

МЕДИЦИНСКИ УНИВЕРСИТЕТ – СОФИЯ

MEDICAL UNIVERSITY - SOFIA

МЕДИЦИНСКИ ФАКУЛТЕТ – КАТЕДРА ПО ОБРАЗНА ДИАГНОСТИКА FACULTY OF MEDICINE – DEPARTMENT OF DIAGNOSTIC IMAGING

Approved by:

Assoc. Prof. Dr D. Bulanov, MD, PhD Dean of Medical University Sofia

MEDICAL QUESTIONARY

DIAGNOSTIC IMAGING MEDICAL STUDENTS IV YEAR

- 1. X-ray image formation. Image characteristics
- 2. Digital imaging. Retrieval and archiving of images
- 3. Radiation protection of the staff and patients
- 4. Computed tomography principles. Applications
- 5. Ultrasound principles. Applications
- 6. Magnetic resonance imaging (MRI). Applications
- 7. Contrast media classification. Advantages and limitations
- 8. Interventional radiology
- 9. Lung imaging. Methods
- 10. Imaging anatomy of the respiratory system X-ray, CT and MRI
- 11. Basic pathology and imaging findings of the respiratory systems
- 12. Imaging of inflammatory lung diseases
- Pulmonary tuberculosis. Classification. Radiological appearance of primary and secondary pulmonary tuberculosis.
- 14. Tumors of the lung. Imaging and staging
- 15. Pulmonary embolism current concepts of imaging
- 16. Pleural diseases pneumothorax, inflammatory diseases, tumors.
- 17. Imaging of the mediastinum. Mediastinal tumors
- 18. Imaging of the heart, coronary arteries, great vessels and peripheral vessels.
- 19. Imaging anatomy of the cardio-vascular system
- 20. Imaging of the acquired and congenital valve diseases
- 21. Ischemic heart disease current concepts of imaging
- 22. Imaging of the pericardial diseases
- 23. Aortic diseases. Peripheral vessels diseases. Acute aortic syndrome
- 24. Imaging methods for digestive system
- 25. Imaging anatomy of esophagus and stomach
- 26. Esophageal lesions diverticula, stricture, tumors, varices
- 27. Imaging findings of the peptic ulcer disease
- 28. Carcinoma of the stomach. Staging
- 29. Imaging of the bowels. Colon carcinoma

- 30. Imaging of the liver. Focal and diffuse liver lesions
- 31. Imaging of the biliary tract. Gallstones
- 32. Imaging methods of the pancreas. Inflammatory diseases and tumors
- 33. Imaging of the "acute" abdomen.
- 34. Imaging of the urinary system and male reproductive system
- 35. Radiological anatomy of the urinary system. Variations and anomalies
- 36. Nephrolithiasis. Hydronephrosis
- 37. Renal cell carcinoma. Transitional cell carcinoma. Imaging and staging
- 38. Imaging in obstetrics and gynecology
- 39. Musculoskeletal imaging methods. Imaging anatomy
- 40. Imaging of the main bone pathology processes
- 41. Bone and joint trauma fracture, fissures, luxations and subluxations
- 42. Osteomyelitis acute, chronic. Atypical forms
- 43. Benign and malignant bone tumors
- 44. Degenerative and inflammatory disease of the joints
- 45. Avascular necrosis Perthes disease
- 46. Imaging methods for the central nervous system. Imaging anatomy
- 47. Benign and malignant brain tumors
- 48. Imaging of the ischemic stroke
- 49. Imaging of the intracranial hemorrhage
- 50. Imaging methods for demyelinating disease of the central nervous system
- 51. Imaging of degenerative disease of the spine
- 52. Breast imaging. Benign and malignant breast tumors
- 53. Maxillofacial imaging

Recommended books:

- Critical Observations in Radiology for Medical Students K. R. Birchard, K. R. Busireddy, et all, Wiley Blackwell, 2015
- 2. Chest X-rays for medical students Ch. Clarke, A.Dux; Wiley Blackwell, 2017
- 3. Abdominal X-rays for Medical Students Ch. Clarke, A.Dux; Wiley Blackwell, 2015
- 4. Essential Radiology R. B. Gunderman; Thieme, 2006
- 5. Imaging for students, D. A.Lisle, Hodder Arnold, 2012
- 6. Diagnostic imaging part I textbook Hr. Mihaylova, 2015

Head of Department of Diagnostic Imaging:

(Prof. Dr Dora Zlatareva, PhD)