

ACADEMIC STANDARD FOR EDUCATIONAL DISCIPLINE "CLINICAL ONCOLOGY"

Aim of the discipline training

Medical University – Plovdiv is the only medical university in the country conducting training in clinical oncology. Basic purpose on training on the discipline CLINICAL ONCOLOGY is in-depth acquaintance with the problems of modern oncology as a socially significant pathology: specific of tumorigenesis, incl. molecular genetic characteristics; complex diagnostic process specific for different tumor localizations; modern multimodal therapeutic approach, including surgery, radiotherapy (radiation oncology), nuclear medicine specialists, drug therapy (chemo, targeted therapy, immunotherapy); psychooncology; behavior in the palliation stage, incl. analgesia.

The goal is consistent with mission and concept of the university; volume and credit rating of the discipline (by the system ECTS), prominent from training plan; qualifying characteristic on the specialty being addressed to the required qualification of educational degree - master.

The goal is consistent with the position of the discipline in the specialty of importance and history in the curriculum. It is a generalizing and upgrading discipline in the education of medical students.

Educational content of the course

The content of the program in the course is tidy chronologically so that each next lecture and related clinical cases to use the material and concepts that have been discussed. Avoid unnecessary overlap of study material with related disciplines aiming upgrade and update of the oncological knowledge.

3. Prerequisites

The student must have basic knowledge of molecular biology, incl. genetics, immunology, pharmacology, pathoanatomy, radiotherapy (radiation oncology) and nuclear medicine, internal medicine, propaedeutics of surgical diseases in order to be able to upgrade the knowledge of discipline.

4. Academic resources

The academic composition on Department of Clinical Oncology includes two habilitated teachers (Professor and Associate Professor), 8 unhabilitated teachers, three of whom are currently on student degree "Doctor" in the relevant scientific specialty. The department also has two doctoral students in oncology. All teachers are with acquired specialty in the profile areas in clinical oncology, namely medical oncology, radiotherapy (radiation oncology) and nuclear medicine.

Lectures are read by habilitated teacher (Associate Professor or Professor). Up to 30% from the lectures are awarded to unhabilitated teachers, possessing scientific degree on the corresponding doctoral program.

Seminars are guided by habilitated and unhabilitated teachers (assistant, chief assistant). The unhabilitated teachers have "Master" degree in medicine, appointed after competition.

5. Material resources

The department of Clinical Oncology at MF -MU, Plovdiv has four classrooms, three of which are equipped with TVs and multimedia.

6. Lecture training

The lectures are prepared and exported in the form of modern interactive multimedia presentations in order to absorb more easily the learning material. The volume and the format of the lectures are chosen by the leading speaker.

7. Seminars

They are held in a discussion, with consideration of thematically related to the rhythm of the lecture program clinical cases. There are independent and team tasks. In the discussion is checked the preparation of the student as well as the medical understanding (received knowledge and skills) on the specific topic.

8. Information resources

The teachers have prepared and constantly updated lectures and a database of clinical cases in clinical oncology. These include examples from the complex of different therapeutic approaches (surgical, radiotherapy (radiation oncology), medical oncology) in the discipline. A list with available sources of basic recommended literature on the subject (lectures, exercises) is provided. Internet resources with appropriate materials for the preparation of the student are also recommended.

BIBLIOGRAPHY

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9. Test

Current control of students' knowledge is held by short test after completion of the module. On the following seminar students receive timely result information as well as explanations on the problematic moments from control. This form of discussion helps the following professional preparation.

10. Self-study and individual work of students

The stand-alone work with students interested in the discipline with a view to future professional orientation, as well as consultations are held from assistant on a pre-announced schedule. One of the goals of extracurricular activities is opportunity for work with students showing a focused interest in the specialty. Students are advised to use the professional literature and methods of their utilization. Materials for self-study are provided.

