

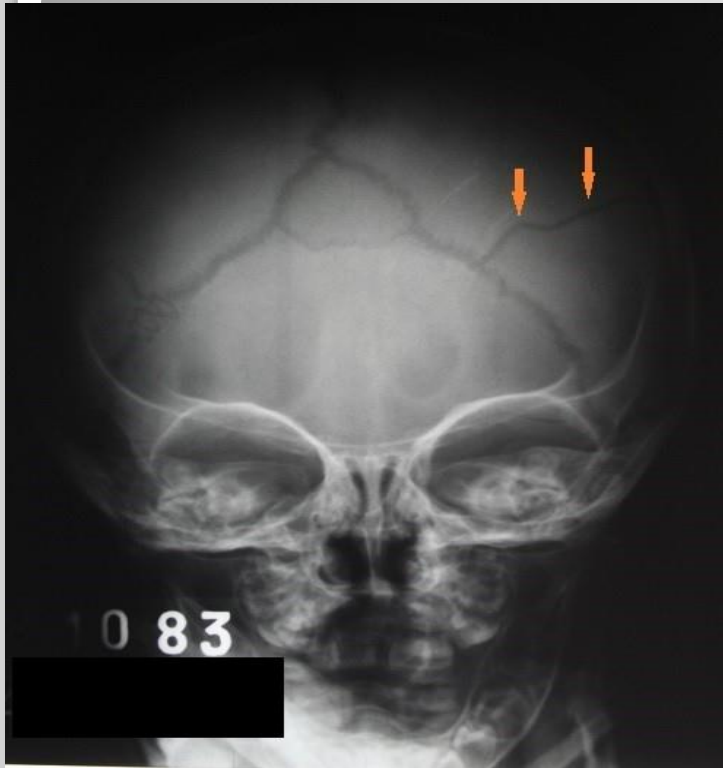
# Musculoskeletal system

بسم الله الرحمن الرحيم



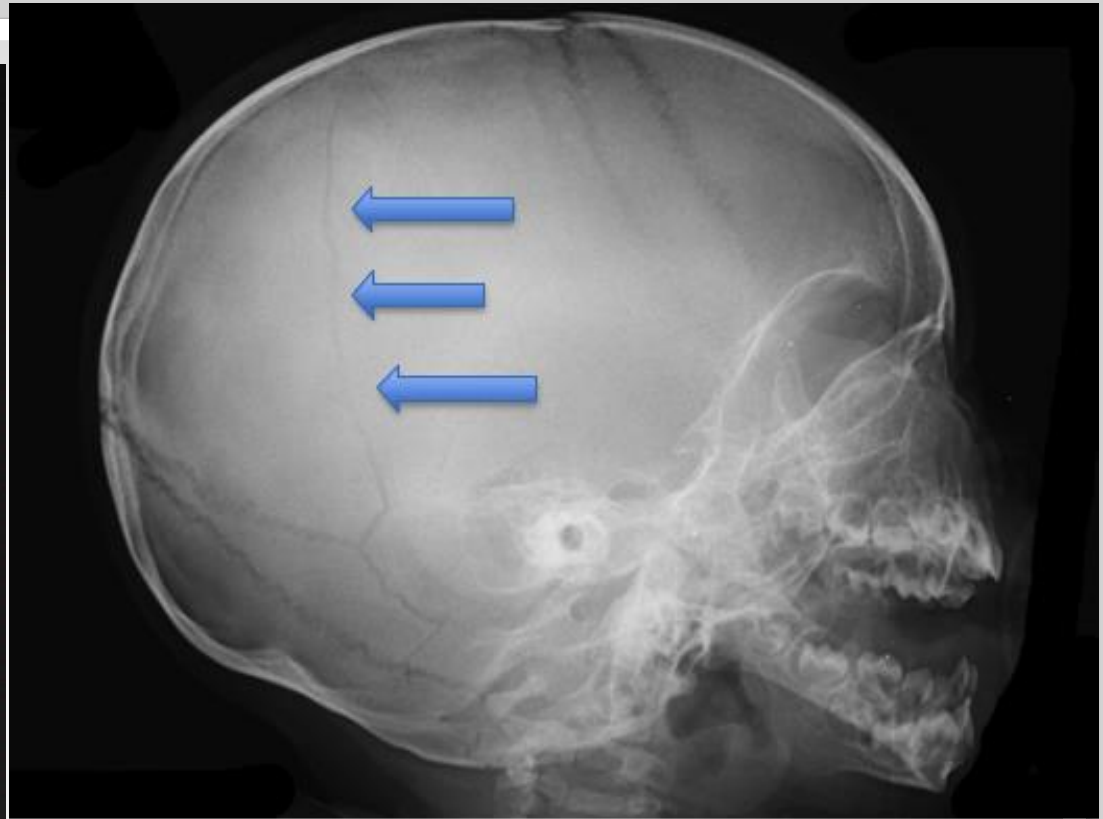
**Description :-** X ray of hands(Ap) view showing presence of extra number of digits.

