



UNIwersYTET
Andrzeja Frycza Modrzewskiego
w Krakowie

Collegium Medicum Faculty of Medicine

SUBJECT CARD

Field of studies: Medicine
Form of studies: Full-time course
Degree: long-cycle Master's program
Specializations: No specialization
Academic year: 2024/2025

ONCOLOGY	
SUBJECT NAME	Oncology
NUMBER OF ECTS POINTS:	5
LANGUAGE OF INSTRUCTION	english
TEACHER(S)	dr hab. n. med. Wojciech Wysocki, prof. UAFM dr hab. n. med. Katarzyna Taran, prof. UAFM dr n. med. Marcin Hetnał dr n. med. Grzegorz Królczyk dr n.med. Łukasz Wohadlo dr n. med. Aleksandra Napieralska lek. Michał Kurzyński lek. Maria Marczak-Ziętkiewicz lek. Jan Ponichtera FRCR, MRCP(UK),PGDip(Oncology) lek. Joanna Rzeszut lek. Magdalena Wolanin lek. Artur Komorowski dr n. med. Przemysław Ryś mgr Krzysztof Czaja mgr Katarzyna Nowak-Ledniowska
PERSON RESPONSIBLE	dr n. med. Marcin Hetnał
NUMBER OF HOURS:	

ONCOLOGY	
LECTURES:	18 h
CLASSES:	45 h
SEMINARS:	8 h
GENERAL OBJECTIVES	
OBJECTIVE 1:	<ul style="list-style-type: none"> • to familiarize students with epidemiology, early and late symptoms of cancer and the course of cancer, • the ability to conduct a correct and quick diagnostics and evaluation of cancer stage, • to familiarize with the principles of combined (multimodality) cancer treatment, • to familiarize with the principles of management of cancer treatment complications, management of oncological emergencies with supportive treatment, • to familiarize with the principles of recognition, management and prevention of complications of colostomy, jejunostomy, nephrostomy and radiotherapy side effects, • to familiarize students with the system of cancer care in Poland and the principles of cooperation with specialized cancer centers and cancer registries, • To introduce students to the cancer screening system in Poland
OBJECTIVE 2:	<ul style="list-style-type: none"> • to develop skills to effectively work within a multidisciplinary team to develop a common cancer treatment strategy, to gain the ability to find reliable information on cancer and critically review scientific evidence. • the ability to talk with cancer patients, including incurably ill and dying patients and their family, • strategies for recognizing and treating occupational burnout syndrome, • learning how to manage the patient during cancer treatment and after its completion, including how to communicate with cancer patients and their family
LEARNING OUTCOMES	
MK1	Knowledge: MK1. Knowledge C.W23. knows the principles of cancer immunology
MK2	Knowledge: MK2. Knowledge: C.W25. knows pathomorphological nomenclature

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MK3	Knowledge: D.W4 understands the importance of verbal and non-verbal communication in the process of communicating with patients and the concept of trust in interaction with the patient
MK4	Knowledge: D.W5 understands the psychosocial consequences of hospitalization and chronic disease in the face of failure or contraindications to standard therapy MW5
MK5	Knowledge: D.W9 recognises adaptation to illness as a challenging situation, stages of adaptation to threatening events and patients' needs, dying and the family mourning process
MK6	Knowledge: D.W12 knows the principles of motivating patients to pro-health behavior and informing about an unfavorable prognosis
MK7	Knowledge: D.W15 knows the principles of team work
MK8	Knowledge: E.W23. Knows the environmental and epidemiological conditioning of the most common human cancers
MK9	Knowledge: E.W24. Knows the basics of early cancer diagnosis and the principles of cancer screening
MK10	Knowledge: E.W25. knows the capabilities of contemporary cancer treatments (including multimodality therapies), the prospects of cell and gene therapy and their undesirable effects
MK11	Knowledge: E.W26 Knows the principles of combined cancer therapies, diagnostic and treatment algorithms in the most common cancers
MK12	MK15. Knowledge: F.W3 knows the principles of qualification and performing as well as the most common complications of basic operations and invasive diagnostic and therapeutic procedures
MK13	Knowledge: G.W12 knows the principles of medical confidentiality, medical record keeping, criminal, civil and professional liability of a doctor
MS1:	Skills: E.U1 History taking with an adult patient
MS2:	Skills: E.U3 Full and problem focused physical examination of an adult patient
MS3:	Skills E.U 13 assessment and description of somatic and mental state of patient
MS4:	Skills EU16 Planning of diagnostic, therapeutic procedures and prophylaxis

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MS5:	Skills E.U18 Proposes individualization of current therapeutic guidelines and other management in view of contraindications or standard treatment failure
MS6:	Skills E.U21 defines situations, where patient's life span, performance status or preferences limit adherence to appropriate management guidelines
MS7:	Skills E.U24 Interpretation of laboratory test results and identification of causes of abnormal results
MS8:	Skill E.U25 Use of nutritional treatment (including enteral and parenteral nutrition)
MS9:	Skill E.U32 specialist consultations planning
MS10:	Skill E.U38 Medical record keeping
MS11:	Skill F.U6 breast examination, lymph nodes examination, thyroid gland examination, abdominal examination including acute abdomen, PR (per rectum) examination
MS12:	Skill G.U6 Avoids medical error in own actions
MC1:	Social competences: empathy, communication skills

INTRODUCTORY REQUIREMENTS

knowledge of molecular biology, cancer immunology, histology, biophysics, biochemistry, pathology and epidemiology. Student should be able to conduct an interview and physical examination

