Evidence Synthesis

ECTS : 3

Description du contenu de l'enseignement :

This course consists of four sessions à 3 hours. In session 1, we will discuss the role of evidence synthesis in the scientific process. We will consider different classifications of the scientific literature and discuss where and how to identify relevant documents. We will briefly introduce different databases and AI-supported tools that can be used to find scientific documents and to manage references. We will then discuss the principles and strengths/limitations of systematic and narrative literature reviews. In session 2, we will first look at tools and checklists that have been developed to assess the evidence identified in a systematic review. We will then discuss meta-analysis and review the most fundamental statistical models for meta-analysis. Session 3 will build on session 2. We will consider more advanced concepts in meta-analyses and discuss different applications. In session 4, students will present the results of a systematic review or meta-analysis in groups.

Compétence à acquérir :

After completing this course, you will...

- be able to search for and manage scientific references;

- be able to conduct a systematic review of the literature;

- be able to read and interpret published meta-analyses of scientific findings;

- understand the strengths and limitations of different approaches to evidence synthesis;

- be able to critically reflect on the appropriateness of a specific evidence synthesis approach in practical applications.

Mode de contrôle des connaissances :

Students will conduct a systematic literature review on a topic of their choice in groups and present the findings in the last session of the course.