



# UNIVERSITÀ DEGLI STUDI DI PALERMO

<b>DEPARTMENT</b>	Biomedicina, Neuroscienze e Diagnostica avanzata		
<b>ACADEMIC YEAR</b>	2022/2023		
<b>MASTER'S DEGREE (MSC)</b>	MEDICINE AND SURGERY		
<b>INTEGRATED COURSE</b>	CLINICAL ONCOLOGY - INTEGRATED COURSE		
<b>CODE</b>	05403		
<b>MODULES</b>	Yes		
<b>NUMBER OF MODULES</b>	2		
<b>SCIENTIFIC SECTOR(S)</b>	MED/06, MED/18		
<b>HEAD PROFESSOR(S)</b>	PANTUSO GIANNI	Professore Ordinario	Univ. di PALERMO
	RUSSO ANTONIO	Professore Ordinario	Univ. di PALERMO
	GEBBIA VITTORIO	Professore Associato	Univ. di PALERMO
<b>OTHER PROFESSOR(S)</b>	PANTUSO GIANNI	Professore Ordinario	Univ. di PALERMO
	RUSSO ANTONIO	Professore Ordinario	Univ. di PALERMO
	GRACEFFA GIUSEPPA	Professore Associato	Univ. di PALERMO
	CIPOLLA CALOGERO	Professore Associato	Univ. di PALERMO
	GEBBIA VITTORIO	Professore Associato	Univ. di PALERMO
<b>CREDITS</b>	6		
<b>PROPAEDEUTICAL SUBJECTS</b>	17459 - SURGERY PROPAEDEUTICS AND SYSTEMATICS - INTEGRATED COURSE		
<b>MUTUALIZATION</b>			
<b>YEAR</b>	5		
<b>TERM (SEMESTER)</b>	2° semester		
<b>ATTENDANCE</b>	Mandatory		
<b>EVALUATION</b>	Out of 30		
<b>TEACHER OFFICE HOURS</b>	<p><b>CIPOLLA CALOGERO</b> Thursday 14:30 16:30 Chirurgia Generale ed Oncologica 09.07</p> <p><b>GEBBIA VITTORIO</b> Wednesday 15:00 16:00 La Maddalena Palermo</p> <p><b>GRACEFFA GIUSEPPA</b> Monday 13:00 14:00 Istituto di Chirurgia Generale ad Indirizzo Oncologico</p> <p><b>PANTUSO GIANNI</b> Monday 13:00 13:45 studio del Dipartimento di Oncologia</p> <p><b>RUSSO ANTONIO</b> Thursday 12:00 14:00 Policlinico P. Giaccone Palermo - Via del Vespro 129 - UOC Oncologia Medica - Piano terra - Prof. Antonio Russo</p>		

**DOCENTE:** Prof. ANTONIO RUSSO- Sede *CHIRONE*

<b>PREREQUISITES</b>	Concepts of pathological anatomy, classification and staging of tumors
<b>LEARNING OUTCOMES</b>	At the end of the course the student will: -know the theoretical principles of the clinical method and of evidence-based medicine - know properly how to perform a complete medical history, which also includes the social context in which the patient lives -know the GOM (Gruppo Oncologico Multidisciplinare) and the MTB (Molecular Tumor Board) - know precision oncology - know how to deal with the patient in the most varied environmental conditions, both elective and urgent - know how to perform a correct and complete physical examination of the patient, including both the general and systemic aspects and organs and systems -be able to approach patients who have the following signs and syndromes: digestive haemorrhage , acute abdominal pain, chest pain, jaundice, dyspnea, abnormal urination, urination and hive - know how to detect and interpret critically the main symptoms and signs, and identify the most correct and appropriate clinical diagnostic and instrumental path
<b>ASSESSMENT METHODS</b>	<a href="http://www.unipa.it/scuole/dimedicinaechirurgia/.content/documenti/Tabella-Valutazione-Inglese.pdf">http://www.unipa.it/scuole/dimedicinaechirurgia/.content/documenti/Tabella-Valutazione-Inglese.pdf</a>  Oral exam
<b>TEACHING METHODS</b>	Lectures

