



Introduction to Clinical Prediction Models: a Health Data Science training course

Course overview

Clinical prediction models combine multiple pieces of patient information in order to predict a clinical outcome. This full-day course includes lectures and practical sessions, and aims to give its delegates an introduction to the clinical reasoning and statistical methodology behind clinical prediction models.

Who should attend? Is it right for me?

This course is aimed at researchers who require a basic understanding of prediction modelling as part of their research studies. It is suitable for those who have no previous experience of prediction modelling, as well as those seeking to refresh their skills.

What will delegates learn?

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

- What a prediction model is
- How to develop a clinical prediction model
- How to validate a clinical prediction model
- How to present a clinical prediction model for a clinical audience

What does the course cover?

- Diagnostic & prognostic models
- Systematic reviews of prognostic factors & models
- Logistic regression & survival analysis for model development
- Discrimination & calibration statistics
- Internal & external validation
- Point score systems, nomograms & websites

To find out more

Contact Dr Laura Bonnett (L.J.Bonnett@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/>