

Statistics for NHS Staff

This is a bespoke course for health care professionals who have a desire to enhance their knowledge of statistics and data analysis. A medical statistician with extensive experience in both the National Health Service (NHS), and academia will deliver it.

The course assumes no prior knowledge and covers the basic statistical concepts necessary to address medical research questions, interpret the results and make valid conclusions. By the end of the course, delegates will have developed a good understanding of the concepts, knowledge of when they are appropriate to use, and an ability to apply them using a statistical software package.

The following topics will be covered during the course:

- Introduction including the role of statistics in medical research, types of data, symmetric and skewed distributions, graphical and numerical summaries of data, the Normal distribution
- Correlation and Regression
- Hypothesis Testing: parametric and non-parametric tests including t-tests, Mann-Whitney tests, tests for categorical data, ANOVA and Kruskal-Wallis, including post hoc comparisons and Bonferroni corrections
- Power and sample size calculations

Delegates may choose to do the course using either Minitab or R Studio statistical software.

This course will be delivered by David Young, a lecturer in the Department of Mathematics and Statistics and a Consultant Statistician for the NHS. His background in applied statistics includes working in drug research and development for Sanofi Pharmaceuticals, post-doctoral research in mapping drug distribution in brain tissue and working as a statistician/data manager for a Clinical Trials Unit. He has delivered over 100 courses in Medical Statistics to NHS professionals, medical researchers and undergraduates.

Delivery: This module will be delivered online via the University of Strathclyde between 4th October 2021 and 26th November 2021.

Credit Value: 10 Credits (SCQF Level 7)

How to apply: To reserve a place, please register via the link below:

<http://pegasus.strath.ac.uk/forward/pgprofile/control/addPpio?ppioCode=257934&admCode=UPSKMS>. For more information on this course, please contact ma-nhs@strath.ac.uk

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