

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश

स्वास्थ्य सेवा, मेडिसिन समूह, चेष्ट डिजिजेज उपसमूह, अधिकृत नवौं (९) तह, कन्सल्टेण्ट फिजिसियन पदको खुला र आन्तरिक प्रतियोगितात्मक परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

Pulmonology (Chest and Critical Care Medicine)

1. Pneumonia

- 1.1 Epidemiology
- 1.2 Causative agents
- 1.3 Signs and symptoms
- 1.4 Investigations and severity scoring
- 1.5 Management plan
- 1.6 Complications
- 1.7 Types of pneumonias
- 1.8 Community Acquired Pneumonia
- 1.9 Health Care Associated Pneumonia
- 1.10 Aspiration/ Ventilator Associated Pneumonia
- 1.11 Atypical pneumonia

2. Tuberculosis

- 2.1 Etiopathology
- 2.2 Pulmonary and Extra pulmonary TB
- 2.3 Clinical presentation
- 2.4 Investigations
- 2.5 Management/Treatment regimens
- 2.6 Resistance TB
- 2.7 Antitubercular drugs/side effects/management
- 2.8 National Tuberculosis Program in Nepal

3. Obstructive Airway Disease

- 3.1 Chronic Obstructive Pulmonary Disease
- 3.2 General principles, risk factors, signs and symptoms, investigations and management
- 3.3 Evaluation and management of acute exacerbation of COPD
- 3.4 Smoking Cessation
- 3.5 Pulmonary Rehabilitation

4. Bronchial Asthma

- 4.1 General principles, risk factors, signs and symptoms, investigations and management
- 4.2 Evaluation and management of acute severe asthma

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4.3 Allergic Bronchopulmonary Aspergillosis

5. Bronchiectasis

- 5.1 General principles, etiology, risk factors, signs and symptoms, investigations and management
- 5.2 Evaluation and management of Cystic Fibrosis
- 5.3 Central Airway Obstruction
 - 5.3.1 Causes and management - malignant and benign
- 5.4 Evaluation and management of Small airway disease

6. Interstitial Lung Diseases

- 6.1 General principles - classification, sign and symptoms, clinical and laboratory evaluation and management of interstitial pneumonias
- 6.2 Evaluation, classification and management of idiopathic interstitial pneumonias
- 6.3 Evaluation, classification and management of connective tissue disease associated ILD
- 6.4 Evaluation, classification and management of rare ILDs including cystic ILD's
- 6.5 Occupational lung diseases - Evaluation, classification and management

7. Malignant Diseases/ Lung Cancer

- 7.1 Lung Cancer - Types, signs and symptoms, investigations, staging, treatment modalities and Rehabilitation
- 7.2 Evaluation and management of Solitary Pulmonary Nodule
- 7.3 Other rare benign and malignant lung and airway tumors
- 7.4 Evaluation and management of secondaries in lung
- 7.5 Evaluation and management of mediastinal lesion – benign and malignant

8. Pleural diseases

- 8.1 Pleural Effusion/Empyema
- 8.2 Pneumothorax
- 8.3 Malignant pleural effusion
- 8.4 Pleural tumors – benign and malignant

9. Pulmonary Vascular Disorders

- 9.1 Evaluation and management of venous thromboembolism
- 9.2 Classification, evaluation and management of pulmonary hypertension
- 9.3 Evaluation and management of pulmonary vasculitis

10 Evaluation and Management of common respiratory symptoms

- 10.1 Cough
- 10.2 Breathlessness

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10.3 Hemoptysis

10.4 Chest pain

10.5 Stridor

11 Critical Care Medicine

11.1 Types of Respiratory Failure and its management

11.3 Cardiopulmonary Resuscitation

11.4 Endotracheal intubation

11.4 Invasive mechanical ventilation and management, including titration of FiO₂, PEEP, application and

11.5 adjustment of ventilator mode, weaning and extubation

11.6 ABG interpretation and Management

11.7 Noninvasive ventilation

12 Sleep Medicine

12.1 General principles - Normal Sleep physiology, stages, interpretation of polysomnography

12.2 Obstructive sleep Apnea - risk factors, comorbidities, evaluation and management

12.3 Obesity Hypoventilation Syndrome - evaluation and management

12.4 Sleep related movement disorders, Cheyne- stokes breathing, management of morbid obesity, Multiple sleep latency test.

13. Basic Science, Radiology and Pathology in Respiratory Diseases

13.1 Pulmonary physiology including principles and interpretation of pulmonary function tests

13.2 Ultrasonography for respiratory diseases

13.3 Principles and interpretation of Chest radiograph and CT scan

14. Pulmonary involvement in other systemic diseases

15. Intervention and diagnostic procedures in respiratory diseases

15.1 Bronchoscopy - indications, preparation and complications

15.2 Medical Thoracoscopy - indications, preparation and complications

16. ARDS and its management

17. Covid-19- signs, symptoms, Diagnosis and management

18. Approach to the patients with fever of unknown origin

19. Sarcoidosis

20. Recent Advances in Pulmonary Medicine