

Images in clinical medicine



Osteomalacia: a forgotten diagnosis of multiple bone fractures

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Osteomalacia: a forgotten diagnosis of multiple bone fractures

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Image in medicine

We present a case of a 53-year-old female patient with chronic anemia, with no other significant medical history and on no regular medications. The patient was brought to the accident and emergency department following found on the floor of her home after having tripped over a mat and henceforth being unable to mobilize and complaining of pain in her bilateral hip and her right leg. X-rays confirmed bilateral neck of femur fractures and fracture of the distal end of the tibia and fibula. The bones were extremely gracile and osteoporotic. Investigations demonstrated raised parathyroid hormone levels (199 pg/mL, normal

Article 3



range (nr) 15-72), with low vitamin D (7 ng/mL, nr 50-100) and adjusted calcium (1.87 mmol/L, nr 2.2-2.6) levels. We have eliminated the diagnosis

of myeloma. Calcium and vitamin D were replaced prior to the insertion of bilateral femoral nails.



Figure 1: A) bilateral proximal femoral fractures associated with low energy; B) right subtrochanteric femoral fracture; C) left subtrochanteric femoral fracture; D) diffuse demineralization of the spine: osteoporotic-like pattern; (E,F) supramalleolar fracture of tibia and fibula