



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Scienze Tecniche Mediche Applicate

2324-3-H4601D017-H4601D047M

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#### Aims

The aims of the course are:

Acquisition of the basic elements of the Occupational Medicine and of the prevention system in workplaces;  
Knowledge of main aspects of occupational risks, with special attention to the healthcare context, in order to prevent occupational diseases.

Evaluate healthcare issues both at the individual and community levels gaining knowledge on epidemiological approaches

#### Contents

The course provides students with useful information to promote health in the workplaces and to avoid behaviors that may cause occupational diseases.

Additionally, considering epidemiological approaches, the course provides students with useful tools to understand terminology, measures, and study designs for clinical research, including both experimental and observational studies.

#### Detailed program

- Introduction to the Occupational Medicine and regulatory framework
- Basic notions of prevention and classification of risk factors
- Duties and responsibilities in the prevention system
- Biological risk
- Physical risks
- Chemical risk

- Other risks in the workplace
- Pregnancy and work: risks for pregnant workers
- Risks for healthcare workers
- Introduction to epidemiology, data sources, descriptive epidemiology. Proportions and rates, measures of disease frequency (e.g., incidence, prevalence)
- Analytical epidemiology. Disease trends and relationships with individual, social, and environmental characteristics, identifying the determinants of health, and evaluating the effectiveness of health interventions.
- Measures of association and differences with causality. The concept of risk.
- Measures of the diagnostic process: Sensitivity, specificity, inter-observer agreement.
- Systematic and random errors, confounding, and bias.
- Study designs and indicators related to oral health.
- Scientific literature in the field of oral health: Reading, interpreting, and evaluating the results of an epidemiological study.

## Prerequisites

None

## Teaching form

Lectures. The teacher promotes discussion among students on problems related to occupational risks in dental setting, involving students and asking them to reflect on these issues

All classes are conducted in-person in a lecture format: 2 lectures of 5 hours each, held in-person.

Epidemiology part: in-person mode (10 hours total divided into a 4h lecture 2 lectures of 3 hours). Traditional mode ("didattica erogativa – DE") integrated with an interactive approach ("didattica interattiva – DI") of collaborative learning. Use of interactive teaching tools for student engagement (e.g., Mentimeter).

## Textbook and teaching resource

1. Bertazzi PA. Medicina del Lavoro. Milano: Raffaello Cortina Editore, 2013
2. Learning material provided by the teacher

## Semester

2nd semester, 3rd year

## Assessment method

Final exam: written test with closed multiple-choice questions with only one correct answer.

## **Office hours**

By appointment, writing to [maria.paladino@unimib.it](mailto:maria.paladino@unimib.it)

- [cristina.crocamo@unimib.it](mailto:cristina.crocamo@unimib.it)

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | REDUCED INEQUALITIES | PARTNERSHIPS FOR THE GOALS

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