

MCQS

• A 73 year-old man presents with progressive dyspnea on exertion over the past one year. He reports a dry cough but no wheezes. He is a non-smoker. His pulmonary function testing is as follows: Which one of the followings is a WRONG diagnosis?

diagnosis?

Pre-Bronchodilator (BD)			
Test	Actual	Predicted	% Predicted
FVC(L)	1.57	4.46	35
FEV, (L)	1.28	3.39	38
FEV,/FVC (%)	82	76	
FRC	1.73	3.80	45
RV(L)	1.12	2.59	43
TLC(L) 2.70		6.45	42

Select one:

- a. kyphoscoliosis
- b. Idiopathic pulmonary fibrosis
- c. Pulmonary infarction
- d. Sarcoidosis
- e. Asbestosis
- Which is not a feature of asbestosis?
- a. Increased risk of cancer
- b. Pleural thickening and effusion
- c. Interstitial fibrosis
- d. Obstructive pattern on pulmonary function tests
- e. Pleural fibrosis
- Which of the following pulmonary function tests most reliably discriminates "pure" chronic bronchitis from emphysema?
- a. Total lung capacity
- b. Functional residual capacity
- c. Residual volume
- d. Single breath diffusing capacity
- e. Flow at 50% vital capacity
- All the following are causes of low Total gas transfer (TLCO) in respiratory function test Except.
- a- pulmonary fibrosis
- b- pulmonary oedema
- c-emphysema
- d-pulmonary emboli
- e- asthma*****

- In interstitial lung diseases, lung function tests most often show:
- a. Reduced FEV1 and VC xxx
- b. Increased total lung capacity (TLC)
- c. Airflow obstruction
- d. Elevated arterial PCO2.

• Which one of the following pulmonary function values indicates airflow limitation :

a-FEV1 of 60% of predicted .

b-FVC of 60% of predicted .

c-FEV1/FVC of 60% of predicted .

d-DLCO of 60% of predicted .

e- Residual volume of 60% of predicted .

Answer: C. FEV1/FVC of 60%. Total lung capacity (TLC) is used to assess interstitial lung disease. Expiratory flow rate (FEV1/ FVC is used to assess obstructinve lung disease. Airway obstruction is diagnosed when the FEV1/FVC is <0.7 (70%0). (Source: MedStudy Pulmonology 2013, p. 6)

- man with spondylosis, ratio of fev1\fvc is 95% what is the diagnosis? Restrictive lung disease
- In patients with idiopathic pulmonary fibrosis (usual interstitial pneumonia) all of the followings are expected patho physiological changes EXCEPT :
- a. Low DLCO .
- b. Decreased FEV1/FVC .
- c. Severe O2 desaturation on exercise.
- d. Reduced vital capacity and total lung capacity .
- e. Increased pulmonary artery pressure

Answer: B (increased FEV1/FVC ratio).

Mini-OSCE

Q10 - What test best investigates this finding initially?

a. PFT's

- b. ABG's
- c. Bronchoscpy with biopsy
- d. High resolution CT
- e. sputum cultures



Q13) Smoking patient for long time ABGs result : Respiratory acidosis (from Table)

What is presentation of patient in PFTs is wronge?

a) FEV1/FVC≥70%
b) FVC1 changes less than 12%
c) FEV1/FVC ≤ 70%
d) Irreversible condition

نص السؤال غير دقيق ولكن معطيات السؤال ونتائج الـ ABGs كانت تدل على إنه مريض COPD و irreversible changes