

Rubin の Causal Model に基づいた多群ランダム化比較試験の データ分析手法の開発

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OBJECTIVE. The development of a new analysis method based on the Rubin's causal model for multiple comparisons.

METHOD. A new test statistic was derived and compared with a test statistic obtained by a t-test.

RESULTS. A multiple comparison by a t-test rejected the null hypothesis less than the level of the nominal value. However, the test statistic developed in this study rejected the null hypothesis as much as the level of the nominal value. In addition, the new test statistic was more powerful than the method based on t-test.

CONCLUSIONS. The new test statistic developed in this study is useful in the circumstances in which multiple comparisons are necessary.