



EVIDENCE SYNTHESIS I R E L A N D

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:

**14th, 15th, 23rd, 24th
March 2022**

Time:

10.00 am - 1.00 pm

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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Course timetable

Day 1 – Monday 14th March 2022	
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 15th March 2022	
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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Day 3 – Wednesday 23rd March 2022	
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 – Thursday 24th March 2022	
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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