**DOCENTE:** Prof. GIANNI PANTUSO- Sede *IPPOCRATE*

<b>PREREQUISITES</b>	Notions of general surgery, anatomy, physiology and pathophysiology
<b>LEARNING OUTCOMES</b>	At the end of the course the student will: -know the theoretical principles of the clinical method and of evidence-based medicine - know properly how to perform a complete medical history, which also includes the social context in which the patient lives - know how to deal with the patient in the most varied environmental conditions, both elective and urgent - know how to perform a correct and complete physical examination of the patient, including both the general and systemic aspects and organs and systems -be able to approach patients who have the following signs and syndromes: digestive haemorrhage , acute abdominal pain, chest pain, jaundice, dyspnea, abnormal urination, urination and hive - know how to detect and interpret critically the main symptoms and signs, and identify the most correct and appropriate clinical diagnostic and instrumental path
<b>ASSESSMENT METHODS</b>	<a href="http://www.unipa.it/scuole/dimedicinaechirurgia/.content/documenti/Tabella-Valutazione-Inglese.pdf">http://www.unipa.it/scuole/dimedicinaechirurgia/.content/documenti/Tabella-Valutazione-Inglese.pdf</a>  Oral exam
<b>TEACHING METHODS</b>	Frontal lessons

**DOCENTE:** Prof. VITTORIO GEBBIA- Sede *HYPATIA*

<b>PREREQUISITES</b>	The formative goals of this course are aimed to give to participants the necessary knowledge in the field of cancer epidemiology, oncogenic risk factors and prognostic factors as well as diffusion fashion and clinical evolution of major human malignancies. Furthermore the course is aimed to mechanisms of action of anti-proliferative drugs and biologic agents, their clinical indications, toxicity and therapeutic efficacy. The major items are: Epidemiology and risk factors Primary and secondary prevention Chemo-prevention Cancer cell biology and resistant to anticancer agents Metastatic process Classes and mechanism of action of major drugs Toxicity Biologics Neo-adjuvant, adjuvant,palliative and curative phases Clinical experimentation Staging Response evaluation Follow-up Breast cancer Lung cancer Colorectal cancer Ovarian cancer Uterine cancers Prostatic cancer Testicular cancer Head and neck cancers Quality of life Neoplastic cachexia
<b>LEARNING OUTCOMES</b>	Knowledge of; Comprehension of; Abilities
<b>ASSESSMENT METHODS</b>	oral examination, seminar evaluation
<b>TEACHING METHODS</b>	lessons, webinars, seminars

**MODULE  
MEDICAL ONCOLOGY**

*Prof. ANTONIO RUSSO - Sede CHIRONE, - Sede CHIRONE, - Sede IPPOCRATE, - Sede IPPOCRATE*

**SUGGESTED BIBLIOGRAPHY**

Practical Medical Oncology Textbook - Editors: Antonio Russo, Marc Peeters, Lorena Incorvaia, Christian Rolfo  
Il testo è scaricabile e gratuito per chiunque abbia delle credenziali UNIPA.

DOI <https://doi.org/10.1007/978-3-030-56051-5>

Hardcover ISBN

978-3-030-56050-8

eBook ISBN

978-3-030-56051-5

<b>AMBIT</b>	50419-Clinica delle specialità medico-chirurgiche
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The student should be able to analyse and solve the problems facing the diagnostic and therapeutic procedure in the light of the principles of the medicine based on evidence

**SYLLABUS**

Hrs	Frontal teaching
2	Principles of epidemiology and screening of the most frequent cancers (breast cancer, colorectal cancer and lung cancer), risk factors and the natural history of cancer. Treatment plan and multidisciplinary approach (tumor staging, evaluation of therapeutic response). Clinical trials. The doctor-patient relationship in clinical oncology
2	Antiblastic principles of chemotherapy (concept of intensity of the dose, toxicity of anticancer drugs, drug resistance - Multi Drug Resistance, growth factors), immunotherapy and radiotherapy.
4	Biomarkers in medical oncology (risk, diagnostic, prognostic, predictive and surrogate). Liquid biopsy (CTC, ctDNA, cfDNA, microRNA, exosomes) vs tissue biopsy. Tumor-agnostic drugs.
4	Clinical presentation, diagnosis and therapy of gastrointestinal cancer (Esophagus and stomach, colon-rectum, liver and biliary tract, pancreas)
3	Clinical presentation, diagnosis and therapy of urogenital neoplasms in either the male or the female (Kidney, bladder, ovary, uterus, prostate and testis)
1	Clinical presentation, diagnosis and therapy of the neoplasms of the head and neck
3	Principles of oncogenetic counseling. Clinical presentation, diagnosis and therapy of main hereditary tumors (breast / ovarian, gastrointestinal, melanoma, pancreas, prostate)
3	Clinical presentation, diagnosis and therapy of chest wall tumors (lung, mesothelioma, breast), and paraneoplastic syndromes
1	Clinical presentation, diagnosis and therapy of skin cancer
2	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of gastrointestinal stromal tumors (GIST), sarcomas of soft tissue and bone in adults
1	Diet and cancer. Microbiota and microbiome
2	Multidisciplinary approach to cancer care. Principles of tumor board and molecular tumor board.
2	How to collect informed consent from the patient, diagnostic method and / or therapeutic. How to inform a patient (in simulated conditions) on benefits and adverse effects of chemotherapy. Set up a treatment plan

