Epi-on-the-Island
Survival Analysis
12-16 July 2015

Tentative Schedule

(Instructors: ID= Ian Dohoo; JS= Javier Sanchez; HS= Henrik Stryhn)

Day	Time	Lecture	Laboratory	Pages (VER2)	Pages (MER)
Sunday	8:30 – 9:30	(JS) Introduction to the course, (ID) Introduction to survival data		468-473	502-507
	10:00 – 11:15	(ID/HS) Life tables, Kaplan-Meier		473-480	507-514
	11:15 – 12:00	(JS/HS) Introduction to Stata/R survival analysis software			
	1:30 – 2:15		Life tables (#1)		
	2:15 – 3:15	(JS) Hazard functions; Survival time distributions		480-485	514-518
	3:45 – 5:00		Survival time distrib.		
	5:00 – 6:00	Assisting students with preparing their data sets			
Monday	8:30 – 10:00	(ID) Cox semi-parametric models		485-491	519-524
	10:30 – 12:00		Cox models (#2)		
	1:30 – 2:30	(ID) Time-dependent variables		491-494	524-527
	2:30 – 3:15		Time-dep. var. (#3)		
	3:45 – 4:30	(ID) Cox model diagnostics		492-503	527-536
	4:30 – 5:00		Diagnostics (#3)		
	5:00 - 6:00	Assisting students to get started on their analysis			
Tuesday	8:30 – 10:00	(JS) Parametric models		503-510	536-544
	10:30 – 12:00		Param. Models (#4)		
	1:30 – 2:30	(HS) Clustering and frailty models		510-518	545-552
	2:30 – 3:30		Frailty models (#5)		
	4:00 - 5:00	(HS) Additional topics in frailty models		NA	NA

Day	Time	Lecture	Laboratory	Pages (VER2)	Pages (MER)
	5:00 - 6:00	Students free to work on own data			
Wed	8:30 – 10:00	(HS) Discrete time survival analysis		518-523	552-557
	10:30 – 12:00		Discrete analysis (#6)		
	1:30 – 3:30	(ID) Advanced topics: • competing risk regression • flexible parametric distrib.		NA	NA
	4:00 – 5:00	Students free to work on own data			
	Evening	Course dinner			
Thu	8:30 – 10:00	Case studies / Further topics			
	10:30 – 12:00		Students work on their own data		
	1:30 – 3:00	Presentations by students			
	3:30 – 5:00	Presentations by students, Course wrap-up			

Course Information

Text:

The text for the course will be *Veterinary Epidemiologic Research* (2009), 2nd edition (http://www.upei.ca/ver), or alternatively *Methods in Epidemiologic Research* (2012). Course participants will be provided with the chapter of the (former) book that deals specifically with survival analysis.

Software

The primary software for the course will be Stata (version 13). Comprehensive supplementary material will be provided for R software, based on standard R libraries.