Students homework

Section 1. Tumors of skin, bones, soft tissues, head and neck.  
1. Cancer of underlip  
2. Children's tumors of bones

Section 3. Tumors of digestive tract  
1. Palliative and sympthomatic therapy of esophagus and stomach cancer  
2. Cancer of liver and pancreas

Section 4. Tumors of female reproductive system  
1. Mastopathy  
2. Trophoblastic disease

Section 5. Lymphoproliferative diseases  
1. Non-Hodgkin lymphomas.

Section 6. Oncourology   
1. Germ cell tumors  
  
Section 7. Radiotherapy  
1. Systemic radiotherapy

6. Themes of practic and seminar lessons  
Section 1. Tumors of skin, bones and soft tissues.  
Theme 1. Skin cancer, melanoma. Thyroid cancer.  
Work content:  
1. The epidemiology of skin cancer.  
2. Ethyopathogenetic factors of skin cancer.  
3. Facultative and obligate precancer of skin.  
4. The morphology of skin cancer.  
5. Stadilal and TNM classification of skin cancer.  
6. Clinics of skin cancer.  
7. Diagnosis of skin cancer, methods of early diagnosis.  
8. Principles of radical treatment of skin cancer.  
9. Palliative treatment of incurable skin cancer.  
10. Melanoma. The epidemiology and ethyopathogenesys.   
11. Signs of nevus's malignization.  
12. Melanoma. Localization, clinics, features of malignization.  
13. Melanoma. Principles of diagnosis and treatment.  
14. Thyroid cancer. Etiological factors.   
15. Thyroid cancer. Pathomorphological and clinical classification.   
16. Clinics of thyroid cancer.   
17. Diagnosis of thyroid cancer.

18. Principles of radical treatment of thyroid cancer.   
19. Principles of palliative treatment of thyroid cancer.

Theme 2. Tumors of bones and soft tissues.

Work content:

1. Ethyopathogenesis of soft tissue tumors.
2. Morphological and clinical classification of soft tissue tumors.
3. Clinics of soft tissue tumors.
4. Diagnostic features of soft tissue tumors.
5. Principles of radical treatment of soft tissue tumors.
6. Ethyopathogenetic factors of bone system tumors.
7. Morphological and clinical classification of bone system tumors.
8. Clinics of malignant bones tumors.
9. Diagnosis of bones tumors.
10. Principles of radical treatment of bone system tumors (radiography, ultrasonography, CT, MRI, angiography).
11. Palliative treatment of bones and soft tissues tumors.

Section 2. Lung cancer.

Theme 3. Lung cancer.

Work content:

1. Common information about mediastinum tumors.
2. Common characteristic of innocent lung tumors.
3. Epidemiology of lung cancer in Russia, countries of CIS and industrial west countries, in the USA and Canada.
4. The morbidity and the mortality on lung cancer.
5. Ethyology and pathogenesis of lung cancer.
6. Anatomical pathology of lung cancer.
7. Morphogenesis of lung cancer, its influence on ways and results of treatment.
8. Stadial classification of lung cancer.
9. TNM classification of lung cancer.
10. Clinical and anatomical classification of lung cancer.
11. Common diagnosis features of lung cancer (radiography, bronchoscopy, CT, MRI).
12. Clinics of central lung cancer.
13. Clinics of distal lung cancer.
14. Clinics of atypical lung cancer.
15. Principles of radical treatment of lung cancer.
16. Palliative treatment of lung cancer.

Section 3. Tumors of digestive tract.

Theme 4. Esophagus cancer. Stomach cancer.

