

Kolloquium „Statistische Methoden in der empirischen Forschung“

Wann: 28 November 2023, 17:00 – 18:30 Uhr

Wo: [Campus Charité Mitte | Hörsaal der Nervenlinik | Bonhoefferweg. 3, 10117 Berlin](#)

Online-Übertragung: der Link wird auf der [Website](#) zur Verfügung gestellt

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Statistical issues in platform trials for the evaluation of multiple treatments

Adaptive platform trials provide a framework to simultaneously study multiple treatments in a disease. They are multi-arm trials in which interventions can enter as they become available and leave for futility or efficacy based on interim analyses or a final analysis. The attractiveness of platform trials compared to separate parallel-group trials is not only due to operational aspects as a shared trial infrastructure and more efficient patient recruitment, but also results from the possibility to share control groups, to efficiently identify non-efficacious treatments, and to allow direct comparisons between experimental treatment arms. However, the flexibility of the framework comes with challenges for statistical inference and the interpretation of trial results. The main challenges concern the adaptivity of platform trials (as decisions on adding or dropping arms cannot be fully pre-specified and may have an impact on current trial arms), multiplicity issues (due to multiple interventions, subgroups and interim analyses) and the use of shared controls (concurrent or non-concurrent controls, blinding for interventions that have different routes of administration, change in the standard of care). We will provide an overview of statistical approaches that have recently been proposed to address these issues.