Odessa National Medical University
Faculty of Medicine №2
Department of Radiation Diagnostics, Therapy, Radiation medicine and Oncology

Syllabus of the discipline "Oncology"
«Palliative and hostice care for cancer patients»

Amount	**90 hours**
Semester, year of study	**XI - XII semester, VI year of study**
Days, time, place	On schedule
Teacher (s)	*Bondar Oleksandr Vadimovich* prof., doctor of medicine, oleksandr.bondar@onmedu.edu.ua *Rybin Andriy Ihorevych*, prof., doctor of medicine, andrii.rybin@onmedu.edu.ua *Kuznetsova Olga Vladimirovna*, docent, candidate of medical sciences, olga.kuznetsova@onmedu.edu.ua *Bilenko Oleksandr Anatoliyovych*, docent, candidate of medical sciences, olexandr.bilenko@onmedu.edu.ua *Patskov Andrey Alexandrovich*, docent, candidate of medical sciences, andrii.patskov@onmedu.edu.ua *Aliyeva Svitlana Oktaivna,* assistant, candidate of medical sciences, svitlana.alieva@onmedu.edu.ua *Maksymovskyi Viacheslav Evgeniyovich,* assistant, candidate of medical sciences, viacheslav.maksymovskyi@onmedu.edu.ua *Chistyakov Roman Sergeevich,* assistent, roman.chystiakov@onmedu.edu.ua *Stolyarchuk Evgeny Anatoliyovych,* assistent, yevhenii.stoliarchuk@onmedu.edu.ua *Yermakov Vasily Yurievich,* assistent, vasyl.yermakov@onmedu.edu.ua *Atanasov Dmytro Vadumovich,* assistant, dmytro.atanasov@onmedu.edu.ua *Chetverikov Mykhailo Sergiyovich,* assistant, mykhailo.chetverikov@onmedu.edu.ua *Muzyka Viktoria Viktorivna,* assistent, viktoria.muzyka@onmedu.edu.ua
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Workplace	Center of Reconstructive and Reconstructive Medicine (University Clinic), 1 floor
Consultations	*Online Consultations:* Every Saturday at Windows Teams

COMMUNICATION

Communication with the student during the distance form of study Full-time in the classrooms and offices of the department, remotely on the platform *Microsoft Teams* (https://teams.microsoft.com), informational system of ONMedU (https://info.odmu.edu.ua) in some cases with prior notice - through ZOOM (https://zoom.us) and in *Viber* -groups.

During the quarantine classes will be held exclusively remotely.

COURSE ANNOTATION

The subject of study of the discipline is the consideration of basic information, concepts and concepts of palliative and hospice medicine, its types; consideration of psychological and spiritual aspects of palliative care, characteristics and principle of the hospice. The program is designed for 90 teaching hours.

<table>
<tr><th colspan="3">Course details</th></tr>
<tr><td colspan="3">Information on the disciplines, basic knowledge and learning outcomes required by the student (enrolled) for successful study and acquisition of competencies in this discipline is indicated :
1. anatomy,
2. histology,
3. pathological anatomy,
4. otolaryngology,
5. dentistry,
6. surgery,
7. dermatology,
8. therapy,
9. radiation therapy,
10. endocrinology,
11. gynecology,
12. urology</td></tr>
<tr><th colspan="3">Program learning outcomes</th></tr>
<tr><th colspan="3">List of studying results</th></tr>
<tr><td>Learning outcome code</td><td>The content of the learning outcome</td><td>References code on the competence matrix</td></tr>
<tr><td>Zn-1
Zn-2</td><td>to create in the student a modern idea of tumor growth
give information about the etiology of tumor growth</td><td>PR1</td></tr>
</table>

Zn-3 *Zn-4* *Zn-5* *Zn-6*	the concept of carcinogens to present modern information on carcinogenesis to state the basic principles of diagnosis of tumor processes to state the basic principles of treatment of tumor processes	
Mind-1 *Mind-2* *Mind-3* *Mind-4*	to substantiate the diagnosis, to make a differential diagnosis, to make a detailed one treatment plan and rehabilitation of a specific patient (with taking into account age, comorbidities), be able to provide emergency care	*PR-2*
K-1 *K-2*	to conduct professional activities of social interaction. Based on humanistic and ethical principles; to carry out professional activity with social interaction. Based on humanistic and ethical principles;	*PR-3*
AB-1 *AB-2* *AB-3*	demonstrate the ability of independent search, analysis and synthesis; argue information for decision-making, be responsible for them in standard and non-standard professional situations, adhere to the principles of deontology and ethics in professional activities;	*PR-4*
Postrequisites of the course: lays the foundations for students to study the standard algorithm for diagnosis and treatment of cancer patients. Formulate the basic principles and stages of examination of patients with cancer.		

