

# Current Approaches in Statistical Evaluation in Medical Research

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Keyword: approaching medical statistic, discussion on (P) value, statistical significant, clinical significant,

## Abstract:

Recently, discussions about the importance or necessity of the (P) value in the evaluation of hypothesis test analysis results have gained intensity in scientific community, mostly related to the field of health. The focus of critical approaches is the opinion that the P value does not fully reflect the relationship between the variables in the hypothesis and that it is affected by the sample size enough to change the result. It is suggested that in order to strengthen the meaningfulness of the research result, it should be supported by practical significance and clinical significance. Our aim in this study is to share approaches on this subject of discussion with the reader, and also to explain our views on the subject from our own unique perspective.

In our study, in addition to the opinions in the literature, we approached the subject in terms of the characteristics of the field of medical science as well as the technological developments in the research method. The conclusion we reached in the discussion is that the complex structure of factorial relationships in medical events or cases have to be compatible with developing techniques in statistics. This indicates that, among the variables examined only by analytical methods, it is necessary to specify in the research the evaluation factors other than the P value, which gives the probability results of simple statistical methods, for an effective inference. In addition, it is necessary to develop statistical software techniques that will apply variable combinations that will achieve creative results regarding problem solving, as well as ensuring numerical compatibility of numerical statistical data and clinical results and determining the situation.

Key words: new approach medical research, practical and clinical significant in medicine,

Table 1: Causes of Errors in Inferential Statistic

