Pleural effusions and yellow nails of late onset

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Case report

In 1962, at the age of 78, a lady was referred to the dermatological out-patients with discoloured finger nails which had been present for the preceding 6 months. The condition has persisted since then, with the principal abnormalities affecting the index fingers. The nails of these fingers showed yellowish-green discoloration, transverse ridging and excessive side-to-side curvature. The other finger nails were affected to a lesser extent. At that time, she was otherwise well, apart from oedema of both ankles which had been present since childhood.

Subsequently, she had several admissions to hospital with episodes of acute bronchitis and broncho-pneumonia. In 1968, she was admitted with bronchitis and was found to have bilateral pleural effusions. These were drained and did not immediately recur. Two years later, however, she was readmitted with shortness of breath and found to have developed further effusions which also appeared to have followed an episode of bronchitis. No other cause for the effusions was found and they were again successfully treated by aspiration. In November 1971, she was again admitted with progressive dyspnoea, associated with a fortnight’s cough and the expectoration of greenish sputum.

On examination, she was an alert 87-year-old, dyspnoeic at rest but not cyanosed. She was not clinically anaemic and there was no evidence of a skin rash, nor of an arthritis. The nail changes already described were again noted. Clubbing was not present. Her pulse was regular, 74/min, BP 140/80 mmHg. The ankle oedema noted previously was present but there was no other evidence of congestive heart failure. The JVP was not raised and there was neither hepatomegaly nor ascites. The apex beat was not palpable. The heart sounds were normal. There was evidence of large bilateral pleural effusions. The rest of the findings on examination were normal for a woman of her age.

Investigation

Hb 14.3 g/100 ml; WBC 5900/mm³; ESR 30 mm/1 hr; blood urea 34 mg/100 ml with normal electrolytes. There was no proteinuria. Plasma proteins 6.9 g/100 ml; albumin 4.4 g/100 ml; globulin 2.5 g/100 ml. The anti-nuclear factor (ANF) test was negative and her protein-bound iodine was normal at 6.2 μg/100 ml. The ECG showed sinus rhythm with occasional ventricular ectopic beats with complexes of low voltage. The chest X-ray after aspiration showed no evidence of an underlying lung lesion, though the heart size was slightly increased.

Gynaecological examination excluded an ovarian lesion.

The effusions were again aspirated and straw-coloured fluid with a protein content of 4.8 g/100 ml obtained. A similarly high protein content had been
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Introduction

The use of intra-arterial Urokinase in a case of recurrent arterial occlusion

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Summary

The present case report describes the use of intra-arterial Urokinase in an occlusive episode involving the right radial and ulnar arteries. Details of the case history are given and the choice of thrombolytic therapy, plus its route of administration are discussed.

Discussion

Discolouration of the nails associated with lymphatic deficiency and lymphoedema was termed the 'yellow nail' syndrome by Samman & Whyte (1964). They described thirteen cases, the oldest of whom was 65 at the time of presentation, and pointed out the characteristic features of the nails as exhibited in this case. The predominant involvement of the nails of the index finger on both hands is similar to that of the case reported by Dilley et al. (1968). This distribution is unexplained.

The further association of pleural effusions complicating the lymphoedema and yellow nails was described by Emerson (1966) and since then reported in such cases as that of D'Souza (1970). The theory of the development of the effusions is that respiratory infections may damage a previously adequate but hypoplastic lymphatic drainage system of the lung, so that it is no longer able to deal with the increased load following further incidents. In the limbs, it is known that persistent lymphoedema may develop following an infection or other episode which overloads a hypoplastic system which hiterto had been able to function adequately.

In a recent review of pulmonary manifestations of the yellow nail syndrome by Hiller, Rosenow & Olsen (1972), the oldest case reported was a patient of 71 who had had chronic oedema of his lower extremities for 4–5 years, and yellow nails for 2 years before presenting with respiratory symptoms associated with a pleural effusion. The interest in this present case is in the even later age that the yellow nails developed, and the fact that it was not until the ninth decade that pleural effusions developed despite evidence to suggest lifelong lymphatic hypoplasia in the persistence of chronic oedema of the legs since childhood.

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References


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