

Top 5 tips: Psoriatic arthritis

Arthritis Subcommittee



ESSR EUROPEAN SOCIETY OF
MUSCULOSKELETAL
RADIOLOGY

Psoriatic arthritis(PsA)

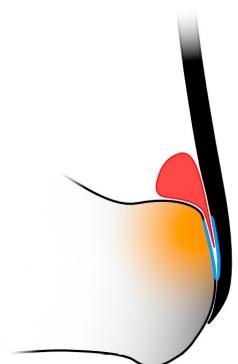
- Inflammatory musculoskeletal disease associated with cutaneous psoriasis
- The prevalence of psoriasis is 2–4% in Western adults while 20–30% of patients with psoriasis will develop PsA
- It is under the umbrella-term of spondyloarthritis
- 10–15% of patients develop arthritis **prior** to psoriasis
- CASPAR classification criteria*
- Gender: Men = women
- Age: 40-50 years
- Affected systems: peripheral & axial joints, entheses, skin, & nails
- Comorbidities: cardiovascular disease, osteoporosis, uveitis, and subclinical bowel inflammation

***CASPAR criteria (minimum score of 3)**

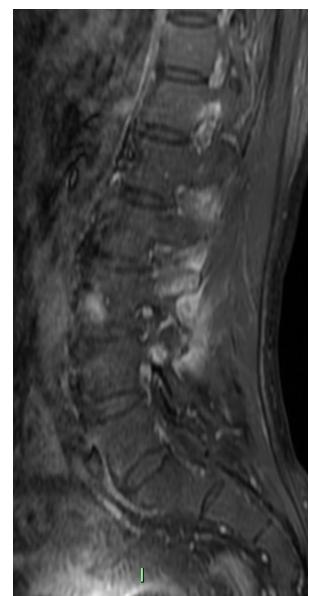
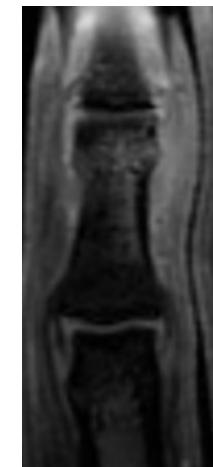
Current/history of psoriasis
Psoriatic nail dystrophy
Negative rheumatoid factor
Current/history of dactylitis
Radiographic juxta-articular new bone formation

Tip#1: Enthesitis

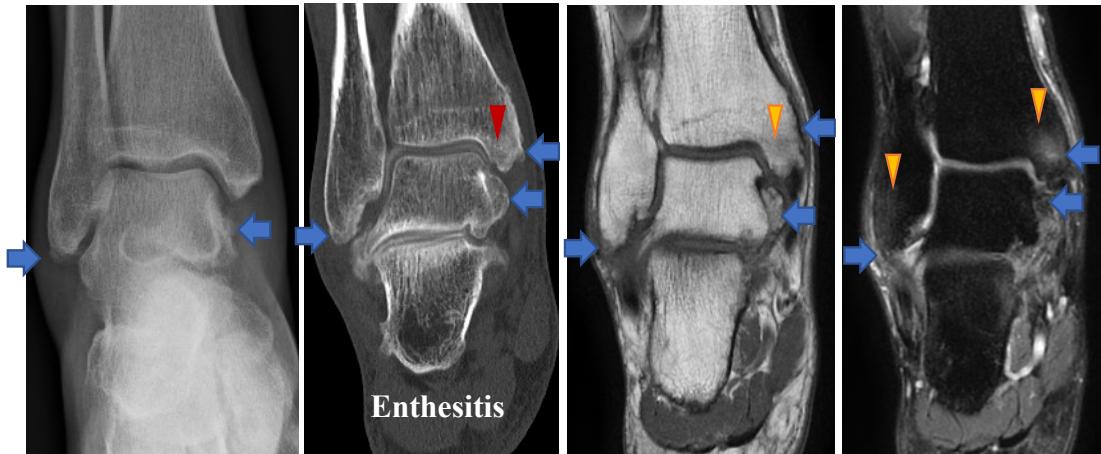
- Enthesitis is a characteristic feature of PsA
- It almost always occurs at fibro-cartilaginous attachments
- Enthesitis of the axial & appendicular skeleton is the key in psoriatic arthritis
- “Enthesis organ concept”: Inflammation occurs **not only** at the enthesis **but also** in neighboring tissues



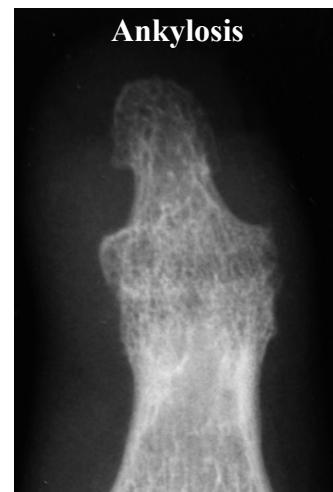
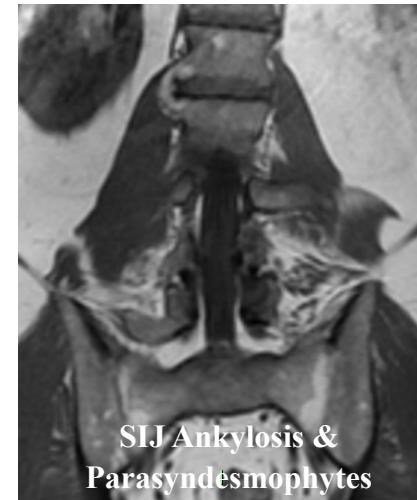
- = Achilles tendon
- = Fibrocartilage
- = BME
- = Bursitis



