Study program: Integrated academic studies in medicine

Type and level of the study program: integrated academic studies

Course title: Oncology (M6-ONC)

Teacher: Radovanović D. Zoran, Popovic S. Lazar, Lucic M. Silvija, Spirovski M. Milena, Ivanov Z. Olivera, Kresoja Ignjatovic D. Milana

Course status: compulsory

ECTS Credits: 3

Condition: Surgery; Dermatovenerology (exam); Neurology (exam); Gynecology and obstetrics (exam); Paediatrics (exam)

Course aim

The aim of this course is to provide medical students with knowledge and skills for early screening, diagnosis, therapy and palliative care of oncology patients. Students learn about the etiology of malignant cells, their spread, epidemiology, prevention, early detection of precancerous lesions and malignant tumors, adequate diagnostic procedures, staging, clinical manifestations, signs and symptoms, complications during treatment, emergency situations, therapeutic modalities including surgery, radiotherapy, chemotherapy, immunotherapy, hormone therapy, target therapy, rehabilitation, palliative care, psychological attitude to patients and their families, better quality of life. Special attention is paid to diagnostic and therapeutic procedures of solitary localized tumors.

Expected outcome of the course:

This course provides medical students with knowledge about most important principles and specificities of treatment of oncology patients in order to be able to be a part of a multidisciplinary team as general practitioners. Physicians in primary care should be included in prevention and early detection of malignant diseases, recognition of signs and symptoms of malignant diseases, complications during treatment and contribute to better quality of life for oncology patients.
To acquire practical skills required in diagnosis, treatment and palliative care of oncology patients.

Course description

Theoretical education

1. Origin and biology of malignant tumors, carcinogenesis
2. Genetic predisposition to malignant diseases
3. Epidemiology, etiology and early detection of malignant diseases
4. Diagnosis (laboratory, pathology)
5. Diagnostic imaging in oncology
6. Neoplasm staging and therapeutic principles
7. Principles of surgical oncology
8. Principles of radiotherapy
9. Principles of chemotherapy
10. Emergency conditions in oncology
11. Complications of cancer therapy
12. Paraneoplastic syndrome
13. Rehabilitation in oncology
14. Supportive, symptomatic and palliative therapy
15. Tumors of the CNS, head and neck
16. Lung tumors
17. Breast tumors
18. Hematologic malignancies
19. Tumors of the digestive system
20. Tumors of the female reproductive organs
21. Tumors of the urinary tract and kidneys
22. Tumors of the male reproductive organs
23. Tumors of the skin, bones and soft tissues
24. Tumors of unknown primary origin

Practical education: exercises, other forms of education, research related activities

History taking in oncology patients (examination of breasts, palpation of the lymph nodes, abdomen, digitorectal examination, gynecologic examination), performance status, diagnostic and therapeutic procedures in oncology (endoscopy, pleural and abdominal punction), psychological approach to patients and their families.
Case reports of oncology patients with special overview of diagnosis and therapy of certain malignant tumors.

Literature

1. Stephens FO. Basics of Oncology. Springer 2009
2. Sabesan S. Clinical Oncology for Medical Students. Cancer Council Australia 2016.

Number of active classes				Other:
Lectures: 30	Practice: 15	Other types of teaching:	Research related activities:	

Teaching methods

Lectures and practice

Student activity assessment (maximally 100 points)			
Pre-exam activities	**points**	**Final exam**	**points**
Lectures	15	Written	60
Practices	15	Oral*	
Colloquium		.....	
Essay	10		

*optional after written exam