

Kolloquium „Statistische Methoden in der empirischen Forschung“

Wann: 18. Februar 2020, 17:00 – 18:30 Uhr

Wo: Robert Koch-Institut | Nordufer 20 | 13353 Berlin (Wedding),
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Beyond intention-to-treat: Randomized trials analyzed like observational studies

The primary analysis of most randomized trials estimates the intention-to-treat effect, that is, the effect of being assigned to the treatment strategies of interest. However, in many randomized trials, patients and doctors are more interested in the per-protocol effect, that is, the effect of following the assigned treatment strategies as indicated in the protocol during the follow-up period. Valid estimation of the per-protocol effect generally requires adjustment for pre- and post-randomization prognostic factors associated with adherence and loss to follow-up. This talk describes the relative advantages and disadvantages of intention-to-treat and per-protocol effects, and reviews several case studies in cardiovascular disease, infectious disease, and cancer.