



**Syllabus of the discipline «Oncology»
Individual profile elective course: «Therapy»**

1. General information	
Faculty	General medicine
Educational program (branch, speciality, level of higher education, form of education)	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time
Academic year	2021/2022
Name of discipline, code (<i>e-mail address on the website of Danylo Halytsky Lviv National Medical University</i>)	Oncology, OK 43 (kaf_oncology_fpge@meduniv.lviv.ua)
Department (<i>name, address, phone, e-mail</i>)	Department of oncology and radiology FPGE, 79031 Lviv city, Hascheka str., 2a, phone: +38 (032) 295-37-70, e-mail: kaf_oncology_fpge@meduniv.lviv.ua
Acting Head of the department (<i>contact e-mail</i>)	Volod'ko Natalia Antonivna, doctor of medical sciences, professor, e-mail: kaf_oncology_fpge@meduniv.lviv.ua
Year of study (<i>year in which study is implemented</i>)	6 course
Semester (<i>semester in which discipline is implemented</i>)	11/12 semester
Type of discipline/module (<i>compulsory/optional</i>)	compulsory discipline
Lecturers (<i>names, surnames, scientific degrees and titles of lecturers, who teach the discipline, contact e-mail</i>)	Volod'ko Natalia Antonivna, doctor of medical sciences, professor, surgeon-oncologist of the highest qualification category; Bilynskyi Borys Tarasovych, doctor of medical sciences, honored professor, surgeon-oncologist of the highest qualification category, academic of National academy of higher educational sciences of Ukraine; Sterniuk Yurii Marjanovych, doctor of medical sciences, honored professor, surgeon-oncologist of the highest qualification category, head lecturer for students; Lukavetskyi Nazar Oleksijovych, PhD, docent, surgeon-oncologist of the highest qualification category, responsible for scientific work; Yarema Roman Romanovych, PhD, docent, surgeon-oncologist of the first qualification category, responsible for internship; Mryglotskyi Marian Mychajlovich, PhD, surgeon-oncologist, assistant Dutchak Uliana Myroslavivna, PhD, radiologist, docent; Kowalskyi Vasyl Volodymyrovych, PhD, surgeon-oncologist of the highest qualification category, assistant; Revura Andrii Petrovych, PhD, surgeon-oncologist, assistant; Prystash Yurii Yuriyovych, surgeon-oncologist of the first qualification category, assistant;

	Slipetsky Roman Rostyslavovych, surgeon-oncologist of the second qualification category, assistant Fetsych Markiian Tarasovych, surgeon-oncologist, assistant e-mail: kaf_oncology_fpge@meduniv.lviv.ua
Erasmus yes/no (<i>availability of the discipline for students within the Erasmus+ program</i>)	no
Person, responsible for the syllabus (<i>the person to whom comments on the syllabus should be made, contact e-mail</i>)	Volod'ko Natalia Antonivna, doctor of medical sciences, professor, e-mail: kaf_oncology_fpge@meduniv.lviv.ua
ECTS credits	1
Number of hours (<i>lectures/ practical classes/ self-work of students</i>)	Lectures – practical classes – 18 hours self-work of students – 12 hours
Language of study	Ukrainian
Information about consultations	provided
Address, phone and schedule of work of clinical base, office (<i>in case of need</i>)	79031 Lviv city, Hascheka str., 2a.
2. Short annotation to course	
<p>The program “Oncology” is designed to train specialists of the second (master’s) level of higher education in the field of knowledge 22 “Healthcare”, specialty 222 “Medicine”, individual profile elective course “Therapy”. The program offers a review of basic information on general and clinical oncology. In general oncology, the basic principles of diagnosis of malignant tumors and the basic principles of their treatment are considered. Among the issues of clinical oncology are tumors of the digestive tract, tumors of the respiratory system, breast and thyroid gland, skin tumors, tumors of the genitals and urinary organs. The program is designed for 30 teaching hours / 1.0 credits.</p>	
General characteristics, brief description of the course, features, benefits	
3. The purpose and objectives of the course	
<ol style="list-style-type: none"> 1. The purpose of teaching the discipline "ONCOLOGY" (the ultimate goal) is to prepare a master's degree in the specialty. The description of goals is formulated through skills in the form of target tasks (actions). Based on the ultimate goals of the module, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of studying the discipline. 2. Purposes of study: <ul style="list-style-type: none"> • determine the tactics of examination of the patient in case of suspicion of a malignant tumor; • interpret the results of special research methods; • determine the general tactics of treatment for the most common cancers; • demonstrate the ability to maintain medical records; • demonstrate mastery of the principles of oncological deontology. 3. Competences and learning outcomes, the formation of which provides the study of discipline (general and special competencies): <ul style="list-style-type: none"> -general: <ul style="list-style-type: none"> • ability to act socially responsibly and civically consciously • ability to apply knowledge in practical situations; • ability to abstract thinking, analysis and synthesis. ; • ability to communicate in the native language orally and in writing; • ability to communicate with representatives of other professions -special (professional, subject): 	

