



Introduction to meta-analysis: a Health Data Science training course

Course overview

This workshop will introduce the basic principles of combining binary or continuous outcomes from randomised controlled trials using the statistical technique of meta-analysis. Investigating heterogeneity and the potential impact of publication bias will be discussed. The practicalities involved such as extracting data and interpreting meta-analysis will be explored in small group sessions.

Who should attend? Is it right for me?

This one-day workshop is suitable for those who have no previous experience of meta-analysis, as well as those seeking to refresh their skills.

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:

- Have an appreciation of different treatment effect measures and methods of meta-analysis
- Have an understanding of the concepts of clinical and statistical heterogeneity
- Be aware of issues when extracting different types of data for meta-analysis
- Have an understanding of how to undertake and interpret meta-analysis

What does the course cover?

- Introduction to Meta-Analysis
- Meta-Analysis of Binary Data
- Meta-Analysis of Continuous Data
- Extracting data for meta-analysis
- Heterogeneity
- Interpreting meta-analysis
- Publication Bias & further issues

To find out more

Contact Dr Sarah Donegan in the Department of Health Data Science: donegan@liverpool.ac.uk. Alternatively, visit the department's website at:

<https://www.liverpool.ac.uk/population-health/about/healthdatascience/coursesandworkshops/>