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	CD 8.5.1 CURRICULUM	DISCIPLINĂ	Data:	20.09.201
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Course type:	Mandatory discipline			
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I. **PRELIMINARIES**

• General presentation of the discipline: place and role of discipline in formation of specific competences of professional training program / specialties

The discipline of oncology represents an important component in clinical education and has a major objective in research of epidemiological peculiarities and etiological factors oriented trough realization of primary prophylaxis by promoting a healthy lifestyle. The diagnosis and treatment of precancerous states. Study of cancer evolution, regional tumor spreading and distant metastasis: lymphatic, hematogenous. Clinic and paraclinic peculiarities, establish the principal of precocious diagnosis and treatment of cancer, in different stages of malignization. To estimate of survival and prognosis factors.

The oncologic pathology is one of the main clinical discipline, which morbidity and mortality has tendence to increase. Although the incidence of some cancer localizations as (stomach, esophagus, lungs) has been reduced, the incidence of such tumors as breast cancer (second place in the structure of morbidity by cancer in Moldova), prostate cancer, skin cancer, oral cavity.

In the structure of mortality in the Republic of Moldova the incidence by cancer occupy the second place. It is well known that the success in treatment of malignant tumors is correlated with preclinical and early detection of cancer. Despite technological progress, modernization of diagnosis and treatment modalities, the advanced stages of the tumor process constitute 30 - 40%, being in gastric and lung cancers even higher -50 - 51%.

• *The purpose of the discipline:* The main objectives is to teach the students of 5-year, Faculty of Medicine, in the aspect of assimilation of knowledge about mandatory and optional precancer states, treatment modalities in these pathologies (which constitute the secondary prophylaxis of cancer); detection in early stages of cancer (which ensures conditions for radical treatment, with good chance of recovery in 95 – 98% of patients).

- Teaching languages: Romanian, Russian, English, French;
- Beneficiaries: students of the first year, Medicine Faculty No. 1 and No. 2, Medicine specialty

Code of discipline		S.08.O.079		
Name of discipline		Oncology		
Responsible for disci	pline	University profesor Dumitru Sofroni		
Year	IV	Semester	I, II	
Total hours, including:			90	
Contact direct			56	
Cours	16	Practical work	20	
Seminars	20	Individual work	4	
Evaluation form	Ε	Number of credits	2	

II. ADMINISTRATION OF THE DISCIPLINE



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III. THE OBJECTIVES OF TRAINING IN THE DISCIPLINE

At the end of the course, the student will be able to:

At the level of knowledge and understanding:

- The notion and definition of the tumor and its evolution. The term of precancerous states, notions of obligatory and facultative precancer.
- To know preclinical and early stage notions of cancer. The process of enlargement, tumor propagation and metastasis (lymphoma, hematogenous). TNM Stage.
- To understand the epidemiological aspect of cancer. Cancer and the environment. Carcinogenic factors (physical, chemical, biological, etc.) Peculiarity of the age and sex of the patients.
- To know the concepts of primary prophylaxis (removel of noxious factors, carcinogenic factors) and secondary (the etiopathogenetic treatment of precancerous states).
- To know the basic principles in the organization and structure of oncological assistance in Moldova. The role of the department of oncology and I.O. in organizing oncological assistance. The activity of district oncologic consulting rooms, their role in early detection of cancer.
- To know the main tasks and directives of oncology assistance. Division of patients according to clinical groups (Ia, Ib, II, IIa, III, IV). Oncologic dispensary and evidence of oncological patients.

Practical level:

