

A Rare Case Of Asymptomatic Osteopoikilosis: Case Report

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Introduction

Osteopoikilosis or spotted bone disease is a benign sclerosing bony dysplasia which is inherited in an autosomal dominance and sporadic forms. It is usually asymptomatic and incidental finding on radiographic examination. We report a rare case found in our centre.

Case Report

A 20 years old male patient initially admitted for acute appendicitis with incidental finding of numerous small, well-defined, sclerotic foci on pelvis x-ray. Patient has been asymptomatic. No family history of bone disease reported nor screened previously. Physical examination revealed no abnormal facies, no significant skin lesions. All joints range of motion normal, no neurological abnormalities. Further work up was done including skeletal survey and blood investigations to confirm diagnosis. These entire radiographs revealed similar diffused sclerotic foci concentrating over periarticular, sparing the skull, ribs and vertebra. There was no evidence of cortical thickening and periosteal reactions to suggest malignancy. Routine blood investigations were done revealed no significant finding.

Discussions

First described in 1915 by Albers Schonberg and recently termed as osteopoikilosis. No gender or age predilection associated. The pathogenesis is due to hereditary failure to form normal trabeculae along lines of stress, which resulted from abnormality in endochondral bone maturation process and collagen regulation. Radiographically, the pathognomonic appearance of numerous small, well-defined, spheroid sclerotic foci clustered in periarticular regions. Our patient appeared with lesion in the appendicular bones including pelvic and spared lesions in skull and ribs.



Figure 1 : Radiograph of hand shows well defined, multiple sclerotic lesions.



Figure 2: Shoulder radiograph showing lesion with sparing of vertebral body and rib.

Conclusion

Osteopoikilosis is a rare, benign, autosomal dominant disease which is usually asymptomatic. Osteoblastic metastasis is a differential diagnosis. No specific treatment is required.

References:

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