



APPLIED STATISTICS WORKSHOP

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"Adaptative designs in clinical trials"

Friday, March 6, 2009

14:30

Room : **c 115 (STAT)**

Abstract

In this talk, we present statistical methods suitable to change dynamically the randomization ratio in clinical trials. In dose-ranging studies, this technique permits to start with more doses being explored, and to end with more patients being treated within the therapeutic range. The method may be extended to terminate early studies, in case of futility or proof of efficacy. Defined in a Bayesian framework, the technique involves a modeling component for the dose-response curve and a family of utility-based allocators. Pure Bayesian or classical group-sequential techniques may be considered for the early stopping. We illustrate the technique in a series of phase I safety, biomarker and phase II efficacy trials that were analysed. We also present a statistical software (www.decimaker.com) that we developed to support these analyses.

You are welcome to the coffee break after the seminar (room : c 105)

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