



Pulmonology

Pulmonology

Overview

Pulmonology is the branch of medicine that focuses on the study of diseases affecting the lungs. These conditions include infectious diseases, interstitial lung diseases, airway diseases, and lung cancer; vascular diseases such as pulmonary embolism; and diseases of the pleura such as pleural effusions and pneumothorax.

In this course, students will be introduced to the basics of each group of diseases. For optimal comprehension, they are expected to have a prior understanding of cardiovascular and pulmonary physiology and know the differences between eukaryotic and prokaryotic cells. Moreover, a basic understanding of the structure and general classification of bacteria and viruses, mechanisms of innate and adaptive immunity, and pathophysiology of malignancy would be helpful.

Acute pulmonary infections such as pneumonia and bronchitis are commonly encountered in the emergency room. Prompt diagnosis and management can considerably improve the prognosis.

Chronic diseases of the lungs, such as asthma and chronic obstructive pulmonary disease, continue to represent a considerable proportion of the total disease burden in the modern world, especially in western countries. These conditions require long-term follow-up. As patients tend to change their healthcare providers often, a competent physician should be able to understand basic disease characteristics to address patient needs and place them in the correct referral pathway (e.g., severe cases of asthma).

Topics

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Infections of the Respiratory Tract

- Respiratory Tract Infections: Introduction
- Respiratory Tract Infections: Classification
- Bronchitis
- Pneumonia: Overview
- Pneumonia: Classification
- Pneumonia: Signs and Symptoms
- Pneumonia: Diagnosis
- Pneumonia: Treatment
- Complications of Community Acquired Pneumonia
- Other Types of Pneumonia
- Bronchitis and Pneumonia: Summary
- Influenza Virus
- Subacute Lung Infections
- Tuberculosis: Epidemiology, Cause and Pathogenesis
- Tuberculosis Pathogenesis
- Clinical Manifestations and TB Case Histories
- Diagnosis of Tuberculosis
- Treatment of Tuberculosis
- Outcome of TB
- Tuberculosis: Summary

Coronavirus

- Coronaviridae: Overview
- Characteristics of COVID-19
- COVID-19: Transmission
- COVID-19: Basic Reproduction Number
- COVID-19: Case Fatality Rate (CFR) & Infection Fatality Rate (IFR)

- COVID-19: Epidemiology
- COVID-19: Pathogenesis
- COVID-19: Clinical Aspects
- COVID-19: Complications
- COVID-19: Diagnosis and Treatment
- COVID-19: Prevention
- COVID-19: Vaccines
- COVID-19: Efficacy, Effectiveness, and Side Effects of Vaccines
- COVID-19: Challenges and Prospects of Vaccine Development
- COVID-19: Clinical Case

Airway Diseases

- Asthma: Lower Airways Obstruction
- Asthma: Clinical History
- Asthma: Subtypes and Diagnosis
- Asthma: Treatment
- Asthma: Acute Exacerbations
- Asthma: Complications
- Chronic Obstructive Pulmonary Disease (COPD): Overview
- Chronic Obstructive Pulmonary Disease (COPD): Symptoms
- Chronic Obstructive Pulmonary Disease (COPD): Clinical Signs
- Chronic Obstructive Pulmonary Disease (COPD): Tests & Investigations
- Chronic Obstructive Pulmonary Disease (COPD): Treatment
- Chronic Obstructive Pulmonary Disease (COPD): Acute Exacerbation
- Chronic Obstructive Pulmonary Disease (COPD): Complications and Associations
- Chronic Obstructive Pulmonary Disease (COPD): Summary
- Large Airways Obstruction: Causes
- Large Airways Obstruction: Investigation and Treatment

- Bronchiectasis: Overview and Causes
- Bronchiectasis: Presentation and Clinical Signs
- Bronchiectasis: Diagnosis and Treatment
- Cystic Fibrosis and ABPA
- Hemoptysis and Major Hemoptysis: Definition and Treatment
- Other Airways Diseases: Summary

Interstitial Lung Disease (ILD)

- Interstitial Lung Disease (ILD): Overview
- Interstitial Lung Disease (ILD): Pathology
- Pulmonary Fibrosis
- Pulmonary Fibrosis: Signs and Investigation
- Pulmonary Fibrosis: Clinical Recognition and CT Scans
- Pulmonary Fibrosis: Invasive Tests and Treatment
- Hypersensitivity Pneumonitis
- Pneumoconiosis
- Sarcoidosis
- Sarcoidosis: Extrapulmonary Manifestations
- Sarcoidosis: Histological Confirmation