- Knowledge in anamnesis collection data, disease anamnesis and of life pecularities.
- Performing general skin inspection to exclude cutaneous tumors (basal cell carcinoma, malignant melanoma, sarcomas of soft tissues of the body, etc.).
- Performing the inspection of the mucosal of oral cavity and thyroid gland.
- Inspection and palpation of mammary gland, peripheral lymph nodes (to exclude regional lymphnodes metastases and haematogenous).
- Knowing the pricipal of distant metastasis Wirhov, Blummer-Schnitzler, Crukkenberg, Soeur Marie-Josephe in gastric cancer.
- Performing the thorax palpation and percussion in lung cancer and mediastinum tumors.
- Performing the abdominal palpation, percussion and auscultation to exclude visceral tumors (gastric, ZPD, hepatic, colon, etc.), hepatic metastases, parietal canceromatosis and ascites.
- Knowing the singh Courvoisier-Terrier in pancreatic cancer.
- Performing digital rectal examination to exclude rectal, prostate and metastatic cancer Blummer-Schnitzler (pararectal) in gastric cancer.
- To read laboratory data (haemogram, biochemical data). Notions about cancer markers.
- To read radiogram in lung, gastric, esophageal, colorectal, urinary, cancer.
- To read mammograms.
- To read urograms, angiograms, polycystograms, pneumocistograms.
- To read MRI
- To read the radioisotope scintigraphy of the liver, spleen, kidney, thyroid, skeletal bone.
- To read ultrasonography (USG).
- Assistance in punction performing of vusual tumors such a (thyroid, breast cancer, peripheral lymphnodes).
- To collect a smears slides for examination and to take a wound print in visual tumors (skin, lips , cancer of oral cavity mucosa)
- To know general notions in the treatment of malignant tumors:



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- a. surgecal treatment
- b. radiotherapy treatment
- c. cryotherapy treatment
- d. laser treatment
- e. chemotherapy treatment
- f. hormonal treatment
- g. combinate treatment (adjuvant and non-adjuvant)
- h. complex treatment
- i. palliative and symptomatic treatment

• at the integration level:

- be able to assess the place and role of oncology in the clinical training of the student;
- be competent to use the knowledge and methodology of oncology in the ability to explain the nature of pathological processes;
- be able to link the oncological process → at the mollecular level → at the cellular level → at the tissue level → at the body level;
- be able to conclude the possible causes of blocking the basical mollecular processes and their consequences on the cell, tissue and body in general;
- be able to implement the knowledge gained in the research activity;
- be competent to use critically and with confidence the scientific information obtained using the new information and communication technologies;
- be able to use multimedia technology to receive, evaluate, store, produce, present and exchange information, and communicate and participate in networks via the Internet;
- be able to teach and explain, which will contribute to the management of the professional activity

IV. PREVIOUS CONDITIONS AND REQUIREMENTS

Student of IV year requires the following:

- knowledge of the rendition language
- ✓ skills in sciences at the preclinical level (genetics, anatomy, histology, pathophysiology, morphopathology, pharmacology, semiology surgery, semiology therapy);
- ✓ digital competences (use of the Internet, document processing, electronic tables and presentations, use of graphics programs);
- \checkmark ability to communicate and work in team;
- ✓ qualities tolerance, compassion, autonomy.

V. ORIENTAL TIMETABLE AND ORIENTAL DISTRIBUTION OF HOURS

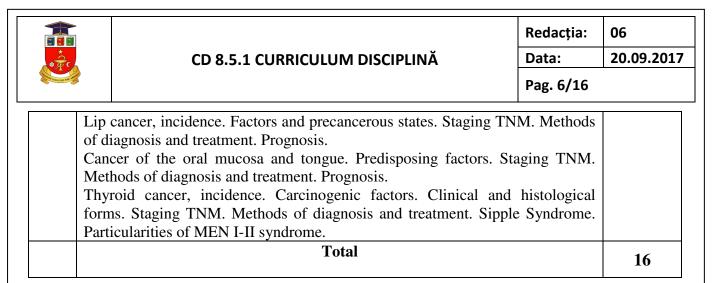
A. lectures

Nr. d/o	Торіс	Hours
1.	History of oncology. Organization of oncological assistance in Moldova. Deontology. Tumors cassification.	
2.	Mamar cancer. Precancerous states. Clinical and histological forms. Stage of TNM. Screening of risk groups. Methods of diagnosis and treatment (surgical, combined, adjuvant and non-adjuvant, complex treatment). Surgical treatment - Halsted, Patey, Maden etc. Prognosis	2



