ORTHOPAEDIC CLINICAL QUIZ

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

Figure F1A

Figure F1B

Q1. A 32-year-old lady presented with swelling over the lateral aspect of her left ankle associated with radiating pain down to the lateral aspect of her left foot for the past 6 months.

a. Describe 3 features seen in figure 1A.
b. Name the histological lesions labelled A,B and C in figure 1B and identify one salient feature(s) in each.
c. What is the diagnosis?

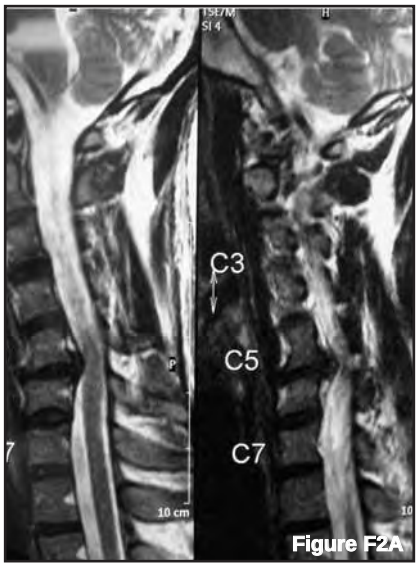

Figure F2A

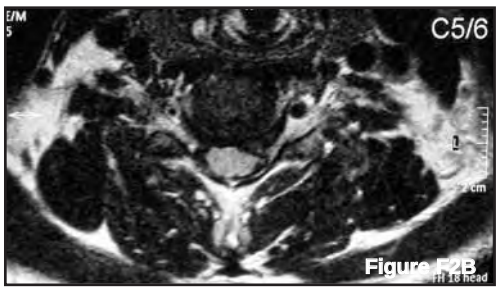

Figure F2B

Q2. A 32-year-old man presented with acute onset radiation pain over his left upper limb associated with numbness and weakness. Lower limb neurology was normal. MRI of the spine were performed (Figure 2A and 2B).

a. List three (3) abnormalities seen in the MRI.
b. List three (3) clinical findings in his left upper limb.
c. What is the treatment of choice?
d. If an open surgery was performed, name the common anterior surgical approach used.
e. Name two (2) complications of this approach.

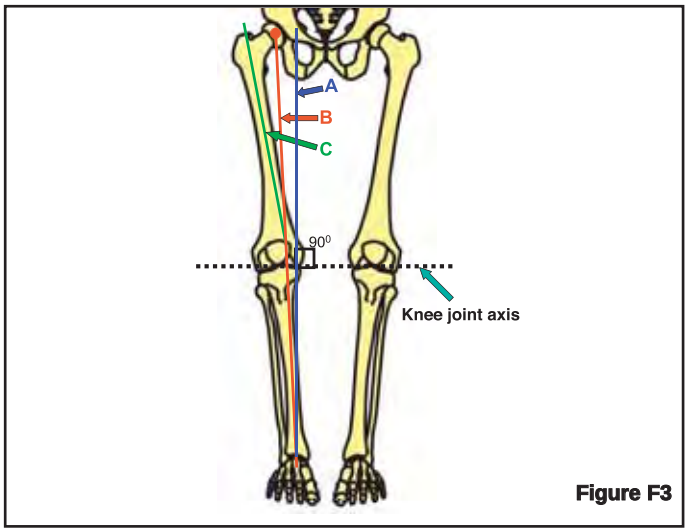

Figure F3

Q3. This diagram illustrates the different axes of the lower limb (figure 3).

a. Name the axes marked A, B and C.
b. What is the clinical application of the angle between B and C axes in total knee replacement (TKR)?
c. The knee joint axis is perpendicular to the vertical axis. What is the clinical application of the angle between A and B axes in TKR?
d. Which of the following axes (A, B or C), if any, contributes to the formation of Q angle?

