

KHYBER PAKHTUNKHWA MEDICAL FACULTY PESHAWAR

CURRICULUM

2nd, 3rd, & 4th Semester

DIPLOMA COURSE

PULMONOLOGY TECHNOLOGY



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2nd Semester

Paper A Chest PHYSIOLOGY

Paper B chest Anatomy

PHYSIOLOGY

- Lung volumes and capacities
- Mechanics of Breathing
- Compliance of the lung
- Surface tension of alveoli and surfactant
- Gas exchange
- O₂ transport
- CO₂ transport
- Pulmonary circulation
- Ventilation perfusion defects
- Control of breathing

ANATOMY

- Mediastinum
 - Anatomical Classification
 - Contents
- Pleura
 - Visceral
 - Parietal
- Trachea Bronchial Tree
- Lungs

- Heart
- Diaphragm

MISCELLANIOUS PROCEDURE ROOM WARD WORK

- Record Keeping
- Proper labeling and arrangement of lab reports and x-rays
- Intake output charts
- Tube care and daily out record
- Follow up of pleurodesis/streptokinase
- Peak flow
- Use of pulse oxymeter

3rd Semester

Paper A Chest Pharmacology

Paper B Chest Pathology

PHARMACOLOGY

- Sedatives
- H-2 Blockers
- Antibiotics
 - Pencillins
 - Macrolides
 - Sulphonamides
 - Aminoglycosides
 - Quinolones
 - Cephalosporins
- Antihypertensive
- Bronchodilators
 - Acrosols/Nebulizers
- Steroids
- A.T.T
- Local Anaesthetics

PATHOLOGY

- Pneumonias
- Lung abscess
- Asthma
- Bronchicetasis

- Tuberculosis
- C.O.P.D
- Chronic bronchitis
- Emphysema
- Lung tumors
- Pleural effusion
- Pulmonary embolism
- Interstitial lung disease

MISCELLANIOUS PROCEDURE ROOM WARD WORK

- Pleural aspiration
- Pleural biopsy
- Intubation
- Post intubation care
- Specimen collection
 - Proper collection
 - Proper Transportation

4th Semester MEDICINE

Paper A chest Medicine –I **Paper B Chest Medicine-I**

- P.F.T (Plethysmography)
- Respiratory Failure
- C.O.P.D
 - Chronic bronchitis
 - Emphysema
- Bronchial Asthma
- Management of status Asthmaticus
- Bronchiectasis
- Pneumonia
 - Community acquired pneumonia
 - Pneumococcal Pneumonia
 - Mycoplasma Pneumonia
 - Legionella Pneumonia
 - Nosocomial Pneumonia
 - Aspiration Pneumonia
- Lung Abscess
- Tuberculosis
- Interstitial lung disease
- Sarcoidosis
- Bronchial carcinoma
- Pleurisy
- Pleural effusion
- Pneumothorax

- Pulmonary embolism
- Sleep Apnoea
- Arterial blood gases