

Introduction to Survival Analysis

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For the Stata practicals, students will need to bring a laptop computer with Stata installed and the course materials saved. Electronic copies of the course materials (practical exercises, datasets, do-files and solutions as well as lecture slides) will be made available before the course. Only the exercises for practical five will be provided on paper. A pocket calculator and ruler might also be useful for practical 5.

Monday 3rd June 2019

11:00-13:00	<i>Arrival and lunch</i>
13:00-13:10	Welcome and Introduction
13:10-14:10	Lecture 1. Rates of disease
14:10-14:55	Lecture 2. Survival-time data in Stata; the <code>stset</code> command
14:55-15:15	<i>Coffee break</i>
15:15-16:00	Practical 2. Survival-time data in Stata; the <code>stset</code> command
16:00-17:00	Lecture 3. Stratified and regression analysis of rates

Tuesday 4th June 2019

09:00-10:00	Practical 3. Stratified and regression analysis of rates in Stata
10:00-11:00	Lecture 4. Variables that change with time
11:00-11:30	<i>Coffee break</i>
11:30-12:00	Practical 4. Splitting follow-up time in Stata (continues after lunch)
12:00-13:00	<i>Lunch break</i>
13:00-13:15	Practical 4 (continued)
13:15-14:00	Lecture 5. Life tables and Kaplan-Meier plots
14:00-14:50	Practical 5. Life tables and Kaplan-Meier plots
14:50-15:10	<i>Coffee break</i>
15:10-16:00	Lecture 6. Log rank tests and Cox regression

Wednesday 5th June 2019

09:00-10:00	Practical 6. Log rank tests and Cox regression in Stata
10:00-10:30	<i>Coffee break</i>
10:30-11:30	Lecture 7. Parametric survival analysis
11:30-12:00	Practical 7. Parametric survival analysis in Stata (continues after lunch)
12:00-13:00	<i>Lunch break</i>
13:00-13:15	Practical 7 (continued)
13:15-14:00	Lecture 8. Non-proportional hazards
14:00-14:30	Practical 8. Non-proportional hazards in Stata (continues after break)
14:30-15:00	<i>Coffee break</i>
15:00-15:30	Practical 8 (continued)
15:30-16:00	Lecture 9. Simulation of survival-time data

Thursday 6th June 2019

09:00-09:45	Practical 9. Simulation of survival-time data in Stata
09:45-10:30	Lecture 10. Data management and choice of methods
10:30-11:00	<i>Coffee break</i>
11:00-12:00	Q&A revision session
12:00-13:00	<i>Lunch and departure</i>