

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

unless severe (30-50%)
ges/oedema
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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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Page 1 of 2.

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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		
T2: Water is high signal - MRI shut off after a long period of time		

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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