

UNIQUE EXAMINATION QUESTIONS IN ONCOLOGY (Structured by Thematic Section)

1. General Oncology: Basic Concepts, Classifications, Processes

- Define the terms "tumor" and "cancer". Provide the main classifications of tumors.
- Give the basic signs of malignant tumors.
- Etiology of tumors. Classification of tumors. Carcinogenesis.
- Definition of "early cancer". Early diagnosis of cancer.
- Common diagnostic algorithm in oncology. Diagnosis of tumor presence and functional diagnosis.
- TNM classification: base and additional elements. Principles. Staging. Correct formulation of oncological diagnosis.
- Multimodality treatment in oncology.
- Radiotherapy in oncology: radiation sources, indications, contraindications.
- Chemotherapy in oncology: drug groups, indications, contraindications.
- Hormone therapy: indications, groups of antitumoral drugs.
- Paraneoplastic syndromes: definition, types, examples.
- Tumor markers: definition, types, clinical use.
- Oncological deontology.

2. Metastasis

- Metastasis of malignant tumors. Principal steps of lymphogenous and hematogenous metastasis.
- Metastasis of lung cancer: routes and common sites.
- Pathways of metastasis of gastric cancer. Distant metastasis. Methods of evaluation.
- Metastasis of cervical cancer.
- Metastasis of breast cancer.
- Metastasis of soft tissue sarcomas.
- Metastasis of melanoma.
- Metastasis of thyroid cancer (distant).
- Metastasis of testicular tumors.
- Metastasis of liver tumors (primary vs metastatic).

3. Epidemiology and Global Oncology Statistics

- Global oncology statistics: incidence, structure of cancer morbidity, mortality.
- Incidence and mortality of colorectal cancer. Precancerous conditions.
- Incidence of endometrial cancer worldwide and in your country. Precancerous diseases.

- Incidence of gastric cancer. Reasons for late detection.
- Incidence of prostate cancer: etiology, diagnosis, treatment, screening.
- Breast cancer: incidence, classifications, risk groups, prophylaxis, early detection.

4. Diagnostic Methods in Oncology

- Methods of diagnosis in oncology. Types of biopsy.
- Methods of diagnosis of soft tissue sarcomas.
- Methods of diagnosis of cervical cancer.
- Methods of diagnosis of gastric cancer. Early diagnosis.
- Methods of diagnosis of colorectal cancer. Early diagnosis.
- Diagnosis of lung cancer.
- Diagnosis of breast tumors.
- Diagnosis of ovarian cancer.
- Diagnosis of pancreatic cancer.
- Diagnosis of renal cell carcinoma.
- Diagnosis of bladder cancer.
- Diagnosis of mediastinal tumors.
- Diagnosis of salivary gland tumors.
- Diagnosis of endometrial cancer.
- Diagnosis of esophageal cancer.
- Diagnosis of laryngeal cancer.
- Diagnosis of liver tumors.
- Diagnosis of testicular tumors.

5. Head and Neck Tumors

- Clinical symptoms and diagnostic approach for cancers of the oral cavity and tongue. Metastatic spread.
- Skin cancer: histological forms, growth patterns, specific features, metastasis.
- Classification of nevi. Premalignant nevi. Melanosis circumscripta Dubreuilh. Signs of nevus malignization.
- Melanoma: origin, clinical presentation, growth forms, metastasis, diagnosis, treatment.
- Tumors of the salivary glands: clinical presentation, methods of investigation.
- Laryngeal cancer: clinical presentations, diagnosis, treatment.
- Precancerous diseases of the lips. Clinical presentation of lower lip cancer. Metastasis,

diagnostics, treatment.

6. Thyroid Tumors

- Papillary and follicular carcinoma of the thyroid: etiology, metastasis, diagnostic specificity, treatment.
- Medullary thyroid cancer: origin, characteristics, diagnosis, treatment.
- Undifferentiated (anaplastic) thyroid carcinoma: diagnosis, treatment.
- Thyroid cancer: etiology, morphological classifications.
- Clinical presentations of thyroid cancer; distant metastasis.
- Thyroid cancer: multimodality treatment, radiotherapy, hormone therapy.

