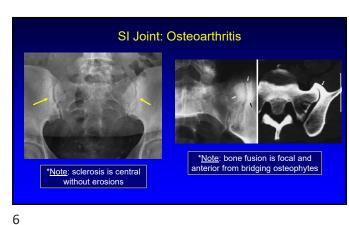


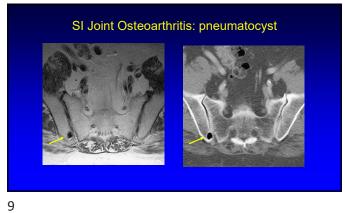
SI Joints: axial plane Superior Anterior aspect is nearly all synovial Posterior: inferior 1/3 is synovial Inflammatory conditions diffusely involve the synovial aspect

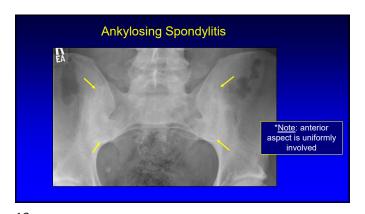
3 4

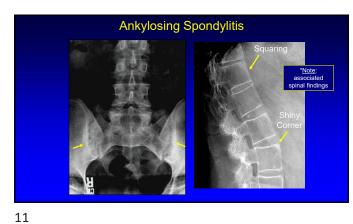
SI Joint Pathology: radiography Osteoarthritis: -Focal sclerosis: middle (anterior) aspect Inferior osteophytes Inflammation: Diffuse sclerosis -Erosions: look inferior where joint is in profile - If unilateral: exclude septic joint





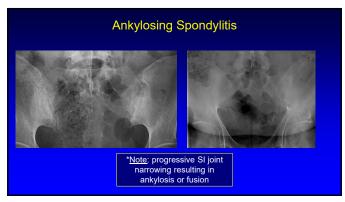






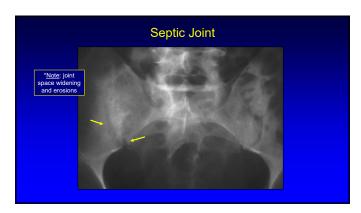
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Osteitis Condensans Ilii Degenerative / mechanical Females Associated symphysis pubis abnormalities Characteristic appearance: Triangle-shaped Inferior aspect of ilium Uncommonly sacral

MRI: sacroiliitis

• Focal bone marrow edema:

- Earliest sign of erosion

- Very non-specific in isolation

• Most accurate:

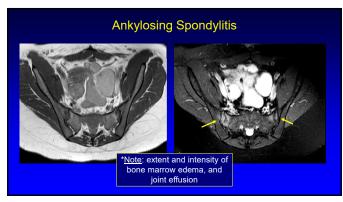
- Diffuse subchondral marrow edema

- Joint effusion

- Erosion: difficult to see, consider CT

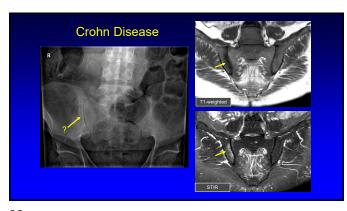
- *IV gadolinium not needed for diagnosis

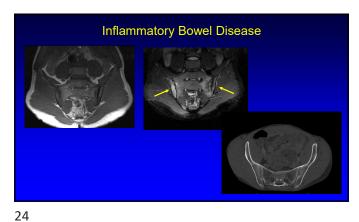
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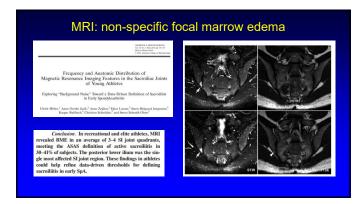


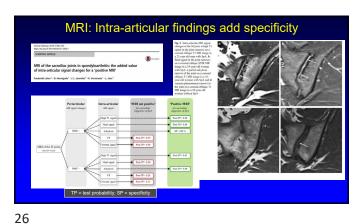
Ankylosing Spondylitis: CT

19 21

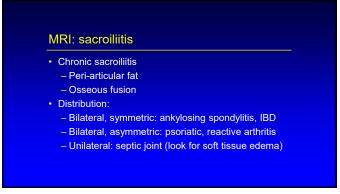




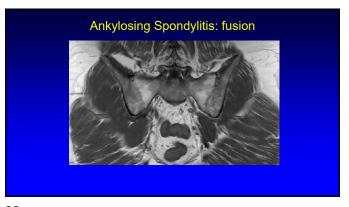




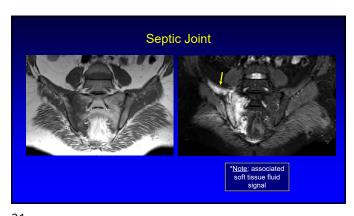
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Take Home Points Synovial aspect of SI joint is not just the lower 1/3 Joint inflammation is a diffuse process (not focal) Bone marrow edema is not specific — If focal — Without intra-articular findings Unilateral SI joint inflammation + soft tissue edema = septic joint MRI very sensitive, CT specific (erosions)



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