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## **ANEURYSMAL BONE CYST IN CHILDREN**

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**Relevance of the topic.** Aneurysmal bone cyst is one of the most important problems of today's medicine. Aneurysmal bone cyst is known as the monoosseal dystrophic process which courses to severe pain syndrome or even pathological fracture of the injured extremity. Clinical, radiological researches with pathomorphological verification are main methods for true and timeous diagnostics. Aneurysmal bone cyst has features similar to some dysplastic and tumor-like processes therefore it is necessary to make a correct differential diagnostics.

**Aim.** To study localization of aneurysmal bone cyst in children.

**Methods and materials.** Results of clinical and radiological research of 14 patients aged 6-14 years with an aneurysmal bone cyst have been analyzed. Conventional radiography and spiral computed

tomography have been performed in all cases. Diagnosis has been verified by the puncture biopsy as well as surgery afterwards.

**Results.** Different localization of cysts has been observed in the examined patients: vertebral body and arch ThX - in 1 (7.14%) patient; vertebral body and arch LIII - 1 (7.14%) person; long bones - in 12 (85.72%) patients: I metatarsal bone - 1 (7.14%); femur neck - 1 (7.14%); intertrochanteric area of femur - 2 (14.29%); fibula head and metaphysis - 2 (14.29%); distal half of fibula - 1 (7.14%); proximal 1/3 of tibia - 3 (21.44%) patients, including 1 patient with solid variant of cyst; V metacarpal bone - 1 (7.14%); distal 1/3 of radius - 1 (7.14%). In all cases lesion has been showed as a lytic destruction area with homogeneous structure (64.3%,  $p < 0.01$ ) or with septa (35.7%). There were bone bulging and cortical thinning at the level of the lesion. Solid variant of cyst was similar to active growing tumor: a large-size lesion with entire bone lysis. Computed tomography images have demonstrated hypervascularization of the injured area and soft tissue enlargement.

**Conclusions.** In 85.7% patients aneurysmal bone cyst has been described in long bones, mainly in lower extremities (71.4%,  $p < 0.001$ ). Complex investigation can provide a correct diagnostics.

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## STUDYING OF SERUM CALCIUM IN PATIENTS WITH THYROID PATHOLOGY

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It is known, the level of serum calcium is depended on calcium regulatory hormones and thyroid hormones. However, the exact