

## ***Systematic Review Advanced Author Training***

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| <b>Duration</b>        | Online – 4 half days   |
| <b>Skill level</b>     | Advanced   |
| <b>Target Audience</b> | Healthcare professionals, academics, researchers, decision makers and Evidence Synthesis Ireland fellows who are actively involved in performing a Cochrane systematic review. |
| <b>Prerequisites</b>   | Participants should at least have completed their review protocol, developed and conducted their search strategy and begun data extraction and analysis.                       |
| <b>Date</b>            | 9 <sup>th</sup> , 13 <sup>th</sup> , 16 <sup>th</sup> , 20 <sup>th</sup> November 2020   |
| <b>Time</b>            | 10.00 am - 1.00 pm   |
| <b>Places</b>          | 20 places available for individuals who are resident on the island of Ireland  |
| <b>Fee</b>             | 150 euro (General). 80 euro (Student)  |

### **Background**

Health care policy and practice decisions should be based on a synthesis of the global body of evidence rather than relying on individual studies. Cochrane Ireland and Evidence Synthesis Ireland promote evidence based healthcare policy and practice by supporting high quality, relevant systematic reviews and other synthesised research evidence.

### **Aim**

This workshop provides authors, actively involved in conducting a systematic review, with confidence to assess a wide range of data types. It offers an insight into more complex methods of meta-analysis.

### **Learning outcomes**

In this course participants will be enabled to:

- Understand how to identify, extract and analyse dichotomous and continuous data
- Understand more complex meta-analysis methods including use of Generic Inverse Variance Meta-analysis
- Understand principles of analysis of multi-arm trials, cluster and cross-over trial designs

### **Teaching strategies**

This course consists of online workshops with of a mixture of short presentations, small group activities and plenary discussions, providing participants with the opportunity to develop and refine their protocol. In addition, participants will have access to Cochrane Interactive Learning modules and will be required to complete a set of modules prior to workshops. Access to the Cochrane Interactive Learning modules will be made available for 4 weeks before and 4 weeks after the workshop and will be free of charge thanks to the support of Cochrane Training.

## **Facilitators**

Dr Chris Cates, Cochrane UK

Prof Valerie Smith, Trinity College Dublin

## **Course content**

- Data Collection overview
- Dichotomous Data: Extraction and Analysis
- Continuous Data: Extraction and Analysis
- Standardised Mean Difference
- Introduction to Heterogeneity – heterogeneity statistics, fixed and random effects models, dealing with heterogeneity
- Sensitivity Analysis
- Generic Inverse Variance Meta-analysis: overview
- Multiplicity Issues: Multi-arm trials, Cluster and Cross-over designs
- Practical demonstration in RevMan