

Title: **The Sample Size for a Clinical Trial: A Bayesian Approach**

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Abstract:

Using decision theory, what is an appropriate sample size for a clinical trial, with a binary endpoint? We present a program, suitable for actual planning, which, with some extensions, implements Canner's solution to this question. Examples with a discussion are given. Implications of a Bayesian approach are discussed. Bayesian and Neyman-Pearson approaches are compared.