Vertebral B-cell lymphoma mimicking a Pott’s disease in a man aged 63 years coming back from Tunisia

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DESCRIPTION

We report the case of a man aged 63 years, a native from Tunisia, whose medical history was marked by diabetes treated with insulin (complicated with inferior limbs polyneuropathy), an ischaemic heart disease, a peripheral arterial disease and a smoking-related chronic obstructive pulmonary disease. His mother might have had pulmonary tuberculosis. He was retired since 2 years and shared his life between Tunisia and France. He had mechanical back pain since several years, but since 3 months, his back pain awakened him at night and was accompanied with loss of weight and anorexia. There was no fever or night sweats. In Tunisia, he underwent a CT scan showing a retroperitoneal mass infiltrating the left psoas and the left renal artery close to the aorta with the erosion of the L2 cortical and spondylitis (figure 1A, B). There was also regional necrotic lymphadenopathy. The patient decided to return to France and was hospitalised in our infectious disease unit. Clinical examination found no pain at the percussion of lumbar vertebrae, no neurological deficit and cardiopulmonary auscultation was normal. Biological investigations showed an inflammatory syndrome, no cytopenia, normal renal function and normal function tests. The blood culture were sterile, the HIV serology was negative, as were Coxiella, Bartonella and Rickettsia serologies. The interferon-γ release assay was negative. A spinal MRI was performed revealing signal abnormalities of L2, without any lesion of the spinal disc, evocating spondylitis, associated with a necrotic mass of left psoas evocating an abscess (figure 1C–F). Finally, the patient underwent radioguided biopsy of the left psoas mass. The samples stayed sterile in conventional media; universal PCR and mycobacterial cultures were negative. The histological analyses revealed a lymphocytic infiltrate constituted with medium-sized cells showing nuclear anomalies and expressing CD20, in favour of B-cell lymphoma. The patient was transferred to haematology to undergo polychemotherapy.

Pott’s disease is the most frequent manifestation of extranodal tuberculosis. It often involves two contiguous vertebral bodies of the thoracic or lumbar segments or can have multilevel involvement. The intervertebral disk is usually preserved until the advanced stage. In the earlier stages, spondylitis can be seen. It can be associated with paraspinal infiltration or masses with calcifications.1 Lymphoma, mostly non-Hodgkin, can rarely involve bones. It is characterised by the destruction of the cortical bone with a moth-eaten pattern and

Figure 1 CT scan showing left psoas mass, infiltrating the left renal artery and eroding the anterosuperior plate of L2 vertebrae (arrows, A and B); MRI showing spondylitis aspect of L2 vertebrae which is enhanced by gadolinium in T1 image with fat saturation and erosion of superior plate (arrow, C), high signal of L2 vertebrae in STIR (arrow, D), L2 vertebrae in low signal in T1-weighted sequence (arrow, E) and abscess of left psoas visible in this image injected, T1 weighted with fat saturation (arrow, F).

is associated in half of the cases with soft tissue masses. Regional lymph nodes can also be seen. In MRI, the signal anomalies can vary. In our case, the infiltration of the left renal artery was unusual and could have put us on the way of lymphoma. B-cell lymphoma can mimic Pott’s disease and the pathology is essential for the diagnosis.

Learning points

▸ Imaging of lymphoma is very polymorphous, especially in the case of bone involvement.
▸ B-cell lymphoma can mimic Pott’s disease with loss of weight and MRI showing spondylitis and psoas abscess.
▸ The pathology is essential in patients with suspicion of Pott’s disease, to exclude B-cell lymphoma.

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Contributors

CP, TF and CC participated in patient care. CP performed the MRI. CP wrote the manuscript. All authors participated in the literature review and improved the manuscript.

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