Polyarteritis nodosa: an atypical presentation

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DESCRIPTION

Polyarteritis nodosa is a systemic necrotising vasculitis involving the small and medium arteries. Men aged between 40 and 60 years are more frequently affected and histological evidence of vasculitis in the involved organs is necessary for diagnosis.1 2

A 55-year-old woman presented with a history of fever and painful skin lesions in the right leg, associated with progressive weakness and sensory loss in the affected limb.

Physical examination revealed multiple hypochromic spots over the face and limbs (figure 1), a rounded lesion with a necrotic centre and inflammatory broadsides on the right knee (figure 2), and two haemorrhagic bullous lesions on the right foot (figure 3). These lesions were associated with swelling, redness and warmth of the right limb. A distal paresis of the right limb, absence of right ankle reflex, decreased vibratory sensation and hypoesthesia below the right knee were observed during neurological examination.

Because of weakness in the dorsiflexors of her feet and toes, the patient had a high-stepping gait, lifting her knees to avoid dragging her toes on the floor.

Haematological investigations showed normocytic and normochromic anaemia, leucocytosis with neutrophilia, and elevated C reactive protein and erythrocyte sedimentation rate. Electromyography showed a common sciatic mononeuropathy. A skin biopsy of the knee lesion was performed and the...
histology of the lesion evidenced arteries with lumen filled with a thrombus, in early stages of resolution, reducing the remaining lumen by subintimal fibrosis. Thinning of the muscle wall and mild inflammatory infiltrate consisting of polymorphonuclear neutrophils and rare eosinophils with lesions associated with secondary panniculitis were also seen. There was no evidence of granuloma. These findings were consistent with polyarteritis nodosa (figures 4A, B and 5). No visceral involvement was documented. Corticosteroids (1 mg/kg/day) were initiated followed by azathioprine (50 mg/day) with a good outcome. The skin lesions resolved with the corticosteroid.

**Learning points**

- In polyarteritis nodosa, symptoms are the result of vascular damage in affected organs; in this case, skin lesions and mononeuropathy were the marks of disease activity.
- Histological evaluation of the lesions determines the diagnosis, allowing appropriate treatment.

**Competing interests** None.

**Patient consent** Obtained.

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**REFERENCES**