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Section:

12. Probability and Statistics

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Statistical analysis of seasonality in multiple groups

This work is concerned largely with the statistical analysis of seasonal variation in epidemiological data, which usually have small sample size or small amplitude, or both. Against such data, standard statistical procedures often have inadequate power.
Two statistical procedures are presented and discussed. One is a test for seasonality that can detect simultaneously different kinds of seasonal variation in different groups. The other is a test for homogeneity of seasonal patterns of the same kind among different groups. The procedures are illustrated with examples.