



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Epidemiology and Public Health

2223-4-H4101D263-H4101D083M

Aims

The aim of the course is to provide students with principles, concepts and methods of epidemiology and its application in public health, along with the tools aimed to design a proper epidemiological study.

Contents

The aim of the course is to provide students with principles, concepts and methods of epidemiology (descriptive, etiologic, prognostic), focusing on the Population-Observation-Inference paradigm.

Detailed program

The aim of the course is to provide students with principles, concepts and methods of epidemiology, focusing on the Population-Observation-Inference paradigm. Diagnostic, prognostic and etiologic study design will be presented and epidemiologic indicators will be discussed, including prevalence, incidence, absolute and relative risk, attributable risk, odds ratio, incidence density type ratios, NNT and NNH.

The following study designs will be discussed in detail: descriptive studies (time series), intervention studies, case-control and cohort studies, cross-sectional and ecological studies.

Examples will mostly be focused on non-communicable disease epidemiology and pharmaco-epidemiology.

Prerequisites

Teaching form

Lectures and practical workshops

Textbook and teaching resource

Digital learning material

Signorelli C (editor). Igiene e Sanità Pubblica. SEU, Roma, 2017

Pontello M, Auxilia F. Igiene, Medicina Preventiva e salute globale. Piccin 2022

Santos Silva I. IARC, Lyon. Cancer Epidemiology: Principles and Methods, 1999

Semester

Second semester

Assessment method

Written exam with subsequent discussion of the results from the written exam

Office hours

By appointment, write to giampiero.mazzaglia@unimib.it

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING
