



Statistical issues in the design and analysis of research projects: a Health Data Science training course

Course overview

This three-day course will give delegates an excellent grounding in the basics of biomedical statistics, as well as provide a detailed introduction to other courses offered by the health data science team. It looks at the most commonly used study designs in biomedical health research, giving the background to the theory but also teaching participants how to apply their knowledge practically and interpret their results.

Who should attend? Is it right for me?

This course is aimed at anyone who requires a basic understanding of statistical techniques as part of their research studies.

What will delegates learn?

By the end of this course, delegates will:

- Have an appreciation of variability and types of data - populations, sampling and confidence intervals
- Have a basic understanding of the concepts behind multiple regression analysis, logistic regression and survival analysis
- Have an understanding of SPSS standard statistical software.

What does the course cover?

- Variability and types of data
- Populations, sampling and confidence intervals
- Hypothesis testing
- Overview of study design
- Regression and correlation
- Multiple linear regression and an introduction to logistic regression and survival analysis
- Data analysis using SPSS software.

To find out more

Contact Dr David Hughes (dmhughes@liverpool.ac.uk) in the Department of Health Data Science.

Alternatively, visit the department's website at: <https://www.liverpool.ac.uk/population-health/about/healthdatascience/coursesandworkshops/>