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3.	Lung cancer. Carcinogenic factors and precalculations. Clinical, radiological and histological forms. Particularities of microcellular cancer. Methods of	2
	diagnosis and treatment of central and peripheral cancer. Particularities of microcellular cancer treatment. Prognosis.	
	Esophageal cancer. Carcinogenic factors and precancerous states. Staging TNM. Diagnostic methods (radiological, endoscopic, CT). Methods of	
	treatment. Classic radical operations: Torec, Garlock, Lwis. Palliative operations (eso-gastric, eso-jejunal anastomosis), gastrostomy Vitzel, Kader.	
	Radiotherapy treatment. Combined treatment. Prognisis.	
4.	Gastric cancer. Carcinogenic factors and precancerous states. Staging TNM. Ways of expansion and metastasis. Virchov-Troisier Metastasis, Blummer- Schnitzler, Crukenberg, etc. Hematogenic metastases. Diagnostic methods (radiological, endoscopic, etc.). Methods of treatment. Prognosis	2
5.	Cancer of the pancreato-duodenal region. Etiopathogenesis. Staging TNM. Methods of diagnosis and treatment. Bilio-digestive palliative operations.	2
	Prognosis. Hepatic cancer. Etiopathogenesis. Staging TNM. Diagnostic methods (USG, CT, isotope scintigraphy, laparoscopy with biopsy). Methods of treatment.	
	Hepatic transplantation with total hepatectomy. Palliative treatment. Prognosis.	
6.	Colorectal cancer. Carcinogenic factors and precancerous states. Family polyposis. Staging TNM. Methods of diagnosis and treatment. Typical	2
	operations: Right, left hemicolonectomy; segmental resection of the colon; Operation Dixon, Babcock - Chiricuță; Miles rectum extirpation. Combined treatment.	
7	Cancer of the reno-urinary system. Etiopathogenesis of renal cancer. Primary extension and metastasis of renal cancer. Staging TNM. Clinical and	2
	histological forms. Diagnostic methods (i / v urography, USG, CT, angiography). Methods of treatment (surgical, radiotherapy, hormonal, chemotherapeutic).Prognosis.	
	Bladder cancer. Etiopathogenesis. Bilharziosis (Schistosomiasis). Clinical and histological forms. Staging TNM. Methods of diagnosis and treatment. Prognosis.	
8.	Lip cancer, incidence. Factors and precancerous states. Staging TNM. Methods of diagnosis and treatment. Prognosis.	2
	Cancer of the oral mucosa and tongue. Predisposing factors. Staging TNM. Methods of diagnosis and treatment. Prognosis.	
	Thyroid cancer, incidence. Carcinogenic factors. Clinical and histological forms. Staging TNM. Methods of diagnosis and treatment. Sipple Syndrome. Particularities of MEN I-II syndrome.	
9.	The skin cancer. Pretumoral states obligant and facultative of the skin. Clinical and histological form, staging TNM, AJCC, 8-a edition, 2017. Methods of	2
	diagnosis. Treatment of skin cancer (surgery, radiotherapy, cryotherapy, laserotherapy, chemotherapy, combine, complex). Tardive resultes and	
	prognosis. Malignant melanoma. Predisposal factors and sings of nevous malignization.	
	Pecvularity of growing and metastasis of melanom. Staging TNM, AJCC, 8-a edition, 2017. Staging by Clarck, Breslow. Methods of diagnosis and treatment	
	of malignant melanoma. Prognosis.	



