

Radiology

Comprehensive examination topics

1. Physical and chemical laws of X-ray image formation. Possibilities of displaying X-ray images
2. Physical bases and types of Doppler-UH examinations
3. Physical bases of CT imaging, spiral CT, CT angiography
4. Physical bases of MR imaging, sequences
5. Clinical application of MR spectroscopy
6. Possibilities, applications, indications of neuroradiological examinations
7. Radiological aspects of pulmonary diseases
8. Possibilities, indications of cardiological radiological examinations
9. Radiological examination methods of the digestive system, indications
10. Radiological aspects of the urinary and excretory system
11. Complex radiological examination of the breast
12. Radiological diagnostics in emergency care
13. Radiological examination of bones
14. Radiological diagnostics of joint diseases
15. Radiological aspects of endocrinological diseases
16. Possibilities, indications of pediatric radiological examinations
17. Digital radiography
18. Extravascular radiological interventions
19. Intravascular radiological interventions
20. Digital subtraction angiography and its clinical application

Suggested readings:

D.A. Torigian, P.: Ramchandani: Radiology Secrets Plus, Elsevier, 2017