UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Medical Oncology A

2526-5-H4101D333-H4101D219M

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) colo-rectal cancers
3) pleural mesothelioma,
4) early stage breast cancer,
5) skin cancers
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. Colorectal cancers: histopathological classification, therapeutic algorithm, and multidisciplinary evaluation in integrated treatments – instructional session (2-hour lecture with multidisciplinary contributions from abdominal surgeon and radiation oncologist).

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. Skin cancers: therapeutic algorithms based on stage and histological and biomolecular subtype – instructional session (2-hour lecture)

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

The lessons will be delivered in person through multidisciplinary activities, also supported by simulated clinical cases.

Textbook and teaching resource

DeVita, Hellman, and Rosenberg's Cancer: Principles & Practice of Oncology, 2024 edition

Available in electronic format:
AIOM 2024 guidelines for each pathology covered (AIOM website)
ESMO 2024 guidelines and updates (ESMO website)
Slides presented during the lectures

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