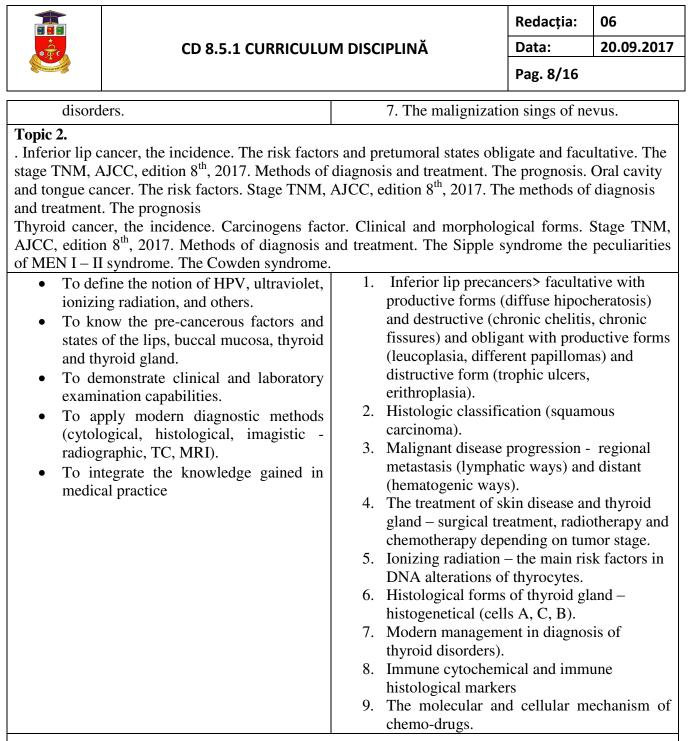
B. The practical work

Nr.	Торіс	На	ours
d/o		Practical work	Individua work
1	Skin cancer. Precancerous skin states. Histological forms, staging TNM. Diagnostic methods. Treatment of cutaneous cancer (radiotherapy, cryotherapy, laser therapy, surgery). Tardive and predictive results. Malignant melanoma. Predisposing factors and signs of malignant nevi. Features of melanoma growth and metastasizing. Staging TNM. Methods of diagnosis and treatment of malignant melanoma. Prognosis.	5	0.5
2	Lip cancer, incidence. Factors and precancerous states. Staging TNM. Methods of diagnosis and treatment. Prognosis. Cancer of the buccal mucosa and tongue. Predisposing factors. Staging TNM. Methods of diagnosis and treatment. Prognosis. Thyroid cancer, incidence. Carcinogenic factors. Clinical and histological forms. Staging TNM. Methods of diagnosis and treatment. Sipple Syndrome. Particularities of MEN I-II syndrome.	5	0.5
3	Mamar cancer. Precancerous states. Clinical and histological forms. Stage of TNM. Screening of risk groups. Methods of diagnosis and treatment (surgical, combined, adjuvant and non-adjuvant, complex treatment). Surgical treatment -Halsted, Patey, Maden etc. Prognosis	5	0.5
4	Lung cancer. Carcinogenic factors and precalculations. Clinical, radiological and histological forms. Particularities of microcellular cancer. Methods of diagnosis and treatment of central and peripheral cancer. Particularities of microcellular cancer treatment. Prognosis. Esophageal cancer. Carcinogenic factors and precancerous states. Staging TNM. Diagnostic methods (radiological, endoscopic, CT). Methods of treatment. Classic radical operations: Torec, Garlock, Lwis. Palliative operations (eso-gastric, eso-jejunal anastomosis), gastrostomy Vitzel, Kader. Radiotherapy treatment. Combined treatment. Prognisis.	5	0.5
5	Gastric cancer. Carcinogenic factors and precancerous states. Staging TNM. Ways of expansion and metastasis. Virchov-Troisier Metastasis, Blummer-Schnitzler, Crukenberg, etc. Hematogenic metastases. Diagnostic methods (radiological, endoscopic, etc.). Methods of treatment. Prognosis	5	0.5

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6	Staging TNM. Methods of diagnosis and treatment. Bilio-digestive palliative operations. Prognosis. Hepatic cancer. Etiopathogenesis. Staging TNM. Diagnostic methods (USG, CT, isotope scintigraphy, laparoscopy with biopsy). Methods of treatment. Hepatic transplantation with total hepatectomy. Palliative				
7	treatment. Prognosis.5Colorectal cancer. Carcinogenic factors and precancerous states. Family polyposis. Staging TNM. Methods of diagnosis and treatment. Typical operations: Right, left hemicolonectomy; segmental resection of the colon; Operation Dixon, Babcock - Chiricuță; Miles rectum extirpation. Combined treatment.5				0.5
8	Combined treatment.5Cancer of the reno-urinary system. Etiopathogenesis of renal cancer. Primary extension and metastasis of renal cancer. Staging TNM. Clinical and histological forms. Diagnostic methods (i / v urography, USG, CT, angiography). Methods of treatment (surgical, radiotherapy, hormonal, chemotherapeutic).Prognosis.50.5Bladder cancer. Etiopathogenesis. Bilharziosis (Schistosomiasis). Clinical and histological forms. Staging TNM. Methods of diagnosis and treatment. Prognosis.6			0.5	
		Total		40	4

