

# Osteoarthritis (AO) Degenerative Joint Disease (DJD)



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# Risk factors



- Trauma
- BMI
- Age
- Repetative stress – job
- Congenial anomalies
- Genetics – primary OA

# Epidemiology

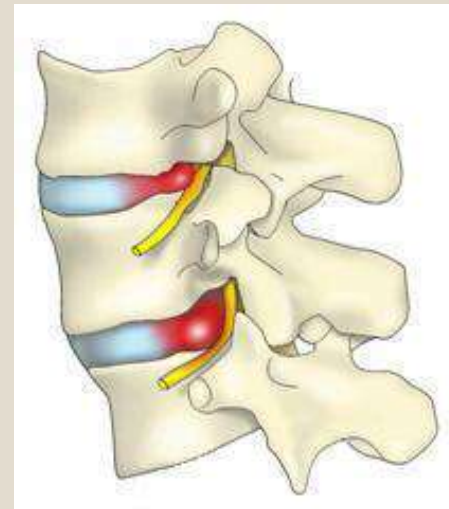
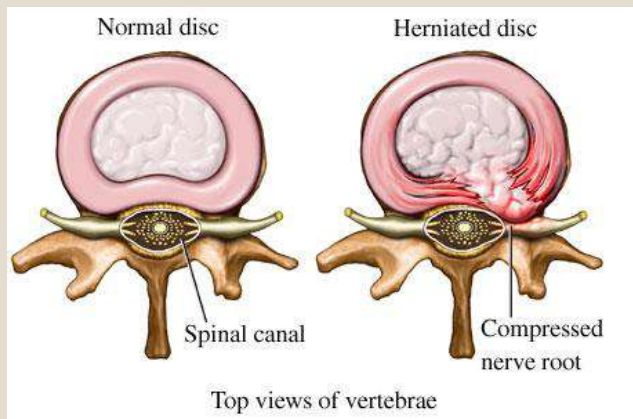


- Symptomatic OA knee: 10% men, 13% women over 60 yrs
- OA hip: 3-6%
- 39% of individuals older than 60 yrs full-thickness rotator cuff tears
- Back pain????

# Back pain



- Of all individuals, 60% to 80% experience backpain during their lifetime
- 4.8% males and 2,5% females older than 35 experience sciatica during their lifetime

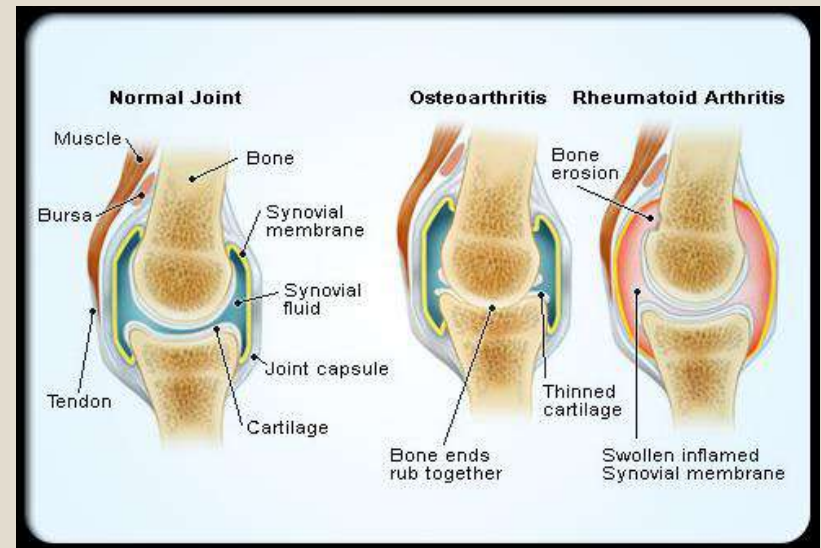
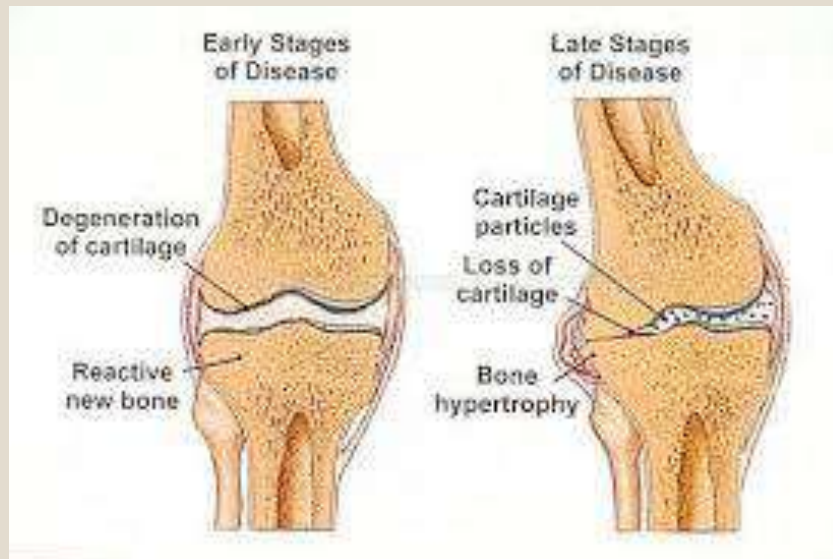


