



Introduction to Survival Analysis – a Health Data Science CPD module

Course overview

Time-to-event data are collected when individuals are followed over time. This course aims to provide grounding in statistical concepts and methods for the analysis of time-to-event data. Course participants will also gain an understanding of the design issues involved and learn to apply these methods using SPSS/R software, as well as find out how to interpret their results.

Course participants are requested to bring along a laptop or tablet so that they can take part in the SPSS practical.

Who should attend? Is it right for me?

This course is suitable for those who have no previous experience of data analysis, as well as those seeking to refresh their skills.

What will delegates learn?

By the end of this course delegates will:

- Be able to use various statistical methods to summarise and analyse time-to-event data
- Have an appreciation of how to analyse their data and interpret their results
- Have an understanding of how to use standard statistical software in this analysis

What does the course cover?

- Introduction to survival data including the concept of censoring
- Comparing survival between groups using Kaplan-Meier curves and log-rank tests
- Regression modelling and variable selection including the Cox model and other alternative models
- Design issues such as choice of endpoint and sample size calculations
- Introduction to software which can assist these processes

To find out more

Contact Dr Susanna Dodd in the Department of Health Data Science: s.r.dodd@liverpool.ac.uk. Alternatively, visit the department's website at <https://www.liverpool.ac.uk/population-health/about/healthdatascience/coursesandworkshops/>