Cheatography

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		

Weaknesses				
No soft tissue details				
Cannot detect loss of bone mass unless severe (30-50%)				
Cannot detect bone marrow changes/oedema				
lonising radiation				
Terminology used in x-ray images:				

Radiolucent: black

Radio-opaque: White

СТ	
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		We	Weaknesses		
Excellent for soft tissues			Expensive		
Bone Marrow/oedema		Ма	May require further imaging		
Non-ionising radiation			Claustrophobic patients		
T2: Water i	igh signal - MRI shut off quickly s high signal - MRI shut off after a suppression, fluid is high signal - g	01			
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 g	juidance for percutaneous proced	ures			
Foreign bo	dy detection				
Hyperechoi Hypoechoid					
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