An isolated osteochondroma with underlying non-Hodgkin’s lymphoma of bone

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Osteochondroma is the most common benign bone tumour. The risk of sarcomatous change in an isolated lesion is approximately 1%. We report a case of an isolated osteochondroma which appeared benign on clinical and plain radiographic examination but routine histological analysis revealed non-Hodgkin’s lymphoma in the underlying bone. This association has not previously been reported and the case emphasises the importance of routine histological analysis, even if a lesion appears benign.

Case report
A 20-year-old university student presented with a long history of a lump on the medial aspect of his knee. It had not caused any symptoms until the year prior to presentation. A diagnosis of a solitary exostosis had been made five years previously. In the year prior to his presentation, he had experienced increasing symptoms of pain around the lump especially after any sporting activity.

Clinical examination revealed a tender lump deep to vastus medialis just above the right knee. It was not tender. There was no associated effusion and he had a full range of movement of the knee. General examination showed...
To our surprise, routine histological analysis revealed a large cell, non-Hodgkin’s lymphoma within the bony portion of the lesion (Fig. 2). An MRI and bone scan showed that the lymphoma was isolated to the distal femur which was confirmed with further staging. To date he has had four cycles of cytotoxic chemotherapy and is due to have consolidation radiotherapy in the near future.

**Discussion**

The risk of sarcomatous change within an isolated osteochondroma is very small.\(^1\) Isolated osteochondromata may be left alone or excised if they cause symptoms due to irritation of muscle, tendon or nerve. Even though the clinical and radiographic appearances of the lesion in our case were benign, routine histological analysis revealed a large cell, non-Hodgkin’s lymphoma. Appropriate investigation, staging and treatment were begun. To our knowledge the association of non-Hodgkin’s lymphoma and solitary exostosis has not been previously reported.

The great rarity of this coincidence does not raise the prospect of pathological association; but the case emphasises the importance of histological analysis even if the lesion in question appears benign.

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**References**