## **Pulmonary Rehabilitation**

## **Final Exam Topics:**

- 1. Physiology of breathing, Biomechanics of breathin;
- 2. Methods to measure breathing patterns;
- 3. Respiratory rehabilitation definition, goals and objectives;
- 4. Risk factors of respiratory diseases, risk stratification;
- 5. Acute and chronic obstructive and restrictive diseases; Breathing patterns;
- 6. Cardio-vascular and pulmonary preferred practical patterns;
- 7. Diagnosis and Functional tests for respiratory system; Spirometry
- 8. 6-minute walking test;
- 9. Pulmonary pathology. Chronic Obstructive Pulmonary Disease;
- 10. Baseline Dyspnea Index (BDI),
- 1. Emphysema, Chronic bronchitis, Asthma
- 2. Cystic fibrosis; Bronchiectasis;
- 3. Idiopathic pulmonary fibrosis;
- 4. Assessment of outcomes of respiratory diseases;
- 5. Main principles of respiratory rehabilitation;
- 6. Indications for respiratory rehabilitation;
- 7. Contraindications for respiratory rehabilitation;
- 8. Elaboration of respiratory rehabilitation program;
- 9. Evaluation of patient with respiratory disease;
- 10. Exercise stress testing, exercise and activity tolerance;
- 11. Evaluation of hypoxemia level during physical exercise;
- 12. Assessment of ventilatory, upper and lower extremities muscle strength;
- 13. Assessment of ability to perform activities of daily living, cognitive function and degree of depression;
- 14. Physical exercise selection and prescription;
- 15. Supervised and independent exercises, exercise aids;
- 16. Specific exercise limitations in chronic obstructive pulmonary disease;
- 17. Multidisciplinary approach to respiratory rehabilitation;
- 18. Ventilatory therapy: airway management, breathing training strategies, energy conservation and work simplification techniques;
- 19. Breathing techniques diaphragmatic breathing, pursed-lip breathing, forward-bending exercises;

- 20. Chest physical therapy postural drainage, chest percussion, and vibration;
- 21. Ventilatory muscle strength and endurance training;
- 22. Specificity of outcome assessment in respiratory rehabilitation;
- 23. Education of the patient regarding the disease, self-management skills
- **24.** Oxygen therapy; artificial ventilation, assisted respiration.
- 25. Current approach to rehabilitation management of patients with chronic cardio-pulmonary failure.