

APPENDICES

Appendix 1: Pre-test/post-test questionnaire.

Assessment on pulmonary function tests (PFT)

Name of the student:

Roll no: Batch:

- Which of the following can be measured by nitrogen washout method?
 - Anatomical dead space
 - Residual volume
 - Closing volume
 - Physiological dead space
- Spirometry cannot determine
 - Tidal volume (TV)
 - Vital capacity (VC)
 - Inspiratory capacity (IC)
 - Total lung capacity (TLC)
- Calculate the alveolar ventilation per minute if respiratory rate is 14/min, Tidal volume is 500 mL with a vital capacity of 7 litres.
 - 4.9 litres
 - 2 litres
 - 7 litres
 - 7.7 litres
- Which of the following is equal to the relaxation volume of lung?
 - Expiratory reserve volume
 - Vital Capacity
 - Closing volume
 - Functional residual capacity
- The most sensitive index of small airway resistance in a patient with bronchial asthma is
 - VC
 - FEV1
 - PEFR
 - MMEFR
- Regarding PFT, all are true except
 - Compliance is decreased in interstitial lung disease
 - Airway resistance is increased in asthma.
 - FEV1 is forced expiratory rate at 1 min
 - Diffusion capacity is reduced in Interstitial lung disease.
- Measurement of physiological dead space is done by
 - Nitrogen washout method
 - Bohr equation
 - Alveolar gas equation
 - Single breath Nitrogen method
- A 60-years-old male patient gives a history of smoking for last 30 years complaining of recurrent cough with expectoration and respiratory distress. On inspection he had a barrel shaped chest, clubbing and on auscultation rhonchi and crepitations were heard over the lungs. Pulmonary function tests will show all except
 - Decreased FEV1/FVC ratio
 - Increased residual volume
 - Decreased total lung capacity
 - Decreased transfer factor (Kco)
- A 6-years-boy having a history of urticaria presented with recurrent episodes of shortness of breath accompanied by cough and wheeze. PFT shows FEV1/FVC ratio <50%, FVC slightly decreased, Total lung capacity normal, DLCO normal. FEV1/FVC ratio shows improvement on the administration of bronchodilator. What is your probable diagnosis?
 - Asthma
 - Emphysema
 - Interstitial lung diseases
 - Pulmonary vascular disorder
- A coal miner aged 50 years complaining of shortness of breath accompanied by dry cough, chest discomfort and fatigue. PFT shows FEV1/FVC ratio >90%, FVC decreased, total lung capacity decreased and DLCO decreased. What is your probable diagnosis?
 - COPD
 - Interstitial lung diseases
 - Pulmonary vascular disorder
 - Myasthenia gravis

Appendix 2: Pre/post course survey on pulmonary function test (PFT) elective module.**Roll No of the Student:**

Self-assessment of Perceived Confidence in Knowledge of Course Material

Please rate the following statements on a 5-point scale

(1 = strongly disagree, 2 = disagree, 3 = neutral, 4 = agree, 5 = strongly agree)

Questions	Score
1. I am aware of the different kinds of PFT.	
2. I understand the importance of PFT as diagnostic tool in patients with respiratory disorder.	
3. I have knowledge about definitions and normal values of the different parameters used in PFT.	
4. I am aware of the indications of PFT.	
5. I am aware of the contraindications of PFT.	
6. I have a clear idea about the different types of respiratory diseases.	
7. I am able to differentiate between obstructive and restrictive lung diseases.	
8. I know the precautions to be taken during PFT.	
9. I feel confident in performing PFT on patients.	
10. I am able to interpret the results of PFT.	

Appendix 3**I. Perception of student on pulmonary function test (PFT) elective module.**

Please put a tick mark (✓) in the appropriate box

Questions	Strongly agree	Agree	Neutral	Disagree	Strongly disagree
1. Whether objectives of PFT elective module are clearly stated?					
2. Whether content of PFT module adequate?					
3. Whether procedure of PFT was explained properly?					
4. Whether teaching and demonstration requires any improvement?					
5. Whether adequate time was given for practical session?					
6. Whether proper infrastructure was available?					
7. Whether the module enhanced my knowledge and skill?					
8. Whether I am satisfied with the choice of PFT as elective module?					
9. Whether PFT module motivates me to do further medical research on PFT?					
10. Would I recommend other students to take PFT as elective module?					

II. Your opinion/suggestions/recommendations about PFT Elective module

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.