Systematic Reviews and Evidence Synthesis

Facilitators

Prof. Arnaud Chiolero, MD PhD
Population Health Laboratory (#PopHealthLab), University of Fribourg & Institute of Primary Health Care (BIHAM), Bern (Switzerland); School of Population & Global Health, McGill University, Montreal (Canada)

Dr. Cinzia Del Giovane, PhD
Department of Medical and Surgical Sciences for Children and Adults, University-Hospital of Modena and Reggio Emilia, Modena & Cochrane Italy (Italy); Institute of Primary Health Care (BIHAM), Bern & Population Health Laboratory (#PopHealthLab), University of Fribourg (Switzerland)

Description

A systematic review (SR) is a review of the scientific literature on a specific research question that adopts explicit and standardized methods to minimize potential biases and thus provide more reliable findings to support decision-making and to guide future research. It is a key element for evidence-based medicine and public health (EBM&PH). Our course is designed for PhD students and researchers who want to know how SRs can be used within healthcare and public health to inform decisions making within and an EBM&PH framework.

The participants will learn how to conduct a SR and synthesize evidence and the process from the initial research question to best practice reporting results. They will apply statistical methods and tools to conduct SR and meta-analysis (MA) (risk of bias tool to assess the methodological quality of studies; meta-analytic methods to quantitative summarize evidence; GRADE framework to assess the confidence in the results). Examples will be taken from experimental and observational research.

Objectives

To know the principles of EBM&PH and how to conduct a SR and MA. In particular, able to:
- Understand what is EBM&PH and why it matters for healthcare provision and public health decision making
- Recognize the different types of review and know their strengths and limitations for decision making
- Describe the key steps in undertaking a SR and evidence synthesis, including development of a review protocol
- Formulate a clear research question that can be addressed by a SR
- Identify the relevant literature
- Appraise the methodological quality of studies included in a SR
- Conduct basic MA and interpret the results
- Assess the confidence in the evidence using the GRADE framework

Dates 12-15 February 2024

Eligibility SSPH+ PhD students. External participants are welcome to apply.

Course Structure Lectures and group work

Assessment In-class assignments and presentations

Credits 2 ECTS

Preliminary Work: 10h; Contact time: 30h; Assignment: 10h

(1 ECTS corresponds to appr. 25-30 hours workload)

Location University of Fribourg, room TBA

Course Fees

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<th>ECTS</th>
<th>Cost</th>
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<tr>
<td>2 ECTS</td>
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<tr>
<td>SSPH+IGC Students</td>
<td>30 CHF</td>
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<tr>
<td>Postdocs from SSPH+ partner institutes</td>
<td>30 CHF</td>
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<tr>
<td>External PhD students and MD students</td>
<td>600 CHF</td>
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<td>Others</td>
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Registration [www.conftool.com/ssph-phd-courses2024](http://www.conftool.com/ssph-phd-courses2024)

Deadline for registration 12 January 2024