Division of Biostatistics, IHE
Medical College of Wisconsin presents

Optimising Group Sequential and Adaptive Designs: Where Frequentist meets Bayes

By: Christopher Jennison, PhD

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Friday, November 4th, 2022 | 12:00pm – 1:00pm

The search for efficient group sequential and adaptive designs poses interesting challenges. It is essential to control the type I error rate, or the familywise error rate when multiple hypotheses may be tested. Efficient trial designs should have good properties over a range of possible scenarios while meeting complex requirements on type I error and possibly on power too. I shall illustrate how frequentist and Bayes methods can be combined to find efficient solutions to clinical trial design problems. The talk will focus on early stopping through the use of group sequential tests and sample size modification and constructing efficient designs for seamless Phase 2-3 trials and adaptive enrichment trials.

Christopher Jennison, PhD

Dr. Jennison is Professor of Statistics at the University of Bath, UK. His PhD research at Cornell University concerned the sequential analysis of clinical trails and he has continued to work in this area for over 35 years. His book with Professor Bruce Turnbull, Group Sequential Methods with Applications to Clinical Trails, is a standard text on this topic and is widely used by practicing statisticians. More recently, he has written with a variety of co-authors on adaptive trial design and over-arching optimization of the drug development process.

Professor Jennison's research is informed by experience of clinical trial analysis at the Dana Farber Cancer Institute, Boston, and a broad rang of consultancy with pharmaceutical companies.

Location: WebEx | https://mcw.webex.com/mcw/j.php?MTID=m07d128ac62d9dddcef39bf424dca69cb
Please contact Chelsea Rowley for additional event information at Crowley@mcw.edu.

Learn more about Professor Jennison and access his publications by using the QR Code or by visiting his website: https://people.bath.ac.uk/mascj/

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