# Radiographic features

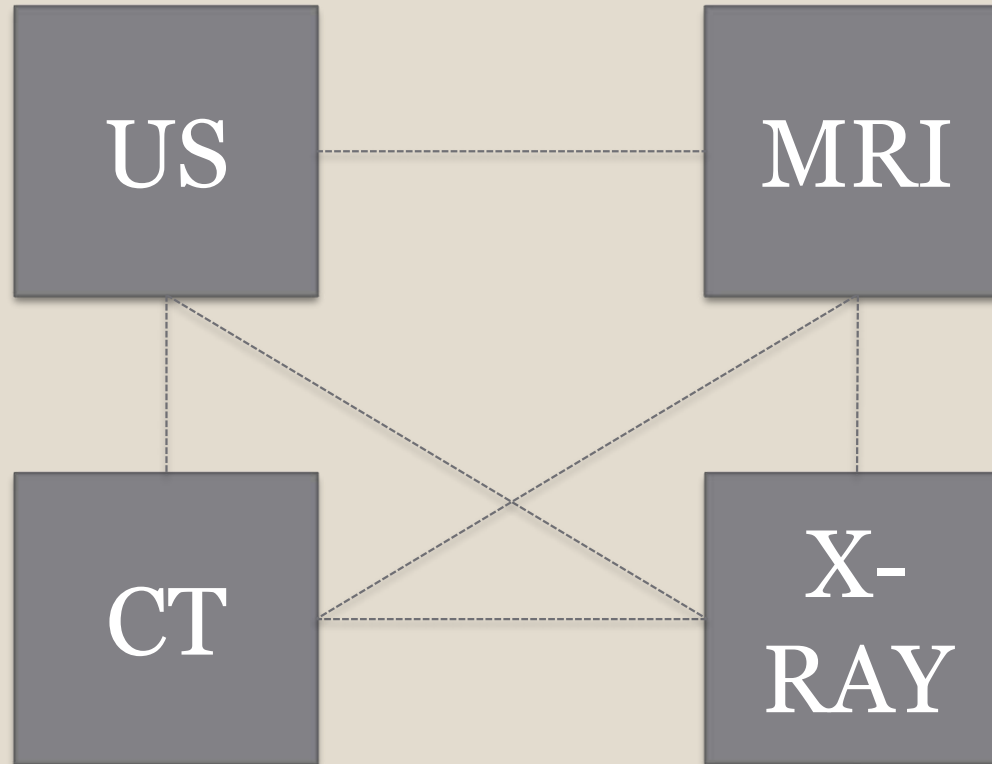


- Joint space narrowing → asymmetric
- Osteosclerosis unless → severe osteoporosis
- Osteophytes
  - Exclusions (erosions) symphysis pubis, AC joint, temporomandibular joint
- Subchondral cysts/geodes – invasions of synovial fluid/ contusion?