The purpose and objectives of the course

The purpose of teaching the discipline "ONCOLOGY" (the ultimate goal) is to prepare a master's degree in the specialty. The description of goals is formulated through skills in the form of target tasks (actions). Based on the ultimate goals of the module, specific goals are formulated in the form of certain skills (actions), target tasks that ensure the achievement of the ultimate goal of studying the discipline.

Learning objectives:

- determine tactics examination of the patient in case of suspicion on a malignant tumor;
- interpret the results of special research methods;
- determine the general tactics of treatment for the most common cancers;
- demonstrate the ability to maintain medical records;

- demonstrate mastery of the principles of oncological deontology.

Competences and learning outcomes, the formation of which provides the study of the discipline (general and special competencies):

- *general:*
- ability to act socially responsible and civic conscious;
- ability to apply knowledge in practical situations;
- ability to abstract thinking, analysis and synthesis;
- ability to communicate in the native language orally and in writing;
- ability to communicate with representatives of other professions.

- *special (professional, subject):*
- determine the tactics of monitoring and management of the patient in case of suspicion of malignancy;
- interpret the results of special research methods;
- formulate previous clinical diagnosis of major oncological diseases;
- formulate general tactics of treatment;
- demonstrate the ability to conduct medical documentation;
- demonstrate mastery of the principles of oncological deontology.

Expected results

Student should know:

• The concept and main differences of palliative care, palliative medicine, the main sections of palliative medicine.

• The procedure for providing palliative and hospice care, the tasks of the palliative and hospice care service, the organization of primary and general palliative and hospice care in outpatient and inpatient settings, a specialized health care facility of a special type - "hospice";

• The concept of "incurable disease".

• Methods of assessing the quality of life of patients and determining the main factors that affect it, ensuring quality of life.

• Ethical, psychosocial, religious and cultural issues of palliative and hospice medicine.

• Methods of development and support of the volunteer movement in the field of hospice care.

• The main clinical manifestations of disorders of the digestive system caused by the tumor, its complications and methods of treatment that require medical treatment: nausea, vomiting, diarrhea, constipation, loss of appetite, weight loss.

• Surgical treatment of complications of gastrointestinal tumors and other diseases that require palliative and symptomatic treatment.

• Surgical methods of treatment of gastrointestinal obstruction.

• Surgical techniques of artificial nutrition.

• Upper vena cava compression syndrome.
• Surgical treatment of respiratory complications.
• Surgical treatment of hydrothorax, pneumothorax, hydropericardium, bronchial fistulas.
• Prevention and treatment of bleeding due to common tumors and other diseases that require palliative and symptomatic treatment.
• Palliative surgery and combined treatment of tumors of the genitourinary system.
• Medical and surgical treatment of obstructive complications of the urinary system.
• Techniques of nephrostomy, cystostomy, catheterization of the bladder.

Students must be able to:
• Organizational foundations of palliative care in oncology practice, hospice and outpatient settings.
• Drug methods of correction of disorders of the digestive system.
• Organization of anesthesia in an outpatient setting.
• Artificial nutrition, appetite stimulation, diet therapy.
• Methods of treatment of perforated complications.
• Methods of esophageal stenting.
• Treatment of mechanical jaundice.
• Care for patients with stoma.
• Medical methods of correction of respiratory disorders: cough, shortness of breath, hydrothorax.

COURSE DESCRIPTION

Forms and methods of teaching

The course takes the form of practical classes (40 hours) and independent student work (50 hours)

Teaching methods

Practical classes: conversation, solving clinical situational problems, practicing patient examination skills, demonstration and practice of manipulation skills according to list 5, description of diagnostic radiation images according to schemes, training exercises on differential diagnosis of the most common cancers.
Independent work: independent work with the textbook, independent work with the bank of test tasks Step-2, independent solution of clinical problems.

Topics and content of the course

The purpose of palliative care is to maintain the highest possible level of quality of life for the patient and his family members. It does not prolong or shorten the patient's life, helps to perceive death as a natural way out of life, relieves him of pain and suffering, provides an acceptable quality of life and a decent way out of it.

The program is structured and contains 15 topics for classroom and independent study.

Topic 1. Basic principles and methods of palliative and symptomatic care in oncological practice.

Topic 2. Ethical, psychosocial, religious and cultural issues in palliative and hospice medicine.

Topic 3. Fighting pain.

Topic 4. Chronic fatigue syndrome. Anorexia / cachexia syndrome. Depression and mental disorders in cancer patients.

Topic 5. Bacterial infections in cancer patients.

Topic 6. Pulmonary complications and breathing disorders that require palliative and symptomatic treatment.

Topic 7. Cardiac complications of cancer therapy. Cardiotoxicity of anticancer therapy. Cancer and thrombosis.

Topic 8. Disorders of the digestive system, and complications of anticancer treatment requiring palliative and symptomatic treatment. Toxic medicinal hepatitis.

