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## SCIENZE CLINICHE

6 CFU - 2° Semester

### Teaching Staff

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## LEARNING OBJECTIVES

### ▪ Diseases of the Elderly and Medical Oncology

Students will have to describe the main mechanisms underlying cancer pathogenesis and will have to define the appropriate procedures required for the diagnosis and treatment of the most common cancer diseases. Description of the current staging techniques will also be required, as well as the ability to outline the mechanisms of action, the clinical usefulness and the main toxicities of both conventional chemotherapeutic drugs and novel biological compounds. Critical emphasis will be dedicated to the clinical identification and the practical and therapeutical management of oncologic emergencies.

### ▪ Clinical Sciences - Blood Diseases I

Learning in thre field of haematological laboratory of neoplastic and no neoplastic diseases.

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## DETAILED COURSE CONTENT

### ▪ Diseases of the Elderly and Medical Oncology

## **Tumor Biology**

- Oncogenes and Tumor Suppressor Genes
- Stochastic Cancerogenesis and Cancer Stem Cells
- Proliferation, Angiogenesis, Tumor Heterogeneity and Metastasis

## **Epidemiology and Cancer Prevention**

- Incidence, Prevalence and Mortality Rates in Oncology
- Risk Factors for the Most Common Tumors
- Primary, Secondary and Tertiary Prevention
- Chemoprevention

## **Clinical Methodology in Oncology**

- Tumor Signs and Symptoms
- Tumor Classification and Staging
- Therapeutic Response Evaluation and Clinical Follow-up

## **Principles of Cancer Therapy**

- Principles of Cancer Surgery and Radiation Therapy
- Conventional Chemotherapeutic Drugs
- Routes of Drug Administration and Drug Dosage. Dose Intensity and Dose Density
- Neo-Adjuvant, Cytoreductive, Adjuvant Chemotherapy. Chemotherapy in the Metastatic setting
- Hormonal Therapy
- Targeted Therapies in Oncology and Modulators of the Immune Checkpoint Blockade
- Supportive and Palliative Cancer Care
- Major Side-Effects of Cancer Therapies
- Emergencies in Clinical Oncology

## **Treatment of the Most Common Forms of Cancer**

- Cancer of the Lung and the Pleural Cavity
  - Breast Cancer
  - Colon and Rectal Cancer
  - Prostate Cancer
  - Fundamentals in the Treatment of: Head and Neck Cancer, Cancers of the Esophagus, the Stomach and the Duodenum, Pancreatic Cancer, Cancers of the Genito-Urinary Tract, Soft Tissue Sarcomas, Neuro-Endocrine Tumors, Melanoma
- **Clinical Sciences - Blood Diseases I**  
Hematopoiesis physiopathology

Anemia Laboratory

Lymphoproliferative and myeloproliferative diseases laboratory

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## **TEXTBOOK INFORMATION**

### ▪ **Diseases of the Elderly and Medical Oncology**

1. A. R. Bianco, S. De Placido, G. Tortora - Core Curriculum: Oncologia Clinica - 2011 - McGraw-Hill
2. R. Labianca, S. Cascinu - La Medicina Oncologica - 2013 - Edra
3. John E. Niederhuber, MD, James O. Armitage, MD, James H Doroshow, MD, Michael B. Kastan, MD, PhD and Joel E. Tepper, MD - Abeloff's Clinical Oncology - 5th Edition

### ▪ **Clinical Sciences - Blood Diseases I**

1. Malattie del Sangue e dgeli Organi Emolinfopoietici - Sante Tura - Michele Baccarani, Società Editrice Esculapio
  2. Manuale di Malattie del Sangue . A. Bosi, V. De Stefano, F. Di Raimondo, G. La Nasa, Società Editrice Elsevier
  3. Ematologia Le Basi Fisiopatologiche Molecolari e Cliniche - Giuseppe Amadori, Società Editrice Piccin
  4. Manuale di Ematologia - Paolo Corradini - Robin Foà, Società Editrice Minerva Medica
  5. Malattie del Sangue e dgeli Organi Emolinfopoietici - Gianluigi Castoldi - Vincenzo Liso, Società Editrice McGrawHill
  6. Ematologia di Mandelli - Giuseppe Avvisati, Società Editrice Piccin
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