# Radiographic features



# Radiologic modalities



# Radiologic modalities





# Back pain



# Back pain



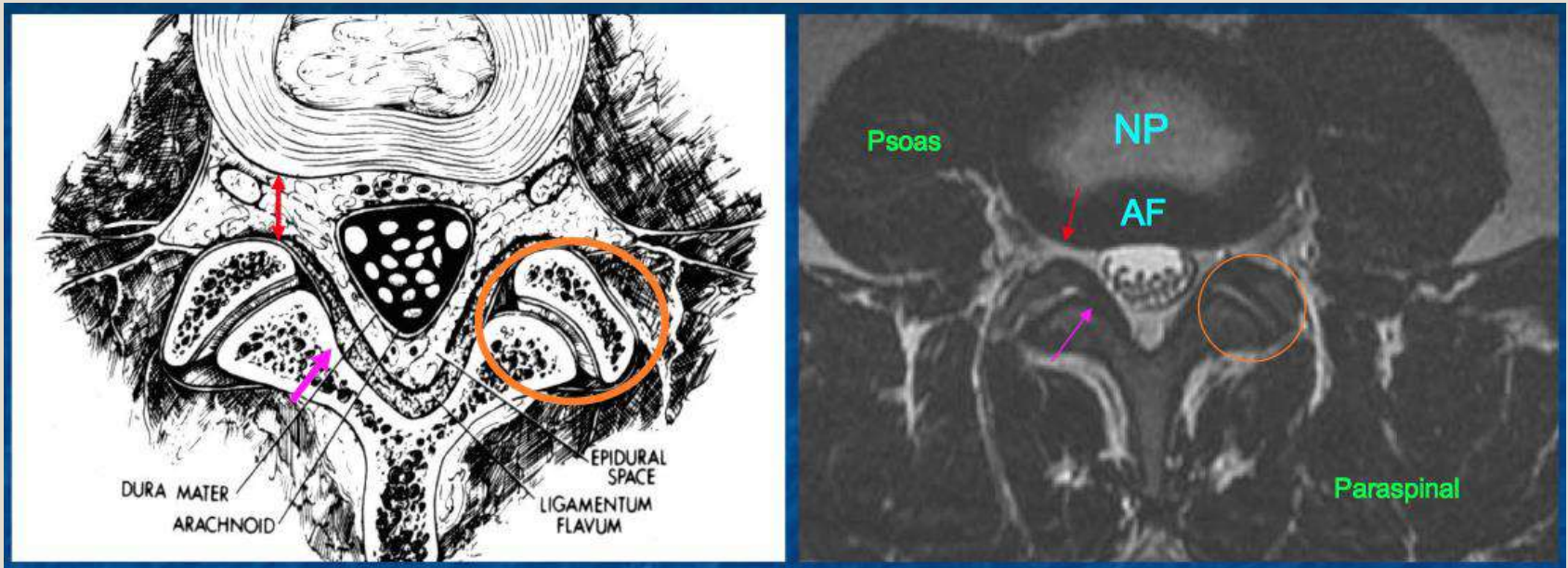
- i.v. chondrosis
- i.v. osteochondrosis
- Spondylosis
- Spondylarthrosis
- Interspi. pseudoarthrosis

# Back pain MRI

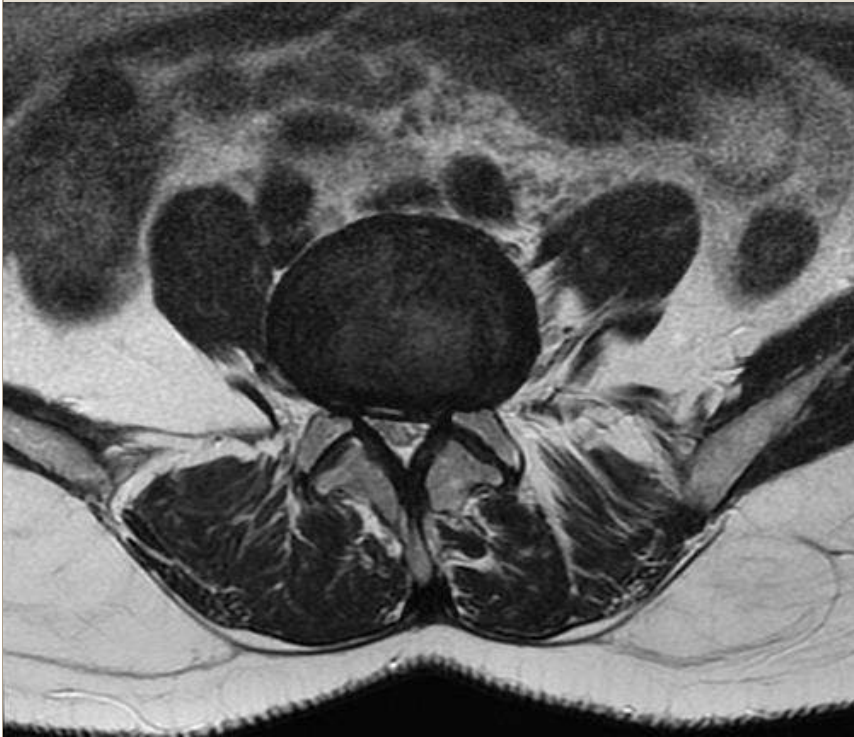


- Modic 1 (edema)
- Modic 2 (fat)
- Modic 3 (sclerosis)

# Back pain



# Back pain



Circumflex protrusion  
+ thickened lig flava



Spondylarthrosis



