**Case report**

**Active chronic hepatitis and febrile panniculitis**

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**Summary** Two patients with autoimmune hepatitis B negative chronic hepatitis and febrile panniculitis are described. On each occasion the panniculitis responded to increasing the doses of prednisolone.

Active chronic hepatitis is associated with numerous systemic complications, but rarely with febrile panniculitis. Such an association in two patients is described here.

**Case reports**

**Patient 1**

A 34 year old woman presented with progressive, painful bilateral weakness of the thigh muscles. Her previous history included hepatitis at the age of 12, which progressed to histologically proven hepatitis B negative, antinuclear antibody-positive, active chronic hepatitis. Subsequently, she had one episode of arthralgia and pericarditis at the age of 17. From the age of 24 pyoderma gangrenosum had intermittently affected the hands and lower limbs, but there were long periods of quiescence.

At the time of admission she was receiving prednisolone 7.5 mg and azathioprine 50 mg daily. Examination revealed a pyrexia of 38.2°C, and swollen thighs with superficial areas of marked tenderness of the lateral surfaces. There was severe bilateral pain and loss of power on hip and knee flexion and extension. There was, as previously, clinical hepatosplenomegaly (Fig. 1).

Investigations on admission included: sedimentation rate 60 mm/h, alanine aminotransferase 30 U/l (normal 20), bilirubin 27 μmol/l (19), creatine kinase normal, antinuclear antibody 1 in 80 with diffuse IgG; smooth muscle antibody 1 in 80. T/B lymphocyte cell ratio normal, with lymphopenia (0.4×10^9/l).

During the next two weeks there was intermittent pyrexia of up to 38.8°C, with negative blood cultures. Electromyographic studies showed no neuropathy or myopathy, but a surgical biopsy specimen taken from an area of tenderness in the right vastus lateralis showed normal striated muscle but a chronic non-specific panniculitis in the adipose tissue.

The pain and weakness rapidly improved after increasing the dose of prednisolone to 30 mg daily and the patient was discharged with only slight residual weakness and wasting of both quadriceps. At follow up 12 months later the patient was pain free with no weakness on prednisolone 2.5 mg/day.

**Patient 2**

A 38 year old woman presented in 1971 with jaundice and pruritus, and the histological appearances of a liver biopsy specimen showed active chronic hepatitis. The serum later contained smooth muscle antibody...
Acutel active prednisolone oral cyclophosphamide of antigen followed was itchy, purpuric, (+) (+) but ankles vasculitis cutaneous examination of logical 12 and is carbamazepine, increase to nodule revealed inflammation on weakens to toxic epidermal necrolysis, to possible polyarthritis, and has presently experienced polyarthritis, epidermal pemphigus, and necrolysis, the buttocks. This was followed by a relapse of her liver disease (bilirubin 12 μmol/l, aspartate aminotransferase 225 IU/l; (N 65), and the ESR rose to 91 mm/h. Histological examination of a surgical biopsy specimen of a nodule revealed a non-specific panniculitis with subcutaneous vasculitis (Fig. 2). This rapidly responded to increase of the dose of prednisolone, and has not recurred.

Since then she has experienced polyarthritis and toxic epidermal necrolysis, possibly related to carbamazepine, and is presently well without pain or weakness on azathioprine 75 mg daily alone.

Discussion

Autoimmune active chronic hepatitis is associated with a variety of organ specific vasculitic diseases, and skin changes that have been reported include acne, erythematous lesions, lupus like changes, papular eruptions, purpura, striae, urticaria, allergic capillaritis and pyoderma gangrenosum.

Our first patient not only had arthralgia, peri-carditis, and pyoderma gangrenosum, but also laterly a febrile panniculitis, while the second patient experienced polyarthritis, epidermal necrolysis and panniculitis. The biopsy specimens were necessarily small, but the histological appearances of panniculitis were diagnostic.

Panniculitis, of which Weber-Christian disease is one part of a spectrum, is associated with abnormalities of immune function. One case of panniculitis associated with viral hepatitis has been reported in a 34 year old man, but this was autoantibody negative acute viral hepatitis, and the panniculitis presented during the prodromal period and resolved after treatment with indomethacin. Cook et al recorded a single patient with Weber-Christian disease and active chronic hepatitis, but gave no details.

We report, therefore, this association of panniculitis to add to the spectrum of associated autoimmune systemic conditions. It responds readily to prednisolone, and leaves no longterm sequelae.

References