



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Medical Oncology A

2425-5-H4101D333-H4101D219M

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#### Aims

The student will learn to correctly use the terms relating to the main neoplastic diseases; tests, correct diagnostic procedures and guidelines for the treatment of major tumors; the main mechanisms of action of antineoplastic drugs and their adverse events. The therapeutic principles of integrated care and the clinical activity of the multidisciplinary team will be illustrated

#### Contents

The oncological pathologies that will be treated during the course will focus on:

- 1) principles of staging and restaging and precision medicine;
- 2) neuroendocrine tumors of the lung,
- 3) pleural mesothelioma,
- 4) early stage breast cancer,
- 5) ovarian cancer
- 6) renal tumor.

#### Detailed program

During the fifth year, the following topics will be covered:

1. Terms of instrumental staging and restaging (TNM) and molecular biology (precision medicine) - didactics (1 hour frontal lesson) + distance learning (1 hour webconference with oncologist/anatomical pathologist-molecular biologist-radiologist)

2. Neuroendocrine tumors of the lung: histological and biomolecular classification, therapeutic algorithm and multidisciplinary evaluation (2 hours lecture)
3. Pleural mesothelioma: histo-pathological classification, therapeutic algorithm and multidisciplinary evaluation in integrated multimodal treatments - didactic delivery 1 hour + distance learning (1 hour web conference MTD team on Wednesdays or alternatively web connection between oncologist-thoracic surgeon-radiotherapist)
4. Early stage breast cancer and its multidisciplinary treatment: therapeutic algorithm in the different subtypes and the role of the multidisciplinary team - educational and organizational (2 hours frontal lesson)
5. Ovarian tumors and their multidisciplinary treatment: therapeutic algorithms in relation to the stage and the histological and biomolecular subtype - didactic delivery (2 hours frontal lesson)
6. Malignant tumors of the kidney and their multidisciplinary treatment: therapeutic diagnostic framework and algorithm, front-line therapeutic strategies and advanced didactics (2 hours frontal lesson)

## **Prerequisites**

The student must know the basics of molecular and cellular biology, as well as the processes of carcinogenesis and the principles of primary and secondary prevention that have a clinical impact on oncological diseases. The fundamentals of surgical pathology and imaging techniques as well as the physical principles of radiation treatments and the basics of pharmacology must be acquired beforehand.

## **Teaching form**

Le lezioni verranno erogate in modalita? "in presenza" attraverso attività multidisciplinare anche con ausilio di casi clinici simulati.

## **Textbook and teaching resource**

DeVita, Hellman, and Rosenberg's Cancer : principles & practice of oncology ediz. 2023  
ed in formato elettronico:  
Linee guida AIOM 2023 per ogni patologia trattata  
Linee guida ESMO 2023  
Diapositive proiettate durante le lezioni

## **Semester**

Fifth year, II semester

## **Assessment method**

see general Syllabus of the Course

## **Office hours**

Only by appointment  
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## **Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

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