



# Exam Corner

June 2012 – Questions

The FRCS (Tr & Orth) examination has three components: MCQs, Viva and Clinical Examination. The Viva are 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 themes 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.

**Waleed Kharrabulahi,**  
MRCS, FRCS (Orth)  
Consultant Orthopaedic  
Surgeon,  
Addenbrooke's  
Hospital, Cambridge University  
Hospital, Addenbrooke's,  
Cambridge  
CB2 0QQ, UK.  
Associate Editor, the  
Journal of Bone and  
Joint Surgery (Br)  
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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 proteins
  - b. Transforming growth factor- $\beta$
  - 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

## Vivas

### 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).

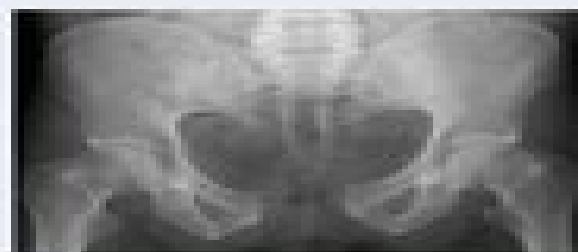


Fig. 2

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## **Table of Contents Mcq Millers Orthopedics**

1. Understanding the eBook Mcq Millers Orthopedics
  - The Rise of Digital Reading Mcq Millers Orthopedics
  - Advantages of eBooks Over Traditional Books
2. Identifying Mcq Millers Orthopedics
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mcq Millers Orthopedics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Mcq Millers Orthopedics
  - Personalized Recommendations
  - Mcq Millers Orthopedics User Reviews and Ratings

- Mcq Millers Orthopedics and Bestseller Lists
- 5. Accessing Mcq Millers Orthopedics Free and Paid eBooks
  - Mcq Millers Orthopedics Public Domain eBooks
  - Mcq Millers Orthopedics eBook Subscription Services
  - Mcq Millers Orthopedics Budget-Friendly Options
- 6. Navigating Mcq Millers Orthopedics eBook Formats
  - ePub, PDF, MOBI, and More
  - Mcq Millers Orthopedics Compatibility with Devices
  - Mcq Millers Orthopedics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mcq Millers Orthopedics
  - Highlighting and Note-Taking Mcq Millers Orthopedics
  - Interactive Elements Mcq Millers Orthopedics
- 8. Staying Engaged with Mcq Millers Orthopedics
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mcq Millers Orthopedics
- 9. Balancing eBooks and Physical Books Mcq Millers Orthopedics
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mcq Millers Orthopedics
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mcq Millers Orthopedics
  - Setting Reading Goals Mcq Millers Orthopedics
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mcq Millers Orthopedics
  - Fact-Checking eBook Content of Mcq Millers Orthopedics
  - Distinguishing Credible Sources

13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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