



# EVIDENCE SYNTHESIS IRELAND

## Advanced Systematic Review Training (Online – 4 half days)

### 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

### Target Audience

Healthcare professionals, academics, researchers, decision makers and Evidence Synthesis Ireland fellows who are actively involved in performing a Cochrane systematic review.

### Teaching strategies

This course will include blended learning with two months free access to Cochrane Interactive Learning self-directed learning modules, a number of which will be required study prior to the workshop.

### Prerequisites

Participants should at least have completed their review protocol, developed and conducted their search strategy and begun data extraction and analysis.

### Date:

**20th, 21st, 27th & 28th  
Nov 2023**

### Time:

**10:00 – 13:00**

### Skill level:

**Advanced**

### Facilitators:

**Prof. Valerie Smith**

Professor of Midwifery  
Trinity College Dublin

**Dr Nuala Livingstone**

Associate Editor  
Cochrane Editorial and Methods  
Department

### Places:

**20 places available for  
individuals who are  
resident on the island of  
Ireland**

### Fee:

**€150 (General)  
€80 (Student)**

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# EVIDENCE SYNTHESIS I R E L A N D

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### Course timetable

Day 1 – Monday 20th November 2023	
09:45	Join the meeting online
10:00	Welcome, introduction of presenters and outline of presentations
10:15	Data Collection Overview
11:00	Dichotomous Data
11:30	Break
11:45	Continuous Data
12:30	Practical Exercises and Questions
13:00	Close

  

Day 2 – Tuesday 21st November 2023	
09:45	Join the meeting online
10:00	The generic inverse variance method of meta-analysis
10:45	Continuous data with zero and small counts
11:00	Practical exercise
11:30	Break
11:45	Converting other data types to binary form
12:00	Calculating standard deviations when they are missing from papers, using other reported values
12:30	Practical exercise and questions
13:00	Close

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### Course timetable

Day 3 – Monday 27th November 2023	
09:45	Join the meeting online
10:00	Heterogeneity – Fixed and Random models
10:45	Exploring and responding to Heterogeneity
11:30	Break
11:45	Sensitivity Analysis
12:30	Questions and Discussion
13:00	Close

  

Day 4 – Tuesday 28th November 2023	
09:45	Join the meeting online
10:00	Multi-arm Trials
10:45	Cluster design trials and Cross-over Trials
11:30	Break
11:45	Time-to-event data and Rates
12:30	Practical exercise and questions
13:00	Close

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