



**Advanced Course on Epidemiological Analysis
September 2022**

Timetable

Pre-course material

Please note this will take ~6 hours prior to the first session

ACEA Lecture 0a: Parts 1-3

Revision of key concepts: Measures of disease & effect: Helen Weiss

Total viewing time: 48 minutes

ACEA Lecture 0b: Parts 1-2

Case control studies: logic, analysis and interpretation: Richard Hayes

Total viewing time: 58 minutes

Computer practical P0a: Stata revision

ACEA Lecture 0c: Parts 1-2

Likelihood

Total viewing time: 1hr 45 minutes

Computer practical P0b: Likelihood

Please note that this material is conceptually more complex, and we do not expect you to fully understand it – but it provides useful background to sessions on logistic regression.

Week 1: Logistic regression analysis using Stata

Date	Session	Duration	Time (BST)	Title
5 th Sep	Recorded (V1)	1h		Logistic regression I Helen Weiss
	Live	30 mins	11.30-12	Introduction Helen Weiss & Clare Gilham
	Live (L1)	30 mins	12-12.30	Logistic regression I lecture Q&A Helen Weiss
	Live (P1)	2 hours	1-3	Logistic regression practical
6 th Sep	Recorded (V2)	45 mins		Logistic regression II Nuredin Mohammed
	Live (L2)	30 mins	12-12.30	Logistic regression II Q&A Nuredin Mohammed
	Live (P2)	2 hours	1-3	Logistic regression II practical
7 th Sep	Recorded (V3)	1h		Logistic regression III Helen Weiss
	Live (R2)	30 mins	11.30-12	Logistic regression III Q&A Helen Weiss
	Live (L3)	30 mins	12-12.30	Logistic regression recap Helen Weiss
	Live (P3)	2 hours	1-3	Logistic regression III practical
8 th Sep	Recorded (V4a)	50 mins		Matching in case-control studies Simon Cousens
	Recorded (V4b)	1h		Analysis of case-control studies Richard Hayes
	Live (L4)	30 mins	12-12.30	Matching in case-control Q&A
	Live (P4)	2 hours	1-3	Logistic regression IV practical
9 th Sep	Recorded (V5)	2hr		Strategies of analysis I & II Neil Pearce
	Live (L5)	30 mins	12-12.30	Strategies of analysis Q& A Neil Pearce (& BL)
	Live (P5)	2hr	1-3	Strategies practical
	Live	1h	3-4	Week 1 summary session

Week 2: Analysis of longitudinal epidemiological studies using Stata

Day	Session	Duration	Time (BST)	Title
12 th Sep	Recorded (V6a)	30 mins		Crude and stratified rate ratios Andrew Abaasa
	Recorded (V6b)	50 mins		Stratifying on time for cohort studies Tim Clayton
	Live (L6)	30 mins	12-12.30	Rate ratio & stratified lecture Q& A Andrew Abaasa & Tim Clayton
	Live (P6)	2h	1-3	Rate ratio & stratified analysis practical
13 th Sep	Recorded (V7)	50 mins		Poisson analysis for cohort studies Tim Clayton
	Live (L7)	30 mins	12-12.30	Poisson analysis lecture Q& A Tim Clayton
	Live (P7)	2h	1-3	Poisson analysis practical
14 th Sep	Recorded (V8a)	40 mins		Cox regression for cohort studies Tim Clayton
	Recorded (V8b)	50 mins		Further issues in the analysis of cohort studies Tim Clayton
	Live (R7)	30 mins	11.30-12	Cox regression lecture Q&A Tim Clayton
	Live (L8)	30 mins	12-12.30	Cohort studies recap Q&A Clare Gilham
	Live (P8)	2h	1-3	Cox regression practical
15 th Sep	Recorded (V9)	70 mins		Analysis of correlated data Simon Cousens
	Live (L9)	30 mins	12-12.30	Correlated data lecture Q&A
	Live (P9)	2h	1-3	Correlated data practical
16 th Sep	Recorded (V10)	65 mins		Causal diagrams in Epidemiology Stijn Vansteelandt
	Live (L10)	30 mins	12-12.30	Causal diagrams lecture Q& A Stijn Vansteelandt
	Live (P10)	1h15	1-2.15	Causal diagrams practical
	Live	1h	2.30-3.30	Final wrap-up session HW &CG