

Prognostic Modelling Course

2026
9.00am – 3.00pm
Via Zoom

What is a prognostic model? A prognostic model is also known as prognostic (or prediction) index or rule, risk (or clinical) prediction model, and predictive model.

This course will allow you to have an understanding of what makes a good prognostic model. You will be learning about the design and statistical analysis of prognostic studies, the construction and estimation of prediction rules, the various approaches to validation, and the generalization of research results.

At the end of the seminar, participants should be able to:

- Understand how a prognostic model is developed
- Identify the good components of a prognostic model
- Evaluate the performance of a prognostic model

AGENDA

Time	Topic	Speaker
8.45 – 9.00am	<i>Registration</i>	
9.00 – 10.30am	Preparation for Establishing Clinical Prediction Models • Introduction to prognostic factors, models & risk • Choice of predictors • Defining outcome measures and choice of model Sample size and number of predictors	
10.30 – 10.45am	<i>Tea Break</i>	
10.45 – 12.15pm	Preparation for Establishing Clinical Prediction Models (con't) • Continuous predictors and linearity • Spline functions • Correlation between predictors • Handling missing values Polygenic risk score (PRS) and other omics models	
12.15 – 1.15pm	<i>Lunch</i>	
1.15 – 3.00pm	Developing the Model • Study design • Pre-selecting predictors and building the model • Univariate and stepwise regression analysis ◦ Linear, logistic and Cox regression • Assessing performance of the model • Study reporting Walkthrough: Developing the Model	

Note: Information is accurate at time of print. Agenda is subject to changes without prior notice.

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