Dosage. In all patients, blood pressure, pulse pressure, and pulse rate remained essentially unchanged and thyroid function tests were confirmatory of drug compliance.

The very nature of this trial demands that the results be interpreted with caution. Nonetheless, certain observations lead us to believe that therapy with T3 was the factor responsible for the remissions experienced by our patients. In the first place, every one of them described a substantial, if not dramatic, improvement in their condition. Furthermore, this improvement occurred during the winter months when attacks would be expected to be most frequent and severe. Indeed, one patient (No 1) spontaneously commented that 'this was the best winter she could remember'. Finally, there was coexistent biochemical evidence of strict compliance.

Our study was not designed to investigate how a T3 induced hyperthyroid state may relieve the symptoms of Raynaud's phenomenon, and we are therefore not in a position to comment critically on the proposed mechanism—namely, thermoregulation reflex vasodilatation in consequence of resultant hypermetabolism. We should stress, however, that four of our patients had systemic sclerosis, a disease in which blood flow in the dorsum of the hand is believed to depend almost entirely on arterial perfusion pressure, yet in none was an increase in blood pressure or pulse pressure recorded.

Large dosages of T3 were found in this study to be a highly effective treatment for Raynaud's phenomenon and one principally free from side effects. Whether such therapy confers advantages over more established remedies awaits the necessary, relevant comparisons in a double blind fashion.

We are grateful to Professor D S Rossouw for access to the patients participating in this study.

1Department of Internal Medicine and P H M C DESSEIN
2Division of Neurology, R F GLEDHILL* Department of Internal Medicine, Pretoria and Kalafong Hospital, Pretoria, South Africa

* Correspondence to Professor R F Gledhill, Kalafong Hospital, Private Bag X396, Pretoria, South Africa.

References

Correspondence

Dermatomyositis/polymyositis and carcinoma of the ampulla of Vater

Sir, The association of dermatomyositis/polymyositis (DM/PM) with malignancy has been recorded in several reports and reviews. Although cases of carcinoma of the pancreas and dermatomyositis have been reported, we have found no report of carcinoma of the ampulla of Vater with DM/PM. We wish to report such an association.

A 62 year old woman was admitted to hospital because of fever and chills. Two weeks before admission she developed increasing fatigue, persistent sore throat with chills and fever reaching 39.4°C, night sweats, malaise, weight loss, pain in her left knee, and a morbilliform rash which in five days assumed an urticarial appearance. On admission, a painful tender left knee and oedematous dusky erythema on the periorbital region were noticed. Her temperature was 39°C, pulse 95 beats/min, and the blood pressure 125/80 mmHg. The rest of the systematic examination was unremarkable. A tentative clinical diagnosis of dermatomyositis was made.

Laboratory investigations showed erythrocyte sedimentation rate 100 mm/h, leucocytes 13·8×10⁹/l with a shift to the left (total granulocytes 90% and lymphocytes 10%), and packed cell volume 40%. Alkaline phosphatase was more than 200 SU (normal<75 SU). Serum aspartate transaminase 126 U/l (normal<27 U/l), serum alanine transaminase 117 U/l (normal<30 U/l), lactic dehydrogenase 290 U/l (normal<290 U/l), and γ-glutamyl transferase 224 U/l (normal<30 U/l). The following were normal or negative: renal function studies, bilirubin, hepatitis B surface antigen, heterophil agglutinins, creatine phosphokinase, aldolase, amylase, thyroid function tests, rheumatoid factor, antinuclear antibodies, antinuclear antibodies, smooth muscle antibodies, serum complement levels, cultures from throat, urine, and blood, tuberculin skin test, stool specimen, chest x rays, electrocardiogram, electromyogram (EMG), upper gastrointestinal study, intravenous pressure, ultrasonographic study, and the computed tomographic scan of the abdomen. A muscle biopsy showed typical changes of fragmented and degenerated muscle fibres in a background of fibrous tissue heavily infiltrated by leucocytes (Fig. 1).

Three weeks later pyrexia continued and the patient developed jaundice with pruritus and ascites. Her condition deteriorated, she had a massive haematemesis, and died. The postmortem examination showed an anaplastic adenocarcinoma of the ampulla of Vater (diameter 1·5 cm). Liver histology showed acute cholestasis. Pancreas and spleen were normal. No metastases or other primary tumours were found.

This case represents an example of DM/PM satisfying the proposed criteria. The patient developed the characteristic skin findings of dermatomyositis with mainly the cutaneous leucocytoclastic vasculitic lesions, a rare manifestation of DM/PM. Muscle enzymes and EMG were normal. Other authors have also reported cases without EMG or muscle enzyme changes, but with characteristic histological changes of polymyositis. In a recent review
the development of jaundice prevented us from establishing the diagnosis and undertaking radical treatment.

1st Department of Internal Medicine, Medical School of Athens, Laikon General Hospital, Goudi, Athens 115 27, Greece

G VAYOPOULOS
C CONSTANTOPOULOS
C FOTIOU
PH KAKLAMANIS
PH FESSAS

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