Test yourself question: atraumatic fracture of an abnormal humerus

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Question

A 50-year-old man presents with right shoulder pain. There was no relevant medical history or previous trauma and blood parameters were normal (Figs. 1, 2, 3, 4 5 and 6).

Declarations

Conflict of interest The authors declare no competing interests.

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The diagnosis can be found at <https://doi.org/10.1007/s00256-021-03941-2>

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Fig. 1 AP radiographs of the right humerus at clinical presentation (**a**) and at 12 months follow-up (**b**)

Fig. 2 Coronal CT reformat of right humerus at presentation

Fig. 3 MRI right proximal humerus. **a** Coronal STIR at clinical presentation and **b** 12 months follow-up

Fig. 4 MRI right humerus. Axial PD FS TSE MRI images at 12 months follow-up; **a** at the level of the humeral head and **b** at the level of the fracture

Fig. 5 Longitudinal grey-scale ultrasound image of the right arm at the fracture level (similar level to Fig. 4b)

Fig. 6 H&E sections at $\times 40$ (**a**) and $\times 10$ (**b**) magnifications