- determine the tactics of monitoring and management of the patient in case of suspicion of malignancy;
- interpret the results of special research methods;
- formulate a preliminary clinical diagnosis of major cancers;
- formulate general treatment tactics;
- demonstrate the ability to keep medical records in an oncology clinic;
- demonstrate mastery of the principles of oncological deontology.

4. Course details

Information on the disciplines, basic knowledge and learning outcomes required by the student (enrolled) for successful study and acquisition of competencies in this discipline:

1. anatomy,
2. histology,
3. pathological anatomy,
4. otolaryngology,
5. dentistry,
6. surgery,
7. dermatology,
8. therapy,
9. radiation therapy,
10. endocrinology,
11. gynecology,
12. urology

5. Program results of education

List of education results

Code of education results	The content of learning outcome	Reference to the competency matrix code
<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i>	to create in the student a modern principles of tumor growth give information about the etiology of tumor growth the concept of carcinogens present current information on carcinogenesis to state the basic principles of diagnostics of tumor to state the basic principles of treatment of tumor	<i>PR1</i>
<i>Ab-1</i> <i>Ab-2</i> <i>Ab-3</i> <i>Ab-4</i>	to substantiate the diagnosis, to carry out differential diagnostics, to make the detailed plan of treatment and rehabilitation of the concrete patient (taking into account age, concomitant diseases), be able to provide emergency care	<i>PR-2</i>
<i>C-1</i> <i>C-2</i>	to carry out professional activity in social interaction based on humanistic and ethical principles; to carry out professional activity in social interaction based on humanistic and ethical principles;	<i>PR-3</i>
<i>AB-1</i> <i>AB-2</i>	demonstrate the ability of independent search, analysis and synthesis; argue information for decision-making, be responsible for them in standard and non-	<i>PR-4</i>

<i>AB-3</i>	standard professional situations, adhere to the principles of deontology and ethics in professional activities			
6. Format and volume of course				
Course format (specify full-time or part-time)	<i>Full-time</i>			
Type of lessons	Number of hours	Number of groups		
lectures	-			
practical classes	18			
seminars	-			
self-work	12			
7. Topics and content of the course				
Code of the type of lessons	Theme	Content of education	Code of education results	Lecturer
P-1	Oncologic alertness. Carcinogenesis. Cancer screening	conduct surveys and physical examinations of patients, determine the tactics of examination and management of the patient in case of suspicion of malignancy, interpret the results of special research methods, formulate a preliminary clinical diagnosis in case of cancer, determine the tactics of cancer patients, demonstrate medical records	Ab-1 Ab-2 Ab-3 Ab-4 C-1 C-2	According to schedule
P-2	Problem of pain in oncology, treatment of chronic pain. Treatment of complicated forms of cancer. Emergency therapy in oncology	conduct surveys and physical examinations of patients, determine the tactics of examination and management of the patient in case of suspicion of malignancy, interpret the results of special research methods, formulate a preliminary clinical diagnosis in case of cancer, determine the tactics of cancer patients, demonstrate medical records	Ab-1 Ab-2 Ab-3 Ab-4 C-1 C-2	According to schedule