Work content:

1. Innocence esophagus tumors.
2. Epidemiology of esophagus cancer.
3. Ethyological factors of esophagus cancer.
4. Anatomical pathology of esophagus cancer.
5. Stadial classification of esophagus cancer.
6. TNM classification of esophagus cancer.
7. Clinics of esophagus cancer, pathogenesis of clinic symptoms.
8. Diagnosis of esophagus cancer (radiography, CT, endoscopic methods).
9. Principles of radical treatment of esophagus cancer.
10. Principles of palliative treatment of esophagus cancer.
11. Clinics, diagnosis and treatment of innocent stomach tumors. The role of endoscopic methods.
12. Epidemiology of stomach cancer.
13. Ethyology and pathogenesis of stomach cancer.
14. Stadial classification of stomach cancer.
15. TNM classification of stomach cancer.
16. Anatomical pathology of stomach cancer.
17. Syndrom of small signs in clinics of stomach cancer.
18. Clinics of stomach cancer according to localization of tumor and form of its growth.
19. Diagnosis of stomach cancer (radiography, endoscopic methods).
20. Basic types of radical operations for stomach cancer.
21. Palliative treatment of stomach cancer.

Theme 5. Colorectal cancer. Tumors of liver and biliopancreoduodenalis system.

Work content:

1. Epidemiology and ethyopathogenesis of colon cancer.
2. Pathoanatomical classification of colon cancer.
3. Stadial classification of colon cancer.
4. Forms of growth and localization of colon cancer. Ways of metastasis.
5. Clinics of right-side and left-side colon cancer.
6. Principies of colon canser diagnostics.
7. Principles of radical treatment of colon cancer. Kinds of operations.
8. Ethyopathogenesis of rectum cancer.
9. Pathoanatomical classification of rectum cancer.
10. Stadial classification of rectum cancer.
11. Clinics of rectum cancer according to its localization and form of its growth.
12. Diagnosis of rectum cancer. What method, do you think, is the best?
13. Prinsiples of radical treatment of rectum cancer. Kinds of operations.
14. The place of radial and drug treatment in cure of rectum cancer.
15. Principles of palliative treatment of rectum cancer.
16. Epidemiology of liver cancer.
17. Essential and metastatic liver cancer.
18. Ethyopathogenesis of hepatocellular cancer.
19. Anatomical pathology of liver cancer.
20. Clinics of liver cancer. Periods and clinical forms.
21. Diagnostic methods of liver cancer.
22. Prinsiples of radical treatment of liver cancer.
23. Principles of palliative treatment of liver cancer.
24. Ethyopathogenesis of pancreas cancer. Risk factors.
25. Pathomorphology of pancreas cancer, metastasing.
26. Symptoms of pancreas cancer. “Disturbing signs”.
27. Clinics according to tumor localization.
28. Diagnosis of pancreas cancer (USG, CT, MRI).
29. Differential diagnosis of icterus, as a supervention of pancreas’s head tumor.
30. Prinsiples of radical treatment of pancreas cancer.
31. Principles of palliative treatment of pancreas cancer.

Section 4. Tumors of female reproductive system.

Theme 6. Precancerous diseases and mamma cancer.

Work content:

1. Precancerous mamma diseases.
2. Ethyology and pathogenesis of mamma cancer.
3. Pathogenetic kinds of mamma cancer.
4. The morbidity and the mortality on mamma cancer, screening programs.
5. Nodal form of mamma cancer, the main symptoms and ways of their formation.
6. Diffuse kinds of mamma cancer.
7. Diagnosis of mamma cancer (mammography, USG, MRT, determination of hormonal level).
8. Surgical treatment of mamma cancer.
9. Chemotherapy of mamma cancer.
10. Radiotherapy of mamma cancer.
11. Hormonal therapy of mamma cancer.
12. Palliative treatment of mamma cancer.
13. Prophylaxis of mamma cancer.

Theme 7. Uterus cancer and cervix uteri cancer, ovary cancer.

Work content:

