

**Modification of the Greenwood Formula for
Correlated Response Times**

by

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ABSTRACT

Survival data consisting of independent groups of correlated response times are considered. We restrict our attention to situations where response times within groups are not distinguishable, and the marginal survival distributions are the same for all individuals within any group. Life-table methodology for interval censored survival times is used to estimate marginal survival probabilities. A modification of the Greenwood formula is derived for estimating variances and covariances of the estimates of the marginal survival probabilities.