UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Community Medicine

2526-4-H4101D263-H4101D188M

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

basic epidemiological methods required

Teaching form

Lectures, workshops, test

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, Auxulia 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

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION