

MINISTRY OF HEALTH OF UKRAINE
KHARKIV NATIONAL MEDICAL UNIVERSITY

Department of Propaedeutics of Internal Medicine No. 2 and Nursing

Academic Year 2022-2023

SYLLABUS OF THE EDUCATIONAL COMPONENT
"Palliative and Hospice Medicine. Nursing ethics and deontology.
Nursing in Gerontology and Geriatrics"

Mandatory Educational Component

The format of the educational component is face-to-face

Field of knowledge 22 "Health care"

Specialty "223 "Nursing"

Educational and professional program " Nursing"

First (bachelor's) level of higher education

Course Second (four years of study)

The syllabus of the educational component was considered at a meeting of the Department of Propaedeutics of Internal Medicine No. 2 and Nursing

Protocol from
"June 14, 2022 No. 1 1

Acting Head of the Department



(Signature)

As. Professor Pionova O.M.
(surname and initials)

Approved by the Methodological Commission of KhNMU on Therapeutic Problems

Protocol from
"August 25, 2022 No. 1

Head of commission



(signature)

Professor Kravchun P.P.
(surname and initials)

SYLLABUS DEVELOPERS:

1. Khimich T.Y., Associate Professor of the Department of PIM No. 2 and nursing, Associate Professor, Ph.D.
2. Semydotska Zh. D. Professor of the Department of PIM No. 2 and nursing, Professor, Doctor of Medical Sciences.
3. Yeryomenko G.V. Professor of the Department of PIM No. 2 and nursing, Professor, Doctor of Medical Sciences.

DATA ON TEACHERS TEACHING THE EDUCATIONAL COMPONENT

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Information about consultations Face-to-face consultations: according to the schedule of the department on the basis of the department - regional clinical hospital and by prior arrangement. On-line consultations: by prior arrangement with the teacher using the resources of the Moodle system. (<http://31.128.79.157:8083/login/index.php>)

Location. Venue for lectures and practical classes: lecture hall and classrooms of the Department of Propaedeutics of Internal Medicine No. 2 and Nursing, 3 Trinkler St.

Classes: Monday, Tuesday, Wednesday, Thursday, Friday (9:00-11:⁵⁰/13:20-17:¹⁰ according to the schedule);

INTRODUCTION

The syllabus of the educational component "Palliative and hospice medicine. Medical Ethics and Nursing in Gerontology and Geriatrics" is compiled in accordance with the educational and professional program (hereinafter referred to as the OPP) "Nursing" and the Standard of Higher Education of Ukraine, the first (bachelor's) level, field of knowledge 22 "Health care", specialty 222 "Nursing"

Description of the educational component (abstract)

The beginning of the 21st century is marked by the aging of the population, the growth of cancer, the spread of AIDS, the increase in the number of patients with chronic progressive diseases, which leads to the emergence of a large group of incurable patients who experience severe suffering and need adequate comprehensive medical and social assistance.

The progress of medicine as a science, the improvement of medical technologies in recent decades have led to the fact that most of the patients, who in the old days would have been doomed to death, today survive at the cost of their transformation into chronic patients. As a rule, the death of these patients is preceded by a final period of several weeks to several months, in which the spectrum of symptoms is determined not only by the main but also by concomitant diseases, side effects of therapy, psychological and social consequences associated with the presence of a chronic progressive disease.

The problem is also exacerbated by the difficulties associated with caring for such patients, medical care, obtaining painkillers, the lack and high cost of many drugs, the shortage of middle and junior medical personnel, and the lack of vehicles to provide care at home.

Study of the educational component "Palliative and Hospice Medicine. Medical Ethics and Nursing in Gerontology and Geriatrics." uses a set of theoretical and practical issues aimed at mastering the main causes, mechanism and features of the development of diseases in elderly patients, the main methods of examination and the rules for diagnosis, treatment and prevention of the most common diseases of internal organs in elderly and senile patients.

Prerequisites and post-requisites of the discipline in accordance with the approximate curriculum, the study of the educational component "Palliative and Hospice Medicine. Medical Ethics and Nursing in Gerontology and Geriatrics" occurs when a higher education student has acquired appropriate knowledge in the main basic disciplines: medical biology, medical and biological physics, human anatomy, physiology, biological and bioorganic chemistry, medicinal chemistry, histology, cytology and embryology, microbiology, virology and immunology, "examination and assessment of human health", "Clinical pharmacology with toxicology", with which the clinical program is integrated nursing. "Clinical Nursing in Internal Medicine" forms the basis for establishing a clinical diagnosis, prescribing

treatment and methods of prevention, and forming the ability to apply knowledge of the main methods of examining a patient in the process of professional activity.

Link to the page of the educational component in MOODLE Discipline page in the Moodle system
<https://distance.knmu.edu.ua/my/>

1. PURPOSE AND OBJECTIVES OF THE EDUCATIONAL COMPONENT

1.1 The purpose of teaching the educational component "Palliative and Hospice Medicine. Medical Ethics and Nursing in Gerontology and Geriatrics" is the formation of the deontological principles of a medical specialist and the ability to apply them in specific professional situations, improving professional and scientific knowledge and skills, which will enable a nurse to become competitive and solve professional problems in palliative care not only in institutions of Ukraine, but also abroad.

1.2 The main tasks of studying the educational component "Palliative and Hospice Medicine. Medical Ethics and Nursing in Gerontology and Geriatrics" is the training of a highly professional nurse for independent work in nursing homes or as an assistant family doctor at the territorial district.

- Assimilation by a higher education applicant of the theoretical knowledge necessary to build an optimal model of behavior when communicating with patients.
- Providing the higher education applicant with up-to-date information on the legal regulation of the professional activity of a doctor
- Acquisition of appropriate skills of professional communication in a team.
- Solving social and legal issues.
- Addressing issues of medical ethics.
- Adequate analgesia and relief of other physical symptoms
- Psychological support for patients and courtship of relatives.
- Developing an attitude towards death as a normal stage of the human journey.
- Satisfying the spiritual needs of the patient and his loved ones. A support system that allows patients to live as actively as possible until the moment of death.
- Knowledge of physiological and age-related changes in organs and systems in old age;
- Mastering the diagnostic criteria for diseases of old age, their prevention;
- Mastering the methods of providing emergency pre-medical care in emergency conditions in gerontology;
- Knowledge of indications for hospitalization and referral of the elderly and senile to nursing homes.
- To carry out up-to-date care for elderly and senile patients in hospitals and nursing homes, as well as to organize such care with the involvement of relatives at home;
- Conduct pre-medical examination of elderly patients and prepare such patients for instrumental examinations;
- Perform medical prescriptions and medical manipulations in elderly patients;
- Work with the simplest diagnostic equipment;
- Provide nursing first aid in geriatric emergencies.

1.3. Competencies and learning **outcomes**, the formation of which is facilitated by the educational component (relationship with the normative content of the training of higher education applicants, formulated in terms of learning outcomes in the EPP and the Standard).

1.3.1. The study of the educational component ensures the mastery of the following competencies by higher education applicants :

Competencies and learning outcomes.

According to the requirements of the standard, the educational component ensures the acquisition of the following competencies by higher education **applicants**:

- *Integral:*

The Bachelor of Nursing is able to solve complex specialized tasks and practical problems in the field of nursing or in the process of studying, which involves the application of certain theories and methods of the relevant science and is characterized by complexity and uncertainty of conditions.

– *General:*

1. Ability to realize their rights and responsibilities as a member of society, to realize the values of civil (free democratic) society and the need for its sustainable development, the rule of law, human and civil rights and freedoms in Ukraine.
2. Ability to preserve and multiply moral, cultural, scientific values and achievements of society based on an understanding of the history and patterns of development of the subject area, its place in the general system of knowledge about nature and society and in the development of society, equipment and technology, to use various types and forms of physical activity for active recreation and a healthy lifestyle.
3. Ability for abstract thinking, analysis and synthesis
4. Ability to apply knowledge in practical situations
9. Certainty and perseverance in relation to the tasks and responsibilities taken
10. Ability to make informed decisions
11. Ability to work in a team
12. Interpersonal skills
13. Ability to act on the basis of ethical considerations

– *special (professional, subject):*

1. Ability to apply professional and legal standards in everyday professional practice.
2. Ability to recognize and interpret signs of health and its changes, illness or disability (assessment/diagnosis), limitations in the ability to fully function and identify the problems of patients with various diseases and conditions.
3. Ability to meet the needs of the patient/client throughout life (including the dying process) by planning, assisting and executing nursing interventions, evaluating and adjusting individualized care plans created in collaboration with the patient/client, caregivers, family members, and other health and social professionals.
4. Application of professional skills (abilities), medical means, interventions and actions to provide the patient/client with decent treatment, privacy (intimacy), confidentiality, protection of his/her rights, physical, psychological and spiritual needs on the basis of transcultural nursing, tolerant and non-judgmental behavior.
5. Ability to effectively apply a set of nursing skills, medical supplies, interventions and actions to provide care based on a holistic approach, taking into account the patient's needs for comfort, nutrition, personal hygiene and the individual's ability to meet their daily needs.
6. Ability to effectively apply a set of professional skills (abilities), medical supplies, interventions and actions in assessing the functional state of patients/clients, preparing them for diagnostic tests and taking biological material for laboratory tests.
7. Preservation of the specialist's own health during the provision of care, manipulations and procedures, during the movement and transportation of the patient/client.
8. Preventive activities of a nurse aimed at preserving and promoting health, preventing diseases and informing and educating the patient and his family members.

1.3.2. The study of the educational component ensures that higher education applicants acquire the following **program learning outcomes:**

PLO 1. Hold. nursing subjective and objective examination of the patient's various organs and systems and evaluate the data obtained.

In health care facilities (303) and at home, by communicating with patients of different age groups, their relatives or friends from the environment of the sick child and his/her parents, be able to collect complaints, medical history, life history. allergic anamnesis, epidemiological anamnesis, evaluate anamnestic data.

PLO 2. Carry out nursing diagnosis: identify and assess the patient's problems.

Under conditions 303, at home, foreseeable circumstances, be able to identify the patient's real problems, assess their priority, and establish a nursing diagnosis.

PLO 3. Plan nursing interventions.

In a healthcare setting, at home and in unforeseen circumstances, be able to draw up a plan of nursing interventions to address the actual and concomitant problems of patients of all ages.

PLO 4. Monitor the work of junior medical staff and the condition of equipment.

Under conditions 303, in accordance with official duties, in order to comply with the sanitary and anti-epidemic regime, be able to:

- conduct training for junior medical staff on the performance of functional duties and labor protection; monitor compliance with safety rules by junior medical staff;
- supervise the work of junior medical staff; monitor the implementation of internal regulations by staff and patients; monitor compliance with sanitary and hygienic measures in wards and medical offices.

PLO 5. Carry out nursing administration.

Under conditions 303, with the implementation of organizational and managerial competencies, be able to:

- make management decisions, ensure their implementation based on the application of nursing leadership models;
- ensure the implementation of orders and resolutions on health care;
- master the functional responsibilities of the head of nursing services;
- know the procedure for licensing and accreditation of health care institutions, laboratories of various profiles, etc.

PLO 6. Ensure a healthy microclimate in the team. Using the principles of nursing ethics and deontology, the rules of interpersonal communication in order to create a favorable psychological microclimate, be able to:

- communicate with the patient and members of his family or close environment, medical staff;
- solve ethical and deontological problems in the process of working with the patient and his family members; consider and analyze professional mistakes in the team; provide training for junior and technical staff.

PLO 7. Participate in the provision of monitoring of the healthy and recovered population, rehabilitation and dispensary supervision.

In conditions 303, at home and in the community, using the current orders of the Ministry of Health of Ukraine, in order to form, preserve and improve the health of the adult and child population, be able to:

- keep records of dispensary groups of the population;
- calculate and analyze statistical indicators of the effectiveness of medical examination;
- to carry out explanatory work among patients of different dispensary groups;
- keep records of health groups;
- calculate and evaluate individual indicators and indicators of the complex effect of the microclimate on the human body;
- determine the stages of medical and social rehabilitation of the patient, tasks for each stage;
- draw up a set of rehabilitation measures depending on the profile, course, period of illness or injury;
- conduct a census of the child population.

PLO 8. Perform medical manipulations in order to ensure a sanitary anti-epidemic regime.

PLO 12. Properly perform medical manipulations in order to carry out measures to stabilize the functional state of the body.

PLO 14. Be able to prepare the patient, take and send biological material for laboratory and instrumental research.

PLO 16. Ability to be precise in the exercise of interdependent nursing functions.

PLO 20. Proper maintenance of appropriate medical records

1.3.3. The study of the educational component ensures that the higher education applicant acquires the

following **social skills (Soft skills)**:

1. Communication skills
2. Ability to work in a team, communicate with people and manage conflicts, ability to evaluate and analyze situations
3. Ability to organize, plan and effectively execute projects and tasks
4. Ability to perform work professionally, responsibly
5. Ability to show emotional intelligence in interactions with colleagues, clients, with the manager, a sense of tact and timeliness of reaction.

2. INFORMATION VOLUME OF THE EDUCATIONAL COMPONENT

2.1 Description of the discipline

Name of indicators	Field of knowledge, field of study, educational qualification level	Characteristics of the educational component
		Full-time education
Number of credits – 4	Field of study 22 "Public Health"	Normative
Total number of hours 120	Speciality: <u>223 "Nursing"</u>	Year of preparation: 2nd
		Semester 4th
		Lecture
		Practical
Hours for full-time study: classroom –60 self-study applicant for higher education -60	Educational qualification level: Bachelor	18years.
		42years old.
		Independent work 60years.
		Individual tasks.
		Type of control: dif. credit

2.2.1 Lectures

№	Topic Name	Quantity Hours	Type of lecture
1	Medical Ethics and Deontology. The main models of relationships in the system "doctor – medical worker". Basic international documents regulating the patient's rights.	2	Thematic
2	Therapeutic and protective regime of medical and prophylactic institutions. Safe Hospital Environment	2	Thematic
3	Gerontology as a science. The Biology of Aging. General geriatrics. Features of providing medical care to elderly and senile patients.	2	Thematic
4	Palliative care as a step towards a civilized society. Structure, types of palliative care. Psychological, Social and Moral Aspects of Palliative Medicine. Features of palliative care.	1	Thematic
5	Special hospice palliative care, the work of a nurse.	1	Thematic
6	Assessment of the functional state of a seriously ill patient. Observation of seriously ill and agonizing patients.	2	Thematic

7	Features of the course of diseases of internal organs in old age	2	Thematic
8	Cancer Patient: Assessment of Functional Status.. Oncological pain, palliative care for pain, three-step ladder of pain relief	2	Thematic
9	Palliative care for HIV-infected patients. Problems of Ethical and Deontological Assistance	2	Thematic
10	Isolated nursing care. Palliative care and end-stage care	2	Thematic
Total Lecture Hours		18	

2.2.2 Seminars – not provided by the program

2.2.3 Practice Sessions

№ Salary	Topic Name	Quantity Hours	Teaching Methods	Forms of control
1	Medical Ethics and Deontology: Their Definition, Status and Legal Support in Modern Society Deontological, Psychological, Social and Moral Aspects of Palliative Medicine. The art of communication.	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic
2	Basic models of relationships in the "doctor-patient" system. Respect for patient autonomy. The Rule of Informed Consent. Basic international documents regulating the rights of the patient.	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech

			situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	on a given topic
3	Medical Confidentiality: Moral and Legal Aspects.	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic
4	Iatrogenic diseases, causes of their occurrence and ways to avoid them	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic

			(training in pairs),	
5	Medical errors, moral and legal aspects	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic
6	Deontological and ethical aspects of the patient's right to life and death.	2	story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic
7	Gerontology as a science. The Biology of Aging. Nursing homes. Features of the course of diseases in the elderly and senile people. Features of nursing care for the elderly and senile people.	4	story-explanation, conversation, demonstration, presentation,	oral examination (individual and frontal); written survey; test

			videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),	control; creative tasks; individual tasks; Abstracts; Annotation; mutual control; Self-control; Report; Speech on a given topic
8	Basic deontological approaches in oncology, psychiatry, gerontology. Deontological aspects of the doctor's relationship with patients with life-threatening infectious diseases.	2	-<<-	-<<-
9	Assessment of the functional state of the gerontological and seriously ill patient. Observation of seriously ill and agonizing patients.	2	-<<-	-<<-
10	Features of the course of diseases in the elderly and senile people. Nursing care for the elderly and senile people.	2	-<<-	-<<-
11	Features of coronary heart disease in geriatrics. Myocardial infarction in old age.	2	-<<-	-<<-
12	Features of the course of diseases of the bronchopulmonary system (bronchitis, pneumonia and pulmonary emphysema) in geriatric patients.	2	-<<-	-<<-
13	Features of the course of vascular diseases of the brain in old age. Disorders of the mental sphere in the elderly and senile people.	2	-<<-	-<<-
14	Special hospice palliative care, the work of a nurse.	2	-<<-	-<<-
15	Cancer Patient: Assessment of Functional Status..	2	-<<-	-<<-
16	Oncological pain, palliative care for pain, three-step ladder of pain relief	2	-<<-	-<<-
17	Palliative care for HIV-infected patients. Problems of Ethical and Deontological Assistance.	2	-<<-	-<<-
18	Isolated nursing care. Palliative care and end-stage care	2	-<<-	-<<-
19	Differential test	4	-<<-	oral examination (individual and

				frontal); written survey; Test control
	Total Hours	42		

2.2.4. Laboratory classes are not provided by the program

2.2.5. Independent work

No	Salary	Topic Name	Quantity Hours	Teaching Methods	Forms of control
1		Palliative Medicine: Organizational and Pedagogical Aspects.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
2		Psychotherapeutic aspects of palliative medicine.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
3		Palliative medicine and rehabilitation. Nursing in palliative medicine.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
4		Palliative care and the needs of senile and elderly people.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
5		Development of palliative care services for patients with non-tumor diseases.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
6		Hospice services for dementia patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
8		Organizational model of the system of palliative care for incurable cancer patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic

9	Self-help groups in palliative care.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
10	Creation of a system of palliative and pain care for cancer patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
11	The role of nursing staff in the provision of palliative care.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
12	Helping cancer patients with neurological symptoms.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
13	Help with symptoms of digestive system disorder.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
14	Work of a family nurse with cancer patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
15	Treatment of chronic pain syndrome. Nursing.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
16	Psychological status of cancer patients and problems of their rehabilitation.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
17	Methods of diagnosis and treatment of chronic pain syndrome.	2	video clips, video films, independent work with information	Abstracts; Annotation; Self-control; Report; Speech on a given

			sources.	topic
18	Needs that arise in the final period of life.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
19	Main components and principles of care in palliative medicine.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
20	Spiritual support for the terminally ill.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
21	Euthanasia.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
22	Psychological, social and spiritual aspects when working with terminally ill patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
23	Support for the family during the patient's illness and bereavement.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
24	Relieving physical and emotional stress when working with terminally ill patients.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
25	Moral concepts, principles and traditions of nursing deontology.	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
26	Concept of iatrogeny	2	video clips, video films, independent work with information	Abstracts; Annotation; Self-control; Report; Speech

			sources.	on a given topic
27	The concept of medical errors	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
28	Medical confidentiality	2	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
29	Arrhythmias and circulatory insufficiency of elderly and senile patients.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
30	Diseases of the stomach and intestines in the elderly and senile people.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
31	Diseases of the liver and biliary tract in the elderly.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
32	Pyelonephritis and nephrotic syndrome in elderly and senile patients	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
33	Anemia and leukemia in geriatric patients.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
34	Features of the course of diabetes mellitus in geriatric patients.	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
35	Diseases of the musculoskeletal system in geriatrics	1	video clips, video films, independent work	Abstracts; Annotation; Self-control;

			with information sources.	Report; Speech on a given topic
36	Diseases of the organs of vision and hearing from an advanced age	1	video clips, video films, independent work with information sources.	Abstracts; Annotation; Self-control; Report; Speech on a given topic
	Total Hours	60		

Teaching methods (give only those that are used in teaching the discipline): lecture, story-explanation, conversation, demonstration, presentation, videos, videos, discussion, round table, business, role-playing, simulation game, modeling of processes and situations, delegation of authority, case method, debates, sparring partnership (training in pairs),

Control methods:

Current control: oral examination (individual and frontal); written survey; test control; creative tasks; individual tasks; abstracts; annotations; mutual control; self-control; report; speech on a given topic;

Final control: diff. test

3. EVALUATION CRITERIA

3.1. Assessment of the academic performance of students is carried out on the basis of the current "Instruction on the assessment of educational activities of students of KhNMU"

Organization of evaluation of current control.The mastery of the topic (current control) is controlled in the practical lesson in accordance with specific goals. The following means of assessing the level of training of higher education applicants are used: solving situational problems, interpreting and evaluating the results of laboratory tests, analyzing and evaluating the results of instrumental studies and parameters that characterize the functions of the human body, monitoring the acquisition of practical skills. The final lesson is necessarily held according to the program of the educational component during the semester according to the schedule, during classes. Acceptance of software is carried out by the teacher of the academic group. Evaluation is carried out according to the traditional 4-point system: "excellent", "good", "satisfactory" and "unsatisfactory".

Criteria for assessing the results of educational activities students in the disciplines

Score	Evaluation criteria
"Excellent"	A higher education applicant shows special creative abilities, is able to acquire knowledge independently, finds and processes the necessary information without the help of a teacher, knows how to use the acquired knowledge and skills to make decisions in non-standard situations, convincingly argues answers, independently reveals his own talents and inclinations
"Very good"	The student is fluent in the amount of material studied, applies it in practice, freely solves exercises and tasks in standard situations, independently corrects mistakes, the number of which is insignificant
"Good"	

	A higher education applicant is able to compare, generalize, systematize information under the guidance of a teacher; in general, independently apply it in practice; control their own activities; correct mistakes, including significant ones, select arguments to confirm opinions
"Satisfactory"	The student reproduces a significant part of the theoretical material, shows knowledge and understanding of the main provisions; With the help of the teacher, he can analyze the educational material, correct errors, among which there are a significant number of significant ones
"Enough"	A higher education applicant has knowledge of educational material at a level higher than the initial one, a significant part of it is reproduced at the reproductive level
'Unsatisfactory' with the possibility of retaking the semester control	A higher education applicant has knowledge of the material at the level of individual fragments that make up an insignificant part of the educational material
'Unsatisfactory' with mandatory re-study of credit	A higher education applicant has material at the level of elementary recognition and reproduction of individual facts, elements, objects
In particular, the criteria for assessing practical skills in the disciplines	
"Excellent"	A higher education applicant corresponds to a high (creative) level of competence: a higher education applicant shows special creative abilities, independently demonstrates the performance of practical skills without mistakes and has systematic theoretical knowledge (knows the methodology for performing practical skills, indications and contraindications, possible complications, etc.) and has the ability to make decisions in non-standard situations.
"Good"	The higher education applicant independently demonstrates the performance of practical skills, allowing some inaccuracies, which he quickly corrects, has theoretical knowledge (knows the methodology for performing practical skills, indications and contraindications, possible complications, etc.)
"Satisfactory"	A higher education applicant demonstrates the performance of practical skills, making some mistakes that can be corrected when corrected by a teacher, has satisfactory theoretical knowledge (knows the basic provisions of the methodology for performing practical skills, indications and contraindications, possible complications, etc.).
'Unsatisfactory'	A higher education applicant cannot independently demonstrate practical skills (performs them, making gross mistakes), does not have a sufficient level of theoretical knowledge (does not know the methodology for performing practical skills, indications and contraindications, possible complications, etc.).

The recalculation of the average grade for the current educational activity into a multi-point scale

is carried out in accordance with the "Instructions for assessing the educational activities of higher education applicants..." or the average grade (with an accuracy of hundredths) for PND is automatically received by the teacher using the electronic journal of the ACS.

Conversion of the average score for the current control into a multi-point scale
(for disciplines ending in diff.credit)

4-point scale	120-point scale	4-point scale	120-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 than 3	Enough

The minimum number of points that a higher education applicant must score for the current activity during the study of the unit is 70 points, the maximum number of points is 120 points.

Assessment of independent work of a higher education applicant. The independent work of the higher education applicant, which is provided by the topic of the lesson along with the classroom work, is evaluated during the current control of the topic in the relevant lesson and during the differential test.

Assessment of individual tasks of the higher education applicant is carried out under the conditions of fulfilling the tasks of the teacher (report of the essay at the practical lesson, report with a presentation at the practical lesson, report at scientific and practical conferences of the department, university, writing theses, articles, participation in the All-Ukrainian Olympiad). Points (no more than 10) are added as an encouragement. Of the total sum of points for Current learning activities may not exceed 120 points.

Performing one of the types of work:

- Conducting an examination of an exemplary patient in need of palliative care and preparing a review of the scientific literature on the case under study
- Preparation of a literature review on one of those proposed for independent work

Organization of the final control – differential credit. Admission to the diff test is determined in the points of the current educational activity, namely: min - 70, max - 120 points. Diff credit is carried out by the teacher of the group at the last lesson according to the schedule or by commission in case of disagreement of the higher education applicant with the results of certification in accordance with the schedule of the examination session.

Differentiated credit in a discipline is a process during which the following are checked for the course:

- level of theoretical knowledge;
- development of creative thinking;
- independent work skills;
- Competencies - the ability to synthesize the acquired knowledge and apply it in solving practical problems.

During the diff test, the assessment of the assimilation of practical skills and theoretical knowledge is carried out according to the tickets compiled at the department, which include all the topics of the discipline.

Assessment of theoretical knowledge and practical skills, if they are presented in one ticket

Number of questions	«5»	«4»	«3»	Answer on tickets that include theoretical and practical parts of the discipline	For each answer, the higher education applicant receives from 16.6 to 26.6 points, which corresponds to: "5" - 26.6 points; «4» - 21.6 points; "3" - 16.6points.
1	26,6	21,6	16,6		
2	26,6	21,6	16,6		
3	26,6	21,6	16,6		

The exam itself is evaluated from -50 to -80 points.

Discipline Assessment Technology

Assessment of the results of studying disciplines is carried out immediately after the differential test. The grade in the discipline is defined as the sum of points for **PND** and **differential credit** and is min - 120 to max - 200.

Correspondence of grades on a 200-point scale, four-point (national) scale and the ECTS scale

Score on a 200-point scale	ECTS score	Score for four-point (national) scale
180–200	And	Excellent
160–179	Into	Good
150–159	C	Good
130–149	D	Satisfactory
120–129	E	Satisfactory
Less than 120	F, Fx	Disappointing

The grade in the discipline is given only to the applicant for higher education, who is credited with all final control classes, differential credit.

Applicants for higher education who have not fulfilled the requirements of the curricula of disciplines are given an **F_x** grade if they were admitted to take a differentiated test or exam, but did not pass it.

Grade F is given to higher education applicants who are not allowed to take a differentiated test or exam.

Grades "F x" or "F" ("unsatisfactory") are given to applicants for higher education who are not enrolled in the study of the discipline, the form of control of which is a credit.

Upon completion of the study of the discipline, the person responsible for the organization of educational and methodological work at the department or the teacher assigns the appropriate grade to the higher education applicant on the scales (Table 3) in the student's record book and fills in the statements

If the differential test is not passed, the dates of retake are set during the holidays, before the beginning of the next semester.

3.2. Exam questions:

LIST OF SKILLS AND ABILITIES FOR CURRENT AND FINAL CONTROL

1. 1. Collection of anamnesis of a geriatric patient.
2. Pre-medical examination of elderly patients,
3. Clinical interpretation of tests in senile patients:
 - complete blood count;
 - biochemical parameters of blood;
 - general urinalysis;
 - urinalysis according to Addis-Kakovsky, according to ZIMNITSKY;
 - analysis of gastric contents;
 - sputum analysis.
4. ECG recording and interpretation.
5. Pneumotachometry, evaluation of results
6. Determination of blood type.
7. Blood sugar tests.
8. Determination by express method of sugar and acetone in the urine.
9. Preparation of patients for instrumental and hardware research methods
10. Gastric lavage for elderly patients.
11. Insertion of a urinary catheter.
12. Cleansing and therapeutic enemas.
13. Hygienic care for bedridden patients.
14. Anterior nasal tamponade.
15. Artificial lung ventilation .
16. Indirect heart masses.
17. Emergency care for hypertensive crises in the elderly.
18. Emergency care for an attack of angina pectoris.
19. Emergency care for myocardial infarction.
20. Undifferentiated treatment in acute cerebrovascular accident.
21. Emergency care for pulmonary neglect in geriatrics.
22. Emergency care for a bronchial asthma attack.
23. Calculation of insulin and its administration

LIST OF QUESTIONS FOR DIFFERENTIAL TEST

1. Definition of the concepts of medical ethics and medical deontology, disclosure of the subject of their study and the range of problems.
2. Legal support of the doctor's professional activity in modern society.
3. The main stages of the formation of medical deontology and the contribution of prominent domestic doctors to its development.
4. "Hippocratic Oath": history of origin and subsequent modification.

5. The main types of relationship between doctor and patient. International documents regulating the rights of the patient.
6. Iatrogenics, their main causes, consequences and prevention.
7. Medical Confidentiality: Definition, Essence, Basic Legal Documents That Guarantee Observance of Medical Secrecy in Ukraine and the World.
8. Medical errors: definition, essence, types of medical errors. The concept of medical offenses and legal responsibility for them.
9. Biomedical ethics in modern society, its subject, status and range of problems.
10. Deontological aspects of the protection of the right to life: artificial insemination, abortion, transplantology, the use of stem cells, ethical problems of technologies that artificially support life.
11. The deontological problem of the patient's right to death: the concept of active and passive euthanasia, moral and deontological views on suicide, the status of a dead body in medicine.
12. Deontological aspects of relationships in medical teams during the performance of medical and scientific activities.
13. Basic deontological approaches in oncology, psychiatry, gerontology.
14. Deontological aspects of the doctor's relationship with patients with life-threatening infectious diseases.
15. Gerontology as a science, basic concepts.
16. Biology of Aging: Theories, Patterns, Mechanisms, Types (Natural, Physiological); delayed (retarded); pathological (accelerated); Premature (Progeria) in Children and Adults.
17. Calendar and biological age of a person, their indicators for determining the rate of aging.
18. Organization of preventive and therapeutic care for geriatric patients, the duties of a nurse for their implementation. Geriatric health care facilities.
19. Geriatrics. Features of the course of diseases in old age.
20. Drug metabolism and features of pharmacotherapy in the aging body.
21. Psychological features of the relationship between a nurse and elderly and senile patients.
22. Methods of nursing examination of a geriatric patient.
23. Features of the organization of geriatric care for elderly and senile patients, principles of their rehabilitation.
24. Age-related changes in the cardiovascular system and the formation of diseases against the background of involutive changes. Features of the course of diseases of the cardiovascular system and principles of nursing care
25. Age-related changes in the respiratory system and the formation of diseases against the background of involutive changes. Features of the course of diseases of the respiratory system and principles of nursing care
26. Age-related changes in the digestive system and the formation of diseases against the background of involutive changes. Features of the course of diseases of the digestive system and principles of nursing care
27. Age-related features of the kidneys and urinary tract and the formation of diseases against the background of involutive changes. Features of the course of diseases of the urinary system and principles of nursing care
28. Age-related changes in the hematopoietic system, the occurrence of diseases against the background of involutive changes. Features of the course of blood diseases and principles of nursing care

29. Age-related changes in the endocrine system and the formation of diseases against the background of involutive changes. Features of the course of diseases of the endocrine system and principles of nursing care
30. Age-related changes in the neuropsychiatric sphere and the formation of diseases against the background of involutive changes. Features of the course of mental illness and principles of nursing care
31. Age-related changes in the musculoskeletal system and the formation of diseases against the background of involutive changes. Nursing process in osteoporosis, deformable arthrosis.
32. Age-related changes in the organ of vision and the occurrence of diseases against the background of involutive changes.
33. Age-related changes in the organ of hearing and the formation of diseases against the background of involutive changes. Clinical manifestations and nursing process in age-related hearing loss, vestibular disorders in old age. Fall prevention.
34. Age-related skin changes and the formation of diseases against the background of involutive changes.
35. Palliative medicine is an intereducational component approach. The purpose and objectives of palliative care.
36. The patient's right to make a decision.
37. Nutrition and feeding of sick patients.
38. Palliative care for chronic pain syndrome. Principles of treatment (pharmacological, invasive, non-pharmacological). The role of a nurse.
39. Euthanasia.
40. Participation of a nurse in laboratory tests.
41. Palliative care for incurable cancer patients. Structure of palliative care. The role of a nurse.
42. Moral concepts, principles and traditions of nursing deontology.
43. Participation of a nurse in instrumental research methods.
44. Palliative care for patients with immunodeficiency virus (HIV-infected)
45. and acquired immunodeficiency syndrome (AIDS).
46. Spiritual support for the terminally ill.
47. Patients' personal hygiene. Nutrition and feeding of patients.
48. Problems of Ethical and Deontological Assistance. Isolated nursing care. Palliative care and end-stage care.
49. Work of a family nurse with cancer patients.
50. Prescribing, storage and use of medicines.
51. Philosophy of palliative care: autonomy, attitude to life and death, communication.
52. Psychotherapeutic rehabilitation of cancer patients.
53. Needs that arise in the final period of life. The role of a nurse.
54. Palliative care services.
55. Psychological help at the last stage of life. The role of a nurse.
56. Measures for the prevention and control of nosocomial infections.
57. Palliative care in Ukraine: components and ways of development.
58. Support for the family during the patient's illness and bereavement.
59. Methods of diagnosis and treatment of chronic pain syndrome.
60. HOSPICE. Characteristic. Principles of work. Structure. Task. The role of a nurse.
61. Psychological, social and spiritual aspects when working with terminally ill patients.
62. Participation of a nurse in instrumental research methods.
63. Treatment of chronic pain syndrome. Nursing.
64. Psychological status of cancer patients and problems of their rehabilitation.

65. Nursing in palliative medicine.

3.3. Control questions and tasks for independent work The mastery of topics that are submitted only for independent work is checked during the final lesson, diff. test.

The basic list of types of independent work of higher education applicants, developed in accordance with the structure of the educational component. At the same time, the tasks for independent work are:

Approximate list of individual tasks:

1. • Moral and legal aspects of conducting clinical experiments and research; official documents that regulate the conduct of tests involving humans.
2. Iatrogenics, their main causes and consequences, moral and deontological aspects of the development of iatrogenic diseases.
3. The definition and essence of medical secrecy, the history of its formation – from ancient India to modern Ukraine.
4. The patient's right to confidentiality of information about his state of health and guarantees of medical confidentiality in international legislative documents.
5. Medical offenses, malfeasance and liability for them.
6. The human right to life and death, the problem of the value of human life.
7. Deontological aspects of relationships in medical teams: problems of corporatism, democracy, subordination.
8. Problems of HIV-infected and children with AIDS: issues of medical ethics and deontology.
9. Moral and ethical problems in pediatric oncology, psychiatry and the search for ways to solve them.
10. Questioning of an elderly patient, his general examination and examination of the head, neck, limbs with the main symptoms and syndromes of the disease.
11. Palliative and hospice care in Ukraine: components and ways of development.
12. Hospice: structure, standards, principles of work. Organization of the work of the Hospice nurse
13. Seriously ill. Stages of the disease. Hope. Ethical guidelines for communicating with seriously ill relatives
14. Psychosocial support at the end of life. Fear of death. Death as a natural departure from life. Reorientation of treatment. Psychological help at the last stage of life. Working with grief. The pain of divorce.
15. Palliative care for pain in the world of evidence-based medicine. Features of palliative nursing care.
16. Oncological pain: causes, classical, diagnosis of pain in an oncological patient, principles of cancer pain treatment (three-step ladder of anesthesia). The role of a nurse.
17. Organization of multidisciplinary cooperation in the provision of palliative care to incurable patients.
18. Palliative care for patients with long-term chronic diseases. The role and tasks of a nurse.
19. Emotional burnout syndrome in palliative care workers.

3.4. Individual tasks (a list approved at the meeting of the department with the determination of the number of points for their implementation, which can be added as an encouragement):

At the request of the higher education applicant, during the study of relevant topics, he can perform individual work, which is carried out in extracurricular hours and, if successful, is additionally evaluated by the teacher.

Approximate list of individual tasks:

20. Questioning of the indicative patient, his general examination and examination of the head, neck, limbs with the selection of the main symptoms and syndromes of the disease.

21. Conducting studies of the function of external respiration in demonstrative patients, processing the data obtained and reporting in class
22. ECG registration, participation in instrumental studies of the cardiovascular system in demonstrative patients with data processing and a report in the classroom
23. Conducting a physical and instrumental examination of an indicative patient with the preparation of a review of the scientific literature on the case under study
24. Work with literature and other sources of information and preparation of an abstract report on modern methods of examining patients in the clinic of internal diseases
25. Work with literature and other sources of information and preparation of an abstract report on the features of syndromic diagnosis of the disease with a typical course, chosen at the request of the higher education applicant

3.5. Other incentives (conditions for calculating additional points for various types of informal and informal activities, which may include conferences, scientific research, participation in surveys, symposia, etc.):

At the meeting of the department, a list of individual tasks was approved (participation with reports in conferences, specialized Olympiads, preparation of analytical reviews with presentations with plagiarism checking) with the determination of the number of points for their implementation, which can be added as incentives (**no more than 10**)

Points for individual assignments are awarded to a higher education applicant only by commission (commission - head of the department, head teacher, group teacher) only if they are successfully completed and defended. In no case can the total amount of points for the PND exceed 120 points.

3.6. Rules for appealing the assessment

According to the general provisions and orders of KhNMU

4. DISCIPLINE`S POLICY

Requirements of the educational component (a system of requirements and rules that the teacher imposes on higher education applicants when studying the educational component). To achieve your learning goals and successfully complete the course, you must: get involved in work from the first day; attend lectures regularly; read the material in advance, before it is considered in a practical lesson; do not be late and do not miss classes; come to the department dressed in a medical gown, mat and replaceable shoes, have a phonendoscope, notebook, pen with you; perform all necessary tasks and work every day; be able to work with a partner or as part of a group; ask for help and get it when you need it. Written and homework assignments must be completed in full and on time.

Academic mobility, interchangeability of credits (1 credit, 30 hours) are provided. Applicants for higher education can discuss various tasks, but their implementation is strictly individual.

Attendance and behavior Attendance at lectures and workshops by higher education students is mandatory. Applicants for higher education are not allowed to be late for lectures and practical classes.

During the lecture, students are recommended to keep notes of the lesson and maintain a sufficient level of silence. It is absolutely normal to ask questions to the lecturer.

The use of electronic gadgets is allowed only with the permission of the teacher. Cheating, the use of various kinds of software, hints, the use of a mobile phone, tablet or other electronic gadgets during the lesson are not allowed.

Recommendations for the successful completion of the discipline (the activity of higher education applicants during the practical lesson, the implementation of the necessary minimum of educational work). Practical classes include:

Active participation during the discussion in the classroom, students should be ready to understand the material in detail, ask questions, express their point of view, and discuss. During the discussion, the following are important:

- respect for colleagues,
- tolerance towards others and their experiences,
- receptivity and impartiality,

- the ability to disagree with the opinion but respect the opponent's personality,
- careful reasoning of one's opinion and the courage to change one's position under the influence of evidence,

- I-statements, when a person avoids unnecessary generalizations, describes his feelings and formulates his wishes based on his own thoughts and emotions,

- Acquaintance with primary sources is mandatory.

