

Barlow, William E.

General relative risk models in stratified epidemiologic studies. (English) Zbl 0584.62180
J. R. Stat. Soc., Ser. C 34, 246-257 (1985).

Multiplicative, additive, and exponential additive models of the relative risk in stratified epidemiologic studies are considered. Parameter estimates of the additive model are shown to have poor statistical properties and an alternative is suggested. This model is generalized to allow each predictor in the model to have either a multiplicative or additive effect on the relative risk.

Two examples are presented. One is a standard matched case-control design and the second is a large prospective study analysed as a synthetic retrospective study. All models may be fitted by making slight changes in existing software.

MSC:

62P10 Applications of statistics to biology and medical sciences; meta analysis Cited in 1 Document

Keywords:

Cox regression; multiplicative models; exponential additive models; relative risk; stratified epidemiologic studies; Parameter estimates; matched case-control design; large prospective study; synthetic retrospective study

Full Text: [DOI](#)