



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Clinical Pharmacology (MB-LC-SO) (blended)

2021-2-I0101D025-I0101D065M-T1-T3-T4

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#### Aims

The course aims to provide students with the knowledge of main human diseases and treatments, considering pharmacological and surgical approaches. At the end of the course, students will be able to identify and respond to patients needs in a general surgery setting, using the nursing process. Students will also know: the main classifications of surgical intervention related to complexity, level of urgency and purpose and the different ways of caring in a surgical context; the organization of staff and process in an operating suite; the role and competencies of the primary nurse; the goals and evaluation of health education interventions

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#### Detailed program

General principles and major classes of chemotherapy drugs: antibacterial chemotherapy; inhibitors of cell wall synthesis; protein synthesis inhibitors; folic acid antagonists; inhibitors of nucleic acid synthesis. Chemotherapy, antiviral, antifungal, anti-malarial and anti-tuberculosis. Peripheral nervous system: mediators and their receptors; local anesthetics; curare; anti-inflammatory drugs and analgesics; NSAIDs; central and peripheral analgesic (pain relief, and opioid antagonists); drugs acting on the central nervous system; anxiolytics and hypnotics; neuroleptic antipsychotics; antidepressants; antiepileptics; antiparkinson; general anesthetics; drugs acting on the respiratory

system; bronchodilators, antitussive + anti-asthma. Drugs acting on the gastrointestinal system: antacids and anti-ulcer; prokinetics, laxatives, anti-diarrheal; antiemetic and prokinetic; drugs acting on the neuroendocrine system; cortisone; insulin, oral hypoglycemic agents; thyroid; progestogens and testosterone; drugs acting on the cardiovascular system; antihypertensive drugs (central and peripheral, diuretics, ACE inhibitors and ARBs, vasodilators); antianginal drugs (nitrates, calcium channel blockers); antiarrhythmic drugs; drugs for heart failure (digitalis, diuretics); drugs acting on clotting (anticoagulants, thrombolytics, antiplatelet agents, hemostatic); statins; anti-rejection and urgency drugs; anti-rejection drugs; haematological medicines.

## **Prerequisites**

Positive evaluation in these previous examinations: Fundamentals of Nursing and Midwifery Sciences; Nursing Clinical Methodology; Biomedical Sciences 1; Human Physiology.

## **Teaching form**

During the Covid-19 emergency period, the lessons will take place using the webex platform with asynchronous / synchronous recorded lessons. Lectures including presentations in electronic form of drawings and diagrams, exercises. Group work.

## **Textbook and teaching resource**

Lise M. (2006) Chirurgia per le professioni sanitarie, Piccin; Cella S.G., Di Giulio A.M., Gorio A., Scaglione F. (2010) Farmacologia generale e speciale per le lauree sanitarie, Piccin; Amico-Roxas M., Caputi A.P., Del Tacca M. (2005) Compendio di farmacologia generale e speciale. Torino, UTET Scienze mediche.; Benci L. (2008) Manuale giuridico professionale per l'esercizio del nursing, McGraw-Hill, V ed.; Saiani L., Brugnolli A. (2011) Trattato di Cure Infermieristiche, Casa Editrice Idelson-Gnocchi; Smeltzer S.C., Bare B., Hinkle J.L., Cheever K.H. (2010) Brunner - Suddarth Infermieristica medico-chirurgica – Vol. 1, Casa Editrice Ambrosiana, IV ed.; Centers for Disease Control and Prevention "Linee guida per la prevenzione delle infezioni del sito chirurgico 1999". Giornale Italiano delle Infezioni Ospedaliere 6 (4): 157 – 184; National Collaborating Centre for Women's and Children's Health, National Institute for Health and Clinical Excellence (2008) Surgical site infection: prevention and treatment, RCOG Press. Download from: <https://www.nice.org.uk/guidance/CG74>; Comodo N., Maciocco G. (2011) Igiene e sanità pubblica. Manuale per le professioni sanitarie, Carocci Faber; Auxilia F., Pontello M. (2012) Igiene e sanità Pubblica – Educazione sanitaria, strategie educative e preventive per il paziente e la comunità, Piccin; Mislej M., Paletti F. (2008) L'infermiere di famiglia e di comunità e il diritto di vivere a casa anche quando sembra impossibile..., Maggiolini.

## **Semester**

2nd Yar, 1st Semester

## **Assessment method**

During the Covid-19 emergency period, written exam will be carried out using the esameonline platform and consists of open questions with short answers, and multiple choice questions . To pass the examination the student

must attain sufficiency in the overall score (?18/30) and in each nursing discipline (Surgical nursing and Community nursing)

## **Office hours**

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