

Two-day course in Competing risks 26-27 September 2013

Karolinska Institutet

With support from the Strategic Research Program in Epidemiology (SFO Epi)

Course focus: Conceptual understanding of central topics for competing risks analyses.

Teachers/organizers:

Main teacher: Ronald Geskus, assistant professor, Academic Medical Center, Amsterdam (main research interests include competing risks and multi-state models, prediction of events based on time-updated marker values and causal inference. Dr Geskus has published statistical papers on the estimation of time from HIV infection to AIDS based on data with unknown time origin; models for the development of CD4 and HIV viral load after HIV infection; the analysis of competing risks with left truncated and right censored data. Dr Geskus has previously taught during a highly appreciated 4-day course at KI on the same topic)

Sandra Eloranta, biostatistician, dept of Medical Epidemiology and Biostatistics, KI

Therese Andersson, biostatistician, dept of Medical Epidemiology and Biostatistics, KI

Karin Ekström Smedby, epidemiologist, Unit of Clinical Epidemiology, Dept of Medicine Solna, KI

Schedule

Thursday 26th of September 9.30-17

Friday 27th of September 9.00-15.30

Course contents

- *Survival analyses - review of basic concepts* (concept of time scales, KM-curves, survival/hazard functions, censoring)
- *Competing risks* - Marginal and cause-specific distribution, censoring versus competing risks, informative versus non-informative censoring, reference to multinomial regression and multi-state models, estimation of cause-specific hazard and cause-specific cumulative incidence, estimation methods for competing risks
- *Examples:* research questions that require special methods for competing risks versus standard methods for survival analysis
- *Group discussions:* Critical review of scientific articles where competing risks methods have been applied

Local: Leksell salen, Eugeniahemmet T3:02, Karolinska Universitetssjukhuset Solna

Who can apply? Researchers at doctoral student or post-doc level in epidemiology or biostatistics.

Registered doctoral students will be prioritized based on registration date and previous epi/biostat courses together with motivation and relevancy for research area.

How to apply: Send an e-mail to SFO Epi coordinator Maria Berner Holmström

(maria.berner.holmstrom@ki.se) stating your full name, work title, work place, academic degree and research area. You also need to include a brief motivation (maximum four sentences) for why you would like to attend this course. If you are a PhD student, please supply date of PhD-registration, date of halftime seminar (if applicable), and if you have taken any courses in epidemiology and biostatistics previously at KI or elsewhere. Please note that this course does not give official course credits.

Application deadline: June 28 2013. More details about the course will be sent out to participants before course start.