



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Oncology

2425-3-H4102D020-H4102D068M

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#### Aims

The student will learn:

- to correctly use the terms related to the main neoplastic diseases
- the tests, the correct diagnostic procedures and the guide lines for the treatment of the main cancers.
- the main mechanisms of action of antineoplastic drugs
- Learn the diagnostics to be used in precision medicine
- Participate in the simulated discussion of clinical cases in a multidisciplinary setting.

#### Contents

- Terminology, classes of drugs used in solid tumors, main side effects
- Early stage breast cancer
- NSCLC
- Colorectal cancer
- Melanoma.

#### Detailed program

- Terminology used in oncology, staging, RECIST criteria, classes of drugs with particular reference to molecular targeted therapies and side effects - didattica erogativa (lecture, 2 hours)
- Early stage breast cancer: therapeutic algorithm in the different subtypes, side effects of the main molecularly targeted drugs, the role of the multidisciplinary team, fertility preservation - didattica erogativa (2 hours, lecture with a pharmacologist), didattica interattiva ( 2 hours, with discussion of clinical cases)

peculiar for side effects and therapeutic decisions (oncologist + branch specialists) - interactive teaching (1 hour, presentation by the students of 1 research paper on one of the topics covered in the teaching + interactive teaching (1 hour, presentation by students of 1 research paper on one of the topics covered in the teaching teaching)

- NSCLC: the role of the oncologist in the multidisciplinary team, the role of the liquid biopsy, drugs used in oncogene-addicted and non-oncogene tumors, main side effects, the synergy with the radiotherapist and thoracic surgeon, multidisciplinary management in the advanced phase of the disease, the role of simultaneous care - delivery teaching (2 hours) + distance learning (1 hour, web participation in multidisciplinary discussion) + interactive teaching (1 hour, presentation by students of 1 research paper on one of the topics covered in the delivery teaching)
- Melanoma: therapeutic algorithm in the different subtypes, the side effects of the main molecularly targeted drugs, the role of the multidisciplinary team - didactics (2 hours, lecture with a pharmacologist)
- colorectal cancer: the role of the oncologist in the multidisciplinary team, drugs used in the metastatic phase of the disease, main side effects, synergy with the radiotherapist and abdominal surgeon - didactic teaching (2 hours) + distance learning (1 hour, web participation in multidisciplinary discussion) + interactive teaching (1 hour, presentation by students of 1 research paper on one of the topics covered in the didactics).

## **Prerequisites**

### **SKILLS:**

- identify the key elements in setting up a diagnostic path for individual pathologies
- acquisition of basic methodologies for reading data relating to practice-changing oncological studies.

## **Teaching form**

Lectures + learning materials; analysis and discussion of simulated and real clinical cases with definition of the work up; web participation in multidisciplinary meetings; teamwork.

## **Textbook and teaching resource**

DeVita, Hellman, and Rosenberg's Cancer : principles & practice of oncology ed. 2023 and in electronic format:  
AIOM 2023 guidelines for each pathology treated  
ESMO Guidelines 2023  
Slides used during the lessons.

## **Semester**

Second semester.

**Assessment method**

Oral examination integrated with the disciplines present in the vertical track.

**Office hours**

By appointment required by mail.

**Sustainable Development Goals**

GOOD HEALTH AND WELL-BEING

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