VI. REFERENCE OBJECTIVES AND CONTENTS UNITS

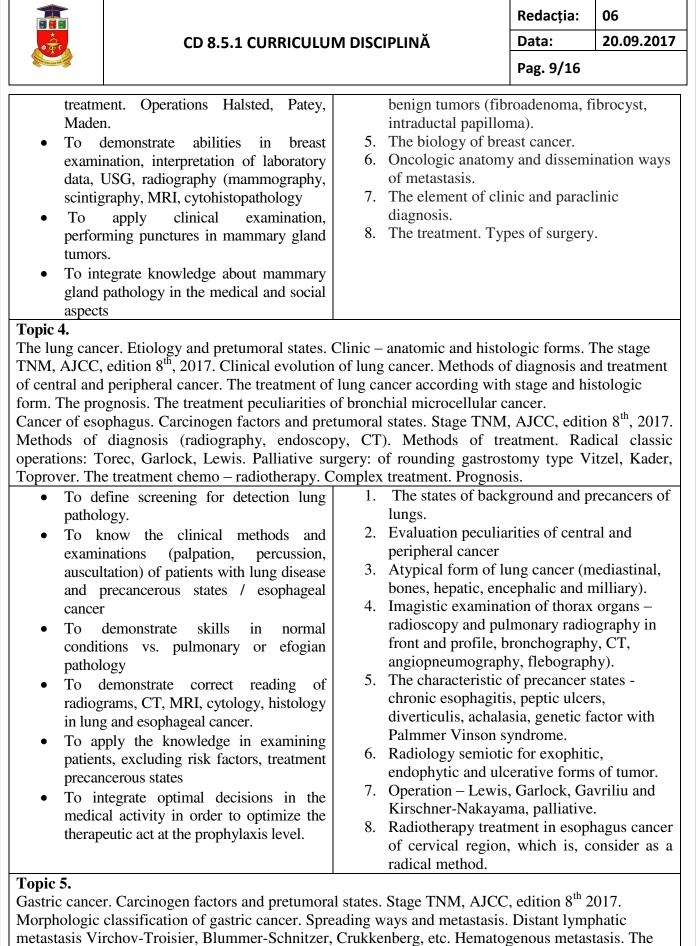
Objectives	Contents Units			
Topic 1.				
The topic: 1 . The skin cancer. Pretumoral states of the skin obligated and facultative. Clinical form				
and histology, TNM stage, AJCC, the 8 th edition, 2017. Methods of diagnosis. The treatment of skin				
cancer (surgery, radiotherapy, cryotherapy, laser	e			
prognosis and tardive results.	T T T T T T T T T T T T T T T T T T T			
1 0	malignant sings of nevus. Growing peculiarities and			
• • •	, AJCC, the 8-th edition, 2017. Clark and Breslow			
stages. Methods of diagnosis and treatment of ma				
• To define the basic concepts of oncology.	1 The methods of investigation in oncology			
• To know the structure of the skin tissue	2 The structure (epidermis, dermis, and			
and the factors favoring the appearance of	hypodermis) and skin functions.			
cutaneous cancer.	3. Melanocytes – the pigmented system of			
• To know the pre-cancerous states of the	epidermis having function of releasing of			
skin and their treatment.	melanin.			
 To demonstrate ability to analyze and 	4. Pretumoral states – Bowen diseases,			
systematize knowledge.	erythroplasia Quyerat, Paget disease,			
 To apply knowledge in methods of 	xeroderma pigmentosum.			
clinical examination, cytology and	5. Macroscopical forms of skin cancer –			
histology.	nodular, ulcerative, ulcer-infiltrative.			
	6. Development particularities of melanomas			
• To integrate and to apply the knowledge	and pigmented nevus from melanocytes cells.			
daily to avoid favorable factors in skin	and pigniented nevus from metanocytes cens.			



Topic 3.

• Brest cancer. Etiology. Pretumoral states. The clinical and histological forms, molecular classification of breast cancer. The stage TNM, AJCC, edition 8th, 2017. The screening. The risk groups. Methods of diagnosis and treatment (surgery, chemotherapy, radiotherapy, combine treatment, complex, adjuvant and non adjuvant). Operation Halsted, Patey, Madden, etc. the prognosis. The Cowden syndrome.

• To def	ne screening, individual mammary	1.	Anatomy and physiology of mammary
gland e	xaminations, mammography.		gland.
• To kno	w the physiological changes in the	2.	Sexual hormones – estrogens and
mamm	ary glands according to the		progesterone level.
hormon	ne status.	3.	Proliferative process in mammary gland
• To kno	w the methods of clinical, imaging		caused by hyperestrogenemie
	aboratory examination, surgical	4.	The characteristic of pretumoral states and



methods of diagnosis (radiology, endoscopic, etc.). the methods of treatment. Prognosis.

