



Scientific team

Pathology Quiz

1. A 65-year-old male patient who had worked in sandblasting for more than 30 years presented with progressive shortness of breath. Radiography revealed the presence of nodularity and fibrosis in the lung's upper lobes in addition to eggshell calcification in his lymph nodes. He deteriorated and underwent lung transplantation. Grossly, his lungs showed fibrosis, mainly in the upper lobes. What are the histological findings expected to be present in his lung?

- A. Usual interstitial pneumonia pattern of fibrosis
- B. Widespread macules of carbon laden macrophages and fibrosis
- C. Whorled concentrically arranged hyalinized collagen fibers
- D. Diffuse granulomatous reaction
- E. Interstitial fibrosis with asbestos bodies

Answer: C

2. One of the following best describes sarcoidosis:

- A. May present as skin lesions
- B. Occurs more in nonsmokers
- C. Shows noncaseating granulomas with a lymphangitic distribution
- D. Hypercalcemia is a common feature
- E. All of the above are true

Answer: E

3. A 50-year-old farmer patient, presented complaining of dyspnea and coughing. Pulmonary function tests showed restrictive results. A chest CT scan revealed the presence of bronchiolocentric nodularity. What are the histological findings expected to be seen in his lung?

- A. Bronchiolocentric interstitial pneumonitis and granulomas
- B. Eosinophils rich intraalveolar infiltrates
- C. Intraalveolar accumulation of macrophages containing brown pigments
- D. Non-caseating granulomas with a lymphangitic distribution
- E. Widespread necrotizing granulomatous inflammation

Answer: A



Scientific team

4. Select the correct statement regarding Idiopathic pulmonary fibrosis (usual interstitial pneumonia):

- A. The fibrosis is predominantly away from the pleura
- B. Histologically it shows patchy interstitial fibrosis with spatial and temporal heterogeneity
- C. Usually occurs in patients younger than 50 years
- D. The fibrosis is upper lobe predominant
- E. All of the above statements are true

Answer: B

5. Which one of the following statements best describes hypersensitivity pneumonitis?

- A. Characterized histologically by the presence of intraalveolar smoker's macrophages
- B. Characterized histologically by the presence of bronchiolocentric interstitial pneumonitis and granulomas
- C. It is caused mainly by smoking
- D. It is mediated through type I hypersensitivity reaction
- E. The bronchi and trachea are the sites of the immune-mediated injury

Answer: B

6. One of the following about pneumoconiosis is True:

- A. Coal-worker pneumoconiosis is more heavily distributed in the lower lobes
- B. Asbestosis begins in the upper lobes
- C. Asbestosis is characterized histologically by the presence of whorled hyalinized collagen fibers
- D. Asbestos is associated with an increased risk for lung cancer, pleural malignancy and extrapulmonary malignancy
- E. Asbestos does not increase the risk for extrapulmonary cancer

Answer: D