



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Farmacologia Clinica e Chemioterapia

2223-3-H4601D014-H4601D038M

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#### 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 (antobacterials, antifungals, antivirals).

#### 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 – Tetracyclines, macrolides, lincosamines – Antifungals – Antivirals for the treatment of Herpes viral infections.

#### Prerequisites

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

## **Teaching form**

The teaching will be performed in attendance, except for ministerial changes due to the COVID pandemic situation. Formal lectures and discussions of clinical cases will be utilized.

## **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**

The final evaluation will be performed through an oral exam aimed to assess whether students have acquired the exact terminology of the subject, the application of the critical reasoning developed in class and knowledge of the notions studied on the most important classes of drugs currently available in dentistry. It will be performed in attendance except for ministerial changes due to the COVID pandemic situation. No intermediate tests will be performed.

## **Office hours**

On appointment.

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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