

Analyzing Recurrent Longitudinal Data with Complication of Informative Censoring

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Abstract: Longitudinal data are usually defined as repeated measurement data where sampling points are independent of the measurements. This talk considers analysis of repeated measurement data in the situation that sampling points are possibly recurrent events, and repeated measurements are possibly correlated with recurrent events. The outcome measures of interest include both the recurrent events and the repeated measurements measured at times of events. Suppose the observation of repeated measurements is terminated either by censoring or occurrence of a failure event, whichever occurs first. A mean function (MF) at t is defined as the expectation of the total measurements in unit time at t . This talk will introduce nonparametric and semiparametric models for the described data, and develop statistical methods for estimating the cumulative MF and parameters in a MF regression model. Estimation of other related functions will be briefly discussed.

References

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