P-3	Palliative and symptomatic treatment in oncology. Methods of rehabilitation	conduct surveys and physical examinations of patients, determine the tactics of examination and management of the patient in case of suspicion of malignancy, interpret the results of special research methods, formulate a preliminary clinical diagnosis in case of cancer, determine the tactics of cancer patients, demonstrate medical records	Ab-1 Ab-2 Ab-3 Ab-4 <i>C-1</i> <i>C-2</i>	According to schedule
SWS-1	Statistics of cancer. Intensive and extensive rates in oncology	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i>	
SWS-2	High-risk groups in oncology. Cancer screening	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i>	
SWS-3	Types of surgical operations	Independent extracurricular work of students precedes their independent work in practical classes and involves their	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i>	

		preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>C-1</i> <i>C-2</i>	
SWS-4	Treatment of complicated forms of cancer. Emergency care	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i>	
SWS-5	Rehabilitation treatment of oncological patients	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i>	
SWS-6	Palliative care. The role of hospice in providing care of oncological patients	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by guidelines, and also includes the supervision of patients with writing a medical history and preparation for the final control of the module.	<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i>	

The following teaching methods are used in the process of studying the discipline "Oncology":

- by type of cognitive activity: explanatory-illustrative, analytical, synthetic, inductive, deductive;
- according to the main stages of the process: formation of knowledge, application of knowledge, generalization, formation of abilities and skills, consolidation, verification;
- system approach: stimulation and motivation, control and self-control;
- by sources of knowledge: verbal - story, conversation, visual - demonstration, illustration.

8. Verification of learning outcomes

Current control

is carried out during training sessions and aims to check the assimilation of students of educational material (it is necessary to describe the forms of current control during training sessions). Forms of assessment of current educational activities should be standardized and include control of theoretical and practical training. The final grade for the current educational activity is set on a 4-point (national) scale

Code of education results	Code of the type of lessons	Method of verifying learning outcomes	Enrollment criteria
<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i> <i>C-2</i> <i>AB-1</i> <i>AB-2</i> <i>AB-3</i> <i>Ab-1</i> <i>Ab-2</i> <i>Ab-3</i> <i>Ab-4</i>	<i>P-1</i> <i>P-2</i> <i>P-3</i>	- individual oral examination on theoretical issues that are included in the methodological developments on relevant topics; - test tasks; - solving situational problems; - ability to recognize specific nosological forms of cancer;	the student has deeply and perfectly mastered the theoretical material, can determine the etiology, pathogenesis, clinical features and variants of the disease in specific patients, substantiates the diagnosis, makes a differential diagnosis, makes a detailed plan of treatment and rehabilitation of a particular patient (taking into account age, comorbidities). emergency care, has in-depth knowledge of the principles of diagnosis and treatment, independently, competently and consistently, with complete completeness, using data from additional literature, answered all questions with the ability to diagnose specific nosological forms, solved situational problems.
<i>Kn-1</i> <i>Kn-2</i> <i>Kn-3</i> <i>Kn-4</i> <i>Kn-5</i> <i>Kn-6</i> <i>C-1</i>	SWS-1 SWS -2 SWS -3 SWS -4 SWS -5 SWS -6	- registration of disease history protocols	the student conducted a complete clinical examination of the patient, described its results, correctly assessed the general condition of the patient, clinical changes in

