

Programme

The course is centered around practical calculations in R, illustrating the concepts in analysis of real datasets. All sessions will be alternating between lectures and practicals, most followed by a walk-through of the computing issues. There will be more informal breaks than those listed in the program.

The last part of the course is a combination of a practical and demonstration of a thorough analysis of prevalence, incidence and mortality of diabetes patients in Scotland. In principle, the course participants will at the end (on their own computer) have a complete analysis of the demography of diabetes in Scotland.

Please note the details of the computing requirements on the course web-site, <http://bendixcarstensen.com/AdvCoh/Scot-2014/>, including download of datasets and programs for the practicals.

Tuesday 26 August 2014

12:00 – 13:00	Lunch
13:00 – 15:00	Brief introduction to R. Introduction to rates and survival. Computing rates, RRs and RDs
15:00 – 15:30	Tea break
15:30 – 17:30	Kaplan-Meier, Cox and Lexis. Fitting a Cox model and a Poisson model for comparison.
17:30 – 18:00	Summary of the day.

Wednesday 27 August 2014

09:00 – 10:30	Representation of follow-up data. Who needs the Cox model anyway?
10:30 – 11:00	Coffee
11:00 – 12:30	Estimating — and drawing — a smooth curve. Multiple time scales.
12:30 – 13:30	Lunch
13:30 – 15:00	Mortality of Danish Diabetes patients.
15:00 – 15:30	Afternoon Tea
15:30 – 17:00	SMR and Poisson-modelling. SMR of Danish Diabetes patients.
17:00 – 18:00	Summary of the day.

Thursday 28 August 2014

09:00 – 10:30	Interactions, categorical and continuous.
10:30 – 11:00	Coffee
11:00 – 12:30	Competing risks and multistate models.
12:30 – 13:30	Lunch
13:30 – 15:00	Introducing Scottish diabetes data. Binomial regression for (Scottish) prevalence data.
15:00 – 15:30	Afternoon Tea
15:30 – 17:00	Scottish diabetes incidence data.
17:00 – 18:00	Summary of the day.

Friday 29 August 2014

09:00 – 10:30	Scottish diabetes mortality rates.
10:30 – 11:00	Coffee
11:00 – 12:45	Scottish diabetes SMR.
12:45 – 13:00	Evaluation, feedback, closing remarks and farewell.