Topic 9. Skin lesions during anticancer therapy. Medical and surgical methods of prevention and treatment.

Topic 10. Bone damage in cancer patients (bone metastases, osteoporosis during hormone therapy, hypercalcemia).

Topic 11. Disorders of the genitourinary system require palliative and surgical intervention (catheterization or stenting).

Topic 12. Medical and surgical methods of treatment of complications of cancer therapy (extravasation of cytostatics, mucositis, osteonecrosis caused by the administration of bisphosphonates).

Topic 13. Medical and surgical methods of prevention and treatment of Lymphodema, bedsores, wounds. Hand-foot syndrome.

Topic 14. Sexual dysfunction in cancer patients. Fertility and pregnancy (all pros and cons) in cancer patients.

Topic 15. Management of cancer patients during the COVID-19 pandemic. Recommendations for treatment and features of immunization of cancer patients.

Recommended literature

Main literature:

1. Practical Medical Oncology Textbook by Russo, A., Peeters, M., Incorvaia, L., Rolfo, C. Published: July 27, 2021
2. Oxford Textbook of Oncology by David J. Kerr, Daniel G. Haller, Cornelis J. H. van de Velde, and Michael Baumann. Published: 21 October 2018
3. Clinical oncology by John E. Niederhuber & James O. Armitage & James H Doroshow & Michael B. Kastan & Joel E. Tepper. Published: 26 March 2019.

Additional literature:

1. Textbook of gynecological oncology – ESMO 2021
2. Surgical oncology. Theory and multidisciplinary practice / 2nd edition / G. Poston, L. Wyld, R. A Audicio – 2019

Information resources

1. NCCN and clinical guidelines https://www.nccn.org
2. UpToDate – http://www.uptodate.com/home
3. Access Medicine - http://accessmedicine.mhmedical.com
4. PubMed - https://www.ncbi.nlm.nih.gov/pmc/
5. CancerMedicine www.ncbi.nih.gov

EVALUATION

Methods of current control: test control, oral examination, written answer to the teacher's question, description of diagnostic radiation images according to the schemes**,** solving clinical problems.

At the last practical lesson, the teacher is obliged to announce to students the results of their current academic success, academic, academic debt (if any).

Only those students who do not have academic debts and have an average score for current academic activity of at least **3.00** are allowed to the final certification**.**

Forms and methods of final control, n at the end of the study subjects carried differentiated credit and final certification are permitted only those students who have academic debt and with the average score for current educational activity of at least 3.00.

Differentiated student credit is assessed on a 4-point (traditional) scale

Final control should be standardized.

The form of differentiated credit of Radiation Medicine consists of knowledge testing and interview, according to the list of questions.

How will the assessment of knowledge (distribution of points) of higher education students be carried out?

The maximum number of points assigned to students when mastering each module (ECTS credit) is 200.

GPA for discipline	The ratio received by the student average score for the discipline to the maximum possible value of this indicator	Score from discipline on a 4-point scale (traditional assessment)
4,45 – 5,0	90-100%	5
3,75 – 4,44	75-89%	4
3,0 – 3,74	60-74%	3

Additionally, the department holds a competition of abstracts and presentations. Students who have prepared the best works receive a diff. credit automatically if the average score of a student in the discipline "Radiology" is 4,5 and above.

Independent work of students (VTS)

Independent work of students, which provides employment subject to audience work, estimated during current control to THE APPROPRIATE class. Assimilation of topics that are submitted only for independent work is checked during the exam or differential test.

COURSE POLICY

Policy on deadlines and rearrangement: For students who want to improve their performance in mastering the content modules, it is possible to conduct a re-final control of the discipline (content module) during the exam in the commission.

Academic Integrity Policy *:*

Violation of academic integrity is not allowed when working on writing essays, presentations, preparing reports, etc. When using *Internet* resources and other sources of information, the student must indicate the source used during the task.

If plagiarism is detected, the student receives an unsatisfactory grade for the task and must re-complete the task.

Write-off during testing and diff. offsets are prohibited (including the use of mobile devices).

Attendance and lateness policy*:*

Delay of the student for more than 15 minutes before the lecture or before the practical lesson is counted as absence from the practical lesson.

Mobile devices:

Mobile devices in practice can be used exclusively for educational purposes. And itself: consideration of the presentation which is worked out at employment, the decision of problems of the teacher. The use of mobile devices for other purposes during a lecture or practical lesson is prohibited, and a student who ignores these requirements will be suspended from the lecture or practical lesson.

Audience behavior:

During a lecture or practical lesson, the student should not interfere with the learning of other students and distract the teacher. A student is not allowed to eat or drink during a lecture or practical session. The student can leave the auditorium, where there is a lecture or practical lesson at will only on health grounds.