

Fibro-Osseous Lesion Presenting with Refractory Microcytic Hypochromic Anemia

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Image Article

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Introduction

Fibro-osseous lesions are benign tumors commonly presenting with multiple fractures, pain and limping [1]. Hematological manifestations are quite late and patients may present with microcytic hypochromic anemia, bicytopenia or pancytopenia [2]. A high index of clinical suspicion, radiological and hematological correlation is a must for early diagnosis and proper management [3-6].

A 21 year female patient presented with multiple fractures in both upper and lower limbs since birth. Her physical growth was retarted. Xray of pelvis and legs revealed multiple lytic lesions (Figure 1). Her vitamin D was 27.15 ng/ml. Serum calcium was 9.9 mg/dl and serum Prolactin level was 4. 83 ng/ml her hemogram revealed Hemoglobin of 8 gm/dl, total leucocyte count of 9300/cumm and platelet count of 2.3 lacs /cumm. On peripheral blood smear examination microcytic hypochromic anemia was found. Despite iron therapy patient was not responding to treatment. Hence bone marrow aspiration and biopsy was performed to find out the cause of resistant microcytic hypochromic anemia Bone marrow was attempted thrice but didn't yield any diagnostic aspirate. Bone marrow biopsy revealed misshapen bony trabeculae focally rimmed by osteoblasts enclosing extensive fibro-collagenous stroma. Marked suppression of trilineage hematopoeisis was seen. A diagnosis of Fibro-osseous lesion was made favouring polyostotic fibrous dysplasia. Masson trichrome stain was done that showed extensive collagenisation in the intertrabecular spaces (Figures 2-4).



Figure 1: X-ray showing multiple lytic lesions in femur.

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Figure 2: Microphotograph showing bony trabeculae enclosing fibrocollagenous stroma with absence of hematopoietic elements (H & E; 100X).

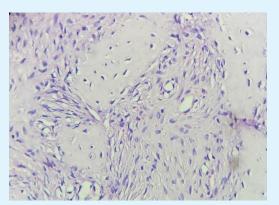


Figure 3: Microphotograph showing bony trabeculae focally rimmed by osteoblasts (H & E; 400X).

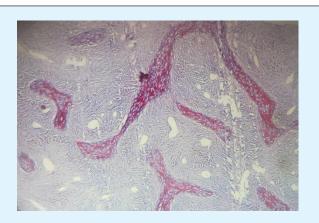


Figure 4: Microphotograph showing collagenisation in intertrabecular spaces (Masson's trichrome; 100X).

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