

Syllabus of the discipline «Oncology»

1. General information			
Faculty	General medicine		
Educational program (branch,	22 Healthcare, 222 Medicine, second (master's) level of higher education, full-time		
speciality, level of higher education, form of education)			
Academic year	2021/2022		
Name of discipline, code (<i>e-mail</i>	Oncology, OK 43 (kaf_oncology_fpge@meduniv.lviv.ua)		
address on the website of Danylo Halytsky Lviv National Medical University)	Oncology, OK 45 (kal_oncology_ipge@incdumv.iviv.ua)		
Department	Department of oncology and radiology FPGE, 79031		
(name, address, phone, e-mail)	Lviv city, Hascheka str., 2a, phone: +38 (032) 295-37-70, e-mail: kaf_oncology_fpge@meduniv.lviv.ua		
Acting Head of the department	Volod'ko Natalia Antonivna, doctor of medical sciences,		
(contact e-mail)	professor, e-mail: kaf_oncology_fpge@meduniv.lviv.ua		
Year of study (year in which study is implemented)	5 course		
Semester (<i>semester in which discipline is implemented</i>)	9/10 semester		
Type of discipline/module (compulsory/optional)	compulsory discipline		
Lecturers (names, surnames, scientific degrees and titles of lecturers, who teach the discipline, contact e-mail)	Volod'ko Natalia Antonivna, doctor of medical sciences, professor, surgeon-oncologist of the highest qualification category; Bilynskyy 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, 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; Prystash Yurii Yurijovych, 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 (availability of	no
the discipline for students within	
the Erasmus+ program)	
Person, responsible for the	Sterniuk Yurii Marjanovych, doctor of medical sciences,
syllabus (the person to whom	professor, (kaf_oncology_fpge@meduniv.lviv.ua)
comments on the syllabus should	
be made, contact e-mail)	
ECTS credits	3
Number of hours (<i>lectures</i> /	Lectures – 10 hours
practical classes/ self-work of	practical classes – 40 hours
students)	self-work of students – 40 hours
Language of study	English
Information about consultations	provided
Address, phone and schedule of	79031 Lviv city, Hascheka str., 2a.
work of clinical base, office (in	
case of need)	
	2 Short approtation to course

2. Short annotation to course

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". 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 90 teaching hours / 3 credits

General characteristics, brief description of the course, features, benefits

3. The purpose and objectives of the course

- 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:
 - 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.
- Competences and learning outcomes, the formation of which provides the study of discipline (general and special competencies):
 -general:
 - 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

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

AB-2		-	s and synthesis; nformation for decision-mal	ting, be	
		responsible for them in standard and non-			
		standard professional situations,			
			to the principles of deontolo	oov and	
AB-3			n professional activities	,gj und	
MD-5			n protessional activities		
			mat and volume of course		
Course format		Full-tin	ne		
(specify full-ti	me or part-				
time)					
	of lessons		Number of hours		Number of groups
lectures			10		
practical class	es		40		
seminars			-		
self-work			40		
		7. Topi	cs and content of the cours	e	
Code of the	Theme		Content of education	Code of	Lecturer
type of				education	
lessons				results	
L-1	Malignant tume	ors.	Definition of "tumor".	Kn-1	According to
	Epidemiology.		Apoptosis. Benign and	Kn-2	schedule
	Organization of	f	malignant tumors.		
	oncological car		Epidemiology of cancer.		
	Ukraine. AIDS		Morphological types of		
	related diseases	,	malignant tumors.		
	associated tumo		Etiology of tumors.		
	Etiology of ma		Cancer initiators and		
	tumors	inginaine	promoters. Chemical		
	tumors		and physical factors of		
			cancer. Biological		
			factors of cancer.		
L-2	Carcinogenesis		Definition of	Kn-3	According to
L-2	Carcinogenesis		"carcinogenesis".	Кп-3	schedule
			e		schedule
			Pathogenic and		
			sanogenic mechanisms		
			in carcinogenesis.		
			Carcinogenesis at the		
			cell level. Chemical and		
			physical carcinogenesis.		
			Viral carcinogenesis.		
			Functions of		
			oncoproteins. Growth		
			factors. The role of		
			autocrine secretion in		
			the activity of tumor cells.		
L-3	Clinical stages	and	The role of a	Kn-4	According to
L J	morphology of		standardized approach of	1111 T	schedule
	norphology 01	current	the same type in		Schedule
			describing the extent of		
			the tumor in the body, its		
			-		
			histological structure for		

		treatment planning,		
		evaluation of its results,		
		treatment protocol and		
T 4	M. J. (1 1 C	information exchange.	<i>V</i> 5	A 1'
L-4	Modern methods of diagnostics of cancer	Features of examination of patients with suspected cancer. Levels of cancer diagnosis. Extremely early, early, timely and late diagnosis. The concept of oncology. Endoscopic examinations. Research methods with image creation. Radionuclide studies	Kn-5 AB-1	According to schedule
L-5	Modern methods of treatment of cancer.	Radical treatment. Palliative treatment. Symptomatic treatment. Methods of local exposure to the tumor. Methods of systemic effect on the tumor. Combination treatment. Comprehensive treatment	Kn-6 AB-2 AB-3	According to schedule
P-1	Lips and oral cavity cancer. Clinical presentation, diagnostics, methods of treatment.	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
P-2	Esophageal and stomach tumors. Clinical presentation, diagnostics, methods of treatment.	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	Ab-1 Ab-2 Ab-3 Ab-4 <i>C-1</i> <i>C-2</i>	According to schedule