11. Cooperation between teachers and students

Quality cooperation and the personal example of the teacher (competence, charm, teamwork skills, professionalism, etc.) are important prerequisites for the success of the joint activity with young people. Cooperation be expresses in engagement of the teacher to the student and his preparation for overcoming current difficulties in mastering the material; service hours for consultations; involvement of students in extra time activities and join scientific research.

12. Exams

Assessment of knowledge on the discipline is performed through a semester exam in the form of a test. It includes closed (type MSQ1), open-ended questions with a long answer and clinical case.

13. Standards for evaluation

Successful study on discipline "Clinical Oncology» from training plan of MU-MF, Plovdiv evaluates such as value from assessments, distributed in the three basic elements of the final test:

The first includes the assessment on the answers to the closed questions (type MSQ1), which are structured as a basic level of modern oncological knowledge.

The second includes the assessment from exam in the part of open questions with a long answer.

The third includes the assessment of the answer on the clinical case on discipline.

Also important are the regulations for the examination to minimize the possibility of manipulation its results. For discipline develop clear standards for evaluation. Based on the above assessment for each exam is assigned a characteristic:

Weak (2) receives student with scarce knowledge, not enough as a basis for obtaining a master's degree;

Average (3) receives student, who reproduces knowledge in "Ready scheme ", with missing basic and important moments in the development theme; lack of readiness for use the clinical medical knowledge and professional abilities; with serious terminology gaps;

Good (4) receives student, who shows limited independence at use on received knowledge and acquired professional competencies; in the exhibition, although there is presence of good language skills, admitted inaccuracies in the terms used;

Very good (5) receives student, who develops the topic independently productive, unconventional, looking for new algorithm and analysis on used literary data; attempt to put and justify his thesis; adequately used concepts from scientific area on studied discipline; with good linguistic and medical terminology culture;

Excellent (6) receives student, who independently, logically, with the presence of a creative element brings out the topic; reasoned and original uses and interprets literature related to the question asked; demonstrates readiness to apply the acquired knowledge and professional competencies; its performance is characterized by accuracy and good linguistic culture on the exhibition.

At the beginning of the semester training students must be familiar with the standards for evaluation, opportunities for receiving reverse connection for their progress through semester, as well as for the forms of extracurricular employment in case of declared interest.

14. Formation of the final evaluation

The final assessment determines how much a student has achieved the purpose of training, set at the beginning. It is multicomponent. For each component, participating in the final assessment, is determined coefficient value on significance (from 0 to 1), the total amount of coefficients must be always 1. The final grade is calculated as the sum of the evaluations by the six from various components multiplied with relevant coefficients of significance.

$$Q (\text{Final assessment}) = (k_1 \times Q_1) + (k_2 \times Q_2) + k_3 \times Q_3$$

$k_1 = 0.50$ coefficient for Part I of the test;

$k_2 = 0.20$ coefficient for Part II of the test (open questions with a long answer);

$k_3 = 0.20$ coefficient for part III (response to the clinical case of the test);

Q1 = evaluation part I of the test;

Q2 = evaluation part II of the test;

Q3 = evaluation for open test questions;

If one component from the final exam is weak (2), the final evaluation is also weak.

15. Documentation, storage of results and control evaluation activities

The evaluated students have the right and the obligation to be informed for regulation, procedures and the results from evaluation.

Rights of students under the preceding paragraph applies in the case of identified technical errors (e.g. calculation or application of assessments), as well as major reasons for divergence of actual demonstration of knowledge, skills and competence and the resulting final evaluation for them.

The exam materials are stored and students are given the opportunity to get acquainted with them for a valid reason. The period in which students are provided with access to the examination materials and results is not longer than 3 (three) working days after the date of the examination.

Corrections on grades are allowed in cases on the previous one paragraph in the student book, the exam protocol or on the batch in the main book only from the holder on discipline.

The characteristics of the course are provided to the student at the beginning of the study. This is in accordance with the Higher Education Act Article 56, paragraph 1 *"teachers are obliged to develop and publish in an appropriate manner and description of the lecture course, including titles and sequence of topics from the curriculum, recommended literature, method of forming the assessment and form of testing knowledge and skills."*

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