Courses in medical statistics for Researchers, NHS staff and PhD students

Statistical issues in the design and analysis of research projects (one-week course). In this course, we introduce statistical concepts and describe appropriate statistical methods of analysis for the most commonly used study designs in biomedical health research. Topics include variability and types of data; populations, sampling and confidence intervals; hypothesis testing; overview of study design; regression, correlation and analysis of variance and multiple regression. The course includes a computer-based practical using SPSS. (Module code: FLHR621)

Dates: 16 to 20 November 2015 and 04 to 08 April 2016

Design and analysis of laboratory-based studies (one-day course). This course covers laboratory-based studies using single, replicate or repeated test samples, simple dose-response study. A practical using SPSS is included. (Module code: FLHR624)

Dates: 23 November 2015 and 11 April 2016

Introduction to logistic regression (one-day course). We introduce the concepts and statistical methods to model data with binary outcomes using SPSS. This course includes: uses and principles of logistic regression analysis, variable and model selection, goodness of fit, checking model assumptions, interpretation and presentation of results and developing a prognostic index. (Module code: FLHR626)

Dates: 24 November 2015 and 12 April 2016

Introduction to longitudinal data analysis (one-day course). This course explores the main statistical issues in the analysis of longitudinal data and the assumptions behind each method. A computer practical session will provide participants with the opportunity to undertake the analyses discussed. (Module code: FLHR627)

Dates: 25 November 2015 and 13 April 2016

Introduction to meta-analysis (one-day course). This workshop will introduce the basic principles of combining binary or continuous outcomes from randomised controlled trials using the statistical technique of meta-analysis. The practicalities involve such as extracting data and assessing quality will be explored in small group sessions. Investigating heterogeneity and the potential impact of publication bias will be discussed. (Module code: FLHR004)

Date: 26 November 2015

Survival analysis (one-day course). In this course, we discuss the main statistical issues in the design and analysis of studies where the main outcome is time to event. (Module code: FLHR653)

Date: 14 April 2016
Validity and reliability of diagnostic tests and other methods of measurement (one-day course). This course gives an introduction to the design and addresses statistical issues when determining the validity and reliability of a new diagnostic test (including psychological assessment tools). (Module code: FLHR652)

Date: 15 April 2016

Statistical Analysis of Genetic Association Studies (three-day course).
This course provides guidance on how to undertake the statistical analysis of a genetic association study, including genome-wide association studies. It provides an overview of the key statistical issues to be aware of when analysing genetic association studies, and an introduction to software for conducting the analyses. The course is structured to include a combination of short lectures and computer practicals to ensure that attendees gain hands-on experience of analysing genetic association datasets.

Date: 19th to 21st April 2016

All courses will be run at the University of Liverpool

Course Fees:
£225 - for the one-week course
£100 - for each of the one-day courses
£200 - for the three day course

PhD students from the Faculty of Health and Life Sciences at the University of Liverpool are exempt from fees and must register on the University Liverpool Life system, using the module codes provided above or the appropriate registration form for the individual course.

For more information on any of the above courses, please contact:
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