



SUBJECT OUTLINE

1. Programme of study description

1.1.	"CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	FACULTY OF MEDICINE / CLINICAL DEPARTMENT 8
1.3.	Discipline of Oncological Radiotherapy and Medical Imaging
1.4.	DOMAIN OF STUDY: Healthcare – regulated sector within the EU
1.5.	CYCLE OF STUDIES: BACHELOR'S DEGREE
1.6.	PROGRAMME OF STUDY: MEDICINE

2. Subject description

2.1.	Name of the subject/compulsory subject/elective subject within the discipline: ONCOLOGY AND PALLIATIVE CARE						
2.2.	Location of the discipline: :						
2.3.	Course coordinator: :						
2.4.							
2.5. Year of study	IV	2.6. Semester	II	2.7. Type of assessment	Written exam and practical exam	2.8. Subject classification	mandatory

3. Total estimated time (hours/semester of didactic activity) – teaching module

Number of hours per week	5	Out of which: course	2	Clinical rotation	3
Total number of hours from curriculum	40	Out of which: course	16	Clinical rotation	24
Distribution of allotted time	8 weeks				Hours
Study from textbooks, courses, bibliography, and student notes					
Additional library study, study on specialized online platforms and field study					
Preparing seminars / laboratories, assignments, reports, portfolios and essays					
Tutoring					
Examinations					
Other activities					
Total hours of individual study					
Number of credit points					2

4. Prerequisites (where applicable)

4.1. of curriculum	Anatomy, Physiology, Pathophysiology, Pharmacology, Medical Semiology, Surgical Semiology, Pathological Anatomy
4.2. of competencies	Anamnesis / General clinical examination of the patient

5. Requirements (where applicable)



5.1. for delivering the course	Lecture room, video projector, laptop / PC
5.2. for delivering the clinical rotation	The clinical departments of Medical Oncology, Radiotherapy, Oncopediatrics, Radiotherapy Laboratory - Coltea Clinical Hospital, Bucharest

6. Acquired specific competencies

Professional competencies (expressed through knowledge and skills)	<ul style="list-style-type: none">- Description of the concepts, theories, and fundamental notions regarding the production of oncological diseases; signs and symptom characteristics of the malignant disease used for guiding the diagnosis in oncology- Description of the main therapeutic methods (chemotherapy, molecular targeted therapies, hormone therapy, immunotherapy, other systemic therapies, radiotherapy) used in oncology; the indications, contraindications and adverse effects of the therapeutic resources used in medical practice, as well as the principles of association between treatment types- The correct assessment of the risk of illness or the context of the occurrence of an illness, followed by the choice and application of appropriate measures of primary prophylaxis, detection, screening in oncology.- Notions of oncological diseases in children- Clinical examination of the oncological patient- Principles of diagnosis in oncology- Interpretation of the results of paraclinical explorations- Performing specific diagnostic and therapeutic maneuvers- Notions of diagnosis and treatment of oncological emergencies- Notions of palliative care in oncology- Evaluation of the response to treatment and post therapeutic monitoring of the oncological patient- Initiating and conducting a scientific research activity in oncologists
Transversal competencies (of role, of professional and personal development)	<ul style="list-style-type: none">- • Applying the acquired knowledge to establish a correct, complete and early diagnosis- • Identifying the objectives to be achieved depending on the stage of the disease, of the resources available for diagnosis and treatment- • Identification of roles and responsibilities in a multidisciplinary team, the application of communication techniques and effective work within the team and in relation to the patient- • Effective use of information sources and communication resources and assisted professional training (Internet portals, specialized software applications, databases, online courses, etc.) both in Romanian and in an international language



	<ul style="list-style-type: none"> - • Communication with the relatives and the patient suffering from a malignant disease - • The approach of the terminal patient and his family
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7. Subject learning objectives (based on the scale of acquired specific competencies)

7.1. General learning objective	<p>Identifying the state of illness, the degree of medical urgency, as well as establishing the correct diagnosis of oncological conditions. Familiarization of the student with the specific pathology of the oncological patient (clinical aspect, paraclinical and multidisciplinary approach, principles of diagnosis and treatment, particularities of the care of the oncological patient)</p> <p>Cultivating the principles of medical ethics in oncology. Cultivating the principles of teamwork.</p> <p>At the end of the course, the student must know the principles of epidemiology, diagnosis, treatment, post-therapeutic follow-up for the main oncological diseases, including aspects related to palliative care for oncological patients.</p>
7.2. Specific learning objectives	<p>Anamnesis and clinical examination specific to the oncological patient. Identification of oncological emergencies. Development and application of a therapeutic plan appropriate to the identified oncological disease and the stage of the disease, including palliative and terminal patient treatment.</p> <p>Application of individual and collective preventive measures. Establishing a good and efficient communication relationship between doctor and patient in oncological pathology; the development of the doctor-patient relationship, doctor-relatives relationship in terms of communication, in the context of the disease.</p> <p>At the end of the course, the student must be able to examine patients with oncological conditions and interpret specific clinical and paraclinical data</p>