Lung Cancer

- Lung Cancer and Tumors: Overview
- Lung Cancer and Tumors: Pathogenesis
- Lung Cancer and Tumors: Presentation
- Local Invasion and Metastases
- Distal Metastases
- Paraneoplastic Syndromes
- Differential Diagnosis of Suspected Lung Cancer
- Investigation of Suspected Lung Cancer

- Lung Cancer and Tumors
- Lung Cancer Staging (TNM)
- Treatment: Curable and Incurable NSCLC
- Treatment: SCLC
- Mesothelioma: Presentation and Management
- Less Common Lung Tumors
- Lung Cancer and Tumors: Summary

Pulmonary Vascular Disease

- Pulmonary Vascular Disease: Introduction
- Pulmonary Emboli
- Diagnosis of Acute PE
- Treatment of PE
- Pulmonary Hypertension
- Chronic PE (Primary Pulmonary Hypertension)
- Treatment of Pulmonary Hypertension
- Cor Pulmonale
- Pulmonary Vasculitis

Pleural Disease

- Pleural Disease: Introduction
- Transudates vs. Exudates
- Unilateral Pleural Effusions
- Pleural Tap
- Pleural Biopsy
- Pneumothorax
- Tension Pneumothorax
- Empyema

- Pleural Thickening
- Asbestos Exposure and Pleural Disease

Other Respiratory Disorders

- Disorders of Respiratory Physiology
- Acute Respiratory Distress Syndrome
- Patterns of Acid-base Disorders
- Treatment of Type 2 Respiratory Failure
- Obstructive Sleep Apnea
- Obesity Hypoventilation Syndrome
- Chest Wall and Muscle Disease

Pediatric Pulmonology

- Pediatric (Childhood) Asthma: Pathology, Signs & Symptoms
- Pediatric (Childhood) Asthma: Clinical Presentation
- Pediatric (Childhood) Asthma: Diagnosis & Treatment
- Pediatric Asthma: Management
- Bronchiolitis: Causes and Risks
- Bronchiolitis: Diagnosis
- Bronchiolitis: Clinical Presentation & Management
- Cystic Fibrosis (CF): Pathology
- Cystic Fibrosis (CF): Clinical Presentation, Signs & Symptoms
- Cystic Fibrosis (CF): Diagnosis & Management
- Chronic Lung Disease of Prematurity (Bronchopulmonary Dysplasia – BPD)
- Surfactant Deficiency
- Pulmonary Hypoplasia

- Diaphragmatic Hernia and Congenital Cystic Adenomatoid Malformation (CCAM)
- Pediatric Pulmonary Embolism (PE)
- Allergic Bronchopulmonary Aspergillosis (ABPA)
- Ciliary Dyskinesia
- Alpha-1 Antitrypsin Deficiency
- Pediatric Pneumothorax



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Why Mediversal?

	Mediversal	Competitor
CPD hours/ Credit	✔ 110 hours/Credit	⚠ 3—50 hours/Credit
NMC Guideline	✔ Advantages in accordance with provision 1.4.2 of NMC regulations	⚠ Not all. (Very few)
Renowned International faculties	✔ Yes	⚠ Only for few subjects
Faculty to learner ratio	✔ 1:10	✔ 1:50 or 1:75
Case based learning	✔ Yes	✘ No
AI supported learning	✔ Yes	✘ No
Live Interaction Sessions	✔ Yes	✘ No
Clinical Attachments	✔ Yes (Case to Case basis)	✔ Yes
Associated with Hospitals for Clinical Training	✔ Yes	✔ Yes
Books	✔ Yes (Printable Pdf copy)	✘ No
Complementary e-Learning Module & Certification	✔ Yes	✘ No
Learner Support	✔ Yes	✘ No
Community of Doctors for peer support (Mediversal Alumni only)	✔ Yes	✘ No
Alumni Support	✔ Yes	⚠ Only a few
e-Certification	✔ Yes	✔ Yes
Physical Certification	✔ Yes	⚠ Only a few
Lifetime certificate validity	✔ Yes	✔ Yes
Digital Marketing and Business Support for your hospital/clinic	✔ Yes	✘ No
Admission process	✔ Smooth, Transparent & all details provided	⚠ Spamming through multiple channels.
Data and privacy protection	✔ Yes	✘ No
CME access	✔ Yes (Lifetime)	✘ No
Medico Legal Session	✔ Yes (Free. By renowned high court advocates)	✘ No
National Level Felicitation Award (for Mediversal Alumni)	✔ Yes	✘ No



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