



Faculty of Medicine
Department IX: Surgery I
University Clinic of Oncology
Associate Professor, Position 37

Topics

Topics of the test

Natural evolution of cancer

- Main characteristics of the cancer cell
- Stages of transformation to the malignant cell
- Naming of cancers
- Oncogenes
- Carcinogenesis

Epidemiology of cancer

- History
- Incidence and mortality by sex, age group and location
- Oncological risk factors
- Primary prevention measures
- Screening of certain cancers
- Tertiary prevention

Diagnosis of malignant disease

- Clinical diagnosis
- Pathological investigations
- Imagistic investigations
- Cancer staging, grading and performance status
- Paraneoplastic syndromes
- Tumor markers

Principles of radiotherapy

- History
- Principles of radiobiology
- External radiotherapy techniques
- Techniques of brachytherapy
- Principles of planning and oncological strategy
- Side effects of radiotherapy

Principles of medical oncology

- Chemotherapy
- Hormonal therapy
- Biological and targeted therapies
- Immunotherapy

Breast cancer

- Epidemiology, risk factors, pathology
- Clinical, para-clinical investigations
- Early detection
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Broncho-pulmonary cancer

- Epidemiology, risk factors, pathology
- Clinical, para-clinical investigations



- Early detection
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Colorectal cancer

- Epidemiology, risk factors, pathology
- Clinical, para-clinical investigations
- Early detection
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Other digestive cancers (esophageal, gastric, hepatic, pancreatic)

- Epidemiology, risk factors, pathology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Gynecological cancers (ovarian, cervical, uterine corpus)

- Epidemiology, risk factors, pathology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Prostate cancer

- Epidemiology, risk factors, pathology
- Clinical, laboratory investigations
- Early detection
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Other urological and male genital cancers (renal, bladder, testicular)

- Epidemiology, risk factors, pathology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Head and neck cancers

- Epidemiology, risk factors risk, histology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Sarcomas (osteosarcomas, soft tissue sarcomas)

- Epidemiology, risk factors, histology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up



Skin cancers (melanoma, non-melanoma)

- Epidemiology, risk factors, histology
- Clinical, laboratory investigations
- Staging, prognosis
- Multimodal treatment
- Post-therapeutic follow-up

Bibliography

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