**Diagnosis :-**polydactyly



**Description**:-X ray of skull showing linear stress line passing from coronal suture.

**Diagnosis** :-skull fracture



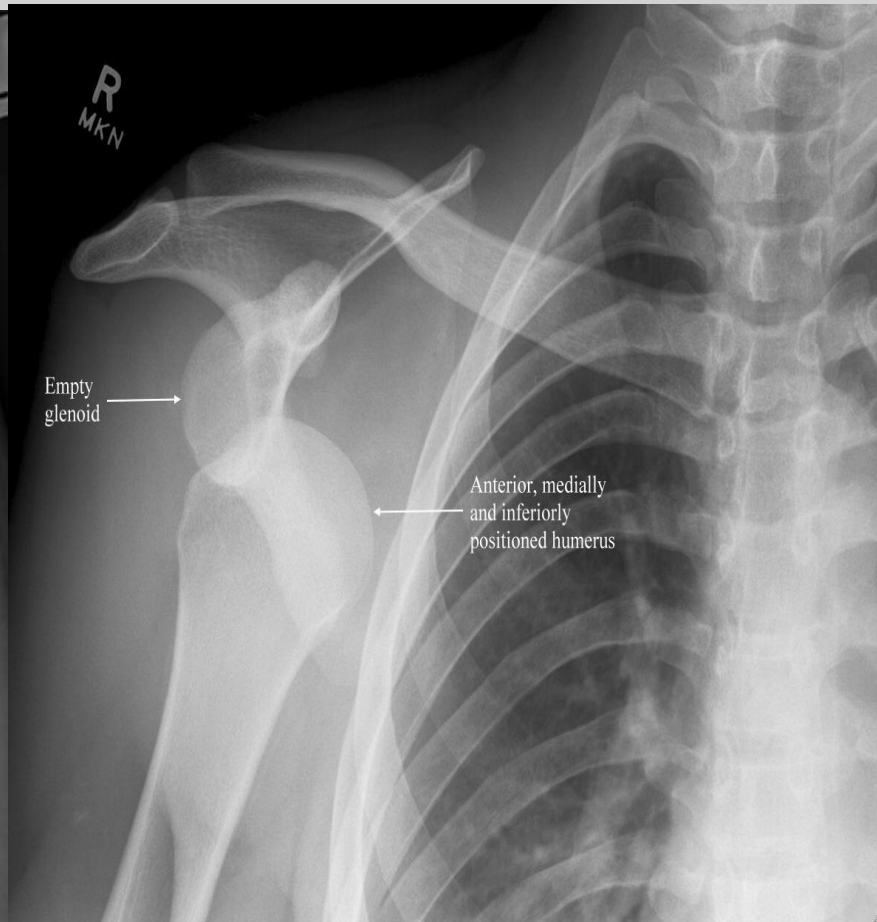
**Description** :-X ray of skull showing linear stress line passing from sagittal suture .

