ADVANCED METHODOLOGIES FOR CLINICAL TRIAL

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In evidence based medicine, randomized clinical trials (RCT) is considered as the most scientifically rigorous method of hypothesis testing. RCT is the gold standard trial for evaluating the effectiveness of interventions.

This course provides a comprehensive review of various designs of RCT ranging from traditional designs to the state-of-the-art adaptive designs (ADs), including both frequentist and Bayesian statistical approaches.

The more advanced part of the course is devoted to adaptive designs, a novel approach to improving the efficiency and flexibility of clinical trials. The practical aspects and interactions with the regulators are also included.

A strong emphasis is placed on learning how to use the R package to implement such methodologies in practice, through the analysis of case studies from presenters experience across the whole development space from early development through to late phase confirmatory studies.