

Basic Imaging Cheat Sheet by Siffi (Siffi) via cheatography.com/122609/cs/22877/

Radiological Terminology	
Lytic	Bone loss/destruction (blacker)
Blastic/Sclerotic	Bone production (whiter) - blotches
Artefact	Anything that obscures/distorts the image - patient clothing, image noise
Coalition	Congenital fusing of two bones
Disarticulation	Disconnection of limb from the body through the joint
Congruent	Joint that is not dislocated
Involucrum	Caused by osteomyelitis - thick shealth of periosteal new bone surrounding a sequestrum
Sequestrum	Calcification within a lucent lesion, separated from the surrounding bone
Monomelic	Condition that is confined to one limb
Monostatic	Condition that involves one bone
Polystotic	Condition that involves multiple bones
Agenesis	Failure of growth of an organ - congenital
Aplasia	Absence of development of a structure/organ
Gold Standard	Best test for the best diagnosis of a disease
Subclinical disease	Asymptomatic
Cloaca	Osteomyelitis - drainage hole

X-Ray	
Strengths	Weaknesses
Relatively Inexpensive	No soft tissue details
Widely available	Cannot detect loss of bone mass unless severe (30-50%)
Bone pathologies - f#, tumour, arthritis, osteomyelitis, bone disease	Cannot detect bone marrow changes/oedema
Assess orthopaedic hardware	lonising radiation
Terminology used in x-ray images:	

Radiolucent: black Radio-opaque: White

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Strengths	Weaknesses			
2D + 3D images	Uses ionising radiation			
Complex fractures - especially of flat bones + spine	Cannot show bone marrow changes/oedema			
Assess for fracture healing				
Postop - degree of fusion/hardware complications				

Bone window: assesses cortical bone - makes bone appear more grey

Soft tissue window: Assesses soft tissues, soft tissue appears more detailed, bony appears more bright

Hyperdense: White Hypodense: Black



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MRI	
Strengths	Weaknesses
Excellent for soft tissues	Expensive
Bone Marrow/oedema	May require further imaging
Non-ionising radiation	Claustrophobic patients
T1: Fat is high signal - MRI shut off quickly	

T1: Fat is high signal - MRI shut off quickly

T2: Water is high signal - MRI shut off after a long period of time STIR: Fat suppression, fluid is high signal - good for oedema.

Ultrasound			
Strengths	Weaknesses		
Anatomic + Dynamic functional evaluation of MSK tissues	Operator dependant		
Determines whether mass is Cystic/Solid nature	Superficial structures only		
Vascularity of a lesion (Doppler)			
Real time guidance for percutaneous procedures			
Foreign body detection			
Hyperechoic: White			
Hypoechoic: Black			



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