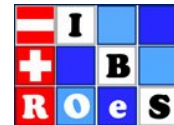


Einladung zum Biometrischen Kolloquium

Wiener Biometrische Sektion
der Internationalen Biometrischen Gesellschaft
Region Österreich – Schweiz



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TARGET ESTIMANDS IN LONGITUDINAL STUDY WITH FOLLOW-UP TRUNCATED BY DEATH AND DROPOUT

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Abstract:

Target estimands in longitudinal study with follow-up truncated by death and dropout

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The objective of this work is to clarify target estimands of different methods used for studying factors associated with change over time of longitudinal marker when the follow-up may be truncated by death and dropout. We compare mixed models and joint models for longitudinal marker and time-to-death estimated by maximum likelihood with marginal models estimated either by standard Generalized Estimating Equations with independent correlation structure (IEE) or by weighted IEE (WIEE). Under some hypotheses regarding death and dropout processes, we demonstrate that mixed models or joint models may be used to estimate factors' effects on individual change among subjects alive while WIEE may be used to estimate population averaged effect among subjects alive when weights are correctly specified as the inverse probability of observation given alive.

Wiener Biometrische Sektion
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