Nonparametric Risk Assessment in Tumorgenicity Experiments

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Abstract

In tumorgenicity experiments, one variable of interest is time to tumor onset. However, it is usually unobservable and instead, only current status data are available with dependent censoring. In the case that one is also interested in estimating death risk, this becomes a competing risk problem. The same problem also occurs in many other fields such as estimating long-term effects of some cancer treatments based on cross-sectional survey data. In this talk, we present a nonparametric estimation procedure for the problem. The method makes use of coupla models and is evaluated by simulation studies.

Keywords: Coupla models; Current status data; Tumorgenicity experiments.

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