• To define the clinic and methods of 1. The main factors in carcinogens action –



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 diagnosis in gastric examination. To know predisposal factors and precancers states of the stomach. To demonstrate reonghenograms, CT, MRI, histology, endoscopic methods in gastric cancer. To apply the knowledge in patients examination (lymphnodes palpation), establish pretumoral states, the principals of diagnosis and treatment. To integrate the knowledge in professional activity to exclude the risk factors and treatment of pretumoral states. 	 rich diet in hydrates, preparing and preserving of food, nitrosamines action, nitrates in water, alcohol, genetic disorders, immunologic affections. 2. Preneoplasic disease as a chronic gastritis, ulcers, polyps and polyposis, Menetrie disease and pernicious anemia. 3. Lymphnodes station 3 of numbers with 16 groups of regional lymphatic nodes. 4. Metastasis Virhov, umbilica, Crukenberg, Blummer – Schnitlzerl. 5. Radiologic and laparoscopic detection in gastric cancer.
 Topic 6. Cancer of Pancreato-duadenum zone (PDZ). Etio Histologic classification of PDZ cancer. The tume Palliative surgery. Bilio digestive deviation. Prog syndrome. Hepatic cancer. Etiology. Stage TNM, AJCC, edi cancer. Methods of diagnosis (USG, CT, Scintigr treatment. Description of total hepatecthomy. Pal To define anatomical structure of that area, clinic and methods of diagnosis of PDZ. To know the clinic, investigation methods of PDZ. To demonstrate the knowledge in clinic and paraclinic investigation (laboratory, imagistic and endoscopic). To apply the knowledge in clinical examination (liver palpation, abdominal), reading the laboratory examination (biochemical, immunological), imaging and endoscopic results in correct application of principal of treatment of PDZ. To integrate the optimal decision in therapeutic act. 	ors of pancreas. Methods of diagnosis and treatment. nosis. Wermer syndrome, Wermer-Morison tion 8 th 2017. Histologic classification of hepatic raphy, laparoscopy with biopsy). Method of
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 principals of examination of colon and rectum (imaging, endoscopic). To demonstrate the knowledge in clinic of colon and rectum pathology, to read the irigogramms in different states of colon pathology. To apply the knowledge of diagnosis in precancers and the principals in precocious and advanced states of colon cancer. To integrate the knowledge daily for promotion of healthy way of life. 	 pollips adenomatos Gardner syndrome syndrome. 3. Clinical form of co 4. Method of diagnos 5. Radical and palliat 6. Postsurgery compl it. 	, Peutz-Jeghe olon cancer. is and treatm ive surgical t	ent reatment.
Renal-urinary system cancer. Etiology of renal ca cancer. Stage TNM, AJCC, edition 8 th , 2017. Clir urography, USG, CT, angiography). Methods of t hormonal). Prognosis. Cancer of urinary bladder. Etiology. Bilharziosis Stage TNM, AJCC, edition 8 th , 2017. Methods of	nical and histologic forms. N reatment (surgery, radiother (Schistosomiasis). Clinical	Methods of di rapy, chemot	agnosis (i/v herapy,
 cystectomy, resection of urinary bladder, hemires cutaneostomy. Prognosis. To define the role of noxious factors on 		ypes of surge picystotomy,	ry: uretero-



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VII. PROFESSIONAL COMPETENCES (SPECIFIC (CS) AND TRANSVERSAL (CT)) AND FINAL STUDIES

✓ PROFESSIONAL COMPETENCES:

- CP 1. Knowing, understanding, and using of specific oncologic language;
- Identification and using concepts, principals and theory of oncology in professional activity.
- Knowing and understanding the cellular changes in different organs, oncogenes, explanation of principals of metastasis.
- Explaining and understanding of tumoral progression.
- Knowing of diseases of background and precancers in prophylaxis of oncological tumors.
- Knowing TNM classification and to establish tumoral stage.
- Appropriation of classification tumors of cytohistological.
- Appropriation methods of surgical treatment of oncological patients.
- Knowing the principals of chemotherapy treatment of oncological patients.
- Knowing the principals radiotherapy treatment of oncological patients.
- Appropriation methods of prophylaxis in oncology.

✓ TRANSFERRAL COMPETENCES:

- Capacity perfection of decisional; autonomy;
- Forming of personal position;
- Ability of social interaction, activity in group with different roles.
- Framing in interdisciplinary projects, extracurricular activity.
- Perfecting of digital qualification;
- Developing of different technics to study;
- Selection of digital materials, critical analysis and making conclusion;
- Presentation of scientific individual projects.

