One patient, one bone, and two different tumoral lesions

Bir hasta, bir kemik ve iki ayrı tümoral lezyon

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ABSTRACT

In this article, we report a 67-year-old female patient who has two different tumoral lesions located in left humerus with clinical and radiological findings. Previously, the patient was diagnosed as impingement syndrome in shoulder, but, tumoral lesions were detected on the radiograms incidentally during evaluation.

Keywords: Bone; intraosseous lipoma; simple bone cyst; tumoral lesions.

There are several tumors and tumorlike conditions with variable biological behavior that may involve the bones.[1] However, histopathologically, some of these lesions are not really malignant. They are usually seen in childhood, but also rarely in adults. They mostly present an asymptomatic course and are diagnosed with radiographs taken for any other reason. Their detection is important because of their risk to cause pathological fractures. Cyst aspiration, steroid injections, curettage, and grafting are applied to the patients with high risk of pathological fracture.

In this article, we described a patient who has two different tumoral lesions located in left humerus with clinical and radiological findings. Previously, the patient was diagnosed as impingement syndrome, but, tumoral lesions were detected on the radiograms incidentally during evaluation.[2,3]

CASE REPORT

A 67-year-old female patient referred to another clinic with right shoulder pain. Previously, she was diagnosed as impingement syndrome; however, left humerus lesions were detected on the X-ray views incidentally during evaluation. There were no symptoms such as pain, numbness, swelling, or redness at left upper extremity. Pain elicited at diaphyseal humerus when applying pressure with finger, but did not affect patient’s daily life or caused her to wake up at night. Patient had no history of trauma. A written informed consent was obtained from the patient.

Bone scintigraphy was performed. There was no abnormal uptake in the proximal left humerus and it was more expanded compared to the other humerus. The scintigraphy was reported as compatible with simple cyst. Subsequently, left upper extremity tomography was taken. A smooth, limited, thin mass with sclerotic edges and approximately 2x3 cm in size was detected in the humeral metaphyseal level and considered as “simple bone cyst”. In the humeral diaphyseal level; a heterogeneous mass was detected approximately 4x2 cm in size with lobular contour, containing areas of fat density, and causing slight expansion in the bone, which was reported as “intraosseous lipoma”. Magnetic resonance imaging

ÖZ

Bu yazında, klinik ve radyolojik bulgularla sol humerusunda iki ayrı tümoral lezyon olan 67 yaşında bir kadın hasta sunuldu. Hastaya daha önce omuzda sıkışma sendromu tanısı konuldu, fakat değerlendirirme sırasında röntgenlerde tesadüfen tümoral lezyonlar tespit edildi.

Anahtar sözcükler: Kemik; intraosseöz lipom; basit kemik kisti; tümoral lezyonlar.
was consistent with simple bone cyst and intraosseous lipoma (Figures 1, 2).

Considering the risk of fracture due to the two lesions, prophylactic surgical treatment was recommended. However, the patient refused surgical treatment. Then, lifestyle changes were described to reduce the risk of fracture development and regular follow-up was recommended.

**DISCUSSION**

While multiple lesions in a bone are generally considered as simple bone cysts, aneurysmal bone cysts, or fibrous dysplasias during adolescence, they are primarily regarded as metastases, multiple myelomas, or osteomyelitis in adulthood.

Simple bone cysts are benign lytic bone lesions, usually observed in children and adolescents. They are cystic, fluid-filled lesions, which may be unicameral or partially separated. Unicameral bone cysts may involve all bones, but particularly the long bone metaphysis, and the proximal humerus and proximal femur.[4] The cortex may become fragile. Cyst aspiration, steroid injections, curettage, and grafting are applied to the patients with high risk of pathological fracture.

In the elderly, the content of the cyst generally changes to fibroadipose tissue. Classically, fibrous dysplasia lesions are intramedullary, expansile, and well defined. Although endosteal scalloping may be present, a smooth cortical contour is always maintained. Lesions show varying degrees of hazy density with a ground-glass quality, although some may appear almost completely radiolucent or sclerotic.[9]

Although there is too much fatty tissue in bone marrow, intraosseous lipomas are rare. Intraosseous lipoma is seen more often in facial bones, ribs, ulna, tibia, fibula, and calcaneus. Radiographically, the lesions appear osteolytic and well delineated. Curettage and packing with autogenous bone grafts are treatment options for this rare tumor.[6]

In the literature, various cases were reported regarding simple bone cysts in different bones of the same patient.[7] However, we detected only one paper on two different lesions in the humerus, involving a 10-year-old girl with fibrous dysplasia associated with aneurysmal bone cyst, both confirmed by histopathology. Authors have emphasized that this condition further increases the risk of fracture development by weakening the bone.[8]

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REFERENCES