The additive hazard model for informatively interval-censored failure time data

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Abstract

Interval-censored failure time data often arise in clinical trials and medical follow-up studies and a few methods have been proposed for their regression analysis using various regression models (Finkelstein (1986); Huang (1996); Lin, Oakes and Ying (1998); Sun (2006)). This talk will discuss regression analysis of such data with the additive hazards model. An estimating equation-based approach will be presented and it is robust and applies to both noninformative and informative censoring cases. A major advantage of the proposed method is that it does not involve estimation of any baseline hazard function. The implementation of the proposed approach is easy and fast. An illustrated real-life example will be discussed.