**MODULE  
SURGICAL ONCOLOGY**

*Prof. CALOGERO CIPOLLA - Sede CHIRONE, - Sede CHIRONE*

**SUGGESTED BIBLIOGRAPHY**

Latteri: Chirurgia oncologica e principi di oncologia Clinica. Edises Napoli  
De Vita: Oncologia. Piccin Editore  
Sabiston: Trattato di Chirurgia. Delfino Editore

<b>AMBIT</b>	50416-Clinica generale medica e chirurgica
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The module of Surgical Oncology aims to help the student to develop a method of reasoning and work based on scientific evidence and on the rational and critical use of information collected with the physical examination of the patient, with instrumental and laboratory methods and with literature data (traditional and IT update sources). The acquisition of the clinical method will allow the student to critically organize the basic knowledge already acquired and to apply it in the management of the cancer patient to address the diagnosis and decide on the most suitable treatments.

**SYLLABUS**

Hrs	Frontal teaching
2	Principles of epidemiology and screening of the main solid tumors (breast cancer and colon-rectal cancer), natura history of the main solid tumors.
2	Therapeutic planning and multidisciplinary approach to the main solid tumors
4	Principles of surgical therapy and interventional endoscopy in Clinical Oncology
5	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of the main tumors of the digestive system (liver and binary tract, pancreas)
2	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of the adrenal neoplasms
5	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of the main tumors of the digestive system (esophagus, stomach, colon and rectum)
4	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of thyroid and parathyroid neoplasms
4	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy breast neoplasms
2	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of GISTs, soft tissue sarcomas and bone neoplasm in the adult patients

**MODULE  
SURGICAL ONCOLOGY**

*Prof. GIANNI PANTUSO - Sede IPPOCRATE, - Sede IPPOCRATE*

**SUGGESTED BIBLIOGRAPHY**

M. A. Latteri "Chirurgia Oncologica e Principi di Oncologia Clinica" Ed. EdiSES

<b>AMBIT</b>	50416-Clinica generale medica e chirurgica
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The student should be able to analyse and solve the problems facing the diagnostic and therapeutic procedure in the light of the principles of the medicine based on evidence

**SYLLABUS**

Hrs	Frontal teaching
8	Principles of epidemiology and screening of the most frequent cancers (breast cancer, colon cancer and rectal cancer), the natural history of cancer - treatment plan and multidisciplinary approach (tumor staging, evaluation of therapeutic response) - Principles of surgery and interventional endoscopy in clinical oncology
22	Epidemiology, risk factors, natural history, clinical presentation, diagnosis and therapy of gastrointestinal cancer (Esophagus and stomach, colon-rectum, liver and biliary tract, pancreas) - neoplasms of the head and neck (thyroid, salivary glands) - main hereditary tumors (breast / ovarian, colorectal) - chest wall tumors (lung, mesothelioma, breast), and paraneoplastic syndromes - skin cancer - gastrointestinal stromal tumors (GIST), sarcomas of soft tissue and bone in adults

**MODULE  
MEDICAL ONCOLOGY**

*Prof. VITTORIO GEBBIA - Sede HYPATIA, - Sede HYPATIA*

**SUGGESTED BIBLIOGRAPHY**

saranno forniti in forma di dispensa durante le lezioni

<b>AMBIT</b>	50419-Clinica delle specialità medico-chirurgiche
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

**EDUCATIONAL OBJECTIVES OF THE MODULE**

The formative goals of this course are aimed to give to participants the necessary knowledge in the field of cancer epidemiology, oncogenic risk factors and prognostic factors as well as diffusion fashion and clinical evolution of major human malignancies. Furthermore the course is aimed to mechanisms of action of anti-proliferative drugs and biologic agents, their clinical indications, toxicity and therapeutic efficacy. The major items are: Epidemiology and risk factors Primary and secondary prevention Chemo-prevention Cancer cell biology and resistant to anticancer agents Metastatic process Classes and mechanism of action of major drugs Toxicity Biologics Neo-adjuvant, adjuvant, palliative and curative phases Clinical experimentation Staging Response evaluation Follow-up Breast cancer Lung cancer Colorectal cancer Ovarian cancer Uterine cancers Prostatic cancer Testicular cancer Head and neck cancers Quality of life Neoplastic cachexia

