



UNIVERSITÀ DEGLI STUDI DI PALERMO

DEPARTMENT	Biomedicina, Neuroscienze e Diagnostica avanzata		
ACADEMIC YEAR	2021/2022		
MASTER'S DEGREE (MSC)	MEDICINE AND SURGERY		
INTEGRATED COURSE	CLINICAL ONCOLOGY - INTEGRATED COURSE		
CODE	05403		
MODULES	Yes		
NUMBER OF MODULES	2		
SCIENTIFIC SECTOR(S)	MED/06, MED/18		
HEAD PROFESSOR(S)	PANTUSO GIANNI	Professore Ordinario	Univ. di PALERMO
	RUSSO ANTONIO	Professore Ordinario	Univ. di PALERMO
	GEBBIA VITTORIO	Professore Associato	Univ. di PALERMO
OTHER PROFESSOR(S)	PANTUSO GIANNI	Professore Ordinario	Univ. di PALERMO
	GERACI GIROLAMO	Professore Associato	Univ. di PALERMO
	RUSSO ANTONIO	Professore Ordinario	Univ. di PALERMO
	GEBBIA VITTORIO	Professore Associato	Univ. di PALERMO
CREDITS	6		
PROPAEDEUTICAL SUBJECTS	17459 - SURGERY PROPAEDEUTICS AND SYSTEMATICS - INTEGRATED COURSE		
MUTUALIZATION			
YEAR	5		
TERM (SEMESTER)	2° semester		
ATTENDANCE	Mandatory		
EVALUATION	Out of 30		
TEACHER OFFICE HOURS	<p>GEBBIA VITTORIO Wednesday 15:00 16:00 La Maddalena Palermo</p> <p>GERACI GIROLAMO Tuesday 14:00 16:00 Ufficio del Docente c/o Segreteria della U.O.C. di Chirurgia Generale e Toracica (piano terra del Dipartimento di Chirurgia Generale e d'Urgenza in via Liborio Giuffrè n. 5) Thursday 14:00 16:00 Ufficio del Docente c/o Segreteria della U.O.C. di Chirurgia Generale e Toracica (piano terra del Dipartimento di Chirurgia Generale e d'Urgenza in via Liborio Giuffrè n. 5)</p> <p>PANTUSO GIANNI Monday 13:00 13:45 studio del Dipartimento di Oncologia</p> <p>RUSSO ANTONIO Thursday 12:00 14:00 Policlinico P. Giaccone Palermo - Via del Vespro 129 - UOC Oncologia Medica - Piano terra - Prof. Antonio Russo</p>		

DOCENTE: Prof. GIANNI PANTUSO- Sede *IPPOCRATE*

PREREQUISITES	Notions of general surgery, anatomy, physiology and pathophysiology
LEARNING OUTCOMES	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
ASSESSMENT METHODS	http://www.unipa.it/scuole/dimedicinaechirurgia/.content/documenti/Tabella-Valutazione-Inglese.pdf Oral exam
TEACHING METHODS	Frontal lessons

DOCENTE: Prof. VITTORIO GEBBIA- Sede *HYPATIA*

PREREQUISITES	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
LEARNING OUTCOMES	Knowledge of; Comprehension of; Abilities
ASSESSMENT METHODS	oral examination, seminar evaluation
TEACHING METHODS	lessons, webinars, seminars

**MODULE
MEDICAL ONCOLOGY**

Prof. ANTONIO RUSSO - Sede CHIRONE, - Sede CHIRONE

SUGGESTED BIBLIOGRAPHY

F. Ciardiello [et al.] "Oncologia medica" Ed. Idelson – Gnocchi 2013
 A. R. Bianco "Manuale di Oncologia Clinica" 4° Ed. Mc Graw & Hill
 G. Bonadonna ed al. "Medicina Oncologica" 8° Ed. Elsevier Masson
 M. Lopez Oncologia Medica Pratica 2° Ed. SEU – linee guida AIOM

AMBIT	50419-Clinica delle specialità medico-chirurgiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	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. Multidisciplinary approach to cancer care
5	Biomarkers in medical oncology (risk, diagnostic, prognostic, predictive and surrogate). Liquid biopsy (CTC, ctDNA, cfDNA, microRNA, exosomes) vs tissue biopsy. Principles of tumor board and molecular tumor board.
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)
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
2	Diet and cancer. Microbiota and microbiome
1	Diet and cancer. microbiome
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
Hrs	Practice
5	Outpatient services
4	clinical trials

**MODULE
MEDICAL ONCOLOGY**

Prof. ANTONIO RUSSO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

F. Ciardiello [et al.] "Oncologia medica" Ed. Idelson – Gnocchi 2013
 A. R. Bianco "Manuale di Oncologia Clinica" 4° Ed. Mc Graw & Hill
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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. Multidisciplinary approach to cancer care
5	Biomarkers in medical oncology (risk, diagnostic, prognostic, predictive and surrogate). Liquid biopsy (CTC, ctDNA, cfDNA, microRNA, exosomes) vs tissue biopsy. Principles of tumor board and molecular tumor board and 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)
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2	Diet and cancer. Microbiota and microbiome
1	Diet and cancer. microbiome
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
Hrs	Practice
5	Outpatient services
4	clinical trials

**MODULE
SURGICAL ONCOLOGY**

Prof. GIANNI PANTUSO - Sede IPPOCRATE, - Sede IPPOCRATE

SUGGESTED BIBLIOGRAPHY

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

AMBIT	50416-Clinica generale medica e chirurgica
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	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 SURGICAL ONCOLOGY

Prof. GIROLAMO GERACI - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY

R. Dionigi: Chirurgia. Elsevier Masson, Milano
U. Veronesi. Chirurgia Oncologica. Masson
Materiale didattico multimediale e cartaceo fornito dal docente

AMBIT	50416-Clinica generale medica e chirurgica
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	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 – 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
1	Salivary glands neoplasms
1	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
1	Liver metastasis and peritoneal carcinomatosis
2	Neoplasms of male and female genital tract
2	Soft tissue neoplasms

**MODULE
MEDICAL ONCOLOGY**

Prof. VITTORIO GEBBIA - Sede HYPATIA, - Sede HYPATIA

SUGGESTED BIBLIOGRAPHY

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AMBIT	50419-Clinica delle specialità medico-chirurgiche
INDIVIDUAL STUDY (Hrs)	45
COURSE ACTIVITY (Hrs)	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

Hrs	Frontal teaching
36	medical oncology