

Pulmonology Exam Questions – ÁOK 4th year

I. Principles of diagnostic procedures in respiratory medicine

1. Anatomy of the pleura and the lungs, chest wall deformities
2. Physical examination of patients with respiratory diseases, pathological respiratory sounds
3. Radiological examinations of the lungs: indications and contraindications of plain chest X-rays and radioscopy, radiomorphology of lung diseases
4. Imaging modalities of thoracic organs: indications of HRCT, MRI and US in respiratory diseases
5. Indications of PET-CT in respiratory diseases. The clinical importance of ventilation-perfusion lung scintigraphy.
6. Endoscopic examinations and biopsy techniques in lung disease: indications and contraindications
7. Endoscopic examinations and biopsy techniques in pleural diseases: indications and contraindications
8. Principles of lung function tests, ventilation abnormalities. Diagnostics of lung diffusion impairment
9. Indications and contraindications of bronchodilator reversibility and bronchial provocation tests, interpretation of the results
10. Indications and contraindications of ergospirometry, interpretation of the results
11. The application of allergy tests in pulmonology, indications and contraindications
12. Diagnostics of obstructive sleep apnea
13. Indications of the arterial blood gas test, interpretation of the test results
14. Microbiological examinations in respiratory diseases, diagnostics for pulmonary TB

15. Diagnostic examinations and differential diagnosis of pleural effusion
16. Differential diagnosis of chronic cough, diagnostic examinations
17. Differential diagnosis of haemoptysis, diagnostic examinations
18. Differential diagnosis of acute dyspnoea, diagnostic examinations
19. Differential diagnosis of chronic dyspnoea, diagnostic examinations
20. Differential diagnosis of chest pain in respiratory diseases, diagnostic examinations

II. Clinical aspects of lung diseases I.

1. Pathogenesis, symptoms and inhalation devices for the therapy of COPD
2. Pharmacological and non-pharmacological treatment of stable COPD
3. Symptoms, diagnostics and treatment of COPD exacerbation
4. Pathogenesis, symptoms and inhalation devices for the therapy of bronchial asthma
5. Pharmacological and non-pharmacological treatment of stable asthma
6. Symptoms and treatment of asthma exacerbation (status asthmaticus)
7. Principles and indications of inhalation therapy: types and usage of inhalers, aspects of inhaler choice, and control steps for correct inhaler usage
8. Aetiology, symptoms, diagnostics and treatment of community-acquired pneumonia
9. Aetiology, symptoms, diagnostics and treatment of hospital-acquired pneumonia
10. Aetiology, symptoms, diagnostics and treatment of pulmonary abscess
11. Aetiology, symptoms, diagnostics and treatment of pleural empyema
12. Clinical course, symptoms and general principles of the treatment of pulmonary TB.
Clinical significance and diagnostic methods of latent TB infection
13. Treatment of pulmonary TB
14. Histological classification, prognosis and general principles of the treatment of primary lung cancer

15. Symptoms, diagnostics and cytostatic treatment of non-small cell lung cancer
16. Targeted therapies and immunotherapy of non-small cell lung cancer
17. Symptoms, diagnosis and treatment of small cell lung cancer
18. Symptoms, diagnosis and treatment of malignant pleural tumours
19. Symptoms, diagnosis and treatment of pneumothorax

III. Clinical aspects of lung diseases II.

1. Aetiological classification, symptoms and diagnosis of interstitial lung diseases
2. Symptoms, diagnosis and treatment of idiopathic pulmonary fibrosis
3. Symptoms, diagnosis and treatment of sarcoidosis
4. Aetiology, symptoms and treatment of respiratory failure
5. Aetiology, symptoms and treatment obstructive sleep apnoea
6. Pathogenesis, symptoms and diagnostic algorithm of acute pulmonary embolism
7. Clinical course, treatment and prognosis of acute pulmonary embolism
8. Aetiology, symptoms and treatment of pulmonary hypertension
9. Oxygen therapy in respiratory medicine: oxygen therapy devices, indications and contraindications
10. Aetiology, symptoms and treatment of pulmonary oedema
11. Definition, aetiology, symptoms and treatment of bronchiectasis. Cystic fibrosis
12. Rare respiratory diseases: alpha1-antitrypsin-deficiency-related emphysema, hypersensitivity pneumonitis, eosinophilic pulmonary diseases
13. General characteristics and therapeutic principles of pulmonary fungal infections
14. Aspergillus-related lung diseases
15. Indications and contraindications of lung transplantation, medical complications of post-transplant patients

16. Pulmonary diseases associated with immunocompromised conditions
17. Pulmonary manifestations of systemic autoimmune diseases (rheumatoid arthritis, scleroderma, SLE, CVID)
18. Principles, indications and contraindications of non-invasive ventilation in respiratory diseases
19. General medical principles for smoking cessation support and tobacco addiction treatment