**Diagnosis** :-skull fracture .



**Description :-X ray of spines(AP & lateral views)showing burst out L2 vertebra.**

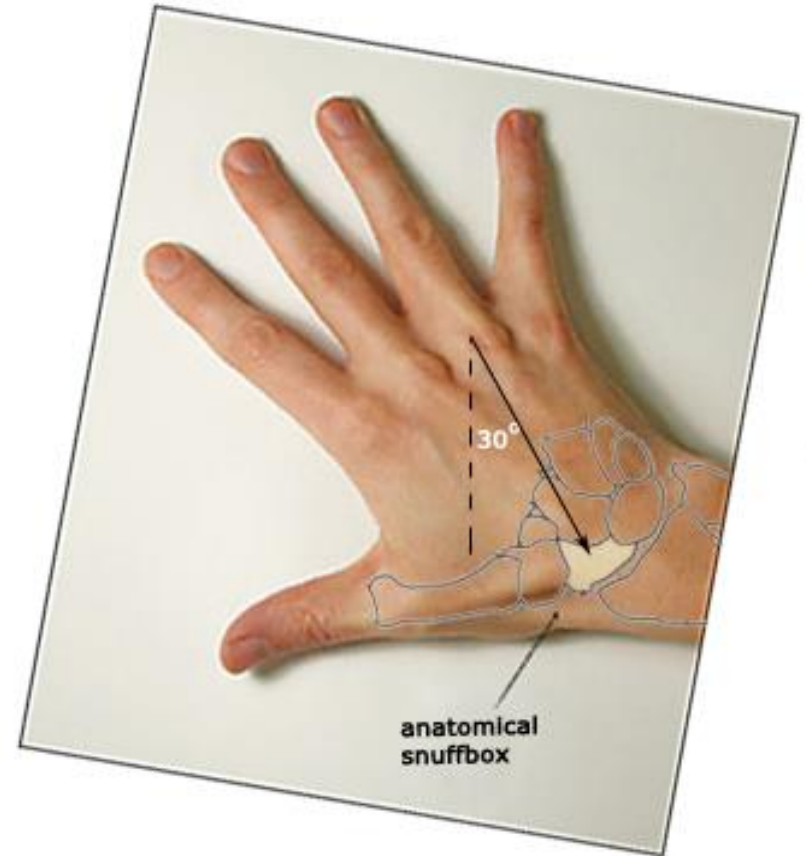
**Diagnosis :-vertebral fracture .**



**Description:-**X ray of shoulder joint showing downward medially displacement of head of humerus from glenoid cavity

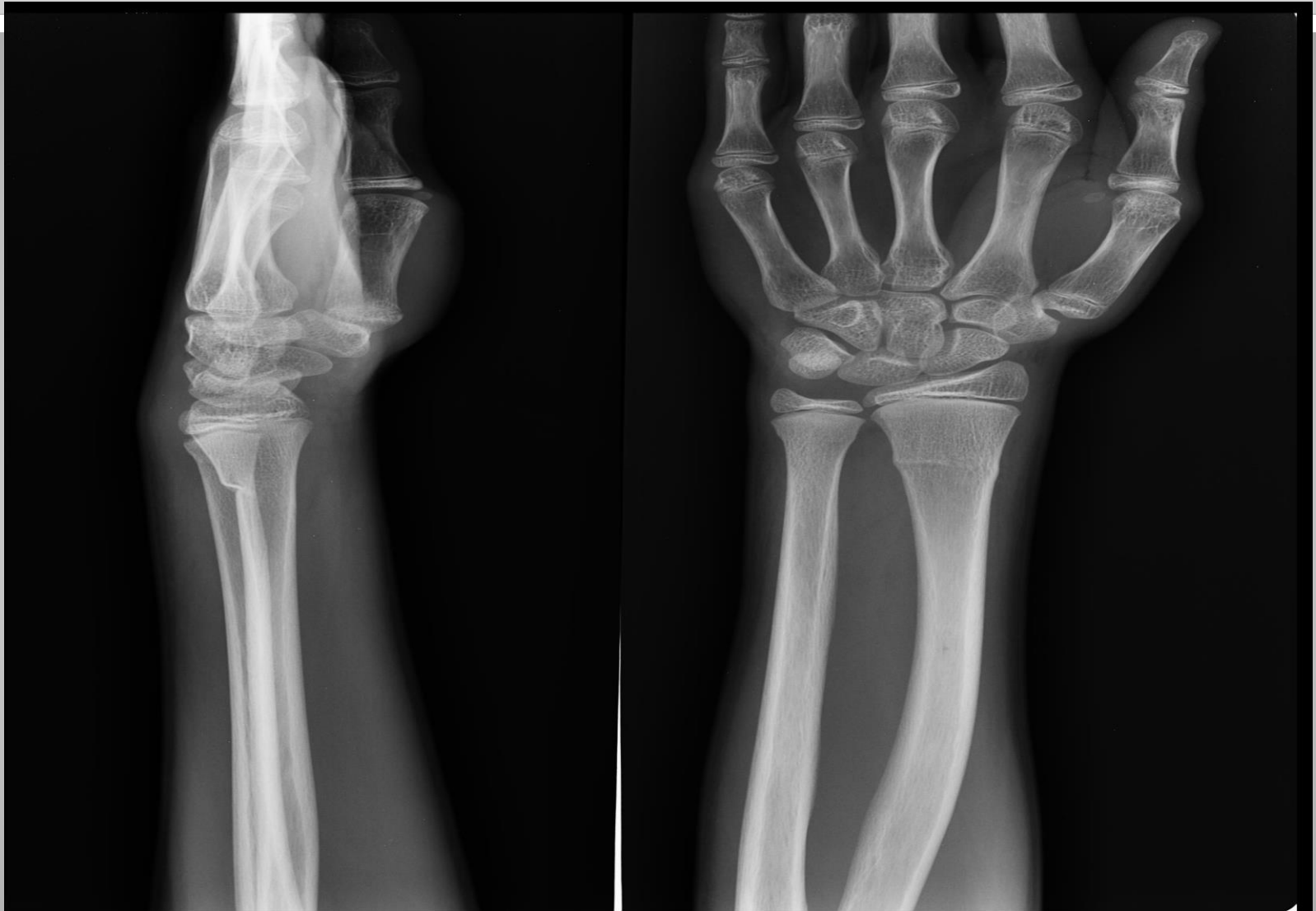
**Diagnosis:**anterior shoulder dislocation.





**Description** :-X ray of wrist joint,showing transverse linear line through scaphoid bone.

**Diagnosis**:-scaphoid fracture .



**Description :-**X ray of forearm of child(AP )&lateral views showing green stick fracture of distal end of radius .

**Diagnosis:-** fracture of radius.



Description :-X ray of pelvis showing linear line in femoral neck with impaction.

Diagnosis:- fracture of femoral neck



Description :-X ray of pelvis showing linear line in femoral neck with impaction.

