大阪医学統計学セミナー第106回

Osaka Biostatistics Seminar

4月30日（木）
15：00～17：00

「Real-Time Prediction in Clinical Trials: A Statistical History of REMATCH」

Speaker：Daniel Heitjan

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OSAKA UNIVERSITY

場所：
医学系研究科基礎研究棟L階
医学統計学研究室
オンライン併用開催

参加ご希望の方は、前日までに
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Randomized clinical trial designs often incorporate one or more planned interim analyses. In event-based trials, one may prefer to schedule the interim analyses at the times of occurrence of specified landmark events, such as the 100th event, the 200th event, and so on. Because an interim analysis can impose a considerable logistical burden, and the timing of the triggering event in this kind of study is itself a random variable, it is natural to seek to predict the times of future landmark events as accurately as possible.

Early approaches to prediction used data only from previous trials, which can mislead when, as commonly occurs, enrollment and event rates differ unpredictably across studies. With contemporary clinical trial management systems, one can populate trial databases essentially instantaneously. This makes it possible to create predictions from the trial data itself — predictions that are likely to be reliable and well calibrated statistically.

This talk describes work that some colleagues and I have done on real-time prediction in clinical trials. I set the methodologic development in the context of the study that motivated our research: REMATCH, a randomized trial of a heart assist device that is considered a landmark of rigor in the device industry.

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