**SYLLABUS**

<b>Hrs</b>	<b>Frontal teaching</b>
36	medical oncology

## MODULE SURGICAL ONCOLOGY

*Prof.ssa GIUSEPPA GRACEFFA - Sede HYPATIA, - Sede HYPATIA*

### SUGGESTED BIBLIOGRAPHY

M. A. Latteri: Chirurgia Oncologica e principi di oncologia clinica. EdiSES, Napoli

R. Dionigi: Chirurgia. Elsevier Masson, Milano

Materiale didattico multimediale e cartaceo fornito dal docente

<b>AMBIT</b>	50416-Clinica generale medica e chirurgica
<b>INDIVIDUAL STUDY (Hrs)</b>	45
<b>COURSE ACTIVITY (Hrs)</b>	30

### EDUCATIONAL OBJECTIVES OF THE MODULE

The student must have specific expertise in the field of surgical oncology, with particular interest to the diagnosis and integrated treatment of cancer more frequent observation. **LEARNING EXPECTED RESULTS:** Knowledge and understanding At the end of the course the student will have built-in 'to be able to know and understand: -the mode of the growth and spread of solid tumors; -the main diagnostic tools for diagnosis, staging and prognosis of solid tumors -the scientific basis underlying the correct therapeutic planning (surgical, medical and integrated) of solid tumors during the various stages of the disease. Capacity to apply knowledge and understanding At the end of the course the student must know and understand: -what are the main surgical therapies (resective, radical, debulking, palliative, etc ..) and medical (chemotherapy, hormonal adjuvant and not) -what are the limits and the potential of the treatments currently available for the diagnosis and treatment of major solid tumors; -as set a differential diagnosis in front of a patient with a suspected solid malignancy Making judgments and enable communicativity The student must have specific expertise in the field of medical and surgical oncology. In addition, it must have accurate information about today's achievements in cancer research, with particular reference to the integrated diagnostic and therapeutic aspects of various cancers. They must know the new surgical approaches and the modern biological therapy chemotherapy, identifying a therapeutic diagnostic path in accordance with national and international guidelines. It must prove, finally, to have gained autonomy of judgment, based on knowledge of basic science cancer, and enable communication to enable it to deal with colleagues, other professionals in the health area, with patients and with relatives of patients. Learning capacity Acquisition of knowledge geared to the ability to continuing education in the field of oncological diseases. **DESCRIPTION OF EVALUATIONS METHODS (ECTS & Italian Grade):** A – Excellent (30-30 cum laude) Eccellente Excellent knowledge of teaching contents; students should show high analytical and synthetic capabilities and should be able to apply their knowledge to solve highly complex problems. B Very good (27-29) Ottimo Very good knowledge of the teaching contents and excellent language control; students should show analytical and synthetic skills and be able to apply their knowledge to solve problems of medium and, in some cases, even higher complexity. C Good (24- 26) Buono Good knowledge of teaching contents and good language control; the students should be able to apply their knowledge to solve problems of medium complexity D Satisfactory (21-23) Discreto Average knowledge of the teaching contents, in some cases limited to the main topic; acceptable ability to use the specific discipline language and independently apply the acquired knowledge. E Sufficient (18-20) Sufficiente Minimum teaching content knowledge, often limited to the main topic; modest ability to use the subject specific language and independently apply the acquired knowledge. F Fail Insufficiente Lack of an acceptable knowledge of the main teaching content knowledge; very little or no ability to use the specific subject language and apply independently the acquired knowledge.

## SYLLABUS

Hrs	Frontal teaching
2	Salivary glands neoplasms
2	Breast neoplasms
2	Thyroid neoplasms
2	Neoplasms of lung, pleura and mediastinum
2	Barrett esophagus and esophageal neoplasms
2	Gastric neoplasms
3	Gallbladder and biliary tree neoplasms
2	Primitive and secondary liver neoplasms
3	Neoplasms of esocrine pancreas and ampulla of Vater
2	Neoplasms of small intestine
3	Colorectal neoplasms
2	Retroperitoneal neoplasms
2	Neoplasms of male and female genital tract
1	Soft tissue neoplasms