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Nonparametric Multiple Comparisons Using Log Odds of the Relative Effects. Preliminary report.

Nonparametric multiple comparisons can be very useful, but must be used carefully to avoid nontransitivity paradoxes. Using the example of nontransitive dice, we show how to resolve the issue of these paradoxes in nonparametric multiple comparisons by creating a reference distribution. Then, we suggest a new testing procedure using the log odds transformation and a Box-type finite-sample approximation. We conclude by analyzing the dataset from a neuropsychological study, highlighting the effectiveness of the log odds transformation as a convenient effect size. (Received September 20, 2016)