A case of severe, unexplained breathlessness

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Answers on p 665.

A 58 year old man presented with progressive dyspnoea on walking over several weeks. On lying down, he became more dyspnoeic; sitting up brought immediate relief. A few days later he noted severe discomfort over the lateral aspect of his right arm and shoulder associated with numbness, followed by weakness when attempting to raise the arm. He was a builder, and had previously been exposed to asbestos, but was a non-smoker. There was no previous medical history of note.

On examination there was no cyanosis, peripheral oedema, clubbing, or lymphadenopathy. The jugular venous pressure was not elevated; pulse was 87 beats/min, with normal heart sounds. His blood pressure was 143/66 mm Hg. He was unable to lie flat due to breathlessness, but in the sitting position was in little distress, with a respiratory rate of 15 breaths/min. Auscultation of the chest showed raised hemidiaphragms, peripheral oedema, clubbing, or lymphadenopathy. The jugular venous pressure was not elevated; pulse was 87 beats/min, with normal heart sounds. His blood pressure was 143/66 mm Hg. He was unable to lie flat due to breathlessness, but in the sitting position was in little distress, with a respiratory rate of 15 breaths/min. Auscultation of the chest revealed bilateral prominent pulmonary arteries and small lung fields. Arterial blood gases revealed a pH of 7.40, oxygen pressure of 8.70 kPa, and carbon dioxide pressure of 4.59 kPa. Lung function tests demonstrated forced expiratory volume in one second (FEV₁) 1.23 litres and forced vital capacity (FVC) 1.58 litres (sitting), FEV₁ 0.45 litres and FVC 0.49 litres (lying). A ventilation-perfusion scan, electrocardiogram, and echocardiography were normal. A spiral computed tomogram of the chest showed raised hemidiaphragms and no intrathoracic mass. A tension test was negative.

QUESTIONS

(1) What is the mechanism of this patient’s breathlessness and how would you confirm this?

(2) What is the likely clinical diagnosis. How would you try to establish this?

(3) What is the treatment and prognosis for this patient?

An unusual case of relapsing Graves’ disease

H N Buch, H Kumar, T E T West

Answers on p 666.

In August 1993, a 42 year old woman presented for definitive treatment of hyperthyroidism secondary to Graves’ disease. In 1970 she had undergone subtotal thyroidectomy for the first episode of hyperthyroidism but after a recurrence in 1977, she had been started on long term carbimazole treatment. On presentation, the patient had a moderate sized goitre and signs of mild, inactive ophthalmopathy. She was euthyroid on 5 mg of carbimazole, which was withdrawn for seven days and a standard radioactive iodine (RAI) dose of 550 MBq was administered. Carbimazole was not restarted after RAI as per the policy of the department. Seven days after RAI, the patient had to be hospitalised with complaints of palpitation, marked anxiety, agitation and profuse perspiration, a regular tachycardia of 130 beats/min, blood pressure of 150/60 mm Hg, and
pyrexia of 39°C. White cell count was normal, blood and urine cultures were negative, and chest radiography was normal. Thyroid function test result showed a free thyroxine concentration of 90 pmol/l (normal range 10–22 pmol/l), free triiodothyronine 32 pmol/l (2.5–5.5 pmol/l), and thyroid stimulating hormone <0.01 (0.5–4.0 mU/l).

**QUESTIONS**

1. What is the diagnosis and how frequently is this condition encountered?
2. What is the mechanism and what are the criteria for diagnosis of this condition?
3. How is this condition managed and how can one prevent it?

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