UNIVERSITY of HAWAI'I MĀNOA

John A. Burns School of Medicine

Biostatistics & Data Management Core

The UH JABSOM Biostatistics & Data Management Core is pleased to present:

"Statistical Issues in Evaluating the Efficacy of Personalized Medicine"

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Abstract

With the advance of high-throughput genetics/genomics technology, the concept of personalized medicine is becoming a realistic possibility. In this presentation, we will discuss statistical issues involved in evaluation of the clinical utility of "personalized medicine" using an example of a novel in-vitro screening assay developed by cancer researchers at OHSU. The in-vitro kinase inhibitor assays evaluate sensitivity of primary leukemia cells against a panel of small-molecule kinase inhibitors. It is hypothesized that the assay results can help identify molecularly targeted drugs to which a patient is most likely to respond. Several phase II trial designs were proposed and their operating characteristics were evaluated through simulation. We will present the results of the simulation study and discuss general statistical issues/challenges involved in testing a personalized medicine strategy. These include trial design, patient eligibility, selection of endpoints and control group, randomization, sample size and analysis strategies.

Monday, November 5, 2012
2:00 - 3:00 p.m.
Medical Education Building, Room # 304
John A. Burns School of Medicine
651 Ilalo Street
Honolulu, Hawaii 96813

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For questions, please contact JABSOM BDMC at 692.1814. Mahalo!