Creativity in its various manifestations is encouraged. Applicants for higher education are expected to be interested in participating in city, national and international conferences, competitions and other events in the subject profile.

Incentives and penalties (additional points for conferences, scientific research, edits, advice, participation in surveys). Assessment of individual tasks of a higher education applicant is carried out under the conditions of fulfilling the tasks of the teacher (report of an essay in a practical lesson, a report with a presentation in a practical lesson, a report at scientific and practical conferences of the department, university, writing theses, articles, participation in the All-Ukrainian Olympiad). Points (no more than 10) are added as an incentive.

Safety precautions. At the first lesson of the course, the basic principles of labor protection will be explained through appropriate instruction. Everyone is expected to know where the nearest emergency exit to the classroom is, where the fire extinguisher is, how to use it, etc.

The procedure for informing about changes in the syllabus, etc. The development, updating and approval of the syllabus of the educational component is carried out every academic year. Mandatory posting on the website of KhNMU in the profile of the educational program "Nursing" until June 30 of the current academic year for the next academic year;

5. ACADEMIC INTEGRITY

Academic Integrity Policy (including liability for violation of academic integrity). Observance of academic integrity by students involves:

- ✓ • Independent performance of educational tasks, tasks of current and final control of learning outcomes (for persons with special educational needs, this requirement is applied taking into account their individual needs and capabilities);
- ✓ References to sources of information in the case of using ideas, developments, statements, information;
- ✓ Compliance with the legislation on copyright and related rights;
- ✓ Providing reliable information about the results of their own (scientific, creative) activities, research methods used and sources of information.

The Department of Propaedeutics of Internal Medicine No. 2 and Nursing maintains zero tolerance for plagiarism. Applicants are expected to constantly increase their own awareness of academic writing. At the first classes, information events will be held on what exactly is considered plagiarism and how to correctly carry out research and scientific research.

Policy on Persons with Special Educational Needs. Applicants for higher education with special needs must meet with the teacher or warn him before the start of classes, at the request of the higher education applicant, this can be done by the head of the group.

6. RECOMMENDED LITERATURE

Basic

1. Tarasyuk V. Nursing in gerontology and geriatrics, palliative medicine. Kyiv.: Medicine, 2013.
2. Shehydyn M.B., Shuliar I.A., Podnosova L.M., Datsko L.P., Shavala O.T. Nursing in internal medicine. Kyiv.: Medicine, 2009.
3. Yavorsky O.G. Fundamentals of Internal Medicine. Propaedeutics of Internal Diseases. – Kyiv.: Health, 2004.

Auxillary

1. Demchenko O.K. Nursing in therapy. Kyiv: Zdorov'ya, 2002

2. Epishyna A.V. Propaedeutics of internal diseases with care for therapeutic patients. – Ternopil: Ukrmedknyha, 2001
3. Nikitin A.V., Pereverzev B.M., Gusmanov A.K. Osnovy diagnostiki zabolevaniy vnutrennykh organov [Fundamentals of diagnostics of diseases of internal organs]. Moscow, Mart Publ., 2003
4. Okorokov A.N. Diagnostika zabolevaniy vnutrennykh organov [Diagnostics of diseases of internal organs]. Moscow, Medical Literature Publ., 2000
5. Okorokov A.N. Lechenie zabolevaniy vnutrennykh organov [Treatment of diseases of internal organs]. Moscow, Medical Literature Publ., 2000
6. Serkova V.K., Stanislavchuk M.A., Monastyrsky Yu.I. Faculty therapy. – Vinnytsia: New Book, 2005
7. Khvorostinka V.M., Zhuravleva L.V., Moiseenko T.A. Faculty therapy. – Kharkiv: Fakt, 2002

8. INFORMATION RESOURCES

1. OSCE-1. Bogomolets National Medical University. Physical Methods of Examination of the Respiratory System (Official Version), 2017. – <https://www.youtube.com/watch?v=o3V4Z6EVz94>
2. OSCE-1. Bogomolets National Medical University. Physical Methods of Examination of the Cardiovascular System (Official Version), 2017. – <https://www.youtube.com/watch?v=kgFHCzxEvVU&t=68s>
3. OSCE-1. Bogomolets National Medical University. Physical methods of examination of the gastrointestinal tract (official version), 2017. – <https://www.youtube.com/watch?v=NAX7TTsWByc>
4. OSCE-1. Bogomolets National Medical University. Methods of ECG registration (official version), 2017. – <https://www.youtube.com/watch?v=16P0uuZK1CA&t=204s>
5. Yavorsky O.G. Audio CD "Auscultation of the lungs: main and secondary breath sounds. Auscultation of the Heart: Tones and Noises" / Yavorsky O.G., audio and video materials, 2013.
6. Yavorsky O.G. DVD-film "Palpation, percussion, auscultation" (in Ukrainian and English) / Yavorsky O.G., audio and video materials, 2013.
7. Yavorsky O.G. DVD-film "Anamnesis. Review: photos of patients" / Yavorsky O.G., audio and video materials, 2013.
8. On the topics "General examination of the patient, examination of individual parts of the body"
9. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
10. <http://meded.ucsd.edu/clinicalmed/>
11. From the topics of the content module "Basic methods of examination of the respiratory system"
12. <http://meded.ucsd.edu/clinicalmed/>
13. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
14. From the topics of the content module "Basic methods of examination of the cardiovascular system"
15. <http://www.cardiologysite.com/>
16. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
17. <http://www.blaufuss.org/>
18. <http://meded.ucsd.edu/clinicalmed/>
19. From the topics of the content module "Basic methods of examination of the gastrointestinal tract and kidneys"
20. <http://www.meddean.luc.edu/lumen/meded/medicine/pulmonar/pd/contents.htm>
21. <http://gastroresource.com/GITextbook/En/Default.htm>
22. <http://meded.ucsd.edu/clinicalmed/>

