

QUESTION
A 65-year-old male patient with a long history of hypertension and hyperlipidemia presents to the clinic with a 2-week history of increasing fatigue, weight loss, and intermittent fevers. He reports a recent episode of coughing up blood. Physical examination reveals a 1.5 cm x 1.5 cm nodule in the right lung base. Laboratory studies show hemoglobin 10 g/dL, hematocrit 30%, and erythrocyte sedimentation rate 45 mm/h. A chest CT scan shows a 2 cm nodule in the right lower lobe. What is the most likely diagnosis?

- A. Lung cancer
- B. Tuberculosis
- C. Fungal infection
- D. Bacterial pneumonia
- E. Hemorrhagic stroke
- F. Systemic lupus erythematosus
- G. Multiple myeloma
- H. Metastatic disease
- I. Pulmonary embolism
- J. Aortic aneurysm

ANSWER
A. Lung cancer

EXPLANATION

The patient's symptoms and physical findings are consistent with a primary lung malignancy. The presence of a 2 cm nodule in the right lower lobe, along with hemoptysis and constitutional symptoms (weight loss, fatigue, fevers), strongly suggests lung cancer. The patient's history of hypertension and hyperlipidemia does not point towards a systemic disease like lupus or multiple myeloma. Tuberculosis and fungal infections are also possible, but the patient's age and risk factors make lung cancer the most likely diagnosis.

QUESTION
A 45-year-old male patient with a long history of hypertension and hyperlipidemia presents to the clinic with a 2-week history of increasing fatigue, weight loss, and intermittent fevers. He reports a recent episode of coughing up blood. Physical examination reveals a 1.5 cm x 1.5 cm nodule in the right lung base. Laboratory studies show hemoglobin 10 g/dL, hematocrit 30%, and erythrocyte sedimentation rate 45 mm/h. A chest CT scan shows a 2 cm nodule in the right lower lobe. What is the most likely diagnosis?

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- D. Bacterial pneumonia
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- F. Systemic lupus erythematosus
- G. Multiple myeloma
- H. Metastatic disease
- I. Pulmonary embolism
- J. Aortic aneurysm

ANSWER
A. Lung cancer

EXPLANATION

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- F. Systemic lupus erythematosus
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ANSWER
A. Lung cancer

EXPLANATION