



Exam Corner

June 2012 – Questions

The FRCS (Tr & Orth) examination has three components: MCQs, theory and Clinical Examination. The theory is further divided into four sections comprising Basic Science, Adult Pathology, Hands and Children's Orthopaedics and Trauma. The Clinical Examination section is divided into upper and lower limb exams. The aim of this section in the journal is to focus specifically on the theories preparing for the exam and to cater to all the sections of the exam every month. The exam is to complete the cycle of all relevant examinations (as per the syllabus) in four years.

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MCQs – Single Best Answer

1. All of these are examples of endochondral bone formation except:
 - a. Embryonic long-bone formation
 - b. Fracture callus
 - c. Bone formation after use of demineralised bone matrix
 - d. Cloning chondroblast osteogenesis
 - e. Longitudinal growth
2. All of these are diseases that involve the proliferation going of the growth plate except:
 - a. Kniest dysplasia
 - b. Achondroplasia
 - c. Gigantism
 - d. Marfanism
 - e. Irradiation injury
3. Which one of these regulates cartilage and bone formation in the fracture callus?
 - a. Bone morphogenetic protein
 - b. Transforming growth factor- β
 - c. Insulin-like growth factor II
 - d. Platelet-derived growth factor
 - e. Endothelial-derived growth factor
4. What is the diagnosis in a patient who presents with reduced serum calcium, raised serum phosphate, raised alkaline phosphatase and parathyroid hormone level and a reduced urinary calcium excretion?
 - a. Nutritional rickets
 - b. Hypoparathyroidism
 - c. Pseudohypoparathyroidism
 - d. Secondary hyperparathyroidism
 - e. Nutritional calcium deficiency
5. During revision knee arthroplasty with the trial components in place, the knee is rigid in extension and loose in flexion. Correction involves which of the following changes?
 - a. Use of a thinner distal insert
 - b. Use of a thinner distal femoral augmentation wedge
 - c. Use of a smaller femoral component
 - d. Revision of more proximal tibia
 - e. Shifting the femoral component anteriorly with an offset stem

Notes

Adult Pathology

A 62-year-old female presents with a history of lower back and right leg pain. This is her radiograph (Fig. 1).



Fig. 1

1. Describe the abnormalities seen in this radiograph.
2. What are the associations of this condition?
3. What is the approximate incidence of this abnormality in the general population?

4. What are the main surgical implications of this condition?
5. Describe the embryology of the spine.

Trauma

A 40-year-old patient was brought into A&E following a fall from a horse. The patient is haemodynamically stable and this is the radiograph of her pelvis (Fig. 2).



Fig. 2

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