

## Course Timetable

All course content can be found on the Moodle page, please contact [anne-marie.sue-patt@lshtm.ac.uk](mailto:anne-marie.sue-patt@lshtm.ac.uk) in case you have trouble accessing it. Pre-recorded videos will be made available approximately one week before each session, feel free to watch these either during the allotted time or when it suits your schedule. Details of the content covered within each session can be found below the timetable.

	<b>Morning</b> 09:30-10:30 Prewatching 10:30-11:00 Q&A 11:-11:15 Break 11:15-13:00 Interactive session (break 12:15-12:30)	<b>Contact Tutor*</b>	<b>Afternoon</b> 13:30-14:30 Prewatching 14:30-15:00 Q&A 15:00-15:15 Break 15:15-17:00 Interactive session (break 16:15-16:30)	<b>Contact Tutor*</b>
Monday 22nd of March	<b>Introduction to Pharmacoepidemiology and Study Designs</b>	Rohini Mathur	<b>Principles of Bias and Confounding</b>	Laurie Tomlinson
Tuesday 23rd of March	<b>Clinical Trials, Interpretation of Measures of Effect, Confidence Intervals and P-values</b>	Anna Schultze	<b>Cohort Studies</b>	Christopher Rentsch
Wednesday 24th of March	<b>Case-control studies</b>	Angel Wong	<b>Alternative Study Designs (cross-sectional, ecological and self-controlled studies)</b>	Kevin Wing
Thursday 25th of March	<b>Morning</b> 9:30 - 10:30 Pre-watching 10:30 - 11.00 Break (deadline for questions to panel, 10:40) 11:00 - 12:00: Vaccine Panel Discussion 12:00 - 12:15 Break 12:15- 13:00 Vaccine Study Design Exercise		<b>Afternoon</b> 14:00 - 15:00 Vaccine Study Design Group Presentations 15:00 - 15:15 Break 15:15 - 15:45 Pre-watching time 15:45 - 16:15 Q&A 16:15 - 17:00 Closing session followed by networking	
	<b>COVID-19 Vaccines</b>	Helen McDonald	<b>Evaluating and Improving Pharmacoepidemiological Research</b>	Anna Schultze

*\*the easiest way to contact a specific tutor is via the forums in moodle, however, emails are also provided on the moodle page*

## Pharmacoepidemiology in the era of COVID-19

March 22 - 25, 2021

### Session Content

All content can be found on the dedicated Moodle page. Note that all practicals will be small group exercises in Zoom breakout rooms.

Moodle Page: [placeholder]

Q&A Zoom Link: [placeholder]

Practical Group A Zoom Link: [placeholder]

Practical Group B Zoom Link: [placeholder]

Day	Time	Topic	Pre-recorded Content and Practical
Monday 22nd of March	AM	Introduction to Pharmacoepidemiology and Study Designs	Pre-recorded Content: <ol style="list-style-type: none"><li>1. Introduction to Pharmacoepidemiology (Ian Douglas, LSHTM)</li><li>2. Pharmacoepidemiology during COVID-19 (Stephen Evans, LSHTM)</li><li>3. Introduction to Study Designs (Rohini Mathur, LSHTM)</li></ol> Practical: Identifying study designs using published COVID-19 studies
	PM	Principles of bias and confounding	Pre-recorded Content: <ol style="list-style-type: none"><li>1. Introduction to Bias (Laurie Tomlinson, LSHTM)</li><li>2. Introduction to Confounding (Laurie Tomlinson, LSHTM)</li></ol> Practical: Identifying confounding and bias in published COVID-19 studies
Tuesday 23rd of March	AM	Clinical Trials, Interpretation of Measures of Effect, Confidence Intervals and P-values	Pre-recorded Content: <ol style="list-style-type: none"><li>1. Interpreting Measures of Effect (Anna Schultze, LSHTM)</li><li>2. Interpreting Confidence Intervals and P-values (Anna Schultze, LSHTM)</li></ol>

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			<ol style="list-style-type: none"> <li>3. Introduction to Clinical Trials (Anna Schultze, LSHTM)</li> <li>4. The RECOVERY Clinical Trial (Richard Haynes, University of Oxford)</li> </ol> <p>Practical: RECOVERY (dexamethasone) guided paper critique</p>
	PM	Cohort Studies	<p>Pre-recorded Content:</p> <ol style="list-style-type: none"> <li>1. What is cohort study? (Christopher Rentsch, LSHTM)</li> <li>2. Interpreting a cohort study (Christopher Rentsch, LSHTM)</li> <li>3. Open data platforms: Observational Health Data Sciences and Informatics (OHDSI) (Daniel Morales, University of Oxford)</li> <li>4. What is hydroxychloroquine and how is it used in practice? (William Dixon, University of Manchester)</li> <li>5. The hydroxychloroquine story: past, present, and future (Christopher Rentsch, LSHTM)</li> </ol> <p>Practical: Hydroxychloroquine guided paper critique</p>
Wednesday 24th of March	AM	Case-control studies	<p>Pre-recorded Content:</p> <ol style="list-style-type: none"> <li>1. Introduction to case-control studies (Angel Wong, LSHTM)</li> </ol> <p>Practical: Case-control study design exercise</p>
	PM	Alternative Study Designs (cross-sectional, ecological and self-controlled studies)	<p>Pre-recorded Content:</p> <ol style="list-style-type: none"> <li>1. Introduction to self-controlled designs (Ian Douglas, LSHTM)</li> <li>2. Hypothesis-generating designs (cross-sectional, ecological, and case series) (Kevin Wing, LSHTM)</li> </ol> <p>Practical: Hypothesis generating designs guided paper critique</p>

## Pharmacoepidemiology in the era of COVID-19

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Thursday 25th of March	AM	COVID-19 Vaccines	<p>Pre-recorded Content:</p> <ol style="list-style-type: none"><li>1. An introduction to COVID-19 vaccine studies (Helen McDonald, LSHTM)</li><li>2. Interpreting COVID-19 vaccine trials (Stephen Evans, LSHTM)</li><li>3. COVID vaccine safety - challenges of post-licensing pharmacovigilance (Ian Douglas, LSHTM)</li></ol> <p>Pre-session reading and task: Panel biographies and submit questions online</p> <p>Practical: Vaccine Study Design Exercise</p>
	PM	Evaluating Research and Open Science	<p>Pre-recorded Content:</p> <ol style="list-style-type: none"><li>1. Evaluating pharmacoepidemiological studies - views from a reviewer (Krishnan Bhaskaran, LSHTM)</li><li>3. How Open Science can Improve COVID-19 research (Clemence Leyrat, LSHTM)</li></ol> <p>Practical: No practical during the final session; the Q&amp;A will occur later due to the vaccine design exercise and will be an opportunity for students to discuss the pre-watching content with the tutors and ask outstanding questions.</p> <p>A feedback form will be circulated following the conclusion of the course; this needs to be filled out before we can issue a certificate of attendance.</p>