

A model in which the combined effect of two or more factors is the product of the isolated effects of each factor.

**Note:** For example, if a factor X multiplies a risk by  $a$  in the absence of Y, and if a second factor Y multiplies the risk by  $b$  in the absence of X, the combined effect of the two factors will be  $a \times b$ .

(Related concept: [additive model](#))