



| | | |
|---|----------|-----------------------|
|  | FORM | Index: Fo 04.01.01-02 |
| | SYNOPSIS | Edition: P |
| | | Date: 03.09.2013 г. |
| | | Page 1 of 2 |

ROENGENOLOGY

1. Roentgen rays. Physical parameters of the image. Imaging geometry
2. Radiophysics. Interactions radiation with matter and radioactivity.
3. Patient dose. Quantities and units of radiation dose.
4. Radiation biology. Radiation protection - Patient, Personnel.
5. Projection X-ray images: radiography, fluoroscopy and fluorography.
6. Conventional tomography. Computed tomography (CT).
7. Diagnostic ultrasound. Doppler sonography.
8. Magnetic resonance imaging (MRI).
9. Contrast media in the Radiology.
10. Musculoskeletal Radiology. Methods of examination.
11. Osseous system – normal anatomy.
12. Skeletal trauma. Physeal and epiphyseal injuries.
13. Musculoskeletal system – inflammatory disease.
14. Musculoskeletal system – degenerative disease.
15. Osseous system – tumors and tumor-like conditions. Metastases.
16. Chest Radiology. Method of examination.
17. The Normal Chest: Systematic Search.
18. Chronic bronchitis and emphysema.
19. Bronchiectasis and lung abscess.
20. Pneumonia and bronchopneumonia.
21. Pleural lesions.
22. Mediastinal lesions.
23. Diaphragmal lesions.
24. Pulmonary embolism. Pulmonary infraction.
25. Inhalation's disease – Silicosis.
26. Lung tuberculosis.
27. Pulmonary Neoplasm. Metastases.
28. Cardiovascular Radiology. Methods of examination.
29. The Heart. Normal Anatomic structures.
30. Mitral valve disease.
31. Aortic valvular disease.
32. Pericardial disease.
33. Gastrointestinal Radiology. Radiological technique for examination.
34. Gastrointestinal tract. Normal anatomy.
35. Method of examination the liver, biliary tract, pancreas and spleen.
36. Pathological conditions of the esophagus – motility disorders, esophagitis, diverticulosis, varices and esophageal carcinoma.
37. Gastric and Duodenal Ulcers.
38. Bowel Obstruction and Ileus.
39. Small Bowel Erosions and Ulceration.
40. Colon inflammatory Disease.
41. Colon Polyps and Colon Cancer.
42. Gallbladder Disease.
43. Liver Disease.
44. Pancreas Disease.
45. Spleen Disease.

| | | |
|---|----------|--|
|  | FORM | Index: Fo 04.01.01-02 |
| | SYNOPSIS | Edition: P Date: 03.09.2013 г. Page 2 of 2 |

46. Genitourinary Radiology. Imaging Methods.
47. Kidney and Urinary Tract. Normal anatomy.
48. Congenital anomalies of the Urinary Tract.
49. Acute and Chronic Pyelonephritis.
50. Calculi and Hydronephrosis.
51. Renal cell carcinoma.
52. The Bladder and Urethra Disease.

ПРЕПОРЪЧВАНА ЛИТЕРАТУРА:

1. G.Simon *"X-ray diagnosis for clinical student"*-1975
2. R.Daffner *"Clinical radiology .The Essentials."*
3. J.Sidhva Sorab *"A synopsis of radiology and imaging"*
4. D.Sutton *"Radiology and imaging for medical students"*1992