IMAGES IN HEMATOLOGY

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A Rare Complication of Congenital Afibrinogenemia: Bone Cysts

Konjenital Afibrinojenemide Nadir Bir Komplikasyon: Kemik Kisti

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Figure 1. Direct radiography of the tibia.

A 12-year-old male patient diagnosed with congenital afibrinogenemia presented to our center with pain, swelling, and ecchymosis in his leg after trauma. His past medical history revealed that he had been diagnosed with afibrinogenemia shortly after birth because of umbilical bleeding. Laboratory tests at admission revealed prolonged prothrombin time and activated partial thromboplastin time, and almost undetectable fibrinogen levels. A bone scan and radiograms of both legs showed multiple cystic lesions in the tibiae (Figure 1). Magnetic resonance imaging (MRI) of the legs also showed multicystic lesions with septae formation involving metaphyseal-diaphyseal junctions (Figure 2).

Bone cysts, one of the rare complications of afibrinogenemia, frequently appear in the contiguity of the cortex or trabeculae in the diaphysis of long bones, particularly the femora, tibiae, and humeri, and should be considered in patients who suffer rheumatic pains of the extremities [1,2]. Intraosseous hemorrhage, usually at the entrance of the nutrient artery, causes intraosseous cysts. Large cysts, especially in weightbearing bones, may cause pathological fractures [2,3]. Wholebody MRI might be useful to evaluate the lesions. We want Figure 2. Magnetic resonance imaging of the lower extremities.

to emphasize the importance of on-demand therapy and MRI in determining bone cysts. However, the role of secondary prophylaxis needs to be evaluated.

Keywords: Afibrinogenemia, Bone cysts, Child, Rare

Anahtar Sözcükler: Afibrinojenemi, Kemik kistleri, Çocuk, Nadir

Informed Consent: Our patient's parent gave consent.

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