

ORTHOPAEDIC CLINICAL QUIZ

The following questions are based on the images or illustrations provided. Answers and further information are available in this issue.

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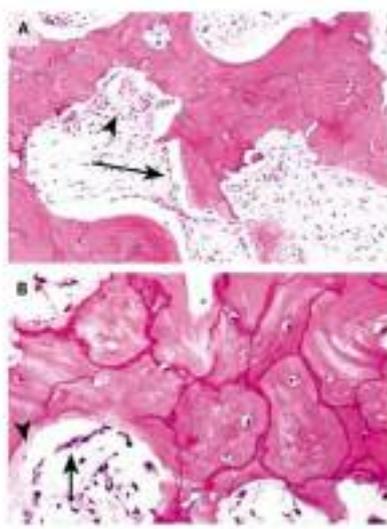
1.



F1 (A)



F1 (B)



F1 (C)

A 66 year old Scottish man otherwise healthy presented with right leg pain especially on walking that was present over the last 10 years, and which he attributed to ageing. Recently he noted that the leg was becoming swollen and bent. Radiographs of the leg were taken followed by a bone scan and a needle biopsy (Figure 1a-b). An H&E stained sample is shown (Figure 1c).

- What are the abnormalities in the radiograph, that in turn necessitated a bone scan?
- What does the bone scan show?
- Describe the histological features?
- Whose name is attached to this condition? What else you know about his life?

2.



A 20 year old young man had a fall, sustaining an injury to his forearm. Radiographs are shown (Figure 2).

- Describe the radiographic features.
- How can it be best treated?
- Whose name is attached to this fracture? What else is known about him?



A 56 year old woman, an immigrant farmer from Indonesia, presented with a swollen left foot following a trivial abrasion. Recently she has noticed serous discharge with pale 'grains' from a number of holes around the ankle (Figure 3).

- Describe the appearance of the foot.
- What are the salient microscopic features of the discharge?
- What is the pathogen and mode of infection?
- How should this condition be managed?
- Whose name is attached to this condition?



A 12 year boy, presented with bilateral moderate thickening of the wrists but was otherwise asymptomatic. Radiograph is shown (Figure 4).

- Describe the abnormalities.
- What other investigations are necessary?
- What is the diagnosis?
- Who described the condition? What do you know about him?



A 12 year old girl developed gradually increasing pain followed by swelling over her left lower thigh over the previous two months. For the last two weeks, she has also had a mild fever. Blood test showed a leucocyte count of 16,500/ mm² and ESR of 63 mm hg/hr. A radiograph was obtained (Figure 5) and a needle biopsy (Figure 5a) was performed.

- What does the radiograph show?
- What are the differential diagnoses?
- Describe the microscopic picture. What are the possible diagnoses?
- What other investigations should be undertaken to confirm the diagnosis?
- Who first described the condition? What is known about him?