

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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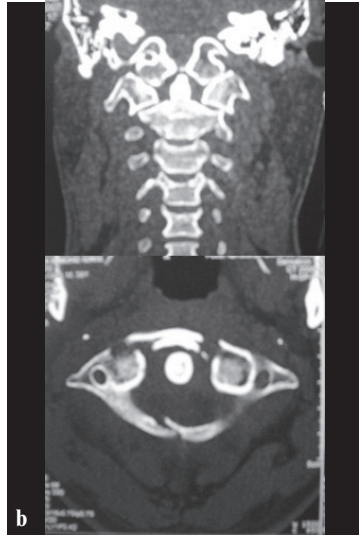
1.



These radiograph and MRI images belong to a 49-year-old man who developed unstable gait associated with progressive weakness and numbness of both lower limbs

- What three abnormalities are seen in lateral radiograph of the neck (Fig. A)
- List three abnormalities seen in the MRI image of the neck (Fig. B)
- What is the complete diagnosis?
- What is the definitive management for this patient?

2.



These radiograph and CT-scan images belong to a 30-year-old man who presented with severe neck pain following a traffic accident.

- What three abnormalities are seen in the lateral radiograph of the neck (Fig. A) and CT-scan images (Fig. B)
- What is the diagnosis?
- What is the mechanism of injury?
- Is this a stable fracture? State your reason.
- What are treatment options?

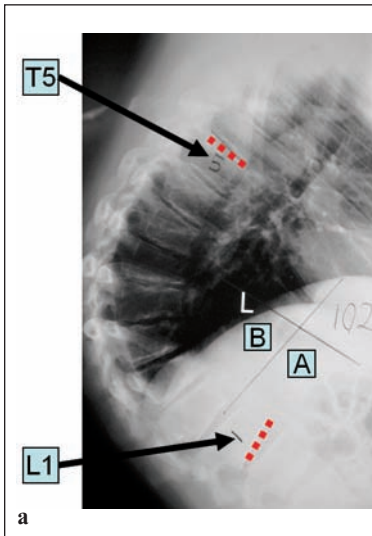
3.



This 45-year-old man is treated with an orthosis for a spinal injury.

- Name the orthosis and categorize it.
- How does this orthosis work?
- At what spinal levels does this orthosis work most effectively?
- What four common conditions require prescription of this orthosis?

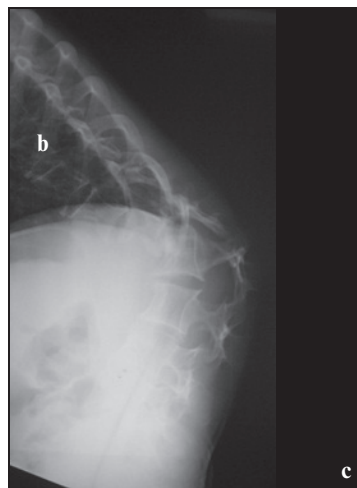
4.



These lateral radiograph and sagittal CT images of the thoracolumbar spine belong to a 17-year-old boy who presented with disabling back pain and severe rigid deformity of the back

- Identify three abnormalities of the spine
- What is the name given for the T5 and L1 vertebrae?
- Which of the following is the correct measurement of the Cobb angle? A or B
- What is your diagnosis?
- What is the recommended treatment for this patient?
- What is the minimal Cobb angle before a surgical intervention is recommended?

5.



A 23-year-old man presented with progressive angular deformity of his back over a 6-month period. He has multiple subcutaneous nodules since his early childhood.

- Identify three salient clinical signs.
- What three radiographic findings are likely to be identified?
- What is the most likely diagnosis?
- What criteria are used to establish the diagnosis?

6.



These selected slices of cervical spine CT-scan images belong to a 25-year-old man who presented with a stiff painful neck following a motor vehicle accident.

- Identify the two most important findings from the images.
- What is your diagnosis?
- List three emergent steps in the initial management of this patient.
- What other imaging study would you request for this patient and why?
- What is definitive management for this case?