



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Epidemiologia e Sanità Pubblica

1718-4-H4101D021-H4101D083M

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#### Aims

To introduce the student to the essential concepts of public health and epidemiology

#### Contents

- a. History of medicine and epidemiology
- b. Health and Healthcare Systems
- c. Fundamentals of epidemiology: type of study: descriptive, analytic (cohort and case control), trial; basic measures: mortality and morbidity rates, prevalence and incidence; association measures: relative risk (RR, OR, HR) and attributable risk; cause-effect relation; statistical evaluation: p value and confidence intervals; confusion factors: power of the study, first and second type errors, bias, confounders, database and data quality; privacy
- d. Clinical and epidemiological aspects of the main chronic degenerative diseases
- e. Medicine, environment and work
- f. Open issues in medicine

#### Detailed program

- a. History of epidemiology, biomedicine and clinical methodology.
- b. Concept of health, development of Healthcare Systems (mainly focusing on European and American) and fundamentals of health technology assessment.
- c. Fundamentals of epidemiology: type of study: descriptive, analytic (cohort and case control), trial; basic measures: mortality and morbidity rates, prevalence and incidence; association measures: relative risk (RR, OR, HR) and attributable risk; cause-effect relation; statistical evaluation: p value and confidence intervals; confusion factors: power of the study, first and second type errors, bias, confounders, database and data quality; privacy
- d. Global health, communicable and noncommunicable diseases. Main global health indicators. Epidemiology and physiopathology of infective, cardiovascular, chronic respiratory, metabolic, gastroenteric and neoplastic diseases. Methods for literature reviewsea. Social determinants of health, stress, pollution and climate change.
- e. Social determinants of health, stress, pollution and socio-economic status.
- f. Medicine beyond therapy (improving natural skills, slowing down the ageing process, avoiding depression).

## **Prerequisites**

None

## **Teaching form**

Ex cathedra teaching, seminars and laboratories.

## **Textbook and teaching resource**

Educational material supplied by the teacher

## **Semester**

Second

## **Assessment method**

Written, multiple choice questions

## **Office hours**

By appointment

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