UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Oncology

2425-3-H4102D020-H4102D068M

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