

MINISTRY OF HEALTH OF UKRAINE

KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Oncology

SYLLABUS OF THE COURSE

Surgery (2 cr), including oncology (1) and neurosurgery (BK43)

Normative or selective educational component

selective

The format of the educational component

full-time

(full-time; mixed; remote)

direction of training 22 «Health care»

(code and name of the field of knowledge)

specialty « Dentistry» « 221 »

(code and name of the specialty)

Specialization

(if

available)

Educational and professional program (educational and scientific program) second

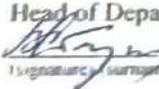
(master's) level

First / second / third (bachelor's / master's / educational-scientific) level of higher education  
(choose the required one)

course 4

Curriculum of the discipline  
approved at the meeting of the department  
**ONCOLOGY**

Protocol from  
" " 08 202 № 1

Head of Department  
 prof. VI Starikov  
(signature, surname and initials)

" " 08 202

Approved by the methodical commission of KNUiME  
on the problems of professional training of surgical  
profile

Protocol from  
" " 08 202 № 1 Head  
 prof. V.O. Sypliyiv (signature)  
(surname and initials)

" " 08 202

**Developers:** Starikov Vladimir Ivanovich,  
Muzhichuk Alexey Vladimirovich,  
Sennikov Igor Anatolyevich,  
Khodak Andrey Sergeevich,  
Yevtushenko Dmitry Vasilyevich,

## INFORMATION ABOUT TEACHERS TEACHING THE EDUCATIONAL COMPONENT

Last name, first name, patronymic, position, academic title, scientific degree

Muzhychuk Oleksiy Volodymyrovych - Doctor of Medical Sciences, Professor of the Department of Oncology, specialization Oncology, Oncosurgery.

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc. \_\_\_\_\_ dep.oncology@i.ua \_\_\_\_\_)

Contact phone \_\_\_\_\_ + 38050583052 \_\_\_\_\_

Corporate mail of the teacher ov.muzhychuk@knmu.edu.ua

Consultations \_\_\_\_ face-to-face consultations according to the schedule \_CHIMR \_\_\_\_\_

(face-to-face consultations: schedule and venue; online consultations: schedule, links to electronic resources)

Location XIMPiO\_Харків ПУШКИНСЬКА 62 \_\_\_\_\_

Sennikov Igor Anatoliyovych - Candidate of Medical Sciences, Associate Professor of Oncology, specialization in oncosurgery.

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc. \_\_\_\_ dep.oncology@i.ua \_\_\_\_\_)

Contact phone \_\_\_\_\_ + 38068 0980262760 \_\_\_\_\_

Corporate mail of the teacher. ia.sennikov@knmu.edu.ua

Consultations \_\_\_\_ face-to-face consultations according to the schedule \_CHIMR \_\_\_\_\_

(face-to-face consultations: schedule and venue; online consultations: schedule, links to electronic resources)

Location XIMPiO\_Харків ПУШКИНСЬКА 62 \_\_\_\_\_

Khodak Andriy Serhiyovych - Candidate of Medical Sciences, Associate Professor of Oncology, specialization oncology, oncosurgery.

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc. \_\_\_\_\_ dep.oncology@i.ua \_\_\_\_\_)

Contact phone \_\_\_\_\_ + 38050 619 36 31 \_\_\_\_\_

Corporate mail of the teacher. as.khodak@knmu.edu.ua

Consultations \_\_\_\_ face-to-face consultations according to the schedule \_CHIMR \_\_\_\_\_

(face-to-face consultations: schedule and venue; online consultations: schedule, links to electronic resources)

Location XIMPiO\_Харків ПУШКИНСЬКА 62 \_\_\_\_\_

Yevtushenko Dmytro Vasyliovych - Candidate of Medical Sciences, Associate Professor of the Department of Oncology, specialization in Oncosurgery.

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc. \_\_\_\_\_ dep.oncology@i.ua \_\_\_\_\_)

Contact phone \_\_\_\_\_ + 38 093 618 57 17 \_\_\_\_\_

Corporate mail of the teacher. dv.yevtushenko@knmu.edu.ua

Consultations \_\_\_\_ face-to-face consultations according to the schedule \_UK \_\_\_\_\_

(face-to-face consultations: schedule and venue; online consultations: schedule, links to electronic resources)

Location University Clinic \_Kharkiv Textile 4 \_\_\_\_\_

Baranova Anna Vladimirovna - Doctor of Philosophy, Assistant Professor of Oncology, specialization Oncology, Oncosurgery.

Professional interests, links to the teacher's profile (on the website of the university, department, in the Moodle system, etc. \_\_\_\_\_ dep.oncology@i.ua \_\_\_\_\_

Contact phone \_\_\_\_\_ + 380507466760 \_\_\_\_\_

Corporate mail of the teacher av.baranova@knmu.edu.ua

Consultations \_\_\_\_ face-to-face consultations according to the schedule \_CHIMR \_\_\_\_\_

(face-to-face consultations: schedule and venue; online consultations: schedule, links to electronic resources)

Location XIMPiO \_Харків ПУШКИНСЬКА 62 \_\_\_\_\_

Contact phone and E-mail departments :. tel. +38 (057) 704-10-69, dep.oncology@i.ua

Eye consultations: schedule and venue according to the schedule of the department.

Online consultations: schedule and venue by prior arrangement with the teacher.

Location: classes are held in the conditions of IMR, OCO and university clinic.

## INTRODUCTION

The syllabus of the discipline "Oncology " BK43 is compiled in accordance with the educational-professional program (hereinafter - OPP) \_\_ " Dentistry " \_\_ and the Standard of Higher Education of Ukraine (hereinafter - the Standard), the second (master's) level, areas of knowledge 22 " Health care ", specialties \_\_ " Dentistry " \_\_ (subject to availability)

Description of the discipline (abstract) The subject of study of the discipline is Oncology and radiation medicine is oncology - a science that studies the causes, development of tumors, their clinical manifestations, diagnosis, treatment and prevention.

Knowledge of the basics of oncology is extremely important for the training of physicians of all specialties.

During the study it is important to form academic training in basic and clinical biomedical sciences and prepare graduates for the professional activity of a pediatrician in the relevant primary position by acquiring general and special competencies, the scope of which is described by certain lists of syndromes and symptoms of cancer, emergencies and physiological conditions. concomitant diseases that require special tactics of patient management; laboratory and instrumental research, medical manipulations, labor, forensic and military expertise.

This course focuses on solving the major problems of oncology. The program covers topics related to the most common localizations of malignant tumors. Clinical experience can be gained during the practical classes of the course in the leading institutions of the region according to the schedule of classes. During the course, students have the opportunity to participate in the curation and demonstration of patients with various oncopathologies, as well as the development of practical skills during classes in phantom classes of NNTSYAO KhNMU. That is, the course covers the main both practical and theoretical aspects of the future pediatrician and family doctor.

**Interdisciplinary Links:** Normal Anatomy Tissue Embryogenesis. Be able to describe the changes at different stages of embryogenesis

**Physiology Parameters** of physiological norm (general blood, urine, blood biochemistry). Cancer markers. Evaluate laboratory test data. **Pathophysiology** The mechanism of dysfunction of organs and systems in pathological conditions of different genesis. Interpret pathological changes according to the results of laboratory examination in disorders of organs and systems of different genesis.

**Pathological anatomy** Macroscopic changes in tissue structure. To determine local changes on the part of tissues, to determine the pathomorphosis of the tumor.

**Pharmacology and clinical pharmacology** Groups of drugs used for infusion, antibacterial and symptomatic therapy, their side effects, contraindications, etc., know the groups of chemotherapeutic drugs. Make letters of appointment of drugs

**Surgery Methods** and main stages of surgical treatment. Basic principles of clinical examination of the patient. Symptoms and syndromes of pathological conditions. Collect anamnesis, conduct a clinical examination of the patient, identify pathological symptoms and syndromes. Analyze the obtained data. Know the main stages of surgical interventions, surgical instruments used, the principles of ablastics and antiblastics.

**Prerequisites** The study of the discipline involves prior mastering of disciplines in medical biology, normal and pathological anatomy, normal and pathological physiology, biochemistry, microbiology, propaedeutics of internal and pediatric diseases, medical genetics, pharmacology and medical formulations, oncoepidemiology and principles care, as well as have practical skills in caring for cancer patients, including children and their management in outpatient and inpatient settings.

**Postrequisites** The main provisions of the discipline should be applied in the study of related disciplines during 4 years of study, is the basis for preparation for the licensing exam EDKI, preparation for study in higher education institutions in the programs of the third educational and scientific level of higher education.

Link to the page of the discipline in MOODLE \_\_Department of Oncology  
<http://distance.knmu.edu.ua/>

## 1. PURPOSE AND TASKS OF THE COURSE

1.1. The purpose of the discipline is to provide training of highly qualified specialists in the field of medicine, able to solve complex problems of diagnosis, treatment and prevention of cancer.

1.2. The main tasks of studying the discipline are the acquisition by students of competencies in accordance with the general and professional competencies of the educational-

professional program " Dentistry " of the second level of higher education in the specialty 221 Dentistry

1.3. Competences and learning outcomes, the formation of which is facilitated by the discipline (relationship with the normative content of training of higher education, formulated in terms of learning outcomes in the OPP and Standard).

1.3.1. The study of the discipline provides students with the acquisition of competencies:

integral:

ability to solve typical and complex specialized tasks and practical problems in professional activities in the field of health care, or in the learning process, which involves research and / or innovation and is characterized by complexity and uncertainty of conditions and requirements

general:

ability to abstract thinking, analysis and synthesis, ability to learn and be modernly trained; ability to apply knowledge in practical situations; knowledge and understanding of the subject area and understanding of professional activity; ability to adapt and act in a new situation; ability to make an informed decision; work in a team; interpersonal skills; ability to communicate in the state language both orally and in writing; ability to communicate in a foreign language; skills of using information and communication technologies; determination and persistence in terms of tasks and responsibilities; ability to act socially responsibly and consciously

special (professional, subject): in the field of oncology:

Survey skills; ability to determine the necessary list of laboratory and instrumental studies and evaluate their results; ability to establish a preliminary and clinical diagnosis of the disease; the nature of nutrition in the treatment of cancer; ability to determine the principles and nature of disease treatment; ability to diagnose emergencies; ability to determine tactics and skills of emergency medical care, including complications of treatment; skills of performing medical manipulations; ability to plan and carry out sanitary and hygienic, preventive measures; ability to determine the tactics of management of persons subject to dispensary supervision; ability to keep medical records.

1.3.2. The study of the discipline provides students with the acquisition of the following program learning outcomes:

PRN 1 - acquisition by a person of general and special fundamental and professionally-oriented knowledge, skills, abilities, competencies necessary for the performance of typical professional tasks related to its activities in the medical field in the relevant position

PRN 2 - knowledge of psychophysiological features of man, human health, health support, disease prevention, human treatment, public health. Application of knowledge and understanding:

PRN 3 - the ability to apply the acquired knowledge, skills and understanding to solve typical problems of the doctor, the scope of which is provided by lists of syndromes and symptoms, diseases, emergencies, laboratory and instrumental research, medical manipulations

PRN 4 - collection of patient information

PRN 5 - evaluation of survey results, physical examination, laboratory and instrumental research data

PRN 6 - establishing a preliminary clinical diagnosis of the disease

PRN 7 - determining the nature, principles of treatment of diseases

PRN 8 - determination of the necessary diet, mode of work and rest in the treatment of diseases

PRN 9 - determination of tactics of contingent contingent of persons subject to dispensary supervision

PRN 10 - diagnosing emergencies, determining the tactics of emergency medical care

PRN 12 - planning of preventive and anti-epidemic measures for infectious diseases

PRN 13 - carrying out medical and evacuation measures

PRN 15 - performance of medical manipulations

PRN 17 - maintaining medical records, processing of state, social and medical information

Formation of judgments:

PRN 18 - the ability to assess human health and provide its support taking into account the impact of the environment and other health factors

PRN 21 - the formation of a specialist with appropriate personal qualities, who adheres to the code of ethics of the doctor

1.3.3. The study of the discipline provides students with the following social skills (Soft skills): communication (implemented through: the method of group work and brainstorming in the analysis of clinical cases, the method of presenting the results of independent work and their defense in the group),

teamwork (implemented through: group work method and brainstorming during the analysis of clinical cases),

conflict management (implemented through: business games),

time management (implemented through: the method of self-organization during classroom work in groups and independent work),

leadership skills (implemented through: the method of presenting the results of independent work and their protection in the group).

## 2. INFORMATION SCOPE OF THE COURSE

### Discipline information

Name of indicators	Field of knowledge, direction of training, educational and qualification level	Characteristics of the discipline
		full-time education
Number of credits - 1	educational program for training specialists of the second (master's) level of higher education	Normative

	training 22 "Health"	
Total number of hours 40	Specialty: 221 "Dentistry"	<b>Year of preparation:</b>
		4th
Hours for day (or evening) form of study: classrooms - 20 independent work of the student -10	Education level: master	<b>Semester</b>
		8
		<b>Lectures</b>
		6 years
		<b>Practical, seminar</b>
		14 years
		<b>Laboratory</b>
		0 years
		<b>Individual work</b>
		10 years
		<b>Individual tasks:</b>
		Type of control: Differentiated credit

## 2.1 Description of the discipline

### 2.2.1 Lectures

<b>№ s / n</b>	<b>Topic</b>	<b>academic hours</b>	<b>Types of lectures</b>
1.	Etiology and pathogenesis of malignant tumors. Diagnosis and treatment of malignant tumors. Tumors of the skin	2	Off line, on line
2.	Tumors of the head and neck: cancer of the lips, tongue, larynx, thyroid gland, oral cavity.	2	Off line, on line
3.	Cancer of the esophagus, stomach, colon and rectum.	2	Off line, on line
<b>Total</b>	<b>6</b>		

### 2.2.3 Practical classes

<b>№ s / n</b>	<b>Topic</b>	<b>academic hours</b>	<b>Methods teaching</b>	<b>Forms control</b>
1.	Cancer of the lips, tongue, larynx, thyroid gland, oral cavity. Lung cancer, mediastinal tumors,	5	Demonstration of patients, story-explanation, presentation,	oral examination (individual and frontal); written survey; test control,

	lymphogranulomatosis		videos, discussion, modeling of processes and situations, coaching (training), and others.	individual tasks; abstracts; report and others
2.	Breast cancer, skin cancer, melanoma.	5	Demonstration of patients, story-explanation, presentation, videos, discussion, modeling of processes and situations, coaching (training), and others.	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
3.	Cancer of the esophagus, stomach, colon and rectum.	4	Demonstration of patients, story-explanation, presentation, videos, discussion, modeling of processes and situations, coaching (training), and others.	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
4.		14		

#### 2.2.5. Independent work

№ s / n	Topic	academic hours	Methods teaching	Forms control
1	Palpation of peripheral lymph nodes, superficial and deep palpation of abdominal organs, digital rectal examination, methods of rectoromanoscopy and colonoscopy, methods of	1	individual tasks	oral examination (individual and frontal); written survey;

	esophago-gastroscopy.			test control, individual tasks; abstracts; report and others
2	Tumors of the mediastinum, lymphogranulomatosis: auscultation and percussion of the lungs to detect disorders of bronchial patency and the presence of free fluid in the pleural cavity; methods of bronchoscopy and pleural puncture.	2	individual tasks	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
3	Puncture aspiration biopsy of breast and thyroid tumors. Dermatoscopy, skin biopsy, scraping from the tumor.	2	individual tasks	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
4	Cancer of the body, cervix, ovaries: collection of complaints, history; general examination of the patient, palpation of regional lymph nodes, bimanual examination.	1	individual tasks	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
5	Cancer of the kidney, ureter, bladder, prostate: collection of complaints, history; general examination of the patient, bimanual examination, taking a wash from the genitals, cystoscopy.	2	individual tasks	oral examination (individual and frontal); written survey; test control,

				individual tasks; abstracts; report and others
6	Curation of patients in order to determine the tactics of examination and management of patients with the most common cancers.	2	individual tasks	oral examination (individual and frontal); written survey; test control, individual tasks; abstracts; report and others
	Total	10		

### 3. EVALUATION CRITERIA

3.1. Evaluation of the success of education of students is carried out on the basis of the current "Instructions for evaluating the educational activities of students of KhNMU"

3.1.1 ECTS credits reflect the amount of study load and include all types of work of the student provided for in the individual curriculum. One ECTS credit is 30 academic hours.

3.1.2 Current control (hereinafter - PC) is carried out by research and teaching staff at each classroom (except for lectures). The main task of current control is to check the level of preparation of students to perform specific work. The main purpose of current control is to provide feedback between research and teaching staff and students in the learning process and to ensure the management of their learning motivation. Based on the results of mastering each topic of the lesson, a grade is given using a 4-point system.

3.1.3 Final lesson (hereinafter - software) - a lesson in which the assessment of acquired competencies after the logically completed part of the discipline, consisting of a set of educational elements of the discipline program. The software is conducted at one of the practical classes, accepted by the teacher of the academic group. The software should include control of all types of training (theoretical, practical, independent and others) provided by the curriculum. The software is rated, which is one of the ratings of the PC. If there are unsatisfactory grades within the software for practical classes, the teacher is obliged to provide the student with the opportunity to answer additional questions on the topic of these classes with subsequent assessment in the "Journal of the academic group" and ACS.

3.1.4 Current educational activity (ODA) is a student's educational activity during the semester, which is supervised by a researcher who conducts classes in a group. IPA is intended for disciplines whose study in the current semester does not end. IPA is considered fulfilled if the applicant in the current semester has completed all missed classes and lectures, and the average score for all topics of the PC is 3 points or higher, in which case the statement is marked "completed" and indicates the average score in 4-point system ( is calculated automatically within the functionality of the electronic journal of ACS), or "unfinished", if the applicant in the current semester has unfinished missed classes and lectures, or an average score below 3 points.

3.1..5 Independent work of the applicant (SRZ)

The educational material of the discipline, provided for mastering by the student in the process of independent work, is submitted for final control together with the educational material studied during the classroom training sessions.

3.1. 6 General educational activity (GIS) is the educational activity of the student throughout the period of study of the discipline Oncology and Radiation Medicine, ending with an assessment with a form of control "differentiated test". CIS is considered fulfilled if the applicant has completed all the missed classes and lectures, and the average score for all topics of the PC is equal to 3 points and above. CIS scores for the disciplines of Oncology and Radiation Medicine with features of childhood with the form of control "differentiated test" are calculated as the arithmetic mean of PC scores for all topics of all semesters, throughout the study period (to the nearest hundredth) according to table 1 "Average grade for the current control in a multi-point scale (for disciplines that end with a medical exam or an exam) ", which is attached (Appendix 1), automatically within the functionality of the electronic journal of the ACS. CIS is defined in points from 70 to 120.

3.1. 7 Individual tasks of the student - in the discipline of Oncology and radiation medicine with the peculiarities of childhood (hereinafter - CPI) contribute to a more in-depth study of the student's theoretical material, the formation of skills to use knowledge to solve relevant practical problems.

Types of individual tasks in the discipline "Oncology' with the peculiarities of childhood" are determined by the curriculum of the discipline. Terms of receipt, performance and protection of individual tasks are determined by the schedule developed by the department for each semester. IE is performed by the applicant independently with the receipt of the necessary advice from the researcher. Cases of performance of IZZ of a complex subject by several students are allowed.

ICDs are evaluated in points (not more than 10), which are added to the points scored by the CIS at the end of the study of the discipline "Oncology and radiation medicine with the peculiarities of childhood", when conducting a "differentiated test"

Assessment of individual tasks of the student is carried out by performing the tasks of the teacher:

- report of the abstract on a practical lesson 0 - 2 points;
- report with a presentation in a practical lesson 0 - 3 points,
- report at scientific and practical conferences of the department, university, writing abstracts, articles 0 - 5 points;
- participation in the All-Ukrainian Olympiad - 5 - 10 points

3.1.8 Semester control in the discipline is carried out at intermediate stages of study and is a mandatory form of control of educational achievements of the student. It is conducted in accordance with the curriculum in the form of a differentiated test, within the timeframe set by the schedule of the educational process and in the amount of educational material defined by the curriculum, curriculum "Oncology and Radiation Medicine with Pediatrics". Differentiated credit is made at the last practical lesson.

The applicant is admitted to the semester control if he has fulfilled the conditions of admission specified in the program. (Table 1)

3.1.9 Assessment of the discipline (hereinafter - OD) - is the final control, which is carried out after the mastering of educational material on the discipline on the basis of his performance of certain types of work on practical, individual tasks and independent work. Assessment of the discipline "Oncology and radiation medicine with the peculiarities of childhood" is carried out at the end of the study in the form of "differential test",

For the discipline "Oncology and radiation medicine with the peculiarities of childhood", with the form of control is a "differentiated test" it is assumed that the admission to the DR is calculated in points of CIS from 70 to 120 points. Directly DZ is estimated from 50 to 80 points. The grade in the discipline is the sum of points for ZND, IZZ and DZ and ranges from 120 to 200 points. (Table 1)

Recalculation of the average score for the current control in a multi-point scale  
(for disciplines ending with DZ or exam)

4-point scale	200-point scale	4-point scale	200-point scale
5	120	3.91-3.94	94
4.95-4.99	119	3.87-3.9	93
4.91-4.94	118	3.83- 3.86	92
4.87-4.9	117	3.79- 3.82	91
4.83-4.86	116	3.74-3.78	90
4.79-4.82	115	3.7- 3.73	89
4.75-4.78	114	3.66- 3.69	88
4.7-4.74	113	3.62- 3.65	87
4.66-4.69	112	3.58-3.61	86
4.62-4.65	111	3.54- 3.57	85
4.58-4.61	110	3.49- 3.53	84
4.54-4.57	109	3.45-3.48	83
4.5-4.53	108	3.41-3.44	82
4.45-4.49	107	3.37-3.4	81
4.41-4.44	106	3.33- 3.36	80
4.37-4.4	105	3.29-3.32	79
4.33-4.36	104	3.25-3.28	78
4.29-4.32	103	3.21-3.24	77
4.25- 4.28	102	3.18-3.2	76
4.2- 4.24	101	3.15- 3.17	75
4.16- 4.19	100	3.13- 3.14	74
4.12- 4.15	99	3.1- 3.12	73
4.08- 4.11	98	3.07- 3.09	72
4.04- 4.07	97	3.04-3.06	71
3.99-4.03	96	3.0-3.03	70
3.95- 3.98	95	Less 3	Not enough

Table 2  
Correspondence of grades on a 200-point scale, four-point "national" and ECTS scale

Score on a multi-point (200) scale	Assessment on the ECTS scale	Score for four-point "national" scale
<b>From 180 to 200 points</b>	<b>A</b>	<b>perfectly</b>
<b>From 160 to 179 points</b>	<b>B</b>	<b>fine</b>
<b>From 150 to 159 points</b>	<b>C</b>	<b>fine</b>
<b>From 130 to 149 points</b>	<b>D</b>	<b>satisfactorily</b>
<b>From 120 to 129 points</b>	<b>E</b>	<b>satisfactorily</b>
<b>Below 120 points</b>	<b>F, Fx</b>	<b>unsatisfactorily</b>

### 3.2. Questions to differentiated offset:

1. Epidemiology of malignant tumors (purpose, research methods).
2. The influence of lifestyle, nutrition, climate, occupational factors on the development of malignant tumors.

3. The difference between cancer in men and women and the causes that cause them.
4. Prevention of malignant tumors (primary, secondary).
5. Classification of malignant human tumors by histogenesis (the concept of "cancer", "sarcoma").
6. International classification of malignant tumors TNM (general characteristics).
7. The concept of cancer (obligate, optional).
8. Phases of carcinogenesis at the cell level.
9. Features of the transformed cell (Haiflick limit).
10. Theories of carcinogenesis.
11. Theory of chemical carcinogenesis.
12. Theory of physical carcinogenesis.
13. Theory of biological carcinogenesis.
14. Genetic theory of carcinogenesis.
15. Metastasis of malignant tumors (mechanism, types, organs, "targets").
16. Determination of malignant growth.
17. The concept of cancer (features of growth and metastasis).
18. The concept of sarcoma (features of growth and metastasis).
19. Carcinoma in situ (examples of diagnosis and treatment).
20. Direct carcinogens and procarcinogens, carcinogenic substances.
21. Groups of increased cancer risk, precancerous diseases.
22. The value of oncoprofiles, their types.
23. The role of ionizing radiation in carcinogenesis.
24. Visual forms of cancer.
25. The concept of medical oncological vigilance and oncological vigilance of the population, the purpose and objectives of anti-cancer propaganda.
26. The role of radionuclides in the occurrence of human tumors.
27. The main methods of examination of cancer patients.
28. Radiation research methods in oncology (X-ray, CT, MRI, ultrasound).
29. NMR tomography and its application in oncology.
30. The role of ultrasound in oncology.
31. The role of radionuclide diagnostic methods in oncology.
32. Features of endoscopic research of oncological patients, types of endoscopic researches in oncology.
33. Cytological method of research in oncology.
34. Histological method of research in oncology.
35. The structure of the oncology clinic.
36. Medical records issued to cancer patients.
37. Methods of treatment of malignant tumors (surgical, radiation, chemotherapeutic).
38. Treatment of malignant tumors (combined and complex).
39. Types of treatment of cancer patients (radical, palliative and symptomatic).
40. Principles of surgical treatment of malignant tumors (ablative, conservative, zonal, antineoplastic).
41. Regional and antineoplastic (mechanical, chemical, physical).
42. Radiation therapy of malignant tumors (external, intracavitary, intrathyroid irradiation). Harmful mechanism of action.
43. Chemotherapy of malignant tumors, the main groups of chemotherapeutics.
44. Hormone therapy of tumors
45. Clinical groups of patients.
46. Rehabilitation of cancer patients.
47. Symptomatic treatment and care of cancer patients.
48. Examination of incapacity for work of cancer patients.
49. Deontology in oncology.
50. Tumors of the head and neck, principles of diagnosis and treatment.

51. Lip cancer, clinic, diagnosis, treatment.
52. Speech cancer, clinic, diagnosis, treatment.
53. Cancer of the oral mucosa, clinic, diagnosis, treatment.
54. Laryngeal cancer, clinic, diagnosis, treatment.
55. Thyroid cancer, clinic, diagnosis, treatment.
56. Skin cancer, epidemiology, morbidity.
57. Skin cancer, basal cell carcinoma, diagnosis, treatment.
58. Pigmented tumors, melanoma, clinic, diagnosis, treatment.
59. Soft tissue tumors, clinic, diagnosis, treatment methods.
60. Breast cancer, morbidity, risk factors.
61. Pathogenesis of breast cancer.
62. Differential diagnosis of nodular breast cancer and nodular forms of mastopathy.
63. Clinical variants of the course of breast cancer.
64. Clinic of nodular breast cancer.
65. Clinic of diffusion forms of breast cancer.
66. Special (liquid) forms of breast cancer (occult, non-palpable, marginal, primary-multiple, additional breast cancer, Paget's cancer).
67. Classification of breast cancer by TNM.
68. Tactics of treatment for suspected breast cancer.
69. Basic methods of diagnosing breast cancer.
70. Surgical methods in the treatment of breast cancer.
71. Principles of radiation and chemotherapy for breast cancer.
72. Rehabilitation of patients with breast cancer.
73. Features of metastasis of breast cancer.
74. Lung cancer, morbidity, risk factors.
75. Etiology of lung cancer, the role of smoking.
76. Clinical and anatomical classification of lung cancer Savitsky.
77. Clinic of peripheral lung cancer.
78. Basic methods of diagnosing lung cancer.
79. Clinic of central lung cancer.
80. Pencosta cancer (clinic, diagnosis).
81. Atypical forms of lung cancer.
82. Features of metastasis of lung cancer.
83. TNM-classification of lung cancer.
84. Surgical treatment of lung cancer.
85. Chemotherapy and radiation treatment of lung cancer.
86. Esophageal cancer, morbidity, etiology.
87. Clinic of esophageal cancer.
88. Basic methods of diagnosing esophageal cancer.
88. Basic methods of diagnosing esophageal cancer.
89. Treatment of esophageal cancer (cervical, thoracic, abdominal).
90. Gastric cancer, morbidity, etiology.
91. High-risk groups for gastric cancer. Precancerous diseases of the stomach.
92. Clinical classification of gastric cancer.
93. Clinic of gastric cancer depending on the location of the tumor.
94. Atypical variants of gastric cancer.
95. Complicated variants of gastric cancer.
96. Distant metastases of gastric cancer (Virchow, Krukenberg, Schnitzler, sister Joseph).
97. Early diagnosis of gastric cancer.
98. Basic methods of diagnosing gastric cancer.
99. Treatment of gastric cancer.
100. Symptomatic and palliative surgery for gastric cancer.

101. Colorectal cancer, epidemiology, morbidity, precancerous diseases.
102. Clinic and classification of colon cancer.
103. Atypical variants of the course of colon cancer.
104. Features of the clinical course of cancer of the right half of the colon.
105. Features of the clinical course of cancer of the left half of the colon.
106. The main methods of diagnosing colon cancer.
107. Treatment of colon cancer.
108. Coffey-Hartmann operation (indications, technique).
109. Complications of colon cancer.
110. Rectal cancer, precancerous diseases.
111. Clinic of rectal cancer.
112. Diagnosis of colorectal cancer.
113. Treatment of colorectal cancer (sphincter-preserving and sphincter-destroying operations).
114. Pancreatic cancer, clinic, diagnosis, treatment.
115. Cancer of the uterine body, clinic, diagnosis, treatment.
116. Tumors of the cervix, clinic, diagnosis, treatment.
117. Ovarian cancer, clinic, diagnosis, treatment.
118. Precancerous diseases of the female genitalia.
119. Kidney cancer (clinic, diagnosis, treatment).
120. Bladder cancer (clinic, diagnosis, treatment).
121. Prostate cancer clinic, diagnosis, treatment.
122. Testicular cancer, clinic, diagnosis, treatment.

### 3.3. control questions

#### Content module 1. Tumors of the digestive tract.

1. Lip cancer: morbidity, causes, epidemiology, precancerous diseases, principles of classification, clinic, diagnosis, early diagnosis, differential diagnosis, principles of combined and complex treatment.
2. Cancer of the oral mucosa: morbidity, causes, epidemiology, precancerous diseases, principles of classification, clinic, diagnosis, early diagnosis, differential diagnosis, principles of combined and complex treatment.
3. Cancer of the tongue: morbidity, causes, epidemiology, principles of classification, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, principles of combined and complex treatment.
4. Esophageal cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, principles of combined and complex treatment.
5. Barrett's esophagus: causes, clinic, diagnosis, early diagnosis, medical examination of patients, principles of treatment.
6. Gastric cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, differential diagnosis, classification, principles of combined and complex treatment.
7. Early diagnosis, principles and methods of gastric cancer screening, medical examination of patients.
8. Primary and secondary prevention of esophageal and gastric cancer.
9. Pancreatic cancer: morbidity, causes, precancerous diseases, clinic, diagnosis, differential diagnosis, classification, general principles of treatment, prevention.
10. Liver cancer: morbidity, causes, clinic, diagnosis, general principles of treatment.
11. Diagnosis and differential diagnosis of mechanical jaundice, treatment methods, symptomatic operations.
12. Colon cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, principles of combined and complex treatment, methods of medical rehabilitation.

13. Rectal cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and comprehensive treatment, methods of medical rehabilitation of patients.

14. Diagnosis and differential diagnosis of intestinal obstruction, methods of surgical treatment, symptomatic operations.

15. Principles and methods of screening for colon and rectal cancer, medical examination of patients.

16. Primary and secondary prevention of colon and rectal cancer.

Content module 2. Tumors of the respiratory organs, breast, thyroid, skin.

1. Lung cancer: morbidity, causes, epidemiology, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and complex treatment.

2. Central lung cancer, pathogenesis and phases of development of bronchoobturation syndrome, the main clinical manifestations of lung cancer in the early stages, differential diagnosis of lung cancer.

3. Metastatic lung tumors: diagnosis, differential diagnosis, principles of treatment.

4. Principles and methods of screening for lung cancer, medical examination of patients.

5. Primary and secondary prevention of lung cancer.

6. Tumors of the mediastinum (thymoma, lymphosarcoma, teratoma): clinic, diagnosis, differential diagnosis, classification, general principles of treatment, combined and complex treatment.

7. Breast cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification.

8. Principles and methods of screening for breast cancer, medical examination patients, primary and secondary prevention of breast cancer.

9. Thyroid cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and complex treatment.

10. Lymphogranulomatosis: clinic, diagnosis, differential diagnosis, classification, general principles of treatment; combined and complex treatment.

11. Skin cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and complex treatment; primary and secondary prevention.

12. Melanoma: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, differential diagnosis, classification, general principles of treatment; primary and secondary prevention.

Content module 3. Tumors of the genitals and urinary organs.

1. Cancer of the uterine body: morbidity, causes, epidemiology, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and comprehensive treatment.

2. Cervical cancer: morbidity, causes, epidemiology, precancerous diseases, clinic, diagnosis, early diagnosis, differential diagnosis, classification, combined and complex treatment; primary and secondary prevention.

3. Ovarian cancer: morbidity, clinic, diagnosis, classification, general principles of treatment: combined and complex treatment.

4. Kidney cancer: morbidity, clinic, diagnosis, differential diagnosis, classification, general principles of treatment: surgical treatment; combined treatment.

5. Bladder cancer: morbidity, clinic, diagnosis, differential diagnosis, classification, general principles of treatment: surgical treatment; combined treatment.

6. Prostate cancer: morbidity, clinic, diagnosis, differential diagnosis, classification, general principles of treatment.

7. Cancer, modern ideas about carcinogenesis, carcinogens, the main causes of cancer. Cancer incidence, structure, accounting and dynamics.

8. Classification of oncological diseases, TNM system.

9. Organization and tasks of the oncology service. Anti-cancer struggle, medical examination of cancer patients.
10. Primary and secondary prevention of cancer.
11. Palliative and symptomatic therapy of cancer patients: tasks, principles, methods.
12. Pain management, principles, methods, main groups of analgesics.
13. Methods of palliative treatment of the main symptoms of tumors of the digestive tract.
14. Methods of palliative treatment of the main symptoms of respiratory tumors.
15. Methods of palliative treatment of the main symptoms of genital tumors.
16. Methods of palliative treatment of the main symptoms of urinary tract tumors.
17. Ethical and psychological principles of palliative care for cancer patients.

#### 3.4. Individual tasks

1. Examination and palpation of the mammary glands.
2. Teaching the patient to self-examination of the breasts
3. Palpation of peripheral lymph nodes.
4. Methods of puncture biopsy of tumors and peripheral lymph nodes.
5. Taking prints, smears from ulcers and tumors of the skin and mucous membranes.
6. Preparation of the patient for X-ray examination
7. Sputum collection for cytological examination.
8. Finger examination of the rectum.
9. Preparation and conduct of rectoromanoscopy, colonoscopy.
10. Methods of chemotherapeutic treatment. Safety precautions.
11. Filling in the primary medical documentation for the first identified cancer patient
12. Methods of preparation for radioimmunological examinations, scanning, ultrasound diagnostics, X-ray examinations, including computed tomography.
13. Methods of blood sampling for the study of tumor markers.
14. Features of care for patients with radiation therapy
15. Diagnosis of complications of chemotherapy and radiation therapy.

#### 3.5. Rules for appealing the assessment

The normative legal acts that regulate the procedure of appealing the evaluation results are the Law of Ukraine "On Education", the Law of Ukraine "On Higher Education", the Regulations on the Organization of the Educational Process at Kharkiv National Medical University.

3.5.1. Current evaluation. Disputes concerning the current assessment are resolved within a week after the announcement of the results of the current control. The applicant for higher education has the right to apply for a justification for the results of the current assessment and / or existing, in his opinion, violations of the procedure of the control measure to the teacher who carried out the assessment. The teacher, in the presence of the head of the Department of Oncology, justifies compliance with the requirements of the control measure and compliance of the assessment with the evaluation criteria, with which the applicant was acquainted before the control measure.

3.5.2. Final semester (course) control. An appeal against the results of the difzalik is usually made on the day of the event, but not later than the next day after the announcement of the results. The higher education applicant applies to the teacher who conducted the difzalik for an explanation of the grade. If the applicant disagrees with the results of the final control and / or believes that there was a violation of the procedure of the control measure, and the justification of the teacher who conducted the assessment according to the criteria set out in the work program of the discipline from the applicant's point of view is not objective. has the right to apply to the dean of the faculty with an appeal, which indicates the reason for the appeal.

3.5.3. The appeal is considered by the appeal commission consisting of the dean of the faculty or his deputy, the guarantor of the educational program, the head of the oncology department, two or three leading teachers of the department, including the teacher who took the difzalik. The commission may include representatives of the student self-government council.

3.5.4. The appeal is considered at the meeting of the appeal commission no later than the next working day after its submission in the presence of the applicant. Postponement of the appeal is

not allowed. During the consideration of the appeal, a protocol is kept, in which all remarks of the commission members and conclusions on the evaluation are recorded.

3.5.5. Applicants are given the opportunity to re-take the final control of the members of the appeal commission for a new ticket.

3.5.6. Based on the results of the appeal, the commission makes one of the decisions: - the grade in the discipline corresponds to the level and quality of work performed (oral answers provided) and does not change; - the grade in the discipline does not correspond to the level and quality of work performed (oral answers provided) and changes to the number of points determined by the commission and a new grade is indicated in points, on the national scale and on the ECTS scale;

3.5.7. The decision of the appeal commission shall be brought to the notice of the applicant by the chairman of the appeal commission upon completion of consideration of the appeal in oral form or, at the request of the applicant, in writing. The decision of the appeal commission is final and not subject to appeal.

#### 4. DISCIPLINE POLICY

To successfully complete the course "Oncology" it is necessary to regularly attend practical classes; to have theoretical preparation for practical classes according to the subject; not to be late and not to miss classes; perform all necessary tasks and work in each lesson; be able to work with a partner or in a group; contact the curators of the course on various issues on the subject of classes and receive it when you need it.

Students can discuss different tasks, but their performance is strictly individual. It is not allowed to write off, use various software, tips, use a mobile phone, tablet or other electronic gadgets during classes for purposes other than the educational process. Students are not allowed to attend practical classes.

Visiting patients during hospital treatment is possible provided that students have appropriate clothing, a health book with a diphtheria vaccination mark, the results of a measles immunity test (or a vaccination mark), or other infectious diseases according to the current epidemic situation.

Students with special needs can meet with the teacher or warn him before the start of classes, at the request of the student it can be done by the head of the group. If you have any questions, please contact the teacher.

Students' participation in research and conferences on this topic is encouraged.

All students of KhNMU are protected by the Regulations on Prevention, Prevention and Settlement of Cases Related to Sexual Harassment and Discrimination at Kharkiv National Medical University, designed to determine an effective mechanism for resolving conflict situations related to discrimination and sexual harassment. on the basis of the following normative legal acts of Ukraine: the Constitution of Ukraine; Law of Ukraine "On Education"; Law of Ukraine "On Higher Education"; Law of Ukraine "On Principles of Preventing and Combating Discrimination in Ukraine"; Law of Ukraine "On Ensuring Equal Rights and Opportunities for Women and Men"; Convention for the Protection of Human Rights and Fundamental Freedoms; Convention for the Suppression of Discrimination in Education; Convention on the Elimination of All Forms of Discrimination against Women; General Recommendation № 25 to paragraph 1 of Article 4 of the Convention on the Elimination of All Forms of Discrimination against Women; Cultural Rights; UN Committee on Economic, Social and Cultural Rights); Recommendations for Education in the Spirit of International Understanding, Cooperation and Peace and Education in the Spirit of Respect for Human Rights and Fundamental Freedoms (UNESCO); Concept of the State Social Program and men for the period up to 2021. Kharkiv National Medical University provides education and work that is free from discrimination, sexual harassment, intimidation or exploitation. The University recognizes the importance of confidentiality. All persons responsible for the implementation of this policy (staff of deans' offices, faculties, institutes and the Center for Gender Education, members of the student government and ethics committee, vice-rector for research and teaching) are confidential about those who report or accuse of discrimination. or sexual harassment (except where the law

requires disclosure and / or when disclosure by the University is necessary to protect the safety of others).

KhNMU creates a space of equal opportunities, free from discrimination of any national, racial or ethnic origin, sex, age, disability, religion, sexual orientation, gender, or marital status. All rights, privileges, programs and activities granted to students or staff of the University apply to all without exception, provided they are properly qualified. The anti-discrimination policy and the policy of counteracting sexual harassment of KhNMU are confirmed by the Code of Corporate Ethics and the Charter of KhNMU.

#### Behavior in the audience

It is important for students to follow the rules of good behavior at the university. These rules are common to all, they also apply to all faculty and staff, and are not fundamentally different from the generally accepted norms.

During classes it is allowed:

- leave the audience for a short time if necessary and with the permission of the teacher;
- drink soft drinks;
- take photos of presentation slides;
- take an active part in the class

Forbidden:

- eat (except for persons whose special medical condition requires another - in this case, medical confirmation is required);
- smoking, drinking alcohol and even low-alcohol beverages or on
- use obscene language or use words that offend the honor and dignity of colleagues and faculty;
- gambling;
- damage the material and technical base of the university (damage inventory, equipment; furniture, walls, floors, litter the premises and territories);
- shouting, shouting or listening to loud music in classrooms and even in corridors during classes.

#### 5. ACADEMIC INTEGRITY

Violation of academic integrity is:

academic plagiarism - publication (partially or completely) of scientific (creative) results obtained by other persons as the results of own research (creativity), and / or reproduction of published texts (published works of art) of other authors without indication of authorship; a form of academic plagiarism is self-plagiarism, which consists in reproducing one's own previously published texts without reference to the source of information;

fabrication - falsification of research results, references, or any other data related to the educational process;

deception - providing knowingly false information about their own educational (scientific, creative) activities or organization of the educational process;

write-off - use without the appropriate permission of external sources of information when evaluating learning outcomes;

bribery - the provision (receipt) of a participant in the educational process or a proposal to provide (receive) funds, property or services of a tangible or intangible nature in order to obtain an illegal benefit in the educational process.

The Department of Oncology supports the principles of academic integrity. Students are expected to constantly raise their awareness of academic writing. The first classes will provide information on what to consider plagiarism and how to properly conduct research and scientific research.

#### 6. Recommended Books

##### Basic

1. Algorithms of modern oncology. / Edited by Shchepotin IB, Bondarya GV, Ganula VL - K .:

Книга плюс- 2006.

2. Bondar GV, Antipova SV Selected lectures on clinical oncology. - OJSC, Luhansk, 2009-7.- 510 p.
3. Bondar GV, Vitenko IS, Popovich O.Yu. Palliative care. Donetsk, Donetsk region. - 2004. - 150p.
4. Ganul.VL, Kirkilevsky SI. Esophageal cancer: a guide for oncologists and surgeons. K .: Book plus. - 2003. - 200p.
5. Efetov VM Selected lectures on clinical oncology. 1997. -260p.
6. Oncology. / Ed. VP Bashtan, AL Odabashyan, PV Sheleshko - Ternopil; Ukrmedkniga, 2003.-316p.
7. Oncology: Textbook - 3rd edition, revised. and add. / BT Bilinsky, NA Volodko, AI Hnatyshak, OO Galay, etc .; For order. BT Bilynsky - K. Health, 2004. - 528p.
8. Starikov VI General oncology: Textbook.- Kharkov: KhSMU, 2001.- 72p.
9. Starikov VI, Trunov GV Lung cancer.- Kharkiv, "Katran KPK LLC", - 2002.-212p.
10. Yu.Shevchenko AI Oncology. Electr. textbook for students of higher medical institutions., Zaporozhye.-2006.
11. Shchepotin IB, Ganul VL, Klimenko IO etc. Oncology.- K .: Book plus. -2006. - 496с.
12. Encyclopedia of Clinical Oncology. Guide for practicing physicians / MI Davydov, GL Vyshkovsky and others - M .: Radar - 2005,2004.-1536 p.
13. Oxford Textbook of Oncology David J. Kerr, Daniel G. Haller, Cornelis J. H. van de Velde, Michael Baumann, Oxford University Press, 28 янв. 2016 г. -: 832

#### **Auxiliary**

1. Atlas of oncological operations / Ed. B.E. Peterson, VI Chissov, AI Pachesa - M .: Medicine, 1987. -534p.
2. Lupaltsov VI, Tsyganenko AY, Sennikov IA Elements of general care for patients in a surgical hospital. - Kharkiv, 1999. - 232 p.
3. Переводчикова Н.И. Guide to chemotherapy of tumors / Ed. N.I. Translator. - 2nd ed., Add.- M .: Practical Medicine, 2005.-S. 195- 209.
4. Chernousov AF, Polikarpov SA, Chernousov FA Gastric cancer surgery. - Moscow, - 2004, 560 p.

#### **Information resources**

##### **7. INFORMATION RESOURCES**

Link to the page of the discipline in MOODLE Department of Oncology <http://distance.knmu.edu.ua/rosoncweb.ru>  
[oncology-knmu.com.ua](http://oncology-knmu.com.ua)

knmu.kharkov.ua  
moz.gov.ua  
unci.org.ua  
mozdocs.kiev.ua  
ncru.inf.ua  
oncology.kiev.

## 8. OTHER

### Occupational Health

The first lesson of the course will explain the basic principles of labor protection by conducting appropriate training. It is expected that everyone should know where the nearest evacuation exit is, where the fire extinguisher is, how to use it, and so on.

The procedure for informing about changes in the syllabus: the necessary changes in the syllabus are approved by the methodical commission of KhNMU on the problems of professional training of pediatric profile and published on the website of KhNMU, the website of the Department of Oncology of KhNMU.

Head of the Department of Oncology,  
Professor

Starikov VI