1. Structure and common characteristic of innocent tumors of female reproductive system.
2. Structure and common characteristic of malignant tumors of female reproductive system.
3. Cervix uteri cancer, epidemiology, morbidity and mortality.
4. Ethyology of cervix uteri cancer.
5. Kinds of cervix uteri cancer localization.
6. Precancer and background diseases of cervix uteri cancer.
7. Anatomical pathology of cervix uteri cancer.
8. Stadial classification of cervix uteri cancer.
9. TNM classification of cervix uteri cancer.
10. Diagnosis of cervix uteri cancer.
11. Screening of cervix uteri cancer.
12. Clinics of cervix uteri cancer.
13. Prinsiples of radical treatment of cervix uteri cancer.
14. Palliative treatment of cervix uteri cancer.
15. Innocent tumors of uterus.
16. Pathogenetic kinds of endometrium cancer.
17. Clinics of endometrium cancer.
18. Diagnosis of endometrium cancer.
19. Prinsiples of radical treatment of endometrium cancer.
20. Palliative treatment of endometrium cancer.
21. Ethyipathogenesis of ovary cancer. Role of inheritance in pathogenesis of ovary cancer.
22. Innocent tumors of ovaries.
23. Anatomical pathology of ovary cancer.
24. TNM classification of ovary cancer.
25. Clinics of ovary cancer.
26. Diagnosis of ovary cancer (USG, CT, laparoscopy, determination of tumor markers).
27. Prinsiples of radical treatment of ovary cancer.
28. Metastatic ovary cancer.
29. Is it possible, to use radical ways in treatment of desolate forms of ovary cancer?

Section 5. Lymphoproliferative diseases.

Theme 6. Hodgkin disease. Non-hodgkin lymphomas.

Work content:

1. Ethyopathogenesis of lymphoproliferetive diseases.
2. Clinical and morphological classification of Hodgkin disease.
3. Clinics of the disease. Features of the clinics according to affection of different lymphatic nodes groups.
4. Signs of intoxication.
5. Diagnosis of Hodgkin disease.
6. Diagnostic algoritm on suspicion of affection of internal lymphatic nodes groups.
7. Treatment of Hodgkin disease.
8. Morphological characteristic of non-Hodgkin lymphomas.
9. Clinical features of non-Hodgkin lymphomas according to morphological kind.
10. Differential diagnosis of lymphoprolyferative diseases.
11. Treatment of lymphoprolyferative diseases.
12. The sequelas of chemotherapy, methods of their prophylaxis.

Section 6. Oncourology.

Theme 9. Cancer of kidney, bladder, prostate.

Work content:

1. Classification of innocent and malignant kidney tumors.
2. Ethyopathogenesis of kidney cancer.
3. Clinics of kidney cancer.
4. TNM classification of kidney cancer.
5. Diagnosis of kidney cancer (USG, radiography, CT, MRI). Methods of early diagnostics.
6. Prinsiples of radical treatment of kidney cancer.
7. Palliative treatment of kidney cancer.
8. Innocent tumors of bladder.
9. Ethyopathogenesis of bladder cancer.
10. Stadial and TNM classification of bladder cancer.
11. Clinics of bladder cancer.
12. Diagnosis of bladder cancer (USG, endoscopic methods).
13. Prinsiples of radical treatment of bladder cancer.
14. Palliative treatment of bladder cancer.
15. Clinics, diagnosis and treatment of penis cancer.
16. Ethyopathogenesis of prostate cancer.
17. Diagnosis of prostate cancer. Methods of early diagnostics.
18. Clinics of prostate cancer.
19. Prinsiples of radical treatment of prostate cancer.
20. Palliative treatment of prostate cancer.

Section 7. Radiotherapy.

Theme 10. Kinds of ionizing radiation, and their sourses. Methods of radiotherapy. Radiosensitivity and radiomodification.

Work content:

1. Radiotherapy, stages of its development. Cooperation in radiotherapy.
2. The main units of dosimetry.
3. The place of radiotherapy in treatment of oncological parients.
4. Ionizing radiation, kinds of ionizing radiation.
5. Sourses of ionizing radiation.
6. Physical effect of ionizing radiation.
7. Biological effect of ionizing radiation.
8. Radiosensitivity.
9. Factors, which influence on system’s radiosensitivity.
10. Radiomodification, physicai and chemical factors.
11. Methods of radiotherapy: distant radiotherapy.
12. Contact radiotherapy, its using.
13. System radiotherapy, the main reasons for it.

Theme 11. Preradial phase. Radial phase. Postradial phase. The sequelas of radiotherapy and the main methods against them.

Work content:

1. Preradial phase: clinical topometry, theory, equipment, planning of radiotherapy.
2. Regims of dose’s fractionation.
3. Radial phase, its features.
4. Postradial phase: radial sequelas, classification, the main methods against them.