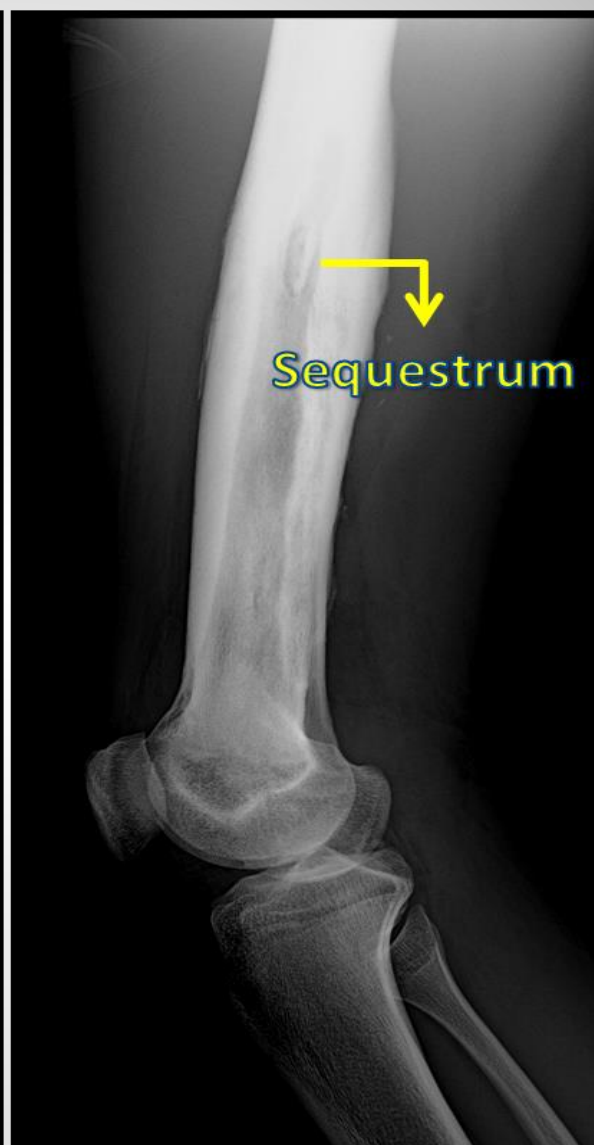
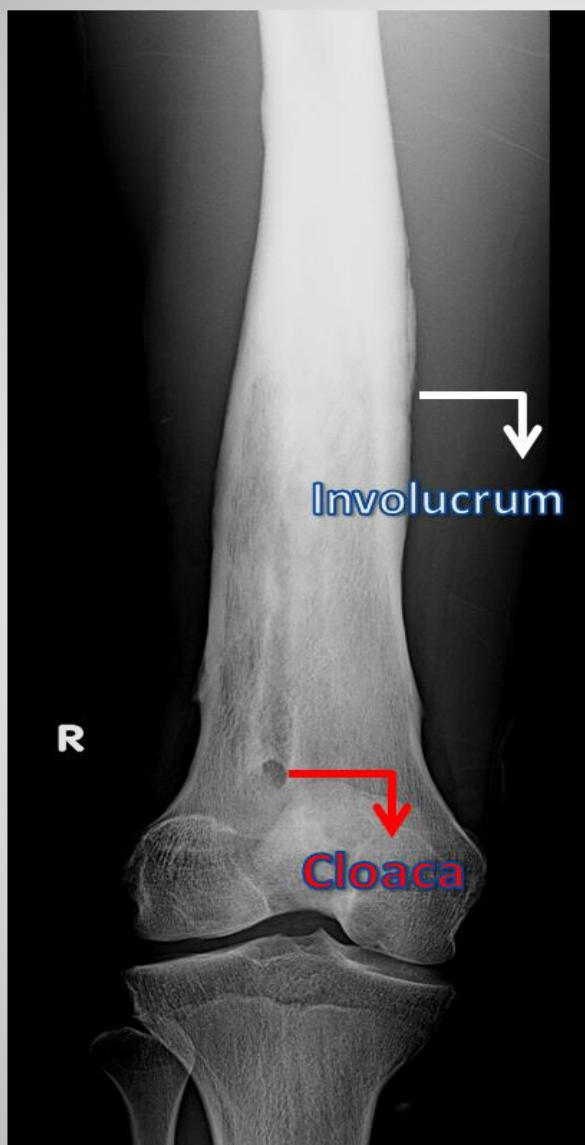
Diagnosis:-pathological fracture of femoral neck





**Description** :-X ray of leg,showing area of rarefaction (moth eaten appaearance ) in upper 1/3 of tibia.

**Diagnosis**:-acute osteomyelitis.

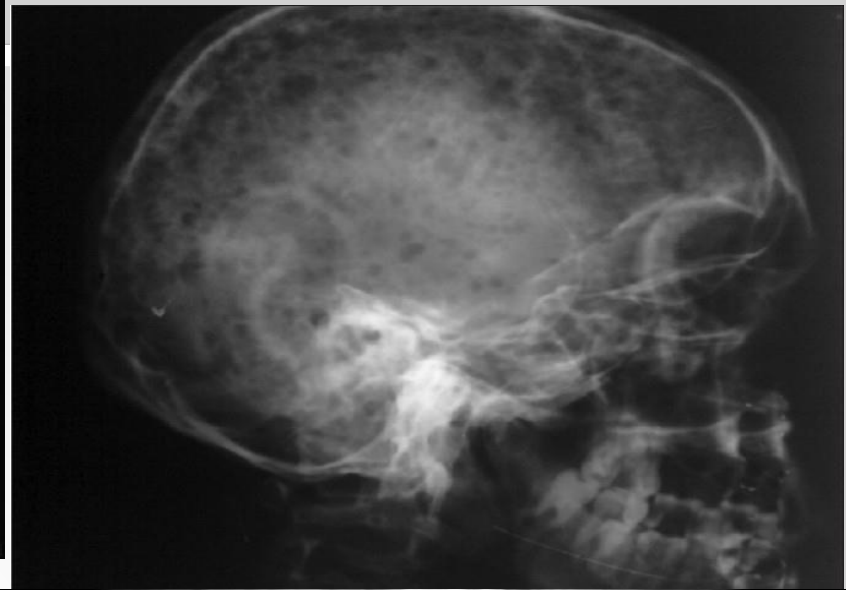


**Diagnosis :-chronic osteomyelitis**



**Description** :-x ray of spine (AP & lateral views) showing irregular area of destruction in vertebral end plates of contiguous vertebrae with sclerosis & partial wedging deformity.

