



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### General Surgery 2

2526-2-I0101D012-I0101D039M

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#### Aims

##### General Objective

By the end of the course, students will be able to:

##### *Knowledge and Understanding*

Describe signs and symptoms, pathophysiological mechanisms, the main steps of the diagnostic process, and the therapeutic approach to selected surgical clinical conditions.

##### *Applying Knowledge and Understanding*

Integrate anatomical, physiological, pathophysiological, and clinical concepts to interpret specific surgical conditions and to understand diagnostic choices and related therapeutic rationales.

##### *Making Judgements*

Develop the ability to critically analyze surgical clinical cases and therapeutic decisions through case discussions, active learning methodologies, and classroom exercises.

##### *Communication Skills*

Use appropriate scientific language to describe and discuss surgical clinical cases, including in group or interprofessional settings during educational activities.

##### *Learning Skills*

Strengthen autonomy in study and reflective learning skills through clinical case analysis, guided exercises, and active learning methods proposed during the course.

##### Specific Objectives

By the end of the course, students will be able to:

### *Knowledge and Understanding*

- Describe the characteristic signs and symptoms of selected surgical clinical conditions\*
- Explain the main underlying pathophysiological mechanisms\*
- Recognize the essential steps of the diagnostic process and the most commonly used diagnostic tools\*
- Illustrate the main therapeutic approaches and their clinical objectives\*
- Applying Knowledge and Understanding\*
- Relate observed clinical data (signs and symptoms) to the corresponding pathophysiological processes
- Analyze the implications of diagnostic tests for clinical and therapeutic decision-making
- Interpret clinical and laboratory data in an integrated manner within the discussed surgical cases

### *Making Judgements*

Critically reflect on diagnostic and therapeutic choices in surgical clinical cases.

Discuss possible alternative or complementary pathways to those proposed, based on scientific evidence, through active and simulated learning activities.

### *Communication Skills*

Clearly present key clinical, pathophysiological, and therapeutic concepts using appropriate technical language.

Effectively participate in group discussions on clinical cases presented in class, demonstrating synthesis and reasoning skills.

### *Learning Skills*

Independently identify areas requiring further study to understand complex clinical scenarios.

Actively use learning resources (clinical cases, exercises, discussions) to improve both content comprehension and study methods.

## **Contents**

The course covers the surgical approach to the person undergoing surgery in a number of surgical specialities: Thoracic Surgery, Gynaecology, Cardiac Surgery, Vascular Surgery, Abdominal Surgery (intestinal tract surgery with stomal packing), Urology, Neurosurgery, Otolaryngology, Bariatric Surgery, Vulnology Surgery, Maxillofacial Surgery.

## **Detailed program**

- **Cardiac surgery:** ischaemic heart disease and pulmonary embolism (outline), aortic and mitral valvulopathy, pathology of the thoracic aorta
- **vascular surgery:** carotid stenosis, abdominal aortic aneurysm, varices and thrombophlebitis, arteriopathies

- **Thoracic surgery:** pneumothorax, pleural effusions, lung tumours.
- **Neurosurgery:** cerebral tumours, cerebral haemorrhage, hydrocephalus, head trauma (briefly).
- **Oculistics:** glaucoma, cataracts, retinal detachment, neoplasms (briefly).
- **Otorhinolaryngology:** otitis, tonsillitis, epistaxis, tumours of the larynx, thyroid surgery
- **Urology:** neoplasms of the bladder, prostate, kidney (outline), urological surgery (phimosis, varicocele, testicular neoplasm, etc.).
- **maxillofacial surgery:** neoplasms, trauma (outline), cleft lip and palate.
- **Bariatric surgery** various types of approach
- **Gynaecology surgery** main benign and malignant pathologies of the uterus, ovary and salpinx. Surgery and fertility (briefly)
- **Vulnology surgery** surgical approach to the management of complex skin lesions

## Prerequisites

Defined by the academic regulations.

## Teaching form

8 two-hour lessons delivered in face-to-face mode through a tele-teaching system.  
2 two-hour lessons delivered remotely.

## Textbook and teaching resource

- Lise M. (2017), *Chirurgia per le professioni sanitarie*, V edizione Piccin, Padova
- Brugnolli, A. & Saiani, L., 2022. In: A. Di Leo, a cura di, *Trattato di Chirurgia e Infermieristica*. IV ed. Napoli: Idelson-Gnocchi.  
Teaching material provided by the lecturer

## Semester

2nd Year, 2nd Semester

## **Assessment method**

See main course page.

## **Office hours**

See main course page.

## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION | GENDER EQUALITY

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