ORTHOPAEDIC CLINICAL QUIZ

The following questions are based on the photographs and images provided. Answers and further information are available in Page 64 & 65

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Question 1

A 38-year old man presented with progressive right hip pain and stiffness. He had previously undergone a left total hip replacement for a similar problem.

a) List the radiographic changes in the pelvis and the spine. (2 marks)
b) What is the diagnosis? (1 mark)
c) List three difficulties anticipated for total hip replacement surgery in this case? (4 marks)
d) Name three complications that may be associated with total hip replacement in this group of patients? (3 marks)

Question 2

A 17-year old boy with a 2-year history of traumatic brain injury, presented with gradual right hip stiffness.

a) Describe the pathological process that has occurred. (2 marks)
b) List four possible risk factors associated with this condition. (2 marks)
c) What preventive measures can be taken in patients with high risk of developing this condition? (4 marks)
d) How can this condition be treated? (2 marks)

Question 3

A 34-year old man sustained this fracture after being involved in a motor vehicle accident.

a) Describe and classify the fracture. (2 marks)
b) Describe the surgical approach and internal fixation method for the fracture. (4 marks)
c) List two complications associated with this type of fracture. (2 marks)
d) What is the Hawkins sign and what does it signify? (2 marks)
Question 4

A 2-year old girl presented with rigid rocker-bottom deformity of both feet since birth. Lateral view radiographs of both feet are shown.

a) Describe three anomalies seen on the radiographs. (3 marks)
b) What is the most likely diagnosis? (1 mark)
c) Name two other conditions associated with this disorder. (2 marks)
d) Describe two treatment options for answer (b). (4 marks)

Question 5

A lower limb orthosis is shown.

a) Name the orthosis. (1 mark)
b) State two conditions for which this orthosis is indicated. (2 marks)
c) List four contraindications for the use of this orthosis. (4 marks)
d) How does this orthosis help during the gait cycle? (2 marks)
e) What material is this orthosis typically made of? (1 mark)

Question 6

The picture shows an upper limb orthosis.

a) Name the orthosis. (1 mark)
b) State two indications for which this orthosis is applied. (2 marks)
c) What movements in the hand does this splint allow? (2 marks)
d) List three objectives for the application of this splint? (3 marks)
e) State two contraindications for the of this orthosis. (2 marks)