UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Laboratorio

2627-1-K0103D014

Aims

The course aims to provide master's students with advanced methodological tools to support the decisions of healthcare professionals in organizational and/or managerial roles. In particular, tools will be provided to govern the Evidence-Based Practice (EBP) process. At the end of the course, the student will be able to formulate complex clinical-care questions, conduct advanced bibliographic research in major healthcare and biomedical databases, and critically evaluate the methodological quality of the scientific literature to transfer the best evidence into clinical, organizational, and training practice.

Contents

Translate a clinical-organizational doubt into a question structured according to the PICO model or its variants.
Document Search: Know how to advanced query at least MEDLINE (via PubMed), Embase, Cochrane Library, CINAHL, and Scopus using Boolean operators, controlled vocabularies (MeSH/Emtree), and methodological filters.
Critical Appraisal: Knowing how to identify biases (distortions) and apply standardized international checklists to judge the internal and external validity of clinical trials, observational studies, qualitative studies, and systematic reviews.

Detailed program

The Evidence-Based Practice process; Clinical Question Formulation (PICO); database architecture; hierarchical vocabularies (MeSH); advanced search strings in MEDLINE (PubMed), CINAHL, and Cochrane; randomized clinical trials (RCTs), cohort studies, case-control studies, cross-sectional studies, systematic reviews, and meta-analyses: Main differences and level of evidence for correct orientation in decision-making choices; Risk of bias assessment tools: CASP instruments, Cochrane RoB 2, ROBINS-I, Newcastle-Ottawa scales; Evidence grading

guidelines and systems (GRADE); Transferability of findings to the clinical and/or organizational context.

Prerequisites

None

Teaching form

The course includes a theoretical introductory part and an exercise part in the computer lab.
Some of them will be carried out remotely (12 hours) and the exercise part will be carried out in person at the computer laboratory (24 hours)

Textbook and teaching resource

- Chiari, Mosci, Naldi e il Centro Studi EBN (2011). Evidence-based clinical practice. La pratica clinico-assistenziale basata su prove di efficacia. McGraw-Hill, Education
- Tool Online Utilizzati: PubMed/MEDLINE National Library of Medicine, CASP Checklists (Critical Appraisal Skills Programme), EQUATOR Network (Linee guida STROBE, CONSORT, PRISMA).

Semester

First year

Assessment method

Attendance

Office hours

By appointment, scheduled via email with the teacher

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | PARTNERSHIPS FOR THE GOALS