application (wilcoxon van elteren test) in testing the null hypothesis formulated through the parameters of the model. The methods employed are evaluated on a real data set of square ordinal responses from the clinical trial of a new drug Theoretical results pertaining to the new Wilcoxon Van Elteren method are derived and verified on the real data set.