C-2			the organs and systems, the results of laboratory and functional methods of examination, correctly determined the clinical diagnosis according to the classification of diseases, prescribed complete and correct treatment, correctly determined the prognosis and means of its prevention. The student is acquainted with the additional literature and correctly used it in writing a differential diagnosis, therapy, epicrisis. Demonstrated the skills of logical clinical thinking.
Final control			
General evaluation system	Participation in the work during the semester on a 200-point scale		
Evaluation scale	Traditional 4-point scale, multi-point (200-point) scale, ECTS rating scale		
Conditions of admission to the final control	The student attended all practical (laboratory, seminar) classes and received at least 120 points for current performance		
Type of final control	Methods of final control	Criteria	
Credit "Zalik"	All topics submitted for current control must be included. Grades from the 4-point scale are converted into points on a multi-point (200-point) scale in accordance with the Regulation "Criteria, rules and procedures for evaluating the results of students' learning activities"	<i>The maximum number of points is 200.</i> <i>The minimum number of points is 120</i>	
<p>The calculation of the number of points is based on the grades obtained by the student on a 4-point (national) scale during the study of the discipline, by calculating the arithmetic mean (AM), rounded to two decimal places. The resulting value is converted into points on a multi-point scale as follows:</p> $x = \frac{AM \times 120}{5}$			
9. Policies of course			
<i>Indicates policies of academic integrity, program-specific policies relevant to the course</i>			
10. Literature			
<p>Required:</p> <ol style="list-style-type: none"> Білінський Б. Т. Медичні помилки в онкології. Львів: Афіша, 2013. – 324 с. Онкологія: підручник. – 3-тє видання, перероб. і доп. / Б. Т. Білінський, Н. А. Володько, А. І. Гнатишак та ін. За ред. проф. Б. Т. Білінського. – К.: Здоров'я, 2007. – 532 с. Онкологія. Вибрані лекції для студентів і лікарів / За ред. В.Ф. Чехуна. – Київ: Здоров'я України, 2010. – 768 с. Онкологія: навчальний посібник для студентів вищих медичних навчальних закладів ІV рівня акредитації та лікарів-інтернів / І. Б. Щепотін та ін.; за ред. проф. І. Б. Щепотіна. - Київ : МОРІОН, 2015. – 383 с. 			

5. Онкологія: підручник / Г. В. Бондар, Ю. В. Думанський, О. Ю. Попович та ін. – К.: ВСВ «Медицина», 2013. – 544 с.
6. Савран В.Р. Рак молочної залози.- Львів. -2019. – 219 с.
7. CancerMedicine – вільний доступ на www.ncbi.nih.gov (далі – EnterPubMed, далі – SearchBooks – CancerMedicine).
8. Vincent T. Devita, Jr. Samuel Hellman, Steven A. Rosenberg. CANCER. Principles and practice of Oncology. 6th Edition./ CD-R/ Available at: <http://www.lwwoncology.com/Textbook/Toc.aspx?id=11000>

Additional:

1. Радіологія (Променева діагностика та променева терапія.) / За заг. ред. М. М. Ткаченка. К.: Книга плюс, 2011. – 719 с.
2. Савран В. Р. Рак молочної залози: підручник з онкології. Львів, 2019. – 222 с.
3. TNM-класифікація, 7-ме видання. Фецич Т. Г., Сліпечкий Р. Р. / за загальною редакцією д.м.н., проф.. Фецича Т. Г. – 2014. – 169 с.

11. Equipment, material and technical software of discipline/ course

Tables, diagrams, models, slide projector, multimedia projector, Misa distance learning platform

12. Additional information

Link of the department website: <https://new.meduniv.lviv.ua/kafedry/kafedra-onkologiyi-i-radiologiyi-fpdo/>

Heads of the scientific circle of the department: as. Mryglotskyi M.M., as. Slipetsky R.R.

Compilers of syllabus

Volod'ko N.A., MD, professor

(Signature)

Acting head of department

Volod'ko N.A., MD, professor

(Signature)