Research workshop on Advanced Statistical Methods and Health Economics

Information and program outline

Time and Date: 5th and 6th December
Venue: Edward Ford Building, University of Sydney (Norman Gregg Lecture theatre and Computer Lab)
Outline

Biostatistics

The workshop will cover three areas: (I) Longitudinal data and practical aspects of modelling. (2) Missing data and (3) Prognostic models. Each topic will have a "hand on" exercise where we will explore the implementation of these techniques using Stata

Health Economics

The workshop will have four sessions providing an overview of economic evaluations, valuing costs and benefits, and interpretation of incremental cost effectiveness ratios. The final session will address the role of preferences and values. Each topic will include exercises related to CKD to demonstrate the key principles.

Who can attend?

The workshop is open to all health professionals working in the area of kidney disease – including nephrologists, nurses, dieticians, social workers, psychologists, physiotherapists and other disciplines - with a research interest in patients with kidney disease. It is also open to consumers with CKD (patients or caregivers), policy makers and industry.

The workshop will be **limited to 30 participants**. A confirmation will be sent to attendees.

Meeting objectives

The goals of the workshop are:

- To introduce the basic theoretical framework of the methodologies
- To recognise situations where these methods are useful
- To practice their implementation using statistical software

Outline of program

DAY 1:TUESDAY 5TH DECEMBER 2017	
8:30 am	Registration and coffee
9:15 am	**SESSION 1: Introduction to Health Economics-Part 1** **Alison Hayes**
	What are economic evaluations? **What costs? – it all depends on the perspective** **Discounting – why and how much?** Questions/Discussion
10:30 am	Morning tea
10:45 pm	**SESSION 2: Introduction to Health Economics-Part 2** **Kirsten Howard/Martin Howell**
	Types of benefits **Estimating utility and QALYS – approaches and limitations** **Group Exercise – Calculating QALYs, and ICERs and how to interpret** Questions/Discussion
12:30 pm	Lunch
1:15 pm	**SESSION 3:Practical Applications – Informing Practice and Policy** **Kirsten Howard**
	1. Clinical trials **2. Economic models** **2. Pharmaceutical Benefits Advisory Committee** Questions/Discussion
3:00 pm	Afternoon tea
3:15 pm	**SESSION 4: The Role of Preferences and Values** **Martin Howell**
	What are preferences and how can they be measured? **Whose preferences?** **Group discussion using a case study – e.g. deceased donor organs**
4.15 pm	**SUMMARY/FEEDBACK/FUTURE DIRECTIONS/QUESTIONS** Presenter
4:30 pm	**Close**

- The program is subject to change and will be updated as speaker/topics are confirmed

DAY 2: WEDNESDAY 6TH DECEMBER 2017	
Time	**Session**
9:00 am	**SESSION 1: Models for longitudinal data** **Chair: Patrick Kelly**
	Dependent data **Mixed models** **Generalised estimating equations (tbc)**
10:00 am	Morning tea
10:15 am	**SESSION 2: Practice session with computer (Models for longitudinal data)** **Chair: Patrick Kelly**
	Use of Stata to model longitudinal data
11:15 am	Break tea
11:30 pm	**SESSION 3: Handling missing data** **Chair: Katherine Lee**
	Missing data mechanisms **Imputation** **Chained equations**
12:30 pm	Lunch
1:45 pm	**SESSION 4: Practice session with computers (missing data)** **Chair: Katherine Lee**
	Use of Stata to handle missing data
2:45 pm	Break tea
3:00 pm	**SESSION 5: Prognostic models** **Chair: Armando Teixeira-Pinto**
	Classical variable selection methods **LASSO** **Model evaluation**
4:00 pm	**SESSION 6: Practice session with computers (Prognostic models)** **Chair: Armando Teixeira-Pinto**
	Use of Stata to build prognostic models
5.00 pm	**SUMMARY/FEEDBACK/FUTURE DIRECTIONS/QUESTIONS** Presenter
5:15 pm	**Close**