



DSRU

Drug Safety Research Unit

REALISE YOUR
POTENTIAL

DEVELOP
YOUR SKILLS

IMPROVE
YOUR CAREER

EXPAND YOUR
KNOWLEDGE

Introduction to Pharmacoepidemiology

Hybrid Event: Solent Hotel, Whiteley & Online | 13 - 14 November 2024

Chairperson: TBC

Wednesday 13 November 2024

0830 - 0845 (GMT) Registration / Meeting room open for delegates to join

0845 - 0900 Introduction to the meeting

0900 - 0930 What is epidemiology and what is pharmacoepidemiology?

◇ Definitions, scope and applications of pharmacoepidemiology ◇ Population perspectives and disease burden ◇ Use of observational data ◇ Prevention

0930 - 0935 Comfort break

0935 - 1035 Basic concepts in pharmacoepidemiology

◇ Safety ◇ Risk and related concepts ◇ Understanding statistical measures in pharmacoepidemiology ◇ Risk / benefit balance ◇ Association ◇ Bias and confounding

Learning objectives:

- To acquire a basic grounding in pharmacoepidemiological conceptual skills and how the tools are used for evaluating risk and risk benefit.

1035 - 1045 Coffee / Tea break

1045 - 1125 Causality – Bradford Hill Criteria

1125 - 1130 Comfort break

1130 - 1230 Study designs and tools

◇ Hypothesis generation and testing ◇ Case reports and case series ◇ Principles of study design ◇ Cohort studies ◇ Case-control studies ◇ Interventional studies

Learning objectives:

- To acquire a basic grounding in pharmacoepidemiological study design and how the tools are used for evaluating risk and risk benefit.

Book your place here: www.dsrु.org/education-training

Contact us on EandT@dsru.org or 023 8040 8600

Browse our full range of courses at www.dsrु.org

Prog draft 1 WEB (I2P Nov 24)

In the event of unforeseen circumstances, the DSRU reserves the right to alter the programme, speakers or venue.

1230 - 1310	Lunch break
1310 - 1355	<p>Data resources for pharmacoepidemiology</p> <p><i>◇ Broad overview of worldwide data resources ◇ Strengths and limitations of databases</i> <i>◇ Choosing an appropriate data resource ◇ ENCePP</i></p> <p>Learning objectives:</p> <ul style="list-style-type: none"> • To fully understand where you might search for data once a potential signal has been recognised.
1355 - 1400	Comfort break
1400 - 1405	Introduction to methodology workshop
1405 - 1500	<p>Workshop on methodology</p> <p>Learning objectives:</p> <ul style="list-style-type: none"> • To be able to identify key features of commonly used pharmacoepidemiological study designs and become familiar with the methods used for measurement of exposure and outcomes. • To understand how study populations are selected.
1500 - 1505	Comfort break
1505 - 1555	<p>Interactive introduction to measures of disease frequency</p> <p><i>◇ Key terms and concepts ◇ Descriptive statistics ◇ Calculating measures of frequency</i></p> <p>Learning objectives:</p> <ul style="list-style-type: none"> • To learn common techniques of analysis used to aid interpretation of pharmacoepidemiological investigations
1555 - 1605	Coffee / Tea break
1605 - 1705	<p>PASS, PAES and risk management</p> <p><i>◇ Practical implications of ICHE2E ◇ Tailoring the approach ◇ Meeting the requirements of regulators ◇ Pitfalls to avoid ◇ ENCePP E-Register of Studies</i></p> <p>Learning objectives:</p> <ul style="list-style-type: none"> • To learn how pharmacoepidemiological methods are used in Post-authorisation Safety Studies (PASS) and Post-authorisation Efficacy Studies (PAES) in the UK and EU. • To understand how to incorporate pharmacoepidemiology into risk management planning.
1705 - 1715	Question & Answer session
1715	End of day one

0845 - 0900 (GMT)	Registration / Meeting room open
0900 - 0905	Introduction to day 2 and recap of day 1
0905 - 1005	Interactive introduction to measures of impact and effect <i>◇ Key terms and concepts ◇ Calculating measures of impact and measures of effect (risk ratios, odds ratios and hazard ratios)</i> Learning objectives: <ul style="list-style-type: none">• To learn common techniques of analysis used to aid interpretation of pharmacoepidemiological investigations
1005 - 1015	Comfort break
1015 - 1100	Interactive introduction to data sampling issues <i>◇ Uncertainty and variation</i> Learning objectives: <ul style="list-style-type: none">• To become familiar with underlying data sampling issues
1100 - 1115	Question and answer session
1115 - 1130	Coffee / Tea break
1130 - 1140	Introduction to interpretation of pharmacoepidemiological data workshop
1140 - 1230	Workshop on interpretation of pharmacoepidemiological data Learning objectives: <ul style="list-style-type: none">• To interpret published studies and critically evaluate the conclusions.
1230 - 1315	Lunch break
1315 - 1400	Introduction to systematic reviews and meta-analysis [DSS 3] <i>◇ Search strategies ◇ Synthesising data ◇ Interpreting results ◇ Assessing risk of bias and publication bias</i> Learning objectives: <ul style="list-style-type: none">• To obtain an overview of systematic reviews and meta-analyses
1400 - 1405	Comfort break
1405 - 1410	Introduction to causation workshop
1410 - 1500	Workshop on causation Learning objectives: <ul style="list-style-type: none">• To increase your understanding of how causality is determined from pharmacoepidemiological data using information of different types derived from two real examples of potentially serious adverse events associated with medicines.
1500 - 1510	Coffee / Tea break

1510 - 1520	Introduction to risk management planning workshop
1520 - 1600	Workshop: Pharmacoepidemiology as a tool for risk management planning Learning objectives: <ul style="list-style-type: none">• To define the key elements of a risk management plan using practical examples.
1600 - 1615	Summing up and final questions
1615	Close of meeting
