Bayesian Adaptive Clinical Trial Design in Practice

Farid Jamshidian, Associate Director
Research in Biostatistics at Johnson & Johnson, San Diego

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ABSTRACT:
Developing new medical devices is a time-consuming and expensive process. Innovative trial designs are needed to cut cost and time for device development. Additionally, there is considerable amount of uncertainty around study parameters in the design phase of a trial. As patients enroll and their outcomes become known, information accumulates and reduces uncertainty about trial parameters. In this talk, we will give an overview of Bayesian adaptive designs and review practical aspects of this type of design using examples from recent trials with adaptive sample size calculation and early success interim analysis features.