**Aims**
The members of the Organizing Committee for the European Symposium on Medical Statistics had a clear objective in view. They aimed to provide expositions of some of the current developments in medical statistics in a form which would be readily comprehensible to non-statisticians working in epidemiology, clinical medicine and other health fields, and to statisticians who are unfamiliar with some of the recent advances in medical statistics. There was a good deal of emphasis in the programme on the opportunities for collaboration between statisticians and other scientists, and the restriction in the main to European activities, while somewhat arbitrary from a scientific point of view, had the effect of bringing together participants from neighbouring countries who perhaps hear less about each other’s work than might be expected. The present book bears many of the characteristics of the Symposium. It is not a textbook in medical statistics for readers with no previous introduction to the subject. Nor is it a vehicle for technical communications in statistical methodology directed towards the statistical experts. Rather it provides a survey of recently developed techniques, of work in progress and of ideas in the course of development, over a very wide area of medical applications (Foreword, page ix).

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**Contributors**
Foreword (P Armitage)
Preface (JF Bithell, R Coppi)
Chairmen and Organizers of sessions
Introductory Address to the Conference (AD Peruzy)
Acknowledgements

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- Geographical correlations between disease and environmental exposure (P Lazar)
- Matching and confounding in the design and analysis of epidemiological case-control studies (PG Smith, NE Day)
- Mathematical models for infectious diseases – evaluation of measures for prevention and control (K Dietz)

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Authors
The editors are JF Bithell (Department of Biomathematics and St Peter’s College, University of Oxford, UK) and R Coppi (Istituto di Statistica, Città Universitaria, Roma, Italy); the Foreword is by Professor Peter Armitage (Department of Biomathematics, University of Oxford, UK), and the Introductory Address was given by Professor AD Peruzy (Scuola di Perfezionamento in Statistica Sanitaria, University of Rome, Italy). The authors are NE Day (Biostatistics Programme, International Agency for Research on Cancer, Lyon, France); K Dietz (Institut für Medizinische Biometrie der Universität, Tübingen, Federal Republic of Germany); AS Härö (National Board of Health, Helsinki, Finland); MJR Healy (Department of Medical Statistics and Epidemiology, London School of Hygiene and Tropical Medicine, London, UK); EG Knox (Department of Social Medicine, University of Birmingham, Birmingham, UK); P Lazar (Unité de Recherches Epidémiologiques et Statistiques sur l’Environnement et la Santé, INSERM, Villejuif, France); PN Lee (Sutton, UJ); JP Nakache (Groupe de Recherches, INSERM U88, Méthodologie Informatique et Statistique en Médecine, Paris, France); SJ Pocock (Royal Free Hospital Medical School, London, UK); H Sancho-Garnier (Unité de Recherches Statistiques de l’INSERM et Institut Gustave Roussy, Service de Statistiques Médicales, Villejuif, France); AFM Smith (Department of Mathematics, University of Nottingham, Nottingham, UK); PG Smith (Department of Medical Statistics and Epidemiology, London School of Hygiene and Tropical Medicine, London, UK); DJ Spiegelhalter (MRC Biostatistics Unit, Medical Research Council Centre, Cambridge, UK); I Sutherland (MRC Biostatistics Unit, Medical Research Council Centre, Cambridge, UK); KK Überla (Institut für Medizinische Informationsverarbeitung, München, Federal Republic of Germany); J Wahrendorf (International Agency for Research on Cancer, Biostatistics Programme, Lyon, France; and, JAC Weatherall (Office of Population Censuses and Surveys, Medical Statistics Division, London, UK).