

Bones & Joints

- A 71 yr old woman present with sudden onset of severe lower back pain. Physical ex. reveals severe kyphosis, while an X-ray of her back reveals a compression fracture of a vertebral body in lumbar area along with marked thinning of bones. Serum Ca, P & $AlPO_4$ level are all within normal limits. Which of following is most imp factor in pathogenesis of this woman's bone pathology:

- a- High calcitonin levels.
- b- High prolactin level
- c- Low cortisol level
- d- Low estrogen level.
- e- Low thyroid hormone level.

- A 13 yrs old boy presents with slow enlarging lesion that involves the distal portion of right femur. X-ray reveals a large destructive lesion that focally lifts periosteum to form a large triangular shadow b/w the cortex & the raised end of periosteum (Codman triangle). Lab examination shows elevated serum $AlPO_4$ level. What is most likely diagnosis

- a- Osteosarcoma
- b- Paget's disease
- c- Osteoid osteoma
- d- Lymphoma
- e- Multiple myeloma

3. A 54 yrs old man presented with chronic knee pain.

Research reveals a chalky white deposits on surface of intra-articular. Histologic section reveals long needle shape -ve crystals. Diagnosis is:

a- Osteoarthritis

b- Rheumatoid arthritis

c- Onchranosis

d- Gout

e- Pseudo gout.

4. A 84 yr old boy presented with history of repeated frac. It shows abnormally loose joints, ved hearing & marked thinning of bones. Diagnosis is

a- Osteopetrosis

b- Osteoporosis

c- Osteomalacia

d- Osteogenesis imperfecta.

e- Osteitis deformans.

5. A 5 yr old boy present with acute onset of fever, chills throbbing pain over metaphysis of his left femur. X-ray of his left femur reveals a lytic focus of bone surrounding zone of sclerosis. Diagnosis is

a. Avascular necrosis.

b. Acute pyogenic osteomyelitis

- c- Potts disease
- d- Ch. osteomyelitis
- e- Osteitis deformans.

6- Which cells are major target of degenerative change in osteosarcoma.

- a- Chondrocytes
- b- Osteocytes
- c- Osteoblast
- d- Synoviocytes
- e- Osteoblasts

7- The most common organism responsible for pyogenic osteomyelitis.

- a- Staph. aureus.
- b- Klebsiella.
- c- TB
- d- Salmonella
- e- Streptococci

8- Most common malignant tumor of bone is

- a- Chondro-sarcoma
- b- Giant cell tumor
- c- Osteoarthritis.
- d- Histiocytoma
- e- Osteosarcoma.

9. In Rheumatoid arthritis synovial fluid is rich in

- a- IgM
- b- IgG
- c- IgA
- d- IgM & IgG
- e- IgM & IgA.

Blood

1. Hodgkin lymphoma is most lethal in following age group

- a- More than 25
- b- More than 35
- c- " " 15
- d- " " 45
- e- " " 55

2. Chances of Hodgkin lymphoma ↑ with history of following viral infection

- a- Cytomegalovirus
- b- Parvo virus
- c- HIV virus
- d- Epstein bar virus
- e- Paramyxo virus.