



## Introduction to Logistic Regression: a Health Data Science training course

### Course overview

This course examines the application of models to predict a binary response variable from categorical and continuous predictor variables. Participants will also learn to apply these methods using SPSS software, as well as find out how to interpret their results.

### Who should attend? Is it right for me?

This course is aimed at researchers within the Faculty of Health and Life Sciences. If participants do not already have a basic understanding of statistical techniques, we recommend they also register for the three day course on statistical issues in the design and analysis of research projects.

### What will delegates learn?

By the end of this course delegates will have an understanding of:

- Understand the concepts of analysing binary data
- Have an appreciation of interpreting the complexities of this data
- Learn the principles behind logistic regression
- Know how to carry out these procedures using SPSS.

### What does the course cover?

- Exploratory data analysis and how to describe your data
- The concepts of analysing binary data and interpreting odds ratios
- Model selection and interpretation of a logistic regression model
- Checking model assumptions
- Interpretation and presentation of results
- How to develop a prognostic index.

### To find out more

Contact Dr Girvan Burnside ([g.burnside@liverpool.ac.uk](mailto:g.burnside@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/>