	I			
		cancer, determine the tactics of cancer patients, demonstrate medical records		
P-3	Colon and rectum cancer. Liver and pancreas cancer. Clinical presentation, diagnostics, methods of treatment	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
P-4	Lung cancer. Tumors of mediastinum. Clinical presentation, diagnostics, methods of treatment	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
P-5	Breast tumors. Clinical presentation, diagnostics, methods of treatment	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
P-6	Skin cancer and melanoma. Clinical	conduct surveys and physical examinations of	Ab-1 Ab-2	According to schedule

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	presentation, diagnostics, methods of treatment. AIDS, related diseases and associated tumors	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	Ab-3 Ab-4 <i>C-1</i> <i>C-2</i>	
P-7	Kidney cancer, ureter and bladder cancer. Clinical presentation, diagnostics, methods of treatment.	medical records 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
P-8	Cervical, uterine and ovarian cancer. Clinical presentation, diagnostics, methods of treatment	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	Cancer of oral cavity: curation of patients, gathering complaints, anamnesis, general examination of patient, palpation of peripheral lymph nodes. Writing	Independent extracurricular work of students precedes their independent work in practical classes and involves their preparation for practical classes, guided by	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1 C-2	

	medical history	guidelines, and also		
		includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		
SWS-2	Esophageal and gastric	Independent	Kn-1	
	cancer: curation of	extracurricular work of	Kn-2	
	patients, palpation of	students precedes their	Kn-3	
	peripheral lymph	independent work in	Kn-4	
	nodes and organs of	practical classes and	Kn-5	
	abdomen cavity,	involves their	Kn-6	
	detecting free liquid in	preparation for practical	C-1	
	the abdominal cavity.	classes, guided by	<i>C-2</i>	
	Esophagoscopy and	guidelines, and also		
	gastroscopy,	includes the supervision		
	introducing tube into	of patients with writing a		
	stomach. Writing	medical history and		
	medical history.	preparation for the final		
		control of the module.		
SWS-3	Colon and rectum	Independent	Kn-1	
	cancer. Livers and	extracurricular work of	Kn-2	
	pancreas cancer:	students precedes their	Kn-3	
	curation of patients,	independent work in	Kn-4	
	palpation of different	practical classes and	Kn-5	
	parts of colon, finger	involves their	Kn-6	
	rectal examination,	preparation for practical	C-1	
	RSS method,	classes, guided by	<i>C-2</i>	
	colonoscopy, Writing	guidelines, and also		
	medical history	includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		
SWS-4	Lung cancer, tumors	Independent	Kn-1	
	of mediastinum and	extracurricular work of	Kn-2	
	pleura: curation of	students precedes their	Kn-3	
	patients, palpation of	independent work in	Kn-4	
	thorax and regional	practical classes and	Kn-5	
	lymph nodes,	involves their	Kn-6	
	auscultation and	preparation for practical	C-1	
	percussion of lungs,	classes, guided by	<i>C-2</i>	
	bronchoscopy, pleural	guidelines, and also		
	puncture. Writing	includes the supervision		
	medical history.	of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		
SWS-5	Breast cancer: curation	Independent	Kn-1	
576-5		-	Kn-2	
0,00-0	of patients, palpation	extracurricular work of	$\Pi \Pi L$	
546-5	of patients, palpation of breasts, thyroid		Kn 2 Kn-3	
5 10 - 5	of breasts, thyroid	students precedes their	Kn-3	
5 115-5				

