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论著

医学科研中样本资料的综合评价问题

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摘要:

综合评价方法一般是对总体资料(特定空间和时间)进行评价。在某些特殊情形下, 需要对样本资料进行

评价, 那么在综合排序时有必要考虑抽样误差对排序结果的影响。然而目前综合评价方法对评价结果只能描述, 不

能进行统计推断, 因此存在着抽样误差的估计问题。本文利用Monte Carlo模拟方法求解排序结果的概率并给出Matlab

程序, 基于模拟结果, 将综合评价的传统“绝对结论”改为“概率结论”, 提出了一种新的综合评价结果排序的方

法及新的结果分档法。

关键词: 抽样误差 综合评价 Monte Carlo模拟 概率结论

Comprehensive evaluation of sample data in medical research

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Abstract:

Comprehensive evaluation methods are generally used to assess the population data. When we

need to estimate the sample data in special situations, the impacts brought by the sampling error

should be considered. Due to lack of the accurate measurement for the sensitivity and stability

in the comprehensive evaluation methods, sampling errors usually cannot be estimated in the

sampling research. Monte Carlo simulation was used in this article to solve the probability of the

ordering results, and the matlab programs were presented. Based on the simulated results, we

change the conventional “absolute conclusion” of comprehensive evaluation methods to “probability

results” for the sample data, and put forward a new sorting and ranking method for the results of

comprehensive evaluation.

Keywords: sampling error comprehensive evaluation Monte Carlo simulation probability result

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