

Workshop Title:**Introduction to Systematic Reviews: A Practical Guide from Research Question to Evidence Synthesis****Facilitator(s):**

Dr. Samar Abd ElHafeez, Professor of Epidemiology, High Institute of Public Health, Alexandria University, Egypt

email: summer.epid@alexu.edu.eg

Rationale:

Systematic reviews provide a structured approach to identifying, evaluating, and synthesizing evidence from existing research. They are increasingly important for researchers, healthcare professionals, and postgraduate students. However, the process can appear complex, particularly for those who are new to evidence synthesis. This introductory workshop will provide participants with a clear and practical overview of the main stages of a systematic review, using a practical example throughout the session to illustrate how a research idea can be developed into a structured review question and review plan.

Objectives:

By the end of the workshop, participants will be able to:

- Explain what a systematic review is and when it is appropriate.
- Distinguish systematic reviews from narrative and other types of literature reviews.
- Formulate a focused research question using frameworks such as PICO/PECO.
- Understand the basic principles of developing a literature search strategy.
- Describe the main steps involved in study screening and selection.
- Understand the purpose of data extraction and risk-of-bias assessment.
- Describe the basic approaches to evidence synthesis and reporting.

Topics to be covered:

- Introduction to systematic reviews: what they are, why they are conducted, and when they are appropriate
- Systematic reviews versus narrative and other types of reviews
- Formulating the research question and defining eligibility criteria using PICO/PECO
- Developing a basic search strategy: databases, keywords, and Boolean operators
- Study screening and selection: from titles and abstracts to full-text assessment
- Data extraction and the purpose of risk-of-bias assessment
- Introduction to evidence synthesis: narrative synthesis and a brief overview of meta-analysis
- Introduction to PRISMA and transparent reporting
- Common challenges and pitfalls when planning a systematic review

Expected outcomes:

Participants will leave the workshop with a clear understanding of the systematic review process and the key decisions involved at each stage. Through a practical example, they will be able to develop a focused review question, understand how a search strategy is constructed, follow the study selection process, and recognize the main elements required for data extraction, appraisal, synthesis, and reporting. The workshop will provide a foundation for participants who wish to undertake a systematic review or pursue more advanced training.

Who should attend

Researchers, faculty members, postgraduate students, healthcare professionals, and anyone interested in research and evidence synthesis. The workshop is intended for beginners and participants with limited or no previous experience in systematic reviews. No advanced statistical background is required.

Registration Fees (Per Workshop)

For Egyptians (EGP)

- **Conference Participants:** 300 LE (Early Bird) / 500 LE (Late)
- **Non-Conference Participants:** 500 LE (Early Bird) / 700 LE (Late)
- **Group Rate (5 Conference Participants):** 1200 LE (Early Bird) / 2200 LE (Late). One member of the group should register for the whole group as shown.

Non-Egyptians (USD)

- **Conference Participants:** \$15 (Early Bird) / \$20 (Late)
- **Non-Conference Participants:** \$30 (Early Bird) / \$35 (Late)

N.B: for conference participants, please upload copy of your conference registration receipt.

Number of participants per workshop :Maximum of 40 participants