Disorders of the Bone

Lecture MCQs

10 questions

MCQs

- 1. Which cell is responsible for osteoid production?
- Osteocyte
- Chondrocyte
- Osteoblast
- Osteoclast
- Chondroblast
- 2. Crystals of which compound are found as the major component in mineralised bone?
- Calcium carbonate
- Calcium hydroxide
- Struvite
- Hydroxyapatite
- Calcium oxalate
- 3. What is an applied example of Wolff's Law?
- Immobility can result in thinner bones
- Immobility can increase bone density
- Compression of bone can lead to higher risk of fracture
- Calcium homeostasis is essential to bone stability
- Hypophosphataemia can result in weaker bones
- 4. Which cell is principally involved in bone remodelling?
- Osteocyte
- Chondrocyte
- Osteoblast
- Osteoclast

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- Chondroblast
- 5. What is the most common malignant bone cancer?
- Osteosarcoma
- Chondroblastoma
- Osteoblastoma
- Chondrosarcoma
- Secondary metastasis
- 6. What radiographic features would you expect to see in osteoporosis?
- Cortical thinning, loss of trabecular bone
- Cortical thickening, loss of trabecular bone
- Subchondral sclerosis, widened joint space
- Joint space narrowing, cortical thinning
- Cortical thickening, medullary space narrowing
- 7. What are the options for secondary prevention of osteoporosis for a 76-year-old female with a pathological fracture of her right hip?
- Emergency fixation and discharge home with GP to follow up
- Urgent DEXA scan
- Urgent CT chest/abdomen/pelvis scan for malignancy
- Discharge home with bisphosphonates, calcium and Vitamin D
- Discharge home with regular medications and follow up in fracture clinic in 6-8 weeks
- 8. What is osteogenesis imperfecta a disorder of?
- Osteocyte activity
- Osteoblast activity
- Fibrous periosteum
- Collagen production
- Calcium deposition

- 9. Which grading system is used for metastatic bone cancer?
- Glasgow criteria
- Duke's classification
- Amsterdam criteria
- Mirel's classification
- Ann Arbor staging system
- 10. How is a metastatic malignant bone tumour managed?
- Chemotherapy alone
- Conservative management only involving immobilisation of the bone
- Surgical excision of tumour
- Palliative radiotherapy
- Staging prior to intervention

Answers

- 1. Which cell is responsible for osteoid production?
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- 2. Crystals of which compound are found as the major component in mineralised bone?
- Hydroxyapatite
- 3. What is an applied example of Wolff's Law?
- Immobility can result in thinner bones
- 4. Which cell is principally involved in bone remodelling?
- Osteoclast
- 5. What is the most common malignant bone cancer?
- Secondary metastasis
- 6. What radiographic features would you expect to see in osteoporosis?
- Cortical thinning, loss of trabecular bone
- 7. What are the options for secondary prevention of osteoporosis for a 76-year-old female with a pathological fracture of her right hip?
- Discharge home with bisphosphonates, calcium and Vitamin D
- 8. What is osteogenesis imperfecta a disorder of?
- Collagen production
- 9. Which grading system is used for metastatic bone cancer?
- Mirel's classification
- 10. How is a metastatic malignant bone tumour managed?
- Staging prior to intervention