COURSE PROGRAM

DESCRIPTION

LECTURE 1: Marcin Hetnał	Basics of oncology: epidemiology, symptoms. The natural course of cancers, TNM (AREA E). Basics of cancer treatment. Radical vs. palliative treatment. Local and systemic treatment. Oncology patient in the General Practice (AREA F)
LECTURE 2: Grzegorz Królczyk	Diagnostic and follow-up tests. Tumor markers. Principles of screening tests and cancer prevention. Tumor immunology, clinical trials (AREA E)
LECTURE 3: Marcin Hetnał	Combined treatment of lung and urology cancer (AREA E) the role of palliative treatment, emergencies in radiotherapy
LECTURE 4: Aleksandra Napieralska	Pediatric oncology
LECTURE 5: Marcin Hetnał	Evidence based oncology. Data sources.

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LECTURE 6: Wojciech Wysocki	Principles of surgical treatment in oncology, novel technologies in surgical treatment, complications, effectiveness, role of surgery in palliative treatment. (AREA F)
LECTURE 7: Grzegorz Królczyk	Systemic treatment (types, qualification): chemotherapy, hormone therapy, targeted therapy, immunotherapy. Emergencies in clinical oncology (AREA E)
LECTURE 8: Marcin Hetnał	Radiation therapy, biology and physics of radiation, types of radiation therapy
LECTURE 9: Katarzyna Taran	Cancer pathology, principles of biopsy, genetics, nomenclature. Carcinogenesis. (AREA E)
CLASS 1	Workflow in the Department of Radiotherapy. Teleradiotherapy and brachytherapy planning. Assessment of acute and late radiation reaction. Combined therapy (AREA F) - 9 h
CLASS 2	Systemic treatment: Basics, types and complications of systemic treatment. (AREA E) - 7h
CLASS 3	Surgical oncology: qualification and preparation to surgery, postoperative care, complications, technique of needle and open biopsy (AREA F) -5 h
CLASS 4	Conducting interview and physical examination of cancer patients, assessment and interpretation of the laboratory test results and pathology reports, staging and prognosis. Discussion of proposed treatment methods. Participation in Multidisciplinary tumor board. Outpatient Oncology Clinic: follow-up. Principles of diagnostics and follow-up examinations in cancer patients. (AREA E) -14 h
CLASS 5	Classes at the patient's bedside: supportive and palliative treatment, pain management (AREA F) -6 h
CLASS 6	Classes at the patient's bedside: conversation with the oncological patient, conversation with the terminally ill patient. Classes in groups: strategies for preventing, recognizing and treating occupational burnout syndrome (AREA F) – 4h
SEMINAR 1 Magdalena Wolanin/Michał Kurzyński	Head and neck cancers, central nervous system tumors - diagnosis, the role of multidisciplinary and organ-sparing treatment, radical and palliative treatment (AREA E)
SEMINAR 2 Artur Komorowski	Radiology in oncology; qualification and preparation of the patient for examinations, interpretation of results (AREA F)
SEMINAR 3 Marcin Hetnał	Evidence based oncology – data sources, search strategy, basics of EBM

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SEMINAR 4 Maria Marczak-Ziętkiewicz/Jan Ponichtera	Combined treatment of gastrointestinal and breast cancer (AREA E).
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DIDACTIC METHODS (APPLIED)	DESCRIPTION
	Lecture, Seminar, Classes, Discussion, Presentations, E-learning methods, Case study, Bedside teaching, Participation in medical procedures, Computer exercises.

STUDENTS WORKLOAD:

CONTACT HOURS WITH THE ACADEMIC TEACHER	70h
HOURS WITHOUT THE PARTICIPATION OF THE ACADEMIC TEACHER	Preparation for classes: 15h Preparation of report, presentation, medical history: 15h Preparation for the exam: 25h
TOTAL NUMBER OF HOURS FOR THE COURSE	125 h

CONDITIONS FOR COURSE COMPLETION

The prerequisite for passing the course and qualifying for the exam is to pass all classes included in the study plan. In the case of excused absence, student is obliged to make up for the classes after prior arrangement with the assistant professor or the assistant conducting the classes.

METHODS OF ASSESMENT:

IN TERMS OF KNOWLEDGE:	MCQ test - 50 questions.
IN TERMS OF SKILLS:	A case study: a diagnosis, staging and treatment proposal. It is also a qualification for the test part.
IN TERMS OF SOCIAL COMPETENCE:	Student's communication skills are assessed.
FORMATIVE:	Not applicable.

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SUMMATIVE (I & II)

I term (EXAM): 50 questions (MCQ)

II term (RETAKE EXAM): Oral exam, 3 open questions

GRADING SCALE

3,0 (Satisfactory)

Positive skill score, test score: 57-61% of the maximum score.
maximum score.

3,5 (Satisfactory plus)

Pass on skills, test result: 62-71% of the maximum number of
points.

4,0 (Good)

Pass on skills, test result: 72-81% of the maximum score.

4,5 (Good plus)

Pass on skills, test result: 82-91% of maximum points.

5,0 (Very Good)

Positive skill score, test score: 92-100% of the maximum score.

BASIC LITERATURE

[1] Basics of Oncology, 2nd edition, By Frederick O. Stephens, ISBN: 331923367X, Springer 2016.

SUPPLEMENTARY LITERATURE

[1] Jassem Jacek, Kordek Radziław, ONKOLOGIA. Podręcznik dla studentów i lekarzy, Gdańsk 2019, wyd., Via Medica.