✓ THE FINAL STUDIES

- To know peculiarities of organization and components of one good therapeutic act;
- To know clinical methods and examination maneuvers of oncological patients;
- To know predisposal factors and precancers states in oncology;
- To understand changes on cellular and tissues levels (oncogenesis, oncogens and antioncogens, apopthosis);
- To know microscopic forms of oncologic pathology
- To know peculiarities of progression of malignant process in different localization;
- To know paraclinical methods (laboratory) hematological, biochemical, byological markers) in examination of oncologic patients.
- To know paraclinical methods (imaging) radiology, tomography, mammography, urography etc.) in examination of oncologic patients.
- To know paraclinical methods (endo laparoscopy) in examination of oncological patients.
- Appropriation of methods of treatment surgical, chemotherapy and radiotherapy in oncologic pathology;
- To apply the knowledge in prophylaxis of oncological disease.



- To be able of evaluate the place and the role of oncology in clinical preparing of student-= physician.
- To be competent to utilize the knowledge and methodology of oncology in ability for explaining the nature of some physiological and pathological process.
- To be competent for deduction of some possible cases of oncological process against cell, tissue, all human body.
- To be capable for implementation of knowledge in activity of researcher;
- To be competent for using critically and with confidence the scientific information obtained, using the new informational and communication technology.

Note. Discipline finality (are deducted from professional competences and formative valences of informational containing of discipline).

✓ Professional skills (specific) (CS)

- CS1.
- CS2.
- others.
- ✓ Transversal skills (CT)
- CT1.
- CT2.
- others.
- ✓ Final Studies

VIII. THE STUDENT'S INDIVIDUAL WORK

Nr.	The expected product	Strategy of achievement	Evaluation criteria	Period of realization
1.	Work with the book	Systemic work and mediate	Quality, logical thought, flexibility	During the module
2.	Report	Relevant sources analyses on theme report. Analysis, systematization and informational synthesis to theme proposal. Report structure in conformity with requirements in force and presentation at the department/group.	 Quality systemizing and analyzing of informational material obtained by own activity. Information concordance with theme purpose. 	During the module



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3.	Work with informational sources	Reading of lectures or material from the book on respective theme, careful. Reading the questions of theme, which necessity a reflection on the subject. To know the list of informational sources on respective theme. To select informational sources on theme. Text reading with attention and describing essential containing. Generalization formulations and conclusion of importance theme/subject.	Capacity to extract the essential; interpretative ability; volume of work.	During the module
4.	Appling of different technics of study		Volume of work, the grade of entrance in essence of different subjects, level of scientific argument, quality of conclusions, creativity elements, demonstration of understanding the problem, personal attitude forming.	During the module
5.	Work with online materials	Auto evaluation on-line, studying materials on-line on site of department, self- opinion expression through forum and chat.	Number and period entering on SITE, the results of auto evaluation.	During the module
6.	Preparing and theses supporting	Selection of research theme, establishing the research plan, establishing the realization period. Establishing the project components/presentation PowerPoint-theme, the aim, results, conclusion, practical application, bibliography. Reviews colleagues. Reviews teachers.	Volume of work, the grade of entrance in essence of theme of project, level of scientific argumentation, quality of conclusions, elements of creativity, attitude forming.	During the module
7.	Analysis of one case	Choosing and describing of case study. Causes analyses of some problems appeared in case study.	1. Analyzing, synthesis, generalization data obtained	During the module



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The prognosis result of	bv	own
case.		vestigation.
		rming an
		gorithm of
	kne	owing in
	bas	se of
	obt	taining
	COI	nclusion.

IX. METHODOLOGICAL SUGGESTION OF SURRENDER – TEACHING – EVALUATION

• The method of surrender and teaching utilized

At the surrender of discipline of Oncology is using different methods and didactic procedures, oriented to effective insistence and reaching goals of didactic process. In theoretical lessons, with traditional methods (spelling lesson, conversation lesson, synthesis lesson) is using and modern methods (lecture debates, lecture conference, lecture problem sated). In the practical works there are used individual forms of activity, patient examination, participating to the operation room, implication in clinical investigation (palpation, peripheral lymphnodes punction, percussion and abdominal and thorax palpation) and paraclinical.

For appropriation deeper of material, it is using different semiotic systems (scientific language, computerized and graphic language) and didactic materials (tables, schemes, radiograms, computer tomography, MRI, scintigraphy, mammography, endoscopic data, laparoscopic and cyto histologic). At the lectures and extracurricular activities using Informational Technology of Communication – presentation PowerPoint, lectures on-line.

- **The strategy/technology teaching applied** (*specific to the department*)
 - " Group Interview "; "Clinical case study"; "Creative Controversy"; "Focus-group technique". Practical works.
- **Methods of evaluation** (*calculating and including of final mark*).
 - ✓ **Current.** frontal and / or individual control through
- (a) applying the tests to the studied subject,
- (b) solving the problems of the situation,
- (c) analysis of clinical case studies
- (d) performing role-plays on the topics discussed.
- (e) interpretation of clinical, laboratory, imaging and endo laparoscopy data.
 - ✓ The final: exam

How to round up the grades of the evaluation steps

Intermediate note (annual average,	National system	Eequivalent
marks from the exam stages)	marks	ECTS
1,00-3,00	2	F
3,01-4,99	4	FX
5,00	5	
5,01-5,50	5,5	Ε
5,51-6,0	6	
6,01-6,50	6,5	D
6,51-7,00	7	



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7,01-7,50	7,5	5	
7,51-8,00	8	C	
8,01-8,50	8,5	В	
8,51-8,00	9		
9,01-9,50	9,5	•	
9,51-10,0	10	A	

The final mark will consist of the average score of four exam (share 0.3), practical habits of the patient (share 0.2), final test sample (share 0.2), oral response (share 0.3), and the final score obtained will be expressed in two decimal places, which will be entered in the notes book.

Failure to attend the examination without reason is recorded as "absent" and is equivalent to 0 (zero) rating. The student is entitled to 2 repeated claims of the unsuccessful exam.

X. RECOMMENDED BIBLIOGRAPHY:

- A. Obligatory:
- 1. Prelegerile.
- 2. Oncologie clinică. Chișinău, 1998. Ghidirim N.
- ATLAS TNM (ghid ilustrat de clasificare TNM/p TNM a tumorilor maligne). Traducere din limba franceză în română. Ghid. Chişinău, 2000, 380 p. Ghidirim N.Ţâbârnă Gh., Sofroni M., Mereuță I.
- Semne, sindroame şi personalități notorii în oncologie, hematologie şi medicina universală (definiții şi tălmăciri în limba română). Îndrumar clinico-didactic. Ghidirm N., Corcimaru I., Mereuță I., Bacalîm I., Martalog V., Corobcean N., Rotaru T. Chişinău, 2015. - 186
- 5. Ghid clinic de oncologie. Ghid. Chișinău, 2003, 828 p. Țâbârnă Gh., Coșciug I., Sofroni M. și a.
- 6. Клиническая онкология. Учебник для студентов. Кишинев, 2005, 830 с. Цыбырнэ Г., Корчмару И., Софрони Д. и др.
- 7. Dicționar explicativ de oncologie. N. Ghidirim. Chișinău, 2005, 543 p.
- 8. Cancérologie (Guide practique). Paris 1992. Laurent Zelek.
- 9. Cancérologie. Paris 1996. Vincent Levy.
- 10. Cancerul bronhopulmonar. București, Cluj-Napoca, 1986, 553p.
- 11. Cancerul glandei tiroide. Chișinău, 2017, 320p. Țîbîrnă A.
- 12. Cancer. Principles end Practic of Oncology. Zincent T., D. Vita. 1982.

B. Supplementary

- 1. Cancerul bronhopulmonar. Martalog V., Cernat V., Ghidirim N. Chişinău, 2009, 48 p.
- 2. Grigorescu, Mircea. Tratat de oncologie digestiva. Vol. 1 / M. Grigorescu, A. Irimie, M. Beuran. -Bucuresti : Editura Academiei Romane, 2013
- Cancerul bronhopulmonar : indicații metodice pentru studenți, rezidenți, medici de familie, oncologi, ftiziopneumologi / V. Martalog, V. Cernat, N. Ghidirim [et al.] ; Universitatea de Stat de Medicină și Farmacie "Nicolae Testemițanu" ; IMSP Institutul Oncologic din Republica Moldova. - Chișinău : Continental-Grup, 2009
- 4. Harrison's hematology and oncology / ed. : D. L. longo. New York : McGraw-Hill Medical, 2013