

About the Tutors

Guy Sutton is Director of MBI and Honorary Lecturer in Neuroscience at University of Nottingham Medical School. His primary research interest is the interactive nature of biological, genetic, behavioural and biochemical factors in disease processes; in particular, how the brain can affect immunity increasing susceptibility to illness.

He has held academic appointments at Manchester, Manchester Metropolitan and Cambridge Universities, and has lectured in genetics, neuroscience, epidemiology and statistics to a wide range of undergraduate and postgraduate students. He has been a visiting researcher to universities in the United States and has conducted research projects and data analysis for various organisations, including the Department of Health and the Medical Research Council. In addition to presenting research at various international conferences and writing for academic publications, Dr. Sutton has talked about the theoretical and clinical aspects of his research on television and radio.

Rebecca Knibb is Senior Lecturer in Psychology and Joint Course Director of the MSc degree in Health Psychology at the University of Derby where she researches food allergy and intolerance.

She has held academic appointments at the Universities of Birmingham and Nottingham. At Birmingham she coordinated a study investigating public perceptions of food allergies and intolerance. At Nottingham, in the Division of Public Health, Dr Knibb co-ordinated a large project investigating the effect of using Hormone Replacement Therapy on myocardial infarction.

About MBI

MBI (Medical Biology Interactive) delivers one-day and half-day courses, seminars and tutorials in epidemiology, occupational health and the human sciences to the health service, industry and education. All MBI seminars are written and run by academics and health specialists, each of whom has considerable experience in research and its practical applications. Seminars are delivered at the hospital, workplace or school, based on cutting-edge research and current practice benchmarks, and tailored to the needs and concerns of the client.

Some of the courses and tutorials that MBI currently offers are listed in this pamphlet.

For further information and full programmes, please contact Dr. Guy Sutton; tel.07941 039670.
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MBI
MEDICAL
BIOLOGY
INTERACTIVE

PRESENTS

EPIDEMIOLOGY & STATISTICS IN CLINICAL PRACTICE



A Two-Day Seminar for Health Professionals

TUTORS:

Dr. Guy M. Sutton, Ph.D.

Dr. Rebecca Knibb, M.A., Ph.D.,
C. Psychol, AFBPSS

Seminars & Tutorials For The Health Service, Industry & Education

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WHY AN EPIDEMIOLOGY & STATISTICS SEMINAR?

Epidemiology is the study of the distributions and causes of disease in specified populations. Its scope encompasses acute and chronic illnesses including cancer and schizophrenia. Epidemiological principles and findings can be effectively used in the formulation of health policy and, increasingly, clinical practice. Epidemiologists develop and evaluate hypotheses about the effects of heredity, behaviour, environment, and health care factors on health, and develop the knowledge basis for disease prevention and control programmes.

This seminar is intended to provide an overview and introduction to the fundamentals of epidemiology for clinicians and health service workers involved in any aspect of public health. It has been designed for those with limited experience in epidemiology, who wish to become involved in the planning, implementation and analysis of quantitative and qualitative research studies, using appropriate research designs.

WHO WILL BENEFIT?

This seminar will be useful to:

- Any persons working within the NHS with an interest in research methodology and data analysis, and the application of research findings to clinical practice.
- Health service workers such as those listed below:

Clinicians
R&D personnel
General Managers
Purchasers
Scientific Advisors
Project Managers
Medical Directors
Strategic Planners

AIMS OF THE SEMINAR

There are three main aims to this tutorial:

- To provide a clear understanding of the terminology and techniques used in epidemiology.
- To examine the principles of epidemiology, including measurement issues and changing health, in clinical practice.
- To illustrate, through worked examples, the efficacy of different research methodologies and methods of statistical and qualitative analysis.

TOPICS TO BE COVERED

A variety of topics and issues relating to genetics will be covered. Some of these topics are listed below:

- **The role of epidemiology in influencing health:** Basic definitions; rates and standardisation; prevalence, incidence and mortality; epidemiology and clinical practice.
- **Routine sources of information:** The importance of case definitions, case ascertainment and data collection processes when interpreting morbidity and mortality data from HMSO, WHO or the NHS.
- **Identifying and measuring risk:** Comparing risk in different populations; exposure and outcomes; measures of risk; methodological considerations.
- **Changing health in populations - screening and population interventions:** Justifying screening procedures and criteria for screening, with clinical examples.
- **An introduction to health services research:** Available methodologies; health economics; measuring outcomes; target setting; quantitative and qualitative analysis.
- **From research to practice:** The NHS Research and Development strategy and knowledge based health services; evidence based medicine; critical appraisal; information systems and databases in the NHS.
- **Statistical analyses in clinical research:** An introduction to measures of central tendency and descriptive data; parametric and non-parametric statistics; multifactorial designs and statistics; correlation matrices and regression analyses; other applied statistics.

FORMAT

The seminar is presented at your NHS Trust. Format will be varied, with interactive, multimedia sessions, practical classes and group discussions.

Delegates will each receive a seminar pack containing:

- Reviews of the material presented in the seminar, complete with a bibliography and reference list.
- a glossary of terms.

M B I

OTHER

SEMINARS & TUTORIALS

FOR THE HEALTH SERVICES & INDUSTRY

MEDICAL GENETICS
(FOR GENERAL PRACTITIONERS)

METHODS IN
MOLECULAR BIOLOGY

HEALTH &
STRESS MANAGEMENT

BRAIN DAY FOR THE
HEALTH & EMERGENCY
SERVICES

FOR EDUCATION

BRAIN DAY
(FOR A2 LEVEL STUDENTS)

DNA DAY
(FOR A2 LEVEL STUDENTS)

STRESS DAY
(FOR A2 LEVEL STUDENTS)