



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Community Medicine

2425-4-H4101D263-H4101D188M

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#### Aims

Knowledge of the main factors which influence health; methodologies and interventions for prevention and health protection, both concerning the individual and the community. Knowledge of the principles and issues concerning the prevention of transmissible diseases, chronic diseases and risk factors and of main issues in preventive and community medicine.

#### Contents

Hygiene, Prevention and Health Promotion

Preventive and Community Medicine.

#### Detailed program

INTRODUCTION TO PREVENTIVE MEDICINE: Protection and promotion of health: principles, organization and methods of intervention. Levels and types of prevention.

EPIDEMIOLOGY OF COMMUNICABLE DISEASES: Definitions, Objectives, Chain of infection, methods and measures of transmission

PREVENTION STRATEGIES FOR COMMUNICABLE DISEASES: Destruction of pathogens through remediation activities (e.g. disinfection, disinfestation, sterilization); limitation of the spread of pathogens, subject to recognition in individuals and the population (e.g. notification [surveillance], search for sources, diagnostic assessment, isolation);

strengthening individual and population defenses against infection (e.g. immunoglobulins, vaccines)

VACCINES: Types of vaccines and use strategies; mandatory and optional vaccinations for the developmental age

and for the adult population, the vaccination calendar. Studies evaluating efficacy, safety and impact.

**EPIDEMIOLOGY AND PREVENTION OF COMMUNICABLE DISEASES:** Causal factors and risk factors. Impact measures (DALYs) and the Global Burden of Disease. The main prevention strategies (population and high risk) applicable to health protection. Health education: characteristics and methods of intervention, communication of informative and educational messages. Secondary prevention, screening tests, cancer screening programs.

**SURVEILLANCE SYSTEMS:** definitions and characteristics, typologies. Notification of infectious diseases, sentinel surveillance, repeated surveys. Surveillance of drugs and vaccines.

## **Prerequisites**

preliminary knowledge is not required

## **Teaching form**

Lectures and workshops

## **Textbook and teaching resource**

Comodo N, Maciocco G. Igiene e Sanità Pubblica, Nuova Edizione – Carocci Editore 2011  
Signorelli C (editor). Igiene e Sanità Pubblica. SEU, Roma, 2017  
Pontello M, Auxilia F. Igiene, Medicina preventiva e salute globale. Piccin 2022  
Digital learning material

## **Semester**

2nd semester

## **Assessment method**

see the general Syllabus of the course

## **Office hours**

By appointment, write to [giampiero.mazzaglia@unimib.it](mailto:giampiero.mazzaglia@unimib.it)

## Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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