ORTHOXAEDIC CLINICAL QUIZ

The following questions are based on the photographs and images provided. Answers and further information are available in pages 160-161

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Question 1

These are plain radiographs of a 12-year-old girl who was diagnosed with adolescent idiopathic scoliosis.

a) Identify the following vertebrae.
   i. The end vertebrae. (2 marks)
   ii. The stable vertebra. (1 mark)
   iii. The neutral vertebra. (1 mark)
   iv. The apical vertebra. (1 mark)

b) Identify the following curves:
   i. The structural curve. (1 mark)
   ii. The non-structural curves. (2 marks)

c) Name ONE (1) classification commonly used for this condition. (2 marks)

Question 2

This is a plain radiograph of an 18-month-old boy. He was planned for surgical treatment after failed closed manipulation.

a) Describe FOUR (4) abnormal findings in the plain radiograph. (4 marks)

b) What is the most likely diagnosis? (1 mark)

c) What is the most appropriate treatment in this child? (1 mark)

d) Name FOUR (4) anatomical structures that prevent successful manipulation? (4 marks)

Question 3

This is a plain radiograph of a 26-year-old Carpenter who presented with persistent left wrist pain for 10 months following surgery.

a) Describe FOUR (4) findings in the plain radiograph. (4 marks)

b) Name TWO (2) physical signs that you would likely elicit in this patient? (2 marks)

b) What is the most likely diagnosis? (2 marks)

d) Name TWO (2) complications that would arise if this condition was left untreated. (2 marks)
Question 4

An 80-year-old lady complains of back pain for three months following a fall. Imaging of her spine is shown above.

a) Name the imaging performed in Figures (a) and (b). (2 marks)
b) What is the finding on Figure (c) (white arrow)? (1 mark)
c) What is the provisional diagnosis? (2 marks)
d) On the spine imaging, how do you differentiate between a recent fracture and a healed old fracture? (3 marks)
e) Name TWO (2) minimally invasive surgical interventions that could be carried out. (2 marks)

Question 5

This is a plain radiograph of a 33-year-old lady who presented with a painful, progressive swelling of the right wrist for two months.

a) Name FOUR (4) findings in the plain radiograph. (4 marks)
b) What is the most likely diagnosis? (1 mark)
c) Name ONE (1) classification commonly used for this condition. (1 mark)
d) Classify this condition based on the classification mentioned in Question 3. (1 mark)
e) Name THREE (3) complications of this condition. (3 marks)

Question 6

These are the plain radiographs of a 70-year-old male retired teacher, who presented with left ankle pain for two years.

a) Name FOUR (4) findings in the plain radiograph. (4 marks)
b) What is the most likely diagnosis? (2 marks)
c) Name ONE (1) classification most commonly used in this condition. (1 mark)
d) What foot wear do you recommend for this patient if he chooses non-operative treatment? (1 mark)
e) Name two (2) surgical options for this condition? (2 marks)