

1. A 35 year old man has a combined ACL rupture and posterolateral instability. There is a bony varus knee deformity with lateral thrust in the stance phase of gait.

What is the most appropriate treatment for this patient?

- A. ACL reconstruction alone
- B. Distal femoral osteotomy
- C. Reconstruction of the posterolateral corner alone
- D. Simultaneous reconstruction of the ACL and the posterolateral corner
- E. Valgus osteotomy and ligament reconstruction simultaneously

2. A four year old girl has had a swollen, painless left knee joint for eight weeks. In the last ten days her left ankle has become swollen. It is uncomfortable after she has been sitting for twenty minutes. Examination of her eyes shows an irregular pupil on the right side.

What is the most appropriate first step in the management of this patient?

- A. A painful heel due to enthesiopathy is a common associated condition
- B. Her pupillary abnormality is likely to be due to a dislocated lens
- C. Synovectomy leads to improved joint function over the short and medium term
- D. The HLA B27 gene is a strong marker for this condition
- E. This child is likely to be rheumatoid factor negative

3. A 25 year old man had an acute dislocation of his shoulder, which was reduced. During the follow-up visit he was found to have wasting of the deltoid and the infraspinatus muscles. Injury to which one of the following neural structure accounts for this finding?

- A. Axillary nerve
- B. Lateral cord of the brachial plexus
- C. Posterior cord of the brachial plexus
- D. Suprascapular nerve
- E. Upper trunk of the brachial plexus

4. A 20 year old woman has had low back pain for the last six months. She has no fever or constitutional symptoms. Radiographs of her thoracic spine show coarse striations of the vertical trabeculae of the 12th thoracic vertebra. Her ESR is normal.

What is the most likely diagnosis?

- A. Bone cyst
- B. Fibrous dysplasia
- C. Haemangioma
- D. Non-ossifying fibroma
- E. Osteoblastoma

5. Considering Hawkins type 3 talar neck fractures, which of the following statements is correct?

- A. Medial malleolar osteotomy should be avoided because of danger to the blood supply
- B. Talar osteoporosis after three months indicates satisfactory fracture healing
- C. The rate of talar avascular necrosis is related to the rapidity of reduction
- D. The risk of avascular necrosis is 90%
- E. The sub-talar joint is not involved