



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	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	
LECTURES	18 h
CLASSES	45 h
SEMINARS	8 h
GENERAL OBJECTIVES	

## ONCOLOGY

<b>OBJECTIVE 1</b>	<ul style="list-style-type: none"> <li>• to familiarize students with epidemiology, early and late symptoms of cancer and the course of cancer,</li> <li>• the ability to conduct a correct and quick diagnostics and evaluation of cancer stage,</li> <li>• to familiarize with the principles of combined (multimodality) cancer treatment,</li> <li>• to familiarize with the principles of management of cancer treatment complications, management of oncological emergencies with supportive treatment,</li> <li>• to familiarize with the principles of recognition, management and prevention of complications of colostomy, jejunostomy, nephrostomy and radiotherapy side effects,</li> <li>• to familiarize students with the system of cancer care in Poland and the principles of cooperation with specialized cancer centers and cancer registries,</li> <li>• To introduce students to the cancer screening system in Poland.</li> </ul>
<b>OBJECTIVE 2</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• the ability to talk with cancer patients, including incurably ill and dying patients and their family,</li> <li>• strategies for recognizing and treating occupational burnout syndrome,</li> <li>• learning how to manage the patient during cancer treatment and after its completion, including how to communicate with cancer patients and their family</li> </ul>
<b>LEARNING OUTCOMES</b>	
<b>MK1</b>	Konwledge: MK1. Knowledge C.W23. knows the principles of cancer immunology
<b>MK2</b>	Knowledge: MK2. Knowledge: C.W25. knows pathomorphological nomenclature
<b>MK3</b>	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
<b>MK4</b>	Knowledge: D.W5 understands the psychosocial consequences of hospitalization and chronic disease in the face of failure or contraindications to standard therapy MW5
<b>MK5</b>	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

## ONCOLOGY

<b>MK6</b>	Knowledge: D.W12 knows the principles of motivating patients to pro-health behavior and informing about an unfavorable prognosis
<b>MK7</b>	Knowledge: D.W15 knows the principles of team work
<b>MK8</b>	Knowledge: E.W23. Knows the environmental and epidemiological conditioning of the most common human cancers
<b>MK9</b>	Knowledge: E.W24. Knows the basics of early cancer diagnosis and the principles of cancer screening
<b>MK10</b>	Knowledge: E.W25. knows the capabilities of contemporary cancer treatments (including multimodality therapies), the prospects of cell and gene therapy and their undesirable effects
<b>MK11</b>	Knowledge: E.W26 Knows the principles of combined cancer therapies, diagnostic and treatment algorithms in the most common cancers
<b>MK12</b>	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
<b>MK13</b>	Knowledge: G.W12 knows the principles of medical confidentiality, medical record keeping, criminal, civil and professional liability of a doctor
<b>MS1</b>	Skills: E.U1 History taking with an adult patient
<b>MS2</b>	Skills: E.U3 Full and problem focused physical examination of an adult patient
<b>MS3</b>	Skills E.U 13 assessment and description of somatic and mental state of patient
<b>MS4</b>	Skills EU16 Planning of diagnostic, therapeutic procedures and prophylaxis
<b>MS5</b>	Skills E.U18 Proposes individualization of current therapeutic guidelines and other management in view of contraindications or standard treatment failure
<b>MS6</b>	Skills E.U21 defines situations, where patient's life span, performance status or preferences limit adherence to appropriate management guidelines
<b>MS7</b>	Skills E.U24 Interpretation of laboratory test results and identification of causes of abnormal results
<b>MS8</b>	Skill E.U25 Use of nutritional treatment ( including enteral and parenteral nutrition)
<b>MS9</b>	Skill E.U32 specialist consultations planning
<b>MS10</b>	Skill E.U38 Medical record keeping

<b>ONCOLOGY</b>	
<b>MS11</b>	Skill F.U6 breast examination, lymph nodes examination, thyroid gland examination, abdominal examination including acute abdomen, PR (per rectum) examination
<b>MS12</b>	Skill G.U6 Avoids medical error in own actions
<b>MC1</b>	Social competences: empathy, communication skills
<b>INTRODUCTORY REQUIREMENTS</b>	
knowledge of molecular biology, cancer immunology, histology, biophysics, biochemistry, pathology and epidemiology. Student should be able to conduct an interview and physical examination	
<b>COURSE PROGRAM</b>	<b>DETAILED DESCRIPTION OF THE TOPIC BLOCKS</b>
<b>LECTURE 1</b> 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)
<b>LECTURE 2</b> Grzegorz Królczyk	Diagnostic and follow-up tests. Tumor markers. Principles of screening tests and cancer prevention. Tumor immunology, clinical trials (AREA E)
<b>LECTURE 3</b> Marcin Hetnał	Combined treatment of lung and urology cancer (AREA E) the role of palliative treatment, emergencies in radiotherapy
<b>LECTURE 4</b> Aleksandra Napieralska	Pediatric oncology
<b>LECTURE 5</b> Marcin Hetnał	Evidence based oncology. Data sources.
<b>LECTURE 6</b> Wojciech Wysocki	Principles of surgical treatment in oncology, novel technologies in surgical treatment, complications, effectiveness, role of surgery in palliative treatment. (AREA F)
<b>LECTURE 7</b> Grzegorz Królczyk	Systemic treatment (types, qualification): chemotherapy, hormone therapy, targeted therapy, immunotherapy. Emergencies in clinical oncology (AREA E)
<b>LECTURE 8</b> Marcin Hetnał	Radiation therapy, biology and physics of radiation, types of radiation therapy
<b>LECTURE 9</b> Katarzyna Taran	Cancer pathology, principles of biopsy, genetics, nomenclature. Carcinogenesis. (AREA E)
<b>CLASS 1</b>	Workflow in the Department of Radiotherapy. Teleradiotherapy and brachytherapy planning. Assessment of acute and late radiation reaction. Combined therapy (AREA F) - 9 h
<b>CLASS 2</b>	Systemic treatment: Basics, types and complications of systemic treatment. (AREA E) - 7h

## ONCOLOGY

<b>CLASS 3</b>	Surgical oncology: qualification and preparation to surgery, postoperative care, complications, technique of needle and open biopsy (AREA F) -5 h
<b>CLASS 4</b>	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
<b>CLASS 5</b>	Classes at the patient's bedside: supportive and palliative treatment, pain management (AREA F) -6 h
<b>CLASS 6</b>	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
<b>SEMINAR 1</b> 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)
<b>SEMINAR 2</b> Artur Komorowski	Radiology in oncology; qualification and preparation of the patient for examinations, interpretation of results (AREA F)
<b>SEMINAR 3</b> Marcin Hetnał	Evidence based oncology – data sources, search strategy, basics of EBM
<b>SEMINAR 4</b> Maria Marczak-Ziętkiewicz/Jan Ponichtera	Combined treatment of gastrointestinal and breast cancer (AREA E).

### DIDACTIC METHODS (APPLIED)

Lecture, Seminar, Classes, Discussion, Presentations, E-learning methods, Case study, Bedside teaching, Participation in medical procedures, Computer exercises.

### STUDENTS WORKLOAD

<b>NUMBER OF HOURS UNDER SUPERVISION</b>	71 hours
<b>NUMBER OF PREPARATION HOURS</b>	Preparation for classes: 15 hours Preparation of report, presentation, medical history: 15h Preparation for the exam: 24 hours
<b>TOTAL NUMBER OF HOURS FOR THE COURSE</b>	125 hours

### 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.

ONCOLOGY	
METHODS OF ASSESMENT	
<b>IN TERMS OF KNOWLEDGE</b>	MCQ test - 50 questions.
<b>IN TERMS OF SKILLS</b>	A case study: a diagnosis, staging and treatment proposal. It is also a qualification for the test part.
<b>IN TERMS OF SOCIAL COMPETENCY</b>	Student's communication skills are assessed.
<b>FORMATIVE</b>	Not applicable.
<b>SUMMATIVE (I &amp; II TERMS)</b>	<b>I term (EXAM):</b> 50 questions (MCQ) <b>II term (RETAKE EXAM):</b> Oral exam, 3 open questions
GRADING SCALE	
<b>3,0 (SATISFACTORY)</b>	Positive skill score, test score: 57-61% of the maximum score. maximum score.
<b>3,5 (SATISFACTORY PLUS)</b>	Pass on skills, test result: 62-71% of the maximum number of points.
<b>4,0 (GOOD)</b>	Pass on skills, test result: 72-81% of the maximum score.
<b>4,5 (GOOD PLUS)</b>	Pass on skills, test result: 82-91% of maximum points.
<b>5,0 (VERY GOOD)</b>	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 Radziszlaw, ONKOLOGIA. Podręcznik dla studentów i lekarzy, Gdańsk 2019, wyd., Via Medica	