

## Course on systematic review and meta-analysis for guideline development

Venue: Seminar Hall, 2<sup>nd</sup> floor, Department of Primary Education, University of Ioannina

**02/05/2023**

### **Introduction to systematic literature review**

#### **09-00-12:30: Part 1**

9:00 – 9:15: Introduction to the workshop

9:15 – 09:45 Introduction to systematic reviews

09:45-10:45 Other types of literature reviews

- Systematic reviews, Rapid reviews, Scoping review, Narrative review

10:45-11:00: Break

11:00-11:15: Q&A

11:15-12:30: Steps of a systematic review

- Forming the research question, Inclusion criteria, selecting studies, Collecting data

12:30- 14:00: Lunch break

14:00-14:15: Q&A

#### **14:15-15:45: Part 2**

- Effect sizes for dichotomous and continuous data (Mean difference, standardized mean difference, risk and odds ratio, risk difference), effect sizes for other types of data (time-to-event, counts and rates)

**15:45-16:00: Q&A**

**16:00-16.30: Test summarizing day 1**

**08/05/2023**

#### **09:00-12:30: Part 1**

09:00-09:30: Equity of specific populations

09:30-09:45: Intervention complexity

09:45-10:15: Patients reported outcomes

10:15-10:30: Adverse effects

10:30-10:45: Economics

10:45-11:00: Break

11:00-11:15: Q&A

11.15-12:30: Bias assessment

12:30- 14:00: Lunch break

14:00-14:15: Q&A

#### **14:15-15:45: Part 2**

14:15-14:30: Building a protocol

14:30-14-45: Review report

- PRISMA 2020
- Evidence tables
- Amendments to the protocol

14:45-15:45: Statistical overview

Analyzing data and undertaking a meta-analysis: introduction to meta-analysis

Fixed (common) effect meta-analysis

**15:45-16:00: Q&A**

**16:00-16.30: Test summarizing day 2**

**09/05/2023**

### **Introduction to guidelines development**

## **09:00-12:30: Part 1**

09:00-09:15: Introduction to the GRADE methodology

09:15-09:30: Definition of guideline

09:30-10:45: Definition and composition of the guideline panel

10:45-11:00: Break

11:00-11:15: Q&A

11:15- 11:45: Guideline development process

- Organization
- PICO questions

11:45-12.30: Definition of outcomes

12:30- 14:00: Lunch break

14:00-14:15: Q&A

## **14:15-15:45: Part 2**

14:15-15:45 Dealing with heterogeneity

- Heterogeneity
- Random effects meta-analysis

15:45-16:00: Q&A

## **16:00-16.30: Test summarizing day 3**

### **15/05/2023**

## **09:00-12:45: Part 1**

09:00-09:30: Consensus

09:30-10:15: Quality of the guidelines

(AGREE II tool, AGREE-S tool, Panel view Tool, RIGHT tool)

10:15-10:45: GRADE evidence to decision (EtD) frameworks

10:45-11:00: Break

11:00-11:15: Q&A

11:15-11:45: GRADE evidence to decision (EtD) frameworks

11:45-12:30: PICO questions

12:15-12:45: Outcomes

12:45- 14:00: Lunch break

14:00-14:15: Q&A

## **14:15-15:45: Part 2**

14:15- 15:45: Introduction to Network meta-analysis

15:45-16:00: Q&A

## **16:00-16.30: Test summarizing day 4**

### **16/05/2023**

## **09:00-12:45: Part 1**

09:00-09:15: Level of evidence

09:15-09:45: Rating down (Inconsistency, Imprecision, Indirectness, Publication bias)

09:45-10:15: Rating up (Large magnitude of effect)

10:15-10:45: Final certainty rating

10:45-11:00: Break

11:00-11:15: Q&A

11:15-11:45: Evidence to Decision criteria

11:45-12:45: Developing recommendations

12:45- 14:00: Lunch break

14:00-14:15: Q&A

## **14:15-15:45: Part 2**

- Presenting the results of a network meta-analysis.

**15:45-16:00: Q&A**

**16:00-16.30: Test summarizing the workshop.**