

Course Title: PULMONOLOGY TECHNIQUES-I AND CLINICAL PRACTICE

Study Hours: 60+160

Paper : 1

Term : 3rd

Marks

Theory: 120

Practical: 30

Time: 3Hrs

Course contents

STUDY HOURS

(THEORY+PRACTICAL)

A. SPECIAL ANATOMY (Brief Review of Anatomy of Respiratory system) 40+40

A1. Mediastinum

A1.1 Anatomical classification

A1.2 Contents

A2. Pleura

A2.1 Visceral

A2.2 Parietal

A3. Trachea

A3.1 Bronchial tree

A4. Lungs

A5. Heart

A6. Diaphragm

A7. Esophagus

A8. Stomach

A9. Intestines

B. PHARMACOLOGY RELATED TO PULMONOLOGY (Brief Introduction)

20+40

B1. Sedatives

B2. H₂-Blockers

B3. Antibiotics

B3.1 Penicillin

B3.2 Macrolides

B3.3 Sulphonamides

B3.4 Aminoglycosides

B3.5 Cephalosporin

B3.6 Quinolones

B3.7 New respiratory quinolones

B4. Antihypertensive

B5. Bronchodilators

C5.1 Aerosols/Nebulizers

C. *PRACITCAL*

MISCELLANEOUS, ROOM PROCEDURES & WARD WORK

- C1. Receiving of PatientD
- C2. History Taking
- C3. Routine Investigation
- C4. Preparation for Procedure
- C5. General ward duty
- C6. Record keepingD
- C7. Proper labeling & arrangement of lab. Reports and x-rays
- C8. Intake, output charts
- C9. Tube care and daily input, out putrecor
- C10. Streptokinase instillation
- C11. Pleurodesis
- C12. Follow up of pleurodesis/streptokinase
- C13. Therapeutic aspiration

RECOMMENDED BOOKS:

1. Robbins Pathology by E Saunderm
2. Pulmonary Disease in the Elderly Patient by Donold A Mahler
3. Radiologic Diagnosis of Chest Disease by Miriam Sperber
4. Egans Fundamentals of Respiratory Care by Robert E. St. John

REFERENCE BOOKS:

1. Principles of Medicine by Davidson by Haslet Chelvern
2. Differential Diagnosis of Diseases of the Chest Robert G. Fraser.

Course Title: PULMONOLOGY TECHNIQUES-II AND CLINICAL PRACTICE

Study Hours: 60+160

Paper : 2

Term : 3rd

Marks

Theory: 120

Practical: 30

Time: 3Hrs

Course contents

STUDY HOURS

A. SPECIAL PHYSIOLOGY (Brief Review of Physiology of Respiratory system)

40+40

- A1. Lung volumes & Capacities
- A2. Mechanics of Breathing
- A3. Compliance of the lung
- A4. Surface tension of alveoli & Surfactant
- A5. Gas exchange
- A6. Oxygen transport
- A7. Carbon dioxide transport
- A8. Pulmonary circulation
- A9. Ventilation Perfusion defects
- A10. Control of Breathing
- A11. Plethysmography

B. PHARMACOLOGY RELATED TO PULMONOLOGY

20+40

- B6. Steroids
- B7. Anti TB drugs
- C7.1 First line drugs
- C7.2 Second line drugs
- B8. Local anesthetics
- B9. General anesthetics
- B10. Anti-diabetic drugs

C. *PRACITCAL*

MISCELLANEOUS, ROOM PROCEDURES & WARD WORK

80

- C1. Receiving of PatientD
- C2. History Taking
- C3. Routine Investigation
- C4. Preparation for Procedure
- C5. General ward duty
- C6. Record keepingD
- C7. Proper labeling & arrangement of lab. Reports and x-rays

- C8. Intake, output charts
- C9. Tube care and daily input, output
- C10. Streptokinase instillation
- C11. Pleurodesis
- C12. Follow up of pleurodesis/streptokinase
- C13. Therapeutic aspiration

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