8. Content

8.1. Course	Teaching methods	Observations
Course 1 Carcinogenesis; Genetic factors in cancer	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 2 Descriptive and analytical epidemiology of cancer. Risk factors for cancer	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 3 Prognostic factors in cancer	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 4 Principles and methods of diagnosis in cancer	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 5 Prevention and early detection in cancer	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 6 Stage classification in cancer	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 7 Emergencies in oncology	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 8 The basics of	Direct exposure of electronic support	1 hour



chemotherapy and hormone therapy	(Power Point presentation)	
Course 9 Biological therapy in cancer	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 10 The basics of radiotherapy	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 11 Pediatric oncology	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 12 Clinical studies in oncology and evaluation of therapeutic results	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 13 Palliative treatment in cancer. Pain in cancer	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 14 Palliative treatment in cancer. Dyspnea, occlusion and other aspects of palliative care.	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 15 Psychological and psychosomatic disorders in oncological patients	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 16 Breast cancer - principles of diagnosis and treatment	Direct exposure of electronic support (Power Point presentation)	1 hour
Course 16 Bronchopulmonary cancer – diagnostic principles and treatment	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 17 Colorectal and gastric cancer - diagnostic principles and treatment	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 18 Cervical cancer - course	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 19 Cancer of the ENT sphere - course	Direct exposure of electronic support (Power Point presentation)	0.5 hours
Course 20 Prostate cancer - course	Direct exposure of electronic support (Power Point presentation)	0.5 hours

8.2. Clinical rotation	Teaching methods	Observations
Direct exposure to clinical cases from the Oncology Clinic	Direct interaction with patients / medical history / Patient clinical examination / Evaluation of laboratory samples/ Recognition of oncological conditions based on specific investigations	16 hours
Presentation of modern study tools in oncological diseases	Case presentations, practical implications	5 hours
Presentation of modern therapeutic and diagnostic tools	Demonstrations, film presentations	3 hours

Bibliography for course and clinical rotation

Course and clinical rotation bibliography

1. General oncology - Carol Davilla University Publishing House Bucharest, 2019 - under the coordination of Prof. Dr. Rodica Anghel



2. Compendium of medical-surgical specialties for residency under the editorship of Victor Stoica and Viorel Scripcaru – Medical Publishing House 2016
3. General oncology - Nicolae Ghilezan, 1992
4. Prof. James Brierley - TNM Classification of Malignant Tumours Eight Edition - 2017
5. Cancer Principles & Practice of Oncology – Vincent de Vita et al – Lippincott Williams & Wilkins 11th edition 2019
6. The Bethesda Handbook of Clinical Oncology – Fourth edition – by Jame Abraham, James L. Gulley MD PhD FACP, Carmen J. Allegra MD – 2018
7. Manual of Clinical Oncology (Lippincott Manual) Seventh Edition By Bartosz Chmielowski and Mary Territo – 2018
8. Adam Feather, David Randall, Mona Waterhouse; Krumar and Clark Clinical Medicine, Leonard Azamfirei, Anca Dana Buzoianu, Dan Ionut Gheoanea - coordinators of the edition in Romanian, Ed. a10a, Ed. Hipocrate, Bucharest 2021
9. Peter Lawrence: General surgery and surgical specialties, Octavian Cretu, Viorel Jinga, Viorel Scripcariu- coordinators of the edition in Romanian, Ed. A6a, Ed. Hipocrate Bucharest, 2021
10. Radioterapie Oncologica ed 1 – Nicolae Verga- Editura Universitara "Carol Davila" 2009
11. Latha Ganti, David Lebowitz, Javier Rosario, Ariel Vera: Synopsis of medicine, Cristina Oana Marginean, Catalina Poiana- coordinators of the edition in Romanian, ed.a5a, Ed. Hippocrates, 2021

9. Corroboration of the subject content with the expectations of the representatives of the epistemic community, professional associations, and major employers in the field of the programme of study

The appropriate training at the end of the oncology module ensures the prerequisites for admission to the residency program and the development of a successful medical activity. The professional training of the 4th year student at the Oncology Discipline of the Coltea Clinical Hospital, Bucharest aims at: the correct, complete and early diagnosis correlated with an appropriate therapeutic scheme, an effective communication relationship with the patient and his family and preparation for the future doctor in order to have a good/adequate professional communication with the future employer

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Theoretical knowledge of the subject	Written exam	60
	Activity during the clinical internship	Conditional on the presence/discussions with the group assistant	10
Clinical rotation	- diagnostic guidelines for a patient with an oncological disease (anamnesis, objective examination, investigation plan); forms of diagnosis; principles of treatment Presentation. for emergency presentation or treatment presentation. - interpretation of analysis reports, anatomo-pathological results	Practical examination with of the group assistant / teacher	30



The "Carol Davila" University of Medicine and Pharmacy Bucharest
The Quality Assurance Commission

Minimum performance standard

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| <ul style="list-style-type: none">• Minimum 50% in each component of the assessment |
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20.10.2022

Date of approval in the
Council of the Department: