

**MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION, MINISTRY
OF SCIENCE, HIGHER EDUCATION AND INNOVATION**
Kyrgyz-Russian Slavic University
named after the First President of the Russian Federation BN Yeltsin



Oncology, radiation therapy

annotation of discipline (module)

Assigned to the Department **of Oncology and Radiation Diagnostics and Therapy**

Curriculum **Specialty 560001-KR Medical business (for international students)**

Qualification **Specialist**

Study form **full**

-time Total labor **intensity 3 Z**

Hours according to the including:

	108
classroom classes	64
independent work	43.7

Types of control in semesters:
credit with an assessment of 11

Distribution of discipline hours by semester

Semester (<Course>. <Semester on the course>)	11 (6.1)		Total	
	18			
Weeks	UP	RP	UP	RP
Type of classes				
Lectures	16	16	16	16
Practical	48	48	48	48
Contact work during theoretical training	0.3	0.3	0.3	0.3
Including int.	4	4	4	4
Total aud.	64	64	64	64
Contact work	64.3	64.3	64.3	64.3
Self-work	43.7	43.7	43.7	43.7
Total	108	108	108	108

1. GOALS OF MASTERING THE DISCIPLINE

1.1	The general purpose of teaching oncology is to develop general medical knowledge and to teach the basics of cancer diagnosis and treatment. At the same time, it is necessary to pay attention to the issues of prevention and early diagnosis of the most common forms of tumors, such as lung cancer, stomach cancer, breast cancer and others.
1.2	The program is designed in such a way that students get a holistic view of oncology, have the opportunity to conduct differential diagnostics with other diseases

2. PLACE OF THE DISCIPLINE IN THE STRUCTURE OF OOP

Cycle (section) OOP:	B1. B
2.1	Requirements for preliminary training of a student:
2.1.1	Anatomy
2.1.2	Pathological anatomy
2.1.3	Histology, embryology, and cytology
2.1.4	Pharmacology
2.1.5	Pathophysiology, clinical pathophysiology
2.1.6	Infectious diseases
2.1.7	Obstetrics and Gynecology
2.1.8	Traumatology, orthopedics
2.1.9	Otorhinolaryngology
2.1.10	General surgery
2.1.11	Propaedeutics of internal diseases
2.1.12	Microbiology, virology
2.1.13	Hospital therapy
2.1.14	Pediatric surgery
2.1.15	Hospital surgery
2.1.16	Outpatient therapy
2.1.17	Psychotherapy
2.1.18	Ophthalmology
2.1.19	Psychiatry, medical psychology
2.1.20	Clinical Biochemistry
2.1.21	Clinical Pharmacology
2.1.22	Clinical Practice (Assistant Physician)
2.1.23	Neurology, Medical Genetics, Neurosurgery
2.1.24	Public health and Healthcare, Health Economics
2.1.25	Occupational Diseases
2.1.26	Urology
2.1.27	Faculty of Therapy
2.1.28	Faculty of Surgery
2.1.29	Endocrinology
2.1.30	Epidemiology
2.1.31	Radiation diagnostics
2.1.32	Fundamentals of emergency care
2.1.33	Practical training to gain professional skills and experience in professional activities(Assistant to a procedural nurse)
2.1.34	Topographic Anatomy and Operative Surgery
2.1.35	Bioethics
2.1.36	Biochemistry
2.1.37	Normal Physiology
2.1.38	Immunology
2.1.39	Biology
2.1.40	History of Medicine
2.1.41	Latin

2.2	Disciplines and practices for which the development of this discipline (module) is necessary as preliminary:
2.2.1	Psychotherapy
2.2.2	Dermatovenereology
2.2.3	Phthysiology
2.2.4	Traumatology and orthopedics
2.2.5	Hospital therapy
2.2.6	Outpatient therapy

3. THE STUDENT'S COMPETENCIES FORMED AS A RESULT OF MASTERING THE DISCIPLINE(MODULE)

PC-9: readiness to manage and treat patients with various nosological forms in outpatient and day hospital

Settings To know:

Level 1	etiology, pathogenesis, clinic of major diseases with various nosological forms;
Level 2	main types and methods of treatment of patients with various nosological forms;
Level 3	methods of management and treatment of patients with various nosological forms in outpatient and day hospital settings.

