

Pathology MSK Final Revision

(Bone tumors)

1. All of the following are Benign tumor of bone EXCEPT?

- A) Osteoma
- B) Osteosarcoma
- C) Osteoid osteoma
- D) Osteoblastoma

2. In Osteoma which site is affected?

- A) pelvis
- B) Vertebrae
- C) Facial bones
- D) Metaphysis of long bone.

3. In Osteoid osteoma which site is affected?

- A) pelvis
- B) Vertebrae
- C) Facial bones
- D) Metaphysis of long bone.

4. In Osteoblastoma which site is affected?

- A) pelvis
- B) Vertebrae
- C) Facial bones
- D) Metaphysis of long bone.

5. In Osteosarcoma which site is affected?

- A) pelvis
- B) Vertebrae
- C) Facial bones
- D) Metaphysis of long bone.

1	2	3	4	5
B	C	D	B	D

6. Osteoma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) None of the above.

7. Osteoid osteoma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) None of the above.

8. Osteoblastoma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) None of the above.

9. Osteosarcoma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) None of the above.

10. Bone tumor that causes severe pain (tumor cells secrete Prostaglandin E2) relieved by aspirin.

- A) Osteoma
- B) Osteosarcoma
- C) Osteoid osteoma
- D) Osteoblastoma

6	7	8	9	10
C	B	B	A	C

11. Bone tumor that causes severe pain (tumor cells secrete Prostaglandin E2) NOT relieved by aspirin.

- A) Osteoma
- B) Osteosarcoma
- C) Osteoid osteoma
- D) Osteoblastoma

12. Bony mass < 2cm with radiolucent core (nidus)

- A) Osteoma
- B) Osteosarcoma
- C) Osteoid osteoma
- D) Osteoblastoma

13. The most common primary malignant tumor of bone

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

14. Characteristic sunray appearance and Codman triangle

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

15. Glassy eosinophilic appearance & lace-like pattern

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

11	12	13	14	15
D	C	B	B	B

16. Osteochondroma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) 30 - 60.

17. Chondroma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) 30 - 60.

18. Chondrosarcoma occurs at the age of

- A) 10 - 20 Y
- B) 10 - 30 Y
- C) 40 - 50 Y
- D) 30 - 60.

19. The most common Benign tumor of bone

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Osteochondroma

20. In Osteochondroma which site is affected?

- A) Pelvis, shoulder and ribs
- B) Medullary cavity of small bones of hands and feet
- C) Facial bones
- D) Metaphysis of long bone.

16	17	18	19	20
B	B	D	D	D

21. In Chondroma which site is affected?

- A) Pelvis, shoulder and ribs
- B) Medullary cavity of small bones of hands and feet
- C) Facial bones
- D) Metaphysis of long bone.

22. In Chondrosarcoma which site is affected?

- A) Pelvis, shoulder and ribs
- B) Medullary cavity of small bones of hands and feet
- C) Facial bones
- D) Metaphysis of long bone.

23. Benign cartilage-capped tumor that is attached to the underlying skeleton by a bony stalk

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Osteochondroma

24. A mass < 3cm Composed of well-circumscribed nodules of hyaline cartilage containing benign chondrocytes

- A) Ewing sarcoma
- B) Chondroma
- C) Chondrosarcoma
- D) Osteochondroma

25. The second most common primary malignant tumor of bone

- A) Ewing sarcoma
- B) Chondroma
- C) Chondrosarcoma
- D) Osteochondroma

21	22	23	24	25
B	A	D	B	C

26. Large mass with "Popcorn calcification" seen using radiology

- A) Ewing sarcoma
- B) Chondroma
- C) Chondrosarcoma
- D) Osteochondroma

27. In Giant Cell Tumor which site is affected?

- A) Pelvis, shoulder and ribs
- B) Epiphysis of long bones
- C) Diaphysis of long bone
- D) Metaphysis of long bone.

28. In Ewing Sarcoma which site is affected?

- A) Pelvis, shoulder and ribs
- B) Epiphysis of long bones
- C) Diaphysis of long bone
- D) Metaphysis of long bone.

29. Expanding lesion with Soap Bubble appearance

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

30. The second most common bone sarcoma in children

- A) Ewing sarcoma
- B) Chondroma
- C) Chondrosarcoma
- D) Osteochondroma

26	27	28	29	30
C	B	C	D	A

31. Destructive lytic tumor with reactive bone deposited in an onion-skin fashion

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

32. Homer-Wright rosettes is seen in

- A) Ewing sarcoma
- B) Osteosarcoma
- C) Chondrosarcoma
- D) Giant cell tumor

33. In multiple myeloma which site is affected?

- A) pelvis
- B) Vertebrae
- C) Skull
- D) All of the above.

34. The most common bone tumor at all

- A) Ewing sarcoma
- B) Secondary bone tumors
- C) Chondrosarcoma
- D) Osteosarcoma

35. Most bone metastases are osteolytic EXCEPT

- A) Cancer lung
- B) Cancer breast
- C) Cancer prostate
- D) Cancer brain

31	32	33	34	35
A	A	D	B	C

Written Q

☒ Describe clinical picture of osteoma.

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☒ Enumerate Genetic mutations of Osteosarcoma.

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☒ Enumerate Genetic mutations of Chondrosarcoma.

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☒ Enumerate Genetic mutations of Ewing Sarcoma.

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☒ Describe clinical picture of multiple myeloma. (CRAB)

C:.....
R:.....
A:.....
B:.....

☒ Mention 2 tumors and their characteristic radiological appearance.

Tumor	characteristic radiological appearance