7. Lung Tumors

- Clinical types of lung cancer. Clinical and CT signs.
- Clinical presentation of lung cancer: symptoms of primary tumor, local spread, metastasis.
- Lung cancer: incidence, morbidity, mortality, etiology, pathogenesis, precancerous conditions, morphological forms, metastasis, prevention.
- Lung cancer: methods of treatment.

8. Gastrointestinal Tumors

Esophagus:

- Esophageal cancer: incidence, risk factors, precancerous diseases, clinical presentation, diagnosis, treatment.

Stomach:

- Methods of gastric cancer diagnosis. Early diagnosis.
- Gastric cancer: treatment (radical, palliative), indications for radiotherapy and chemotherapy.
- Clinical presentation of gastric cancer; localization-dependent features; forms of tumor growth.
- Etiology, diagnosis, treatment of stomach cancer.

Colon and Rectum:

- Colon and rectal cancer: methods of treatment (surgery, radiotherapy, chemotherapy).
- Clinical presentation of colon and rectal cancer; symptom groups; clinical forms.
- Incidence and mortality of colorectal cancer; precancerous conditions; early diagnosis.

Pancreas:

- Pancreatic cancer: etiology, risk factors, clinical features by localization and spread.
- Diagnosis and treatment of pancreatic cancer.

Liver and Biliary Tract:

- Primary and metastatic liver tumors: clinical presentations, diagnosis, treatment.
- Classification of liver tumors; etiology, risk factors, precancerous diseases; clinical presentation.
- Tumors of the gallbladder and extrahepatic bile ducts: etiology, clinical presentation, diagnosis, treatment.

9. Gynecologic Oncology

- Clinical presentation of ovarian cancer.
- Ovarian cancer: methods of treatment (surgery, chemotherapy, radiotherapy).
- Cervical cancer: methods of treatment (surgical, multimodality, radiotherapy, chemotherapy).
- Cervical cancer: incidence, mortality, etiology, background conditions, precancerous diseases, screening, prophylaxis.
- Clinical presentation of cervical cancer (invasive and local spread forms).
- Endometrial cancer: treatment.
- Classification of endometrial cancer; metastasis.

10. Urologic Oncology

- Clinical presentation of renal cell carcinoma; diagnosis, treatment.
- Tumors of the urinary bladder: risk factors, precancerous diseases, diagnosis, treatment.
- Tumors of the testis: risk factors, metastasis, symptoms, diagnostics, treatment.
- Clinical presentation of local prostate cancer.
- Prostate cancer: incidence, etiology, diagnosis, treatment, screening.

11. Lymphomas and Hematologic Malignancies

- Treatment of Hodgkin and non-Hodgkin disease.
- Clinical presentations of Hodgkin and non-Hodgkin disease. Staging.
- Hodgkin disease: morphological classification, diagnosis, diagnostic sequence.
- Non-Hodgkin lymphoma: classification, clinical presentations, diagnosis.
- Malignant lymphoma: definition, general signs, types, incidence, etiology.

12. Sarcomas and Soft Tissue Tumors

- Classification of soft tissue tumors; metastasis; clinical presentations by localization, histologic type, spread.
- Methods of diagnosis of soft tissue sarcomas; treatment.
- Sarcomas: classification, clinical features, metastasis, diagnosis, treatment.
- Tumors of the retroperitoneal space: clinical presentations, diagnostics, treatment.

13. Breast Tumors

- Diagnosis of breast tumors; signs and symptoms of breast cancer.
- Breast cancer: clinical presentations, clinical forms, metastasis.
- Breast cancer: treatment; surgical treatment.
- Benign tumors of the breast: clinical presentations, diagnosis, treatment.