	medical history.	preparation for practical	C-1	
	medical mistory.	classes, guided by	C-2	
		guidelines, and also	02	
		includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
anna c	<u> </u>	control of the module.	77 1	
SWS-6	Skin cancer,	Independent	Kn-1	
	melanoma, Hodgkin's	extracurricular work of	Kn-2	
	disease: curation of	students precedes their	Kn-3	
	patients, getting	independent work in	Kn-4	
	scabies from tumor.	practical classes and	Kn-5	
	Writing medical	involves their	Kn-6	
	history	preparation for practical	C-1	
		classes, guided by	<i>C-2</i>	
		guidelines, and also		
		includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		
SWS-7	Urogenital cancer:	Independent	Kn-1	
	curation of patients,	extracurricular work of	Kn-2	
	getting a flush from	students precedes their	Kn-3	
	genital organ,	independent work in	Kn-4	
	cystoscopy. Writing	practical classes and	Kn-5	
	medical history.	involves their	Kn-6	
		preparation for practical	C-1	
		classes, guided by	<i>C-2</i>	
		guidelines, and also	0 -	
		includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		
SWS-8	Oncological	Independent	Kn-1	
SWS-0	gynecology: curation	extracurricular work of	Kn-1 Kn-2	
	6. 6.		Kn-2 Kn-3	
	of patients. Writing	students precedes their		
	medical history.	independent work in	Kn-4	
		practical classes and	Kn-5	
		involves their	Kn-6	
		preparation for practical	C-1	
		classes, guided by	<i>C-2</i>	
		guidelines, and also		
		includes the supervision		
		of patients with writing a		
		medical history and		
		preparation for the final		
		control of the module.		

• 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	Code of the	Method of verifying	Enrollment criteria
results	type of	learning outcomes	
Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1 C-2 AB-1 AB-2 AB-3 Ab-1 Ab-2 Ab-3 Ab-4	lessons L-1, L-2, L-3, L-4, L-5, P-1 P-2 P-3 P-4 P-5 P-6 P-7 P-8	 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
Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1 C-2	SWS-1 SWS -2 SWS -3 SWS -4 SWS -5 SWS -6 SWS -7 SWS -8	- registration of disease history protocols	situational problems. the student conducted a complete clinical examination of the patient, described its results, correctly assessed the general condition of the patient, clinical changes in 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	Participation in the work during the semester	
system	on a 200-point scale	
Evaluation scale	Traditional 4-point scale, multi-point (200-po	oint) scale, ECTS rating scale
Conditions of	The student attended all practical (laboratory,	
admission to the final	1	· · · · · · · · · · · · · · · · · · ·
control		
Type of final contro	Methods of final control	Criteria
Credit "Zalik"	All topics submitted for current control must	The maximum number of
	be included. Grades from the 4-point scale	points is 200.
	are converted into points on a multi-point	The minimum number of
		•
	(200-point) scale in accordance with the	points is 120
	Regulation "Criteria, rules and procedures	
	for evaluating the results of students'	
	learning activities"	
	e number of points is based on the grades obtained	
	ng the study of the discipline, by calculating	
	al places. The resulting value is converted into po	ints on a multi-point scale as
follows:	$\Lambda M \sim 120$	
	$x = \frac{AM \times 120}{5}$	
	9. Policies of course	
Indicates policies of a	cademic integrity, program-specific policies relev	vant to the course
mateures ponetes of a	10. Literature	
Required:		
	. Т. Медичні помилки в онкології. Львів: Афіш	а, 2013. – 324 с.
	ідручник. – 3-тє видання, перероб. і доп. /	
	I. Гнатишак.та ін. За ред. проф. Б. Т. Білинськ	
532 c.		
	ибрані лекції для студентів і лікарів / За р	рел В.Ф. Чехуна — Київ.
	аїни, 2010. – 768 с.	in D. F. Tonyina. Inind.
1 1	ани, 2010. — 700 с. авчальний посібник для студентів вищих меді	ичних навчальних заклалів
	едитації та лікарів-інтернів / І. Б. Щепотін	
	Сиїв : МОРІОН, 2015. – 383 с.	, с. ред. проф. п. В.
	дручник / Г. В. Бондар, Ю. В. Думанський, С	
	дручник 71. Б. Бондар, 10. Б. Думанський, С ина», 2013. – 544 с.	7. 10. 110110Bn-1 1a m. – K
	ина», 2013. – 344 с. Рак молочної залози Львів2019. – 219 с.	
1	ак молочної залози львів2019. – 219 с. ne – вільний доступ на <u>www.ncbi.nih.gov</u> (д.	алі – EnterPubMed лалі
	- CancerMedicine).	un Enteri uoivieu, gan –
	Devita, Jn. SamuelHellman, Steven A	Rosenberg CANCER
o. , moont I.	\sim	$\sim 1000000000000000000000000000000000000$

8. Vincent T. Devita, Jn. SamuelHellman, Steven A. Rosenberg. CANCER.

PrinciplesandpracticeofOncology. 6th Edition./ CD-R/ Availableat: <u>http://www.lwwoncology.com/Textbook/Toc.aspx?id=11000</u> 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. ТNМ-класифікація, 7-ме видання. Фецич Т. Г., Сліпецький 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

All other information important for the student, which is not included in the standard description, for example, contact details of the person responsible for the educational process at the department, information about the scientific circle of the department, information about routes, information about the need to equip themselves with occupational safety; information about the place of classes; links to website / department pages, etc.

Compilers of syllabus

Sterniuk Y.M., DM, professor

Revura A.P., PhD, assistant

Acting head of department

Volod'ko N.A., MD, professor