Figure F4A

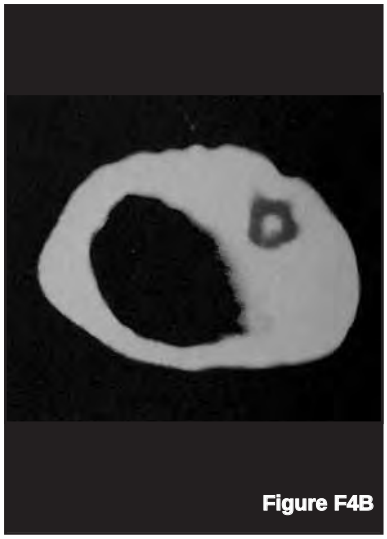

Figure F4B

Q4. A 23-year-old man presented with right leg swelling for the past 9 months.

a. List three (3) radiological features seen in figure 4A.
b. Name the imaging study shown in figure 4B and list 2 radiological features seen.
c. What is the diagnosis?
d. What other imaging study can also be used to diagnose this condition?
e. What are the treatment options for this patient?

Figure F5A

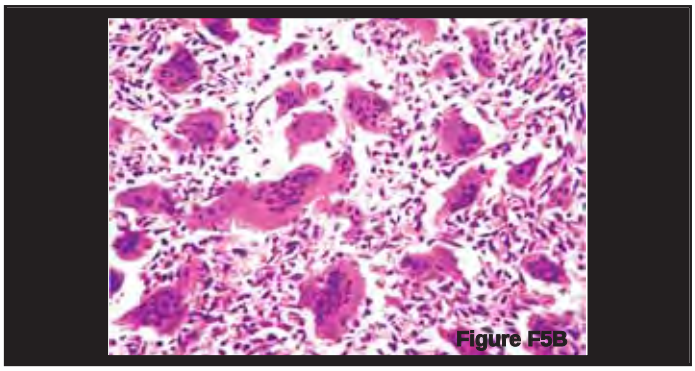

Figure F5B

Q5. A 33-year-old man had his right leg amputated 3 years ago for bone tumor of the lower tibia. Recently a CT scan of chest (figure 5A) was taken when chest radiograph revealed some abnormality.

a. State the lung problem based on the C T scan of the lung.
b. Thoracoscopic biopsy of the lung lesion was performed. State two (2) histological abnormalities seen (figure 5B).
c. State your diagnosis.
d. Irradiation is not recommended in the primary treatment of this condition. State the reason.

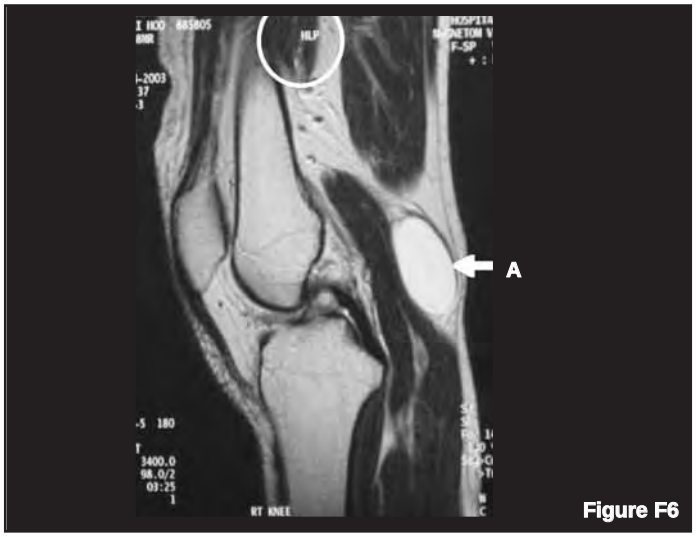

Figure F6

Q6. This is an MRI image of a knee joint. (Figure 6)

a. State the image sequence / weightage of this film.
b. What is the nature of the structure labelled A?
c. List two (2) possible diagnoses.
d. What important structure lies within the circle?
e. Name one other alternative imaging modality that can helpful for this condition?