

Modern Demographic Methods in Epidemiology with R

is hosted by Melbourne School of Population and Global Health, and takes place

Monday 23 November 2015, 8:45–18:00 in
room 302, level 3, 207 Bouvarie Street, Carlton, Melbourne.

The course is centered around practical calculations in R, illustrating the concepts through analysis of data. All sessions will be alternating between lectures and practicals, most followed by a walk-through of the computing issues.

Please note the details of the computing requirements on the course web-site, <http://bendixcarstensen.com/AdvCoh/Melb-2015/>, including download of datasets and programs for the practicals.

Monday 23 November 2015

08:45 – 09:00	Arrival & introduction
09:00 – 10:00	Brief introduction to R. Rates and survival. P: Computing rates, RRs and RDs (2.1, 2.2)
10:00 – 10:40	Representation of follow-up data. P: Lexis diagrams and Lexis objects (2.3).
10:40 – 11:00	Coffee
11:00 – 12:45	Kaplan-Meier, Cox and Lexis. P: Fitting a Cox model and a Poisson model and comparing (2.4).
12:45 – 13:30	Lunch
13:30 – 15:00	Estimating — and drawing — a smooth curve. Multiple time scales. P: Estimating a curved effect: Testis cancer in DK (2.5).
15:00 – 15:30	Afternoon Tea
15:30 – 17:30	Life expectancy and life lost to disease. Multistate models. P: Modeling rates and computing life lost (2.6). P: Lifetime risk of diabetes (to appear).
17:30 – 18:00	Summary of the day.

Instructors:

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Lyle Gurrin, Ass. Prof. of Biostatistics, MSPGH, Melbourne Australia