

Picture Quiz: Question

A traveller with haemoptysis

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Case report

A 22 year old woman was admitted to hospital after coughing up approximately 500ml of fresh blood. She was a lifelong non-smoker with no significant prior respiratory history; however she described coughing up a small quantity of fresh blood on one occasion during the previous year. She had also been diagnosed with chronic idiopathic urticaria one year earlier. She was UK born of mixed Caucasian / Phillipino origin and had travelled extensively around the Philippines, Dubai, USA, Cyprus, Maldives and Egypt over recent years. Examination revealed a blood pressure of 100/65mmHg, HR 100bpm, oxygen saturations of 95% on air and respiratory rate of 18 / min. Her lung fields were clear and there was no evidence of deep

vein thrombosis. Initial blood tests, including liver enzymes, were normal except for a CRP of 90. The peripheral eosinophil count was $0.35 \times 10^9/l$. A chest radiograph and thoracic / abdominal CT were undertaken (see Figures 1-3).

Questions

1. What abnormalities are shown on the chest x-ray and CT scans?
2. What is the differential diagnosis for a young patient presenting with large volume haemoptysis and how should it be managed?
3. What is the likely cause of the symptoms and imaging findings?

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Figure 1. Chest X-ray.



Figure 2. Upper Thoracic CT image.



Figure 3. Upper abdominal CT image.