**Diagnosis**:-T.b of spine.



**Description :-**X ray of skull showing multiple osteolytic lesions in the skull with characteristic rain drops appearance.

**Diagnosis**Multiple myeloma or secondary metastasis



**Description :-** X ray of wrist joint showing cupping, fraying & splaying between distal bone ends (radius & ulna).

**Diagnosis:-** rickets



**Description :-** X ray of chest showing widening of anterior end of ribs in the point of their meeting with costal cartilages with characteristic cupping, fraying & splaying between distal bone ends

**Diagnosis :-** rachitic rosary





**Description :-X ray of spine showing multiple cod fish vertebrae (biconcave appearance).**  
**Diagnosis :-osteomalacia.**

**Description :-X ray of pelvis showing triradiate pelvis deformity(inward invagination of pelvic walls) with invagination of both femoral heads.**  
**Diagnosis :- osteomalacia.**



**Description :-X-ray of spine showing multiple lines of increased bone density across vertebral end plate(Rugger jersey spine)**  
**diagnosis :-renal osteodystrophy.**



**Description :-x ray of lower limbs showing overall decrease bone density.**

**Diagnosis :-osteogenesis imperfecta.**



**Description** :-multiple x ray of hands ,skull&ribs;showing overall increase bone density.

**Diagnosis** :-osteopetrosis .



**Diagnosis :-osteopetrosis**





**Description** :-X ray of skull showing hair on end appearance .  
**Diagnosis**:-thalassemia.





**Description** :-X ray of spine showing bullet like vertebrae .

**Diagnosis** :-achondroplasia



**Description** :-X ray of pelvis showing shortening of femur with flaring & peaking of distal metaphysis.

**Diagnosis**:-achondroplasia



Description :-x ray of skull showing multiple intrasutural bones in the lambdoid suture .

Diagnosis :-wormian bone



Description :-X ray of skull showing copper beaten appearance.

Diagnosis :-craniosynostosis.



**Description :-** X ray of skull showing

**1-frontal bossing**

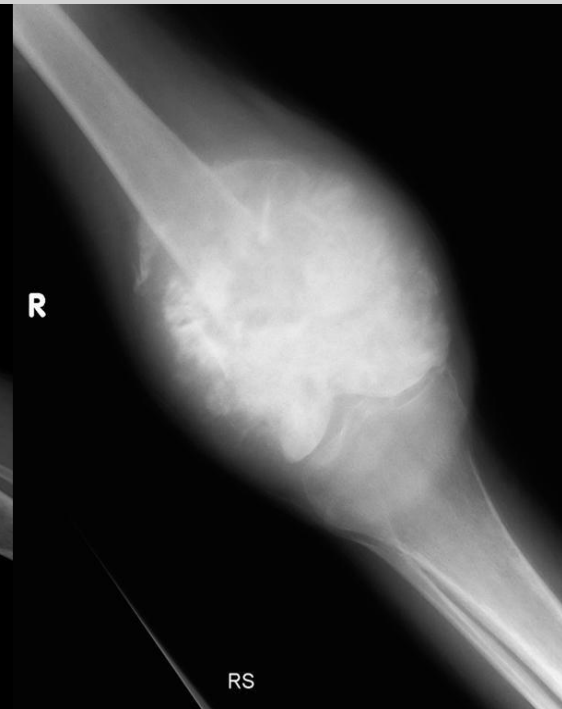
**2-prognathism**

**3-ballooning of sella turcica.**

**4-thickening of outer vault of skull.**

**5-occipital tubercle thickening.**

**Diagnosis :-** acromegaly



**Description :-** X ray of humerus showing a rather well defined lesion affecting the distal limb part with cortical & medullary involvement & periosteal reaction (sun ray speculation) with Codman's triangle surrounded by soft tissue swelling.

**Diagnosis:** osteosarcoma







**Description :-**Expansile lytic lesion with Cortical destruction.

**Sun ray speculation(periosteal reaction)**

**Soft tissue swelling**

**Elevation of the cortical margin forming(codman's triangle)**

**diagnosis :-** osteosarcoma



**Description :-x-ray of the upper limb / AP view / showing ill-defined destruction with onion peel appearance and periosteal reaction.**

**DDx: Ewing sarcoma (center of diaphysis – 5-15 years) & osteochondroma (metadiaphysis – above 20 years).**

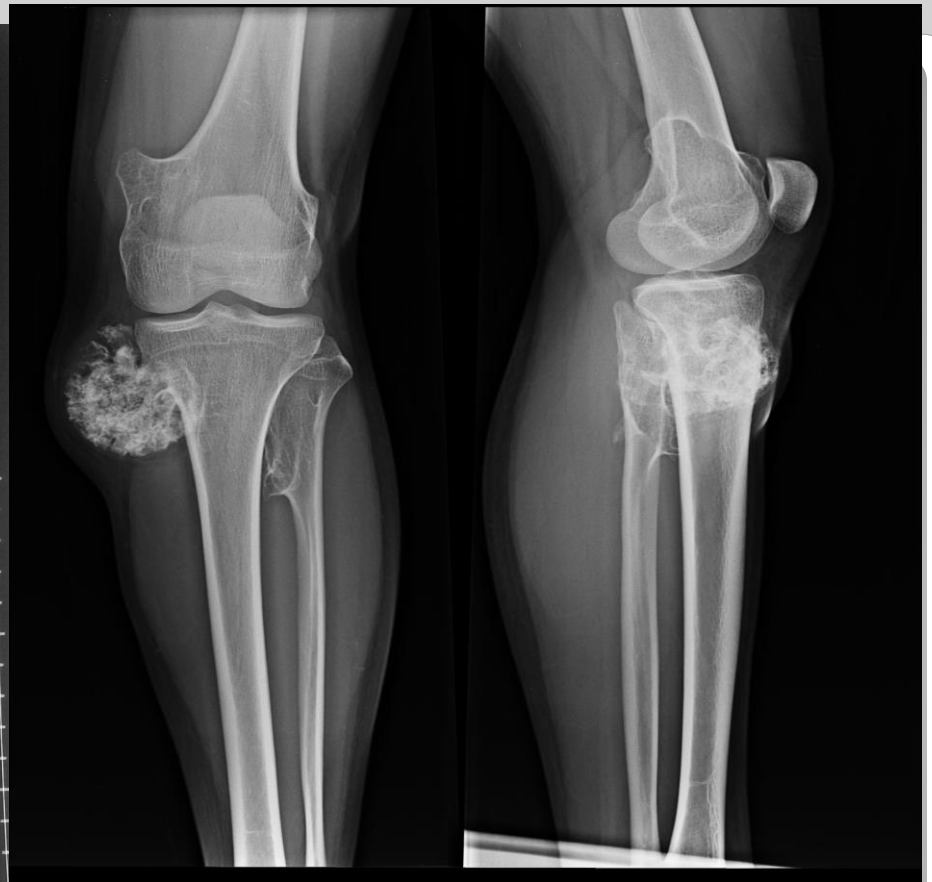


**Description :-x-ray of the wrist / AP view / showing expansile lytic lesion, subarticular in position with intact cortex giving the soap bubbles appearance / mostly at wrist and knee**  
**Diagnosis: Giant cell tumor.**



**Description :-x-ray of the knee / AP and lateral view / showing bony projection from the distal lateral aspect with wide pedicle directed away from the joint / Diagnosis: osteochondroma.**





**Description** :-x-ray of the knee / AP and lateral view / showing multiple exostosis and calcification of the cap . **Diagnosis**:- diaphyseal aclasia.





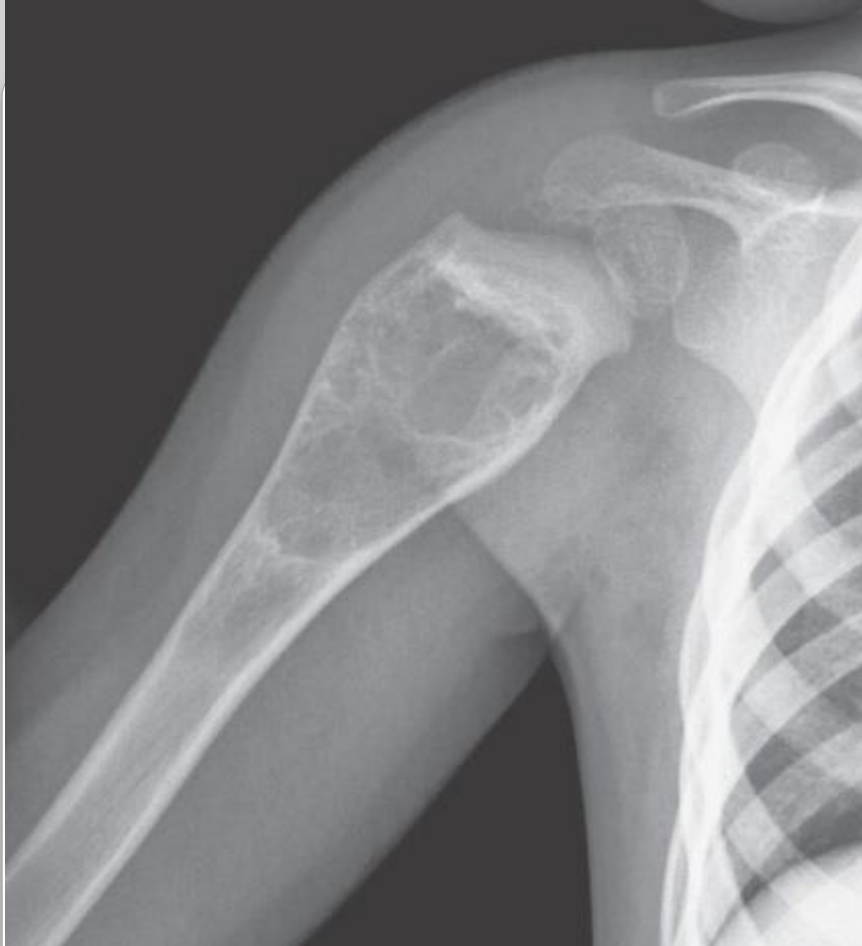
Description :-x-ray of hand / AP view / showing multiple Enchondromas

Diagnosis :-ollier's disease



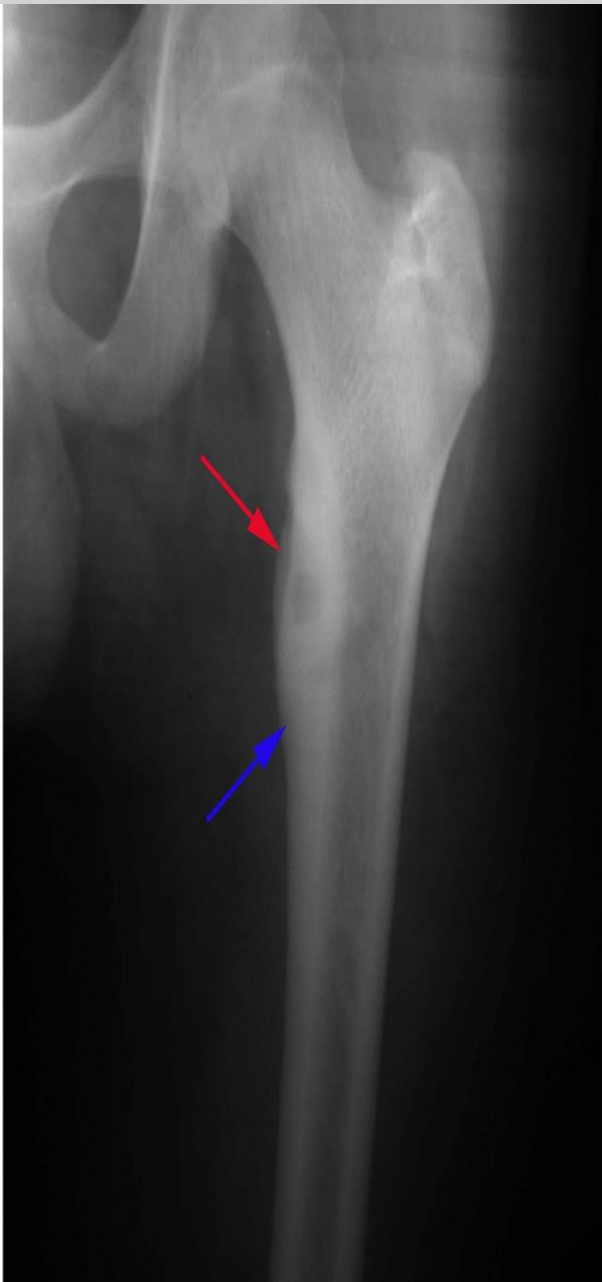
Description :-x-ray of the fingers / AP view / showing well defined lesion, expansile lytic inside the phalagus with intact cortex

Diagnosis: enchondroma.



**Description :-x-ray of the humerus / AP view / showing expansile lytic lesion affecting metadiaphysis of the proximal humerus with thinning and intact cortex**

**Diagnosis: simple bone cyst.**



**Description :-**x-ray of femur / AP view / showing lucent area (nidus) surrounded by sclerotic rim

**Diagnosis:** osteoid osteoma.



**Description :-x-ray of lumbar and cervical spine / lateral view / showing narrowing of joint space and osteophyte projection from upper and lower aspect of the vertebral end plate and subchondral sclerosis**

**Diagnosis: osteoarthritis of the spine called spondyloarthropathy.**

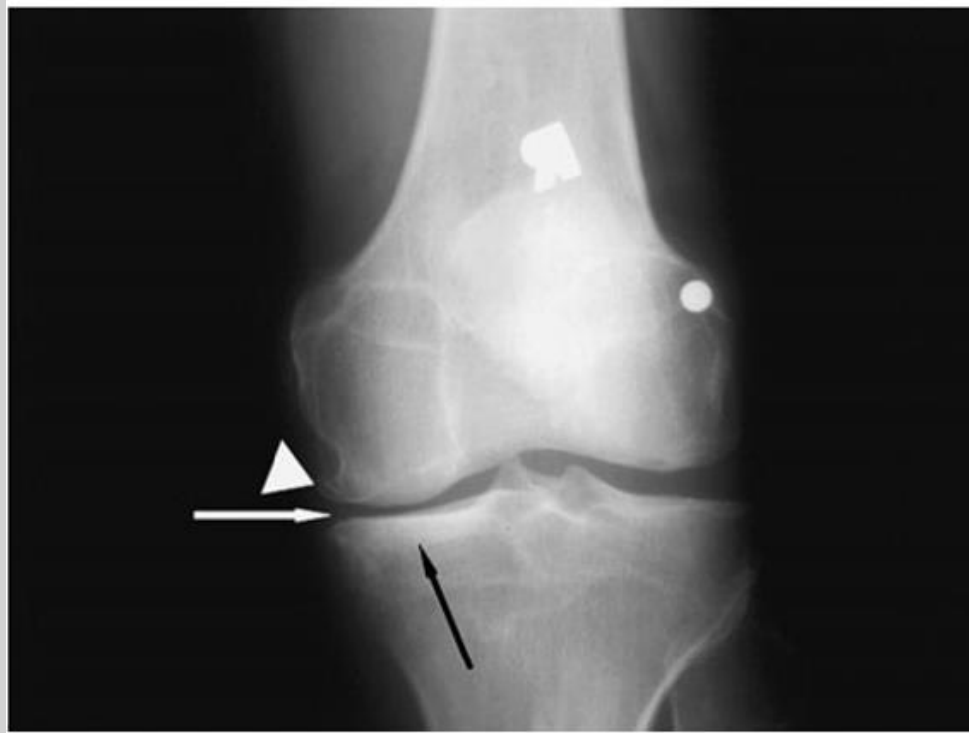


Figure 1



Figure 2

**Description :-x-ray of knee joint / AP view / showing reduction of joint space, osteophyte, elongation of tibia spine, subchondral sclerosis**

**Diagnosis: osteoarthritis.**





**Description :-x-ray of the hand / AP view / showing erosions of DIP and PIP with gull wing pattern and interphalangeal fusion**

**Diagnosis: erosive osteoarthritis.**



**Description :-x-ray of the hand / AP view / showing periarticular erosion with destruction and narrowing of whole MCP joint + juxta-articular osteoporosis + soft tissue swelling + subluxation**

**Diagnosis: rheumatoid arthritis.**



**Description :-x-ray of the pelvis / AP view / showing both sided ankylosis of the sacro-iliac joint.**

**Diagnosis:- ankylosing spondylitis.**



**Description :-x-ray of spine / AP and lateral view / showing clear bamboo spine**

**Diagnosis: ankylosing spondylitis.**





**Description :-x-ray of the foot / AP view / showing periarticular erosion and destruction of MTP joint and soft tissue tophi**

**Diagnosis:- gout.**



Nothing 😊



**Description :-x-ray of the pelvis / AP view / showing mushroom deformity and flattening and dense appearance of the epiphysis**

**Diagnosis: perthe's disease.**



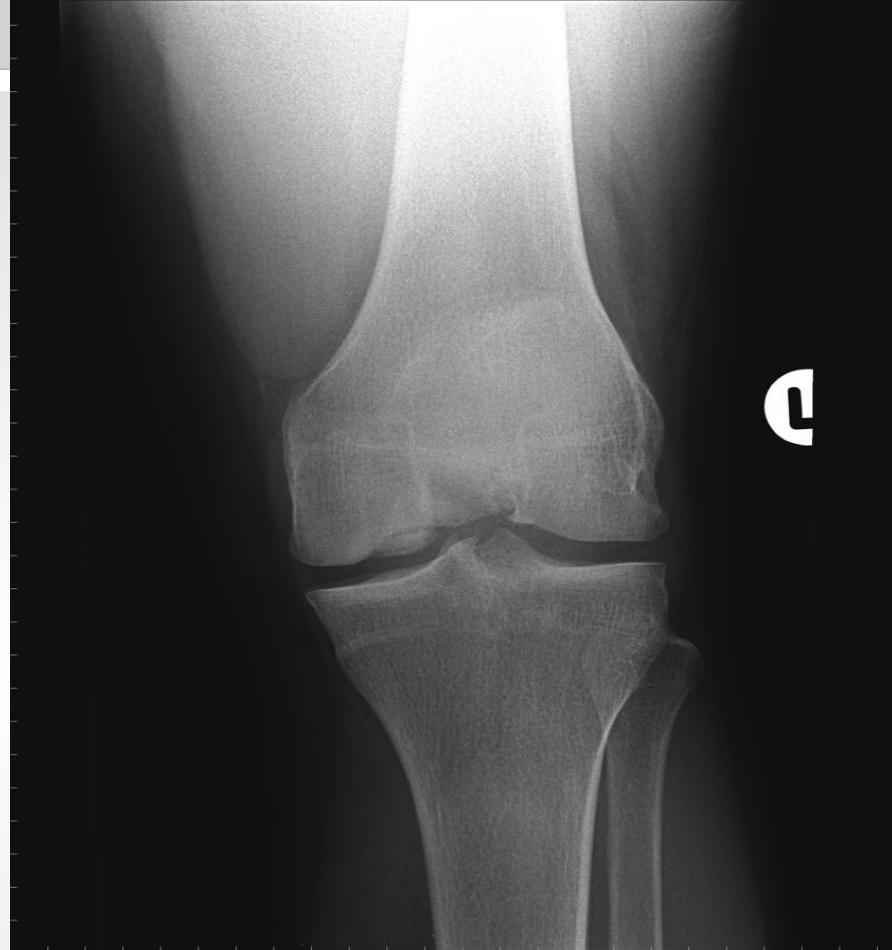
**Description :-x-ray of the foot / AP, lateral, oblique view / showing hyperdense disk like appearance of navicular bone**

**Diagnosis: Kohler's disease.**



**Description :-x-ray of the knee / lateral view / showing osteochondrosis of the tibial tubercle**

**Diagnosis: Osgood schlatter.**



**Description :-**x-ray of the knee / AP view / showing rather well defined small seperated part of the distal medial aspect of the femur

**Diagnosis:-** osteochondritis dissecans.





**Description :-x-ray of the pelvis / AP view / showing shentine's and perkin's lines.**



**Description :-x-ray of the pelvis / AP view / showing disturbances of shentine line with displacement of femoral head superiolaterally with shallow acetabulum**  
**Diagnosis: DDH.**



**Description :-x-ray of the pelvis / AP view / showing displacement of femoral head superiolaterally with shallow acetabulum and psuedoarticulation**

**Diagnosis :- neglected DDH in adult.**