

Nonparametric Tests for Event History Data

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Abstract

This talk will discuss a special type of event history data which arise when a recurrent event is under investigation and in which each study subject is observed only at discrete time points. In this situation, observed data include only the numbers of occurrences of the event of interest between observation time points and no information is available on subjects between their observation time points. Such data are often referred to as panel count data. The fields that produce this type of data include, for example, medical follow-up studies, reliability studies and social science. If exact occurrence times of the event are known, statistical inference has been discussed by many authors. For the analysis of panel count data, there are relatively few methods available in the literature. In this talk, we will consider the treatment comparison problem and present some nonparametric tests. An example from a medical follow-up study will be discussed.