Be able to:

Level 1	correctly identify this disease;
Level 2	compare different types and methods of treatment of patients with different nosological forms, develop a treatment plan for diseases;
Level 3	manage and treat patients in outpatient and day hospital settings.

Own:

Level 1	skills in analyzing different types of treatment for patients with different nosological forms;
Level 2	techniques for finding and comparing different methods of treatment for patients with different nosological forms;
Level 3	skills in managing and treating patients with various diseases in outpatient and day hospital settings.

PC-8: ability to determine the management tactics of patients with various nosological forms

To know:

Level 1	etiology, pathogenesis, clinic of diseases;
Level 2	main types and methods of treatment of patients with various nosological forms;
Level 3	main directions and problems in the management of patients with various diseases.

Be able to:

Level 1	to reveal the meaning of determining the management tactics of patients with various diseases;
Level 2	to compare different types and methods of treatment of patients with various nosological forms, to develop a treatment plan for diseases;
Level 3	note the practical value of requiring emergency medical care. individual management tactics of patients with various nosological forms.

Own:

Level 1	skills in presenting and analyzing the etiology and pathogenesis of various clinical diseases for making a diagnosis;
Level 2	techniques for finding and comparing different treatment methods for patients with various nosological forms;
Level 3	skills in determining the management tactics of patients with diseases.

PC-6: ability to determine the patient's main pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the International Statistical Classification of Diseases and Health problems, X revision

Know:

Level 1	methods of research to identify the main pathological conditions, symptoms, syndromes of diseases, nosological forms;
Level 2	specifics of identifying various types of pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with ICD X revision;
Level 3	main syndromes of organ and system damage and their specifics in the differential diagnosis of various nosological forms in the Russian Federation. In accordance with ICD X

, you should be able to:

Level 1	to understand the results of the study of the main nosological forms of diseases;
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Level 2	analyze different types of pathological conditions, symptoms, syndromes of diseases, nosological forms in accordance with the ICD;
Level 3	note the practical value when comparing specific pathological syndromes, symptoms of diseases.
Own:	
Level 1	skills in identifying the main pathological conditions, symptoms, and syndromes of diseases;
Level 2	techniques for searching, identifying, and systematizing the main pathological conditions, symptoms of disease syndromes, and nosological forms in accordance with ICD X revision;
Level 3	skills in self-justifying combining various symptoms and syndromes into nosological forms in accordance with (ICD X revision).

PC-5: readiness to collect and analyze patient complaints, medical history, examination results, laboratory, instrumental, patho-anatomical and other studies in order to recognize the condition or establish the fact of the presence or absence of the disease

To know:

Level 1	methods and means of collecting and analyzing patient complaints, medical history data, indications and contraindications for conducting additional clinical and paraclinical research methods;
Level 2	the need to collect and analyze patient complaints, medical history data;
Level 3	indications and contraindications for conducting additional clinical and paraclinical research methods.

Be able to:

Level 1	collect and analyze patient complaints, medical history data;
Level 2	prescribe laboratory, instrumental, pathoanatomical and other studies in order to recognize the condition or establish the fact of the presence or absence of the disease;
Level 3	use methods and means of medical examination, diagnostic measures.

Own:

Level 1	skills in collecting and analyzing patient complaints, medical history data, interpreting the results of the most common functional diagnostic methods used to detect blood, heart and vascular pathology, lungs, kidneys, liver and other organs and systems;
Level 2	skills in writing a medical history, prescribing the necessary laboratory and instrumental examination methods for recognizing state or establishing the fact of the presence or absence of a disease;
Level 3	skills in constructing a clinical diagnosis.

