

THE MOST POWERFUL TEST AND THE OPTIMAL DESIGN OF RESPONSE ADAPTIVE CLINICAL TRIALS

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Response adaptive clinical trials have the advantages of allocating more patients to the potential better treatment but lead to dependent samples. The dependency in the samples may cause the loss of statistical power. This talk will introduce the most powerful test for response adaptive clinical trials and explore its properties. Based on the most powerful test statistic, the effect of the adaptation of treatment allocation on statistical power will be discussed and the optimal design of response adaptive clinical trials will be explored.