

Course Timetable

All course content can be found on the course page on Moodle. Please see your welcome email for details on how to access Moodle. Pre-recorded videos will be made available on Moodle before each session. You may watch these pre-recorded videos either during the allotted time or when it suits your schedule. Note that all live sessions will be conducted using Zoom, and all practicals will be small group exercises in Zoom breakout rooms. **All times reported in British Summer Time (BST) are tentative and may change.**

Day	Topic	Time	Type	Title	
Mon	Study design	930-1045	Pre-recorded lecture	0.1 Welcome to the course	
			Pre-recorded lecture	1.1 Impactful pharmacoepidemiology studies from history	
			Pre-recorded lecture	1.2 Overview of study designs	
			Pre-recorded lecture	1.3 Measurements in pharmacoepidemiology	
		1045-1115	Live introductions	Welcome / Introduce P1 Planning a study	
		1115-1130	Break		
		1130-1215	Computer practical	CP1 Introduction to Stata and Code Browser	
		1215-1245	Break		
		Real-world data sources	1245-1345	Pre-recorded lecture	2.1 Overview of large healthcare databases
				Pre-recorded lecture	2.2 Use of registries in pharmacoepidemiology
			1345-1445	Computer practical	CP1 (cont'd) Sample size and power calculations
			1445-1500	Break	
			1500-1530	Live Q&A	Q&A on pre-recorded lectures (on AM and PM lectures)
			1530-1630	Social event	(Optional)
Tues	Confounding	930-1100	Pre-recorded lecture	3.1 Sources of error in pharmacoepidemiological studies	
			Pre-recorded lecture	3.2 Methods of dealing with confounding	
			Pre-recorded lecture	3.3 Introduction to causal language and directed acyclic graphs	
		1100-1130	Live Q&A	Q&A on pre-recorded lectures	
		1130-1145	Break		
		1145-1245	Practical	P2 Thinking through causal relationships	
		1245-1315	Break		
		Data-enabled trials	1315-1400	Pre-recorded lecture	4.1 Data-enabled trials
			1400-1430	Live Q&A	Q&A on pre-recorded lectures
			1430-1445	Break	
1445-1630	Computer practical		CP2 Dealing with confounding: model building		
Wed	Bias	930-1015	Pre-recorded lecture	5.1 Biases in pharmacoepidemiology	
		1015-1045	Live Q&A	Q&A on pre-recorded lectures	
		1045-1100	Break		
		1100-1245	Computer practical	CP3 Misclassification and selection bias	
		1245-1315	Break		
	COVID-19	1315-1415	Pre-recorded lecture	6.1 Introduction to COVID-19 pharmacoepidemiology	
			Pre-recorded lecture	6.2 Interpreting a COVID-19 cohort study	
			Pre-recorded lecture	6.3 Identifying and preventing scientific fraud	
			Pre-recorded lecture	6.4 What is hydroxychloroquine?	
			Pre-recorded lecture	6.5 The hydroxychloroquine story	

Real-World Evidence in Pharmacoepidemiology

25-29 October 2021

		1415-1445	Live Q&A	Q&A on pre-recorded lectures	
		1445-1500	Break		
		1500-1630	Practical	P3 Critique published study of hydroxychloroquine	
Thurs	Missing data	930-1030	Pre-recorded lecture	7.1 Dealing with missing data	
		1030-1100	Live Q&A	Q&A on pre-recorded lectures	
		1100-1115	Break		
		1115-1245	Computer practical	CP4 Dealing with missing data	
		1245-1315	Break		
	Propensity scores & meta-analysis	1315-1445	Pre-recorded lecture	8.1 Propensity scores, including high-dimensional propensity scores	
			Pre-recorded lecture	8.2 Propensity score example in COVID-19	
			Pre-recorded lecture	8.3 Meta-analysis	
			1445-1515	Live Q&A	Q&A on pre-recorded lectures
			1515-1530	Break	
			1530-1630	Group work	P1 (cont'd) Planning a study (small group preparation)
Fri		Hot topics	930-1030	Pre-recorded lecture	9.1 Vaccines and confounding
			Pre-recorded lecture	9.2 Near real-time vaccine safety surveillance	
			Pre-recorded lecture	9.3 Target/replicate trials	
			Pre-recorded lecture	9.4 Pharmacoepidemiology in the digital era	
		1030-1100	Live Q&A	Q&A on pre-recorded lectures	
		1100-1115	Break		
		1115-1245	Practical	P4 Critique published studies with discordant results	
		1245-1315	Break		
	Presentations and wrap-up	1315-1345	Group work	P1 (cont'd) Planning a study (small group preparation)	
			1345-1400	Break	
			1400-1500	Group work	P1 (cont'd) Planning a study (small group presentation)
			1500-1600	Wrap-up	Social event, open Q&A

A feedback form will be circulated following the conclusion of the course; this needs to be completed before we can issue a certificate of attendance.