UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

# SYLLABUS DEL CORSO

# Farmacologia Clinica e Chemioterapia

**2021-3-H4601D014-H4601D038M**

## Aims

At the end of the course the student will know the pharmacological properties of the different groups of the chemotherapeutic agents commonly employed in dentistry, particularly their mechanisms of action and fate in the organism.

## Contents

The program will examine the pharmacological properties of the main chemotherapeutic agents used in dentistry.

## Detailed program

Classification of antimicrobial drugs - Spectra, mechanisms of activity, and specific targets of the main classes of bacteriostatic and bactericidal antibiotics - Drug resistance, antimicrobial drug associations, antibiotic prophylaxis - Complications of antibiotic therapy - Criteria for an appropriate antibiotic usage in relationship to the pathogenic agent and patient typology - Penicillins, cephalosporins, and other beta-lactam antibiotics – Other cell-wall antibiotics – Tetracyclines, chloramphenicol, aminoglycosides, macrolides, lincosamines – Sulphamides, trimethoprim, cotrimoxazole – Chinolones and urinary antiseptics – Antitubercular drugs – Antifungals – DNA and RNA antivirals - HIV antiretrovirals – Antimalarial drugs – Principles of anticancer chemotherapy – Antimetabolite, antibiotic, alkylating, mitotic spindle inhibitor and other chemotherapeutic agents – Steroidal and non-steroidal chemotherapeutics - Targeted anti-cancer therapy.

## Prerequisites

Knowledge acquired during all preparatory courses indicated in the dentistry degree course plan.

## Teaching form

During the Covid-19 emergency the lectures will be delivered from remote in asynchronous/synchronous manner and video recorded.

## Textbook and teaching resource

F.J. Dowd, B.S. Johnson e A.J. Mariotti “Pharmacology and Therapeutics for Dentistry”, VII edizione, Elsevier, 2017.

Goodman & Gilman “Le Basi Farmacologiche della Terapia”, XIII Edizione, Zanichelli, 2019.

Goodman & Gilman “Le basi farmacologiche della terapia – Il manuale”, II Edizione, 2015.

## Semester

First semester.

## Assessment method

During the Covid-19 emergency the exams will be oral carried out electronically from remote using the WebEx platform. For access to the events, the links will be published In the e-learning page of the subject.

## Office hours

On appointment.