

University of Cape Town Biostatistics Course

to be held on 8-9 August 2010 at the BMW Pavilion, Cape Town, South Africa by the UCT Lung Infection and Immunity Unit

Delegates are encouraged to bring their laptops to work through practical examples

By the end of this symposium:

1. The student should be able to distinguish categorical and quantitative variables
2. The student should be able to organize, summarize and display data in a meaningful way
3. The student should understand different measures of centre and variability and understand how the measures can differ for different data shapes
4. The student should understand the meaning of statistical significance and be able select the appropriate statistical test
5. The student should be able to interpret a scatterplot and make statements about the direction and strength of the relationship
6. The student should understand basic principles of regression and its limitations

Day 1: Sunday 8th August 2010

Chair: Cathy Connolly

9h00	Introduction to Biomedical Statistics <i>Speaker:</i> Cathy Connolly
10h00	Parametric vs. Non-parametric data <i>Speaker:</i> Cathy Connolly
11h00	Tea
11h30	Significance testing including Agreement and correlation <i>Speaker:</i> Cathy Connolly
12h30	Regression Analysis in a nutshell (multivariable analysis) <i>Speaker:</i> Freedom Gumedze
13h30	Lunch
14h00	Study design <i>Speaker:</i> Jean Nachega
15h00	Sample size calculations <i>Speaker:</i> Jean Nachega
16h00	Systematic reviews and meta-analyses <i>Speaker:</i> Mark Engel
17h00	End

Day 2: Monday 9th August 2010

Biostatistics (Part II)

Chair: Richard van Zyl Smit, Cathy Connolly

9h00	Evaluating performance outcomes of diagnostic tests <i>Speaker:</i> Richard van Zyl Smit
10h00	Variability and reproducibility <i>Speaker:</i> Richard van Zyl Smit
11h00	Tea
11h30	Using Excel and Graphpad Prism for statistical analyses and data presentation (attendees are encouraged to download the trial version of Graphpad Prism from http://www.graphpad.com/demos/ beforehand) <i>Speaker:</i> Richard van Zyl Smit
12h15	Practical examples (ROC curves) and data spreadsheets <i>Speaker:</i> Richard van Zyl Smit
13h15	Lunch
14h00	Bias and confounding <i>Speaker:</i> Keertan Dheda
15h00	Data management aspects of clinical studies <i>Speaker:</i> Lesley Workman
16h00	Recap, data presentation and scenarios <i>Speaker:</i> Cathy Connolly
17h00	End

This course is supported by:

