Disease Mapping with WinBUGS and MLwiN (Statistics in Practice)

Andrew B. Lawson, William J. Browne, Carmen L. Vidal Rodeiro

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Disease mapping involves the analysis of geo-referenced disease incidence data and has many applications, for example within resource allocation, cluster alarm analysis, and ecological studies. There is a real need amongst public health workers for simpler and more efficient tools for the analysis of geo-referenced disease incidence data. Bayesian and multilevel methods provide the required efficiency, and with the emergence of software packages – such as WinBUGS and MLwiN – are now easy to implement in practice.

- Provides an introduction to Bayesian and multilevel modelling in disease mapping.
- Adopts a practical approach, with many detailed worked examples.
- Includes introductory material on WinBUGS and MLwiN.
- Discusses three applications in detail – relative risk estimation, focused clustering, and ecological analysis.
- Suitable for public health workers and epidemiologists with a sound statistical knowledge.
- Supported by a Website featuring data sets and WinBUGS and MLwiN programs.

Disease Mapping with WinBUGS and MLwiN provides a practical introduction to the use of software for disease mapping for researchers, practitioners and graduate students from statistics, public health and epidemiology who analyse disease incidence data.

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