

Fibrous Dysplasia

Eosinophilic granuloma
Enchondroma

Giant Cell Tumor

NOF

Osteoblastoma

Metastasis Myeloma

ABC

SBC

Hyperparathyroidism

Infection

Chondroblastoma
CMF

Any age, no periosteal reaction

Age under 30

Calcified matrix (except in phalanges)

Epiphysis closed, epiphyseal location
abuts articular surface, nonsclerotic margin

Age under 30, juxtacortical

Like ABC, located in spine

Age over 40

Age under 30, expansile

Age under 30, centrally

Other signs of hyperparathyroidism

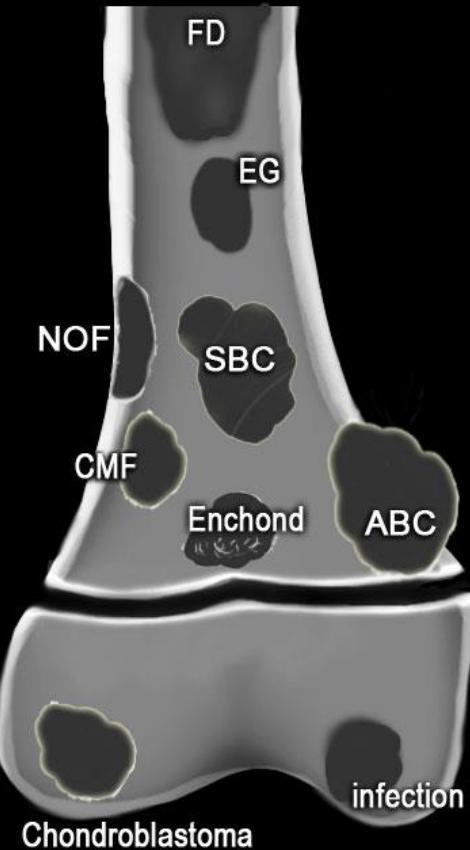
Always included in differential

No calcified matrix

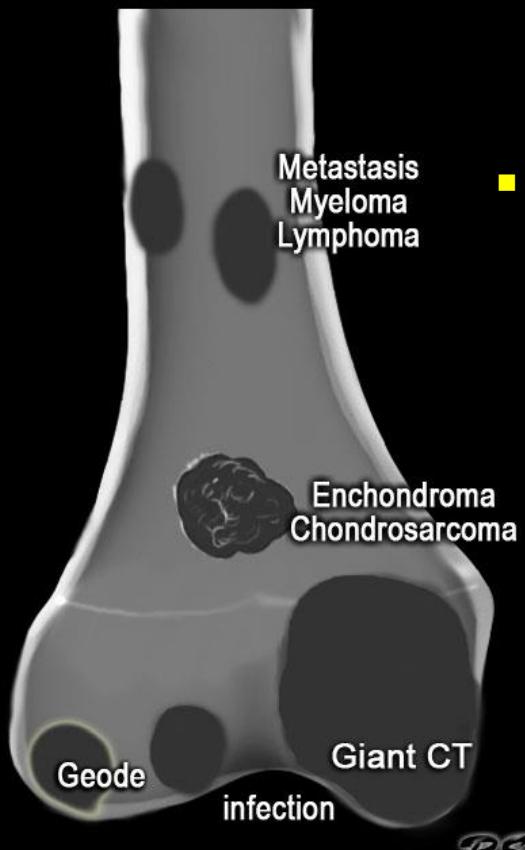
Mention when considering NOF

- ABC = Aneurysmal bone cyst
- CMF = Chondromyxoid fibroma
- EG = Eosinophilic Granuloma
- GCT = Giant cell tumor
- FD = Fibrous dysplasia
- HPT = Hyperparathyroidism with Brown tumor
- NOF = Non Ossifying Fibroma
- SBC = Simple Bone Cyst

< 30 years



> 30 years



Abbreviations used:

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Age	Well-defined	ill-defined	Sclerotic
0 - 10	EG SBC	EG - Ewing Osteosarcoma Leukemia	Osteosarcoma
10 - 20	NOF, Osteoblast Fibr dysplasia EG SBC ABC Chondroblast CMF	Ewing EG Osteosarcoma	Osteosarcoma Fibr dysplasia EG Osteoid osteo Osteoblastoma
20 - 40	Giant CT Enchondroma Chondrosarcoma (low grade) HPT - Brown tumor Osteoblastoma	Giant CT	Enchondroma Osteoma Bone island Parosteal Osteosar Healed lesions: - NOF, EG - SBC, ABC - Chondroblast
40+	Metastases Myeloma Geode	Metastases Myeloma Chondrosarcoma (high grade)	Metastases Bone island
All ages	Infection	Infection	Infection

Well-defined Osteolytic		
Eccentric GCT	Centrally SBC	Must be < 30 EG - ABC - NOF SBC Chondroblastoma
Epiphyseal Chondroblastoma GCT Geode, infection		Age > 40 metastasis myeloma geode, infection
Exclude if periostitis Fibrous Dysplasia NOF, SBC Enchondroma	Ca++ Enchondroma Low grade chondros Osteomyelitis Eosinophilic granul Mets (breast)	Multiple FD, EG mets, myeloma enchondroma Hyperparathyroidism Infection