

Oncology and reconstructive oncoplastic surgery 2020/2021.

General oncology and radiotherapy line items

1. Etiology of cancer
2. Epidemiology of cancer
3. Screening and early detection of tumours
4. Imaging methods and their role in the treatment of tumours
5. Imaging diagnostics of major tumour groups
6. Histological diagnosis of tumours
7. Molecular pathological diagnosis of tumours
8. Methods of treatment of tumours - surgery
9. Methods of treatment of tumours - radiation therapy
10. Methods of treating tumours - medication
11. Physical, chemical and biological bases of radiation therapy
12. Basic concepts of dosimetry
13. Computer treatment planning, significant volumes in radiation therapy
14. Structure and operating principle of teletherapeutic devices
15. Structure and operating principle of brachytherapy devices
16. Brachytherapy applicators
17. Brachytherapy planning system, imaging devices
18. Interstitial brachytherapy
19. Image Guided Radiation
20. Intensity Modulated Radiation Therapy
21. Stereotaxic Radiotherapy and Radiosurgery
22. Basics of chemotherapy
23. Side effects of chemotherapy
24. Basics of simultaneous radio-chemotherapy
25. Basics of targeted, biological therapy
26. Side effects of targeted, biological therapy
27. Basics of immunotherapy
28. Side effects of immunotherapy
29. Basic elements of oncopharmacology
30. Clinical pharmacology studies in cancer
31. Evaluation of objective clinical response and general condition

Detailed line of oncology and radiotherapy items

1. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of head and neck tumours.
2. Radiation therapy, surgical and pharmacological treatment of head and neck tumours.
3. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of oesophageal tumours.
4. Radiation therapy, surgery and systemic treatment of oesophageal tumours.
5. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of gastric tumours.
6. Radiation therapy, surgical and pharmacological treatment of gastric tumours.
7. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of colorectal tumours.
8. Surgical and pharmacological treatment of colorectal tumours.
9. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of rectal tumours.
10. Radiation therapy, surgery and systemic treatment for rectal tumours.
11. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of pancreatic tumours.
12. Radiation therapy, surgical and pharmacological treatment of pancreatic tumours.
13. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of liver tumours.
14. Radiation therapy, surgery and systemic treatment for liver tumours.
15. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of cervical tumours.
16. Radiation therapy, surgery and systemic treatment for cervical tumours.
17. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of uterine tumours.
18. Radiation therapy, surgery and systemic treatment for uterine tumours.
19. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of vulvar, vaginal and ovarian tumours.
20. Radiation therapy, surgery and systemic treatments for tumours of the vulva, vagina and ovaries.
21. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of penis, testis and kidney tumours.
22. Radiation therapy, surgery and systemic treatment for penile, testicular and kidney tumours.

23. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of prostate and bladder tumours.
24. Radiation therapy for prostate and bladder tumours.
25. Surgical and pharmacological treatment of prostate and bladder tumours.
26. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of lung tumours.
27. Radiation therapy of lung tumours.
28. Surgical and pharmacological treatment of lung tumours.
29. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of breast tumours.
30. Radiation therapy of breast tumours.
31. Surgical and pharmacological treatment of breast tumours.
32. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of central nervous system tumours.
33. Radiation therapy of central nervous system tumours.
34. Surgical and pharmacological treatment of central nervous system tumours.
35. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of bone tumours.
36. Radiation therapy, surgical and pharmacological treatment of bone tumours.
37. Epidemiology, etiology, histology, staging, symptoms and pre-treatment examination of soft tissue tumours.
38. Radiation therapy, surgery and medication for soft tissue tumours.
39. Oncological emergencies.
40. Radiation treatment of distant metastases and oncological rehabilitation.
41. Principles of the possibilities of reconstructive plastic surgery.
42. Oncoplastic surgery for head and neck tumours.
43. Oncoplastic surgery for breast tumours.