

EXAMINATION QUESTION ON ONCOLOGY

Medical faculty for foreign students

5th course

2024-2025 academic years

Basic oncology.

Organization of medical care for patients with malignant neoplasms.

Deontology in oncologic practice

1. Invasive growth and metastasis of malignant tumors: clinical meaning. Locoregional and generalized tumor advancement.
2. The classification of tumors according to morphogenesis. Ways and stages of metastatic spread of malignant tumors.
3. The modern model of carcinogenesis. The main groups of carcinogens.
4. Groups of high risk of development of malignancies. Prevention of malignant tumors: primary, secondary, tertiary.
5. Epidemiology of malignant tumors. Structure of the cancer morbidity and mortality worldwide.
6. Organization of medical care for patients with malignant neoplasms.
7. Clinical groups of cancer patients. Tactic of diagnosis, treatment and follow-up. Accounting documentation.
8. Principles of bioethics in oncology. Response of patients to oncological diagnosis depending on type of higher nervous activity. Deontological approach to patients at different stages of the tumor disease. Community with the patient's relatives. Medical Secret in oncology.
9. The main regularities of clinical manifestations of malignant tumors. Diagnostic algorithm in oncology: primary and staging diagnostics. Types of biopsies.
10. The principles of classification system TNM: basic and additional predictors. Stage of the disease. The structure of cancer diagnosis.
11. Surgical treatment of malignant tumors. Radical, palliative and symptomatic operations. Principles of radical surgery.
12. Modern trends in surgical treatment of malignant tumors. Combined and extended operations. Cytoreductive operations. Functional-saving operations.
13. Radiobiological basis of radiation therapy in oncology. Bergonie-Tribondeau` rule. Methods and types of radiotherapy. Indications and contraindications for radiotherapy.
14. Chemotherapy of tumors. The main groups of anti-cancer medicines. Indications and contraindications for chemotherapy.
15. Hormonotherapy in oncology: indications for hormonotherapy, groups of hormonal anti-cancer medicines.
16. Immunotherapy of malignant neoplasms. Targeted therapy. Main groups of medicines. Indications for immunotherapy.

17. Combined and complex treatment of malignant tumors. Adjuvant and neoadjuvant therapy. Multimodal treatment: basic chemical and radiological modifier.
18. Basic paraneoplastic syndromes. Diagnostic meaning of anemia.
19. Treatment of chronic pain in cancer patients. Main groups of medicines. Co-analgesics.

Skin tumors

20. Pigment nevi at high risk of malignant transforming. Dubreuilh melanosis. Signs of pigment nevus malignant transforming. Diagnostic and treatment tactics.
21. Skin cancer: morphological types, macroscopic growth patterns, metastasis features.
22. Skin cancer: signs and symptoms, diagnosis, treatment, prognosis, prevention.
23. Skin melanoma: types of growth, metastasis, signs and symptoms, diagnosis, and differential diagnosis.
24. Treatment of skin melanoma. Typical lymph node dissection. Prognosis. Prevention.

Head and neck malignancies

25. The epidemiology of thyroid gland cancer. Role of Chernobyl disaster. Morphologic types of thyroid cancer. Features of their clinical symptoms.
26. Clinical presentation and diagnosis of thyroid cancer. Papillary and follicular cancer: metastatic features, diagnosis and treatment. Treatment of other morphologic types of thyroid cancer. Prognosis.
27. Lip cancer: epidemiology, etiological factors. Precancerous lips diseases. Local spread and metastasis of lips cancer. Clinical presentation, diagnosis, treatment and prognosis.
28. Oral cancer: epidemiology, etiological factors, morphologic types. Local spread and metastasis. Clinical presentation, signs and symptoms, diagnosis, treatment and prognosis.
29. Salivary glands cancer: epidemiology, basic morphologic types. Local spread and metastasis of malignant tumors. Clinical presentation, signs and symptoms, diagnosis, treatment and prognosis.
30. Larynx cancer: epidemiology, etiological factors, local spread and metastasis.

Breast cancer

31. Breast cancer: epidemiology, etiological agents, morphological types, clinical forms, metastasis.
32. Clinical presentation of nodular form of breast cancer. Signs of the Cooper bundles involvement. Signs of the skin involvement (T4b).

33. Clinical presentation of diffuse forms of breast cancer. Symptoms of Paget's cancer.
34. Breast cancer: diagnosis and differential diagnosis.
35. Breast cancer. Methods of treatment. Tactics depending on the tumor advancement and morphological characteristics of the tumor.
36. Typical radical operations in breast cancer. Indications for organ-saved operations. The role of sentinel lymph node.
37. Prevention of breast cancer, the prognosis. Screening of breast cancer.
38. Diffuse and nodal mastopathy. Fibroadenoma, phylloidfibroadenoma, ductal papilloma, cyst, oleogranuloma of the mammary gland: etiology, clinical presentation, diagnosis, treatment.

Lung cancer. Malignant tumors of mediastinum

39. Lung cancer: epidemiology, etiological factors, the main morphological types. Clinical and anatomical form of lung cancer, its radiographic manifestations.
40. Lung cancer: local spread and metastasis. Symptoms of central and peripheral cancer, atypical forms of cancer. Pancoast's syndrome.
41. Diagnosis and differential diagnosis of lung cancer.
42. Treatment methods of lung cancer. Tactics in non-small cell lung cancer and small cell lung cancer, prognosis, prevention.
43. Mediastinum tumors: topography, clinical presentation, diagnostics, treatment, prognosis.

Esophageal cancer. Gastric cancer

44. Esophageal cancer: epidemiology, etiological agents. Precancerous diseases of esophagus.
45. Histological types and macroscopic forms of esophageal cancer. Local spread and metastasis.
46. Esophageal cancer: signs and symptoms, diagnosis, treatment, prognosis, prevention.
47. Gastric cancer: epidemiology, etiological agents. Precancerous diseases of gastric: therapeutic and diagnostic tactics.
48. Histological types and macroscopic forms of gastric cancer. Loren's histological types of gastric cancer, their signs and symptoms. Local spread and metastasis of gastric cancer.
49. Signs and symptoms gastric cancer. Local and general symptoms. Signs and symptoms of early gastric cancer.
50. Diagnosis of gastric cancer. Endoscopic and x-ray signs of the infiltrating type of cancer.
51. Treatment of gastric cancer. Indications for radical operations. Surgical treatment of early gastric cancer. Prognosis. Prevention.
52. Palliative and symptomatic operations in metastatic forms of gastric cancer.

Colorectal cancer

53. Colorectal cancer: epidemiology, etiological agents. Prevention. Precancerous diseases of the colon and rectum: symptoms, diagnostics, treatment.
54. Colorectal cancer: histological types and macroscopic forms. Local spread and metastasis.
55. Clinical forms of colon cancer, according to localization. Symptoms of rectal cancer.
56. Diagnosis and differential diagnosis of colorectal cancer. Screening of colorectal cancer. Possible schemes for screening colorectal cancer in patients at high risk.
57. Treatment of colon cancer. Radical surgery: type of operations and indications. Palliative and symptomatic operations.
58. Treatment of rectal cancer. Radical surgery: type of operations and indications. Palliative and symptomatic operations.
59. Indications for combined operations in colorectal cancer. Cytoreductive operations. Prognosis.
60. Surgical tactics in colorectal cancer, complicated by acute intestinal obstruction.

Tumors of the pancreatoduodenal area and liver

61. Tumors of the pancreatoduodenal area: epidemiology, etiological agents, local spread and metastasis.
62. Signs and symptoms of the pancreas head cancer. Signs and symptoms of the pancreas body and tail cancer.
63. Diagnosis and differential diagnostics of pancreatic cancer. Obstructive jaundice.
64. Features of ductal adenocarcinoma and neuroendocrine pancreatic cancer.
65. Treatment of pancreatic cancer. Indications and types of radical operations. Surgical treatment of the tumors complicated by obstructive jaundice. Prognosis. Prevention.
66. Palliative treatment of pancreatic cancer. Symptomatic operations.
67. Cancer of the ampulla of Vater: signs and symptoms, diagnosis, treatment.
68. Cancer of the extrahepatic bile ducts: signs and symptoms, diagnosis, treatment.
69. Cancer of the gallbladder: signs and symptoms, diagnosis, treatment.
70. Cancer of the duodenum: signs and symptoms, diagnosis, treatment.
71. Primary and metastatic liver tumors: epidemiology, the main morphological types of primary liver cancer, etiological agents. Signs and symptoms, diagnosis and differential diagnostics of primary liver tumors.

72. Treatment of primary and metastatic liver tumors. Types of anatomical liver resections. Endovascular technologies in treatment of liver tumors. Prognosis. Prevention of primary liver cancer.

Malignant lymphomas

73. Malignant lymphoma: epidemiology, etiological factors, the main morphological types. General and local symptoms.
74. Malignant lymphomas. Clinical presentation, diagnosis, differential diagnosis.
75. Stage classification of malignant lymphomas. Treatment of malignant lymphomas. Features of tactic in indolent lymphomas. Prognosis.

Malignant tumors of soft tissue and retroperitoneal space.

Malignant bone tumors

76. Malignant soft tissue tumors: epidemiology, etiological factors, the main morphological types. Local spread and metastasis of malignant soft tissue tumors.
77. Malignant soft tissue tumors: clinical presentation, diagnosis, methods of treatment. Typical radical operations. Treatment tactics depending on the differentiation grade. Prognosis.
78. Tumors of the retroperitoneal space: the main morphological types, local spread and metastasis.
79. Tumors of the retroperitoneal space: clinical presentation, diagnosis and differential diagnosis, methods of treatment. Prognosis.
80. Malignant bone tumors: epidemiology, etiological factors, the main morphological types, local spread and metastasis.
81. Malignant bone tumors: clinical presentation, radiologic features, diagnosis, treatment. Prognosis.
82. Diagnosis tactics and treatment tactics in metastatic bone tumors.

Cancer of the genitourinary system

83. Kidney cancer: epidemiology, etiological agents, histological types. Local spread and metastasis.
84. Signs and symptoms, diagnosis of kidney cancer.
85. Treatment of kidney cancer. Radical operations: types, indications. Combined and cytoreductive surgery for kidney cancer. Prognosis. Prevention.
86. Bladder cancer: epidemiology, etiological agents, histological types. Local spread and metastasis.
87. Signs and symptoms, diagnosis and differential diagnosis of bladder cancer.
88. Treatment of bladder cancer. Prognosis, prevention.

89. Radical operation for bladder cancer. Urinary divert after radical cystectomy.
90. Prostate cancer: epidemiology, etiological agents, histological types. Local spread and metastasis.
91. Prostate cancer: signs and symptoms, diagnosis and differential diagnosis. Prostate cancer screening.
92. Treatment of prostate cancer. Tactics, depending on the spread of the tumor. Prognosis, prevention.
93. Testicular tumors: epidemiology, etiological agents, histological types. Local spread and metastasis.
94. Testicular tumors: signs and symptoms, diagnosis and differential diagnosis. Tumor markers.
95. Treatment of testicular tumors. Treatment of seminoma and non-seminoma tumors. Prognosis, prevention.

Uterine cancer and ovarian cancer

96. Uterine cancer: epidemiology, etiological factors. Background and precancerous endometrial disease: diagnostic and treatment tactics.
97. Uterine cancer: local spread and metastasis, clinical presentation, diagnosis and differential diagnosis.
98. Uterine cancer: treatment, prognosis, prevention.
99. Ovarian cancer: epidemiology, etiological factors, the main morphological types, metastasis.
100. Ovarian cancer: clinical presentation, diagnosis and differential diagnosis. Tumor markers.
101. Methods of treatment of ovarian cancer. Cytoreductive operations. Treatment tactics in borderline ovarian tumors. Prognosis. Prevention.

Cervical cancer

102. Cervical cancer: epidemiology, etiological agents. Screening methods.
103. Cervical precancerous disease, therapeutic and diagnostic tactics.
104. Local spread and metastasis of cervical cancer. Histological types.
105. Signs and symptoms, diagnosis and differential diagnosis of cervical cancer.
106. Surgical, combined and complex treatment of cervical cancer. Prognosis. Prevention.

Edited by

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