As a result of mastering the discipline, the student should

3.1	already know:
3.1.1	maintenance of approved forms of accounting and reporting documentation, epidemiology of oncological diseases;
3.1.2	clinical manifestations of all tumor diseases, examination methods that allow them to be diagnosed or excluded;
3.1.3	algorithm for using examination methods;
3.1.4	principles of organizing cancer care in the Russian Federation and the Kyrgyz Republic, general issues of organizing cancer care for the population, the work of oncological
3.1.5	knowledge of the principles of medical ethics and deontology, maintaining approved forms of accounting and reporting
3.1.6	etiopathogenesis of malignant tumors, clinical manifestations of all tumor diseases, methods of examination that allow them to be diagnosed or excluded.
3.1.7	algorithm of use of examination methods, methods of treatment of all types of tumor diseases
3.1.8	medical institutions where patients can and should receive this treatment, prognosis (life, laboratory, social) for each disease, opportunities and methods of tumor prevention;
3.1.9	ethics of communication with cancer patients and their relatives;
3.1.10	qualified collection of anamnesis, methods of physical examination ³
3.1.11	.1.11 general issues of organization of medical and preventive care and provision of medicines to various groups of the population in accordance with nosological forms of diseases;
3.1.12	ethical standards for the use of medicines, both when testing new and registered ones;
3.1.13	forms of information about new medicines, taking into account the effectiveness, dosage regimen, interaction and side effects;
3.1.14	basic principles of clinical and pharmacological characteristics of medicinal products used in general medical practice;

3.1.15	side effects of medicinal products, predicted and unpredictable, ways to prevent and correct side effects of medicinal products.
3.2	Be able to:
3.2.1	choose the most informative methods of physical, instrumental and laboratory examination;
3.2.2	summarize and correctly evaluate the results of the examination;
3.2.3	assess the severity of the patient's condition, apply the necessary measures to remove patients from this condition;
3.2.4	assess the severity of the patient's condition, apply the necessary measures to remove patients from this condition,
3.2.5	determine the scope and sequence of treatment measures; conduct emergency and resuscitation measures; choose the most effective treatment methods for each individual patient;
3.2.6	rationally plan algorithms for combined and complex treatment;
3.2.7	rationalize the results of medical and diagnostic work with cancer patients;
3.2.8	organize an information system in the medical institution on the choice of medicines, their
dosage	regimen, interaction, predicted side effects;
3.2.10	monitor the use of medicines in a medical institution, their expiration dates,
3.2.11	compliance with compatibility, compliance with storage rules;
3.2.12	assist in choosing combination therapy in order to exclude undesirable interactions, increase side effects, reduce the effectiveness of the base drug; conduct pharmacotherapy for hospital and polyclinic doctors, taking into account the severity of the disease, functional systems, biorhythm
3.2.13	provide assistance in choosing combination therapy in order to exclude undesirable interactions, increase side effects, and reduce the effectiveness of the base drug.
3.3	Own:
3.3.1	qualified collection of medical history, physical examination methods;
3.3.2	method of differential diagnosis of malignant neoplasms and urgent conditions;
3.3.3	methods of material collection for morphological examination (smears, scrapings, punctures);
3.3.4	method of analysis of cases of late detection of oncological diseases, analysis of discrepancies
3.3.5	diagnoses (main, concomitant and their complications) and causes of deaths, development of measures to improve the quality of medical and diagnostic work;
3.3.6	ethics of communication with cancer patients and their relatives; qualified collection of anamnesis, methods of physical examination;
3.3.7	treatment methods (depending on the chosen specialty profile), operative or drug management and monitoring at all stages of treatment, ways to correct the developed complications;
3.3.8	fundamentals of rational pharmacotherapy, taking into account the severity of the disease, the state of functional systems, genetic drug pharmacokinetic monitoring data;
3.3.9	methods of correction of pharmacotherapy in patients who have been diagnosed with adverse side effects drugs or are resistant to the current pharmacotherapy;
3.3.10	fundamentals of the work of the clinical expert commission;
3.3.11	methods of departmental examination of the quality of the conducted pharmacotherapy