Improving Health Worldwide

Real-World Evidence in Pharmacoepidemiology



LONDON SCHOOL of HYGIENE &TROPICAL MEDICINE

Online Short Course

Overview

There is unprecedented interest in estimating the safety and effectiveness of medicines. The widespread and near-realtime availability of real-world data (RWD) offers opportunities to quickly generate real-world evidence (RWE) to address these needs.

Aims & objectives

The aim of this course is to equip students with the understanding and techniques to generate RWE on safety and effectiveness of medicines and overcome common sources of error, with practical applications using electronic health record data.

During this online course students will:

- Develop their knowledge of concepts, study designs, and methods in pharmacoepidemiology
- Apply statistical techniques to generate real-world evidence using electronic health record data
- Understand biases and other sources of error that can occur in studies using real-world data, and identify and apply strategies to avoid them

Entry requirements

Applicants will normally have a science, biomedical or biostatistical background, hold a second class honours degree of a UK university (or equivalent) in a science, medical, statistical or related subject and will have some postgraduate experience in the area of pharamacoepidemiology. Some statistical programming experience is strongly encouraged.

Applicants should have a good command of English.

Who should apply?

The course is designed for students with a basic grounding in epidemiological methods and concepts and/or some prior knowledge of pharmacoepidemiology. This includes personnel concerned with the safe use of medicines, especially those working in:

- The pharmaceutical industry who are involved in drug development, licensing or surveillance
- Regulatory bodies who are involved in licensing & surveillance
- Academics interested in evaluating drug safety and effectiveness
- The health service who are involved in drug policy and decision making

Teaching methods

Teaching will be delivered online and consists of self-study material using pre-recorded lectures with synchronous interactive live sessions, Q&A and panel discussions and computer-based practical sessions.

Key information

Course organisers:
John Tazare, Kwabena Asare & Christopher Rentsch

Fees:
For up-to-date fees, please see our website

Contact email:
shortcourses@lshtm.ac.uk

Find out more and apply:
lshtm.ac.uk/study/courses/short-courses/real-world-evidence-in-pharmacoepidemiology