Tip#2: New bone formation

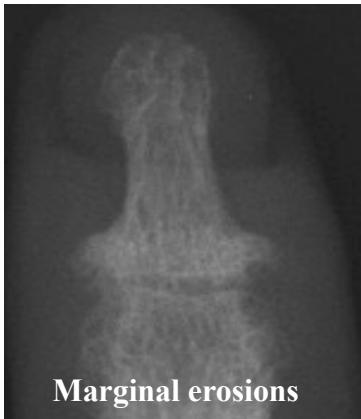


- = New bone formation
- = BME
- = Bone sclerosis



Tip#3: Imaging of the appendicular skeleton

Radiography



Marginal erosions



“Pencil in cup”



Ankylosis



Dactylitis



Periarticular new bone formation

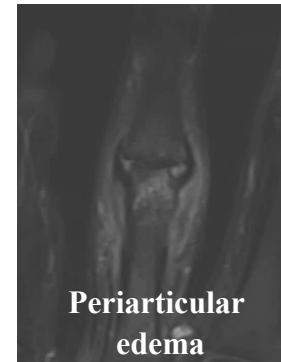


Periostitis

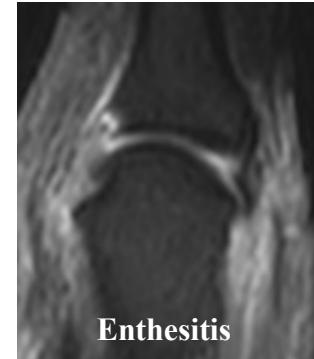
MRI



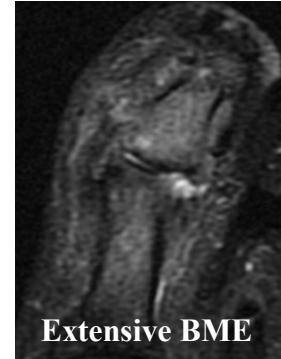
Synovitis



Periarticular edema



Enthesitis



Extensive BME



Tenosynovitis

Tip#4: Imaging of the axial skeleton

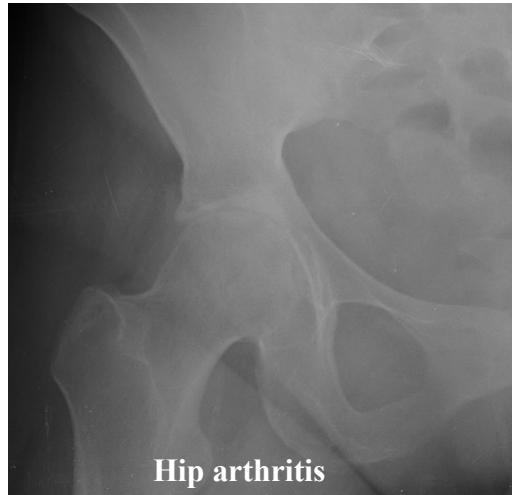
Radiography



Sacroiliitis

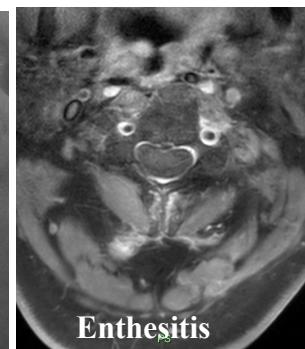


Parasyndesmophytes

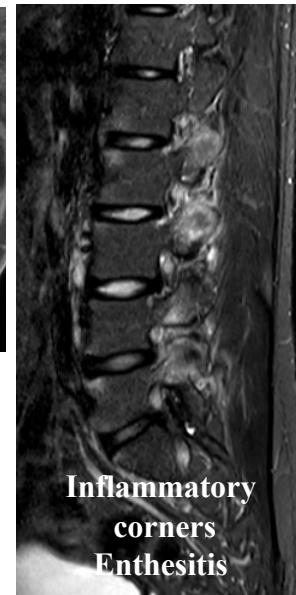


Hip arthritis

MRI



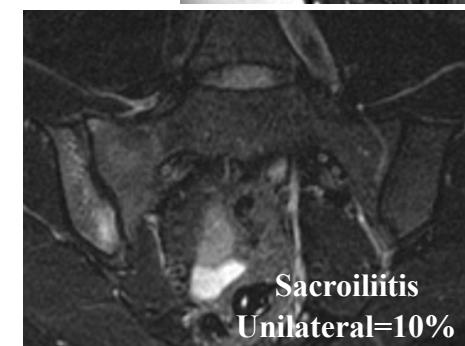
Enthesitis



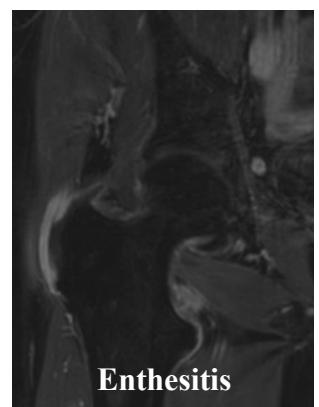
Inflammatory
corners
Enthesitis



Fatty corners

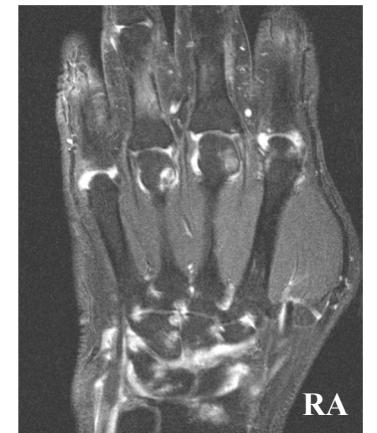
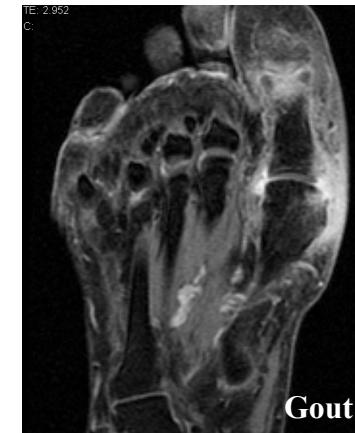
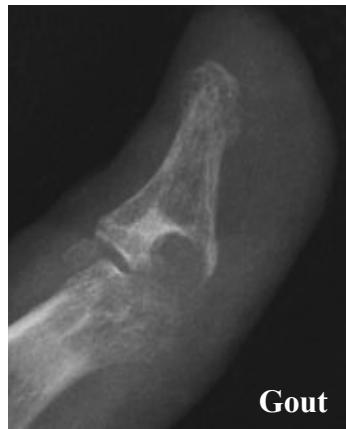


Sacroiliitis
Unilateral=10%

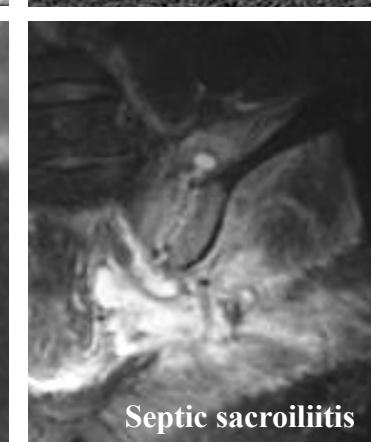
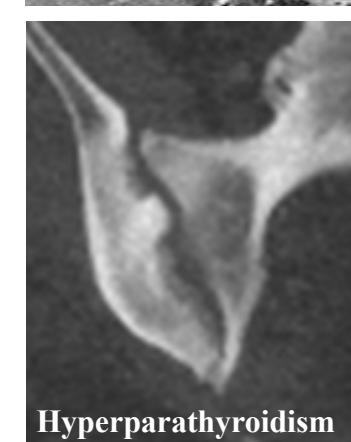
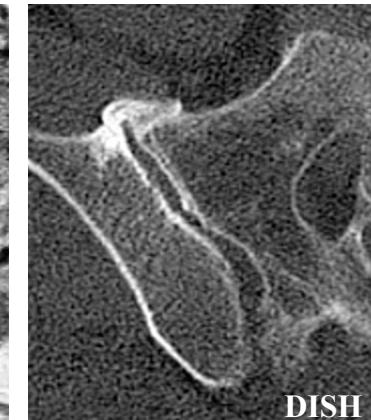
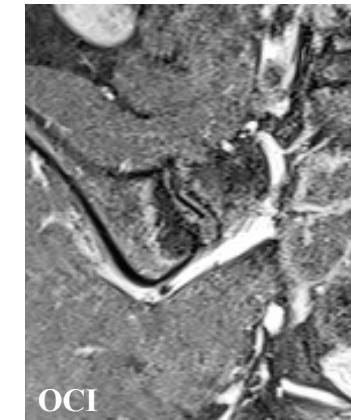
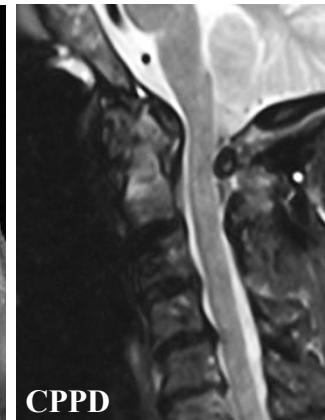


Enthesitis

Tip#4: Differential diagnoses appendicular skeleton



Tip#5: Differential diagnoses axial skeleton



References

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