

# Syllabus of the discipline «Oncology» (OK31)

1. General information			
Faculty	General medicine		
Educational program (branch,	22 Healthcare, 222 Medicine, second (master's) level of		
speciality, level of higher	higher education, full-time		
education, form of education)			
Academic year	2021/2022		
Name of discipline, code (e-	Oncology, OK 31		
mail address on the website of	https://new.meduniv.lviv.ua/kafedry/kafedra-onkologiyi-i-		
Danylo Halytsky Lviv National	radiologiyi-fpdo/		
Medical University)			
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	5 course		
study is implemented)			
Semester (semester in which	9/10 semester		
discipline is implemented)			
Type of discipline/module	compulsory discipline		
(compulsory/optional)			
Lecturers (names, surnames,	Volod'ko Natalia Antonivna, doctor of medical sciences,		
scientific degrees and titles of	professor, surgeon-oncologist of the highest qualification		
lecturers, who teach the	category;		
discipline, contact e-mail)	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;		
	Revura Andrii Petrovych, PhD, surgeon-oncologist, assistant;		
	Prystash Yurii Yurijovych, surgeon-oncologist of the first		
	qualification category, assistant;		
	Slipetsky Roman Rostyslavovych, surgeon-oncologist of the		

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	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 (lectures/	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)	
<i>y</i> /	

## 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.
- 3. 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. Program results of education			
List of education results				
Code 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			
<i>Kn-3</i>	the concept of carcinogens			
<i>Kn-4</i>	present current information on			
<i>Kn-5</i>	carcinogenesis to state the basic principles of diagnostics of			
Kn-6	tumor to state the basic principles of diagnostics of tumor 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	1112		
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;	PR-3		
C-2	to carry out professional activity in social interaction based on humanistic and ethical			

		princip	les;			
AB-1			strate the ability of indepen	dent	PR-4	
searc			analysis and synthesis;			
AB-2		argue information for decision-making, be				
			sible for them in standard a			
			d professional situations,			
			to the principles of deonto	logy and		
<i>AB-3</i>			n professional activities	85		
-						
		6. For	mat and volume of course	<del></del>		
Course forma	t	Full-tin	ne			
(specify full-ti	ime or part-					
time)						
	flessons		Number of hours		Number of groups	
lectures	1 10550115		10		Trained of groups	
practical class	ses		40			
seminars	,00		-			
self-work			40			
Sell-Work			<b>7</b> 0			
		7 Topic	es and content of the cour	926		
Code of the	Theme		Content of education	Code of	Lecturer	
type of	Theme		Content of education	education	Lecturer	
lessons				results		
L-1	Malignant tum	0.440	Definition of "tumor".	Kn-1	A acondina to	
L-1	_			Kn-1 Kn-2	According to schedule	
	Epidemiology. Organization of		Apoptosis. Benign and malignant tumors.	Kn-2	Schedule	
	_					
	oncological ca Ukraine. AIDS		Epidemiology of			
	related disease	*	cancer. Morphological			
	associated tum		types of malignant			
			tumors.			
	Etiology of ma	ıngnanı	Etiology of tumors. Cancer initiators and			
	tumors					
			promoters. Chemical and physical factors of			
			1 * *			
			cancer. Biological			
τ 2	Canaina aanaai	~	factors of cancer.  Definition of	<i>Kn-3</i>	Assauding to	
L-2	Carcinogenesis	8		Kn-3	According to schedule	
			"carcinogenesis".		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			
1 2	CI: 1	1	cells.	77 4		
L-3	Clinical stages		The role of a	Kn-4	According to	
	morphology of	cancer	standardized approach		schedule	

L-4	Modern methods of diagnostics of cancer	of the same type in describing the extent of the tumor in the body, its histological structure for treatment planning, evaluation of its results, treatment protocol and information exchange.  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	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	Kn-6 AB-2 AB-3	According to schedule
P-1	Lips and oral cavity cancer. Clinical presentation, diagnostics, methods of treatment.	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 C-1 C-2	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	Ab-1 Ab-2 Ab-3 Ab-4 C-1	According to schedule

	1	T		<u> </u>
		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	C-2	
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 C-1 C-2	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 C-1 C-2	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	Ab-1 Ab-2 Ab-3 Ab-4 C-1	According to schedule

	<u> </u>	managarant af il.	C-2	<u> </u>
		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	C-2	
P-6	Skin cancer and melanoma. Clinical presentation, diagnostics, methods of treatment. AIDS, related diseases and associated tumors	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-7	Kidney cancer, ureter and bladder 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-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	Ab-1 Ab-2 Ab-3 Ab-4 C-1	According to schedule

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		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	C-2	
SWS-1	Cancer of oral cavity: curation of patients, gathering complaints, anamnesis, general examination of patient, palpation of peripheral lymph nodes. Writing medical history	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	
SWS-2	Esophageal and gastric cancer: curation of patients, palpation of peripheral lymph nodes and organs of abdomen cavity, detecting free liquid in the abdominal cavity.  Esophagoscopy and gastroscopy, introducing tube into stomach. Writing medical history.	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	
SWS-3	Colon and rectum cancer. Livers and pancreas cancer: curation of patients, palpation of different parts of colon, finger rectal examination, RSS method, colonoscopy, Writing medical history	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	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	

		preparation for the final		
		control of the module.		
SWS-4	Lung cancer, tumors of mediastinum and pleura: curation of patients, palpation of thorax and regional lymph nodes, auscultation and percussion of lungs, bronchoscopy, pleural puncture. Writing medical history.	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	
SWS-5	Breast cancer: curation of patients, palpation of breasts, thyroid gland and regional lymph nodes; biopsy of breast. Writing medical history.	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	
SWS-6	Skin cancer, melanoma, Hodgkin's disease: curation of patients, getting scabies from tumor. Writing medical history	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	
SWS-7	Urogenital cancer: curation of patients, getting a flush from genital organ, cystoscopy. Writing medical history.	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	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1	

		of patients with writing a medical history and	
		preparation for the final control of the module.	
SWS-8	Oncological gynecology: curation of patients. Writing medical history.	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.	Kn-1 Kn-2 Kn-3 Kn-4 Kn-5 Kn-6 C-1 C-2

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	Code of the	Method of verifying	Enrollment criteria
results	type of	learning outcomes	
	lessons		
Kn-1	L-1,	- individual oral	the student has deeply
Kn-2	L-2,	examination on theoretical	and perfectly mastered
Kn-3	L-3,	issues that are included in	the theoretical material,
Kn-4	L-4,	the methodological	can determine the
Kn-5	L-5,	developments on relevant	etiology, pathogenesis,
Kn-6	P-1	topics;	clinical features and
C-1	P-2	- test tasks;	variants of the disease in
C-2	P-3	- solving situational	specific patients,
AB-1	P-4	problems;	substantiates the
AB-2	P-5	- ability to recognize	diagnosis, makes a
AB-3	P-6	specific nosological forms	differential diagnosis,
Ab-1	P-7	of cancer;	makes a detailed plan of
Ab-2	P-8		treatment and
Ab-3			rehabilitation of a
Ab-4			particular patient (taking
			into account age,
			comorbidities).
			emergency care, has in-

	1		donth knowledge of the	
			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	
V 1	CWC 1	C. I. a. a. a.	situational problems.	
Kn-1	SWS-1	- registration of disease	the student conducted a	
Kn-2	SWS -2	history protocols	complete clinical	
Kn-3	SWS -3		examination of the patient,	
Kn-4	SWS -4		described its results,	
Kn-5	SWS -5 SWS -6		correctly assessed the	
Kn-6   C-1	SWS -7		general condition of the	
C-1 C-2	SWS -8		patient, clinical changes in	
C-2	3 W 3 - 0		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	logical chinear thinking.	
General evaluation	Participation in	the work during the semester	r	
system	on a 200-point scale			
Evaluation scale		oint scale, multi-point (200-p	oint) scale, ECTS rating	
	scale			
Conditions of	The student attended all practical (laboratory, seminar) classes and			
admission to the final		st 120 points for current perfo		
control		1		
Type of final control	Methods of final control Criteria			
Credit "Zalik"	All topics subn	nitted for current control	The maximum number of	
		ed. Grades from the 4-point	points is 200.	
		erted into points on a multi-	The minimum number of	
		nt) scale in accordance with	points is 120	
	_	"Criteria, rules and	-	
	_	evaluating the results of		
L	-	<u>_</u>		

# students' learning activities"

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:

$$x = \frac{AM \times 120}{5}$$

#### 9. Policies of course

Indicates policies of academic integrity, program-specific policies relevant to the course

## 10. Literature

## Required:

- 1. Білинський Б. Т. Медичні помилки в онкології. Львів: Афіша, 2013. 324 с.
- 2. <u>Онкологія</u>: підручник. 3-тє видання, перероб. і доп. / Б. Т. Білинський, Н. А. Володько, А. І. Гнатишак.та ін. За ред. проф. Б. Т. Білинського. К.: Здоров'я, 2007. 532 с.
- 3. Онкологія. Вибрані лекції для студентів і лікарів / За ред. В.Ф. Чехуна. Київ: Здоров'я України, 2010.-768 с.
- 4. Онкологія: навчальний посібник для студентів вищих медичних навчальних закладів IV 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 <u>www.ncbi.nih.gov</u> (далі EnterPubMed, далі SearchBooks CancerMedicine).
- 8. Vincent T. Devita, Jn. SamuelHellman, Steven A. Rosenberg. CANCER. PrinciplesandpracticeofOncology. 6th Edition./ CD-R/ Availableat: <a href="http://www.lwwoncology.com/Textbook/Toc.aspx?id=11000">http://www.lwwoncology.com/Textbook/Toc.aspx?id=11000</a>

#### 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., 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

Slipetsky R.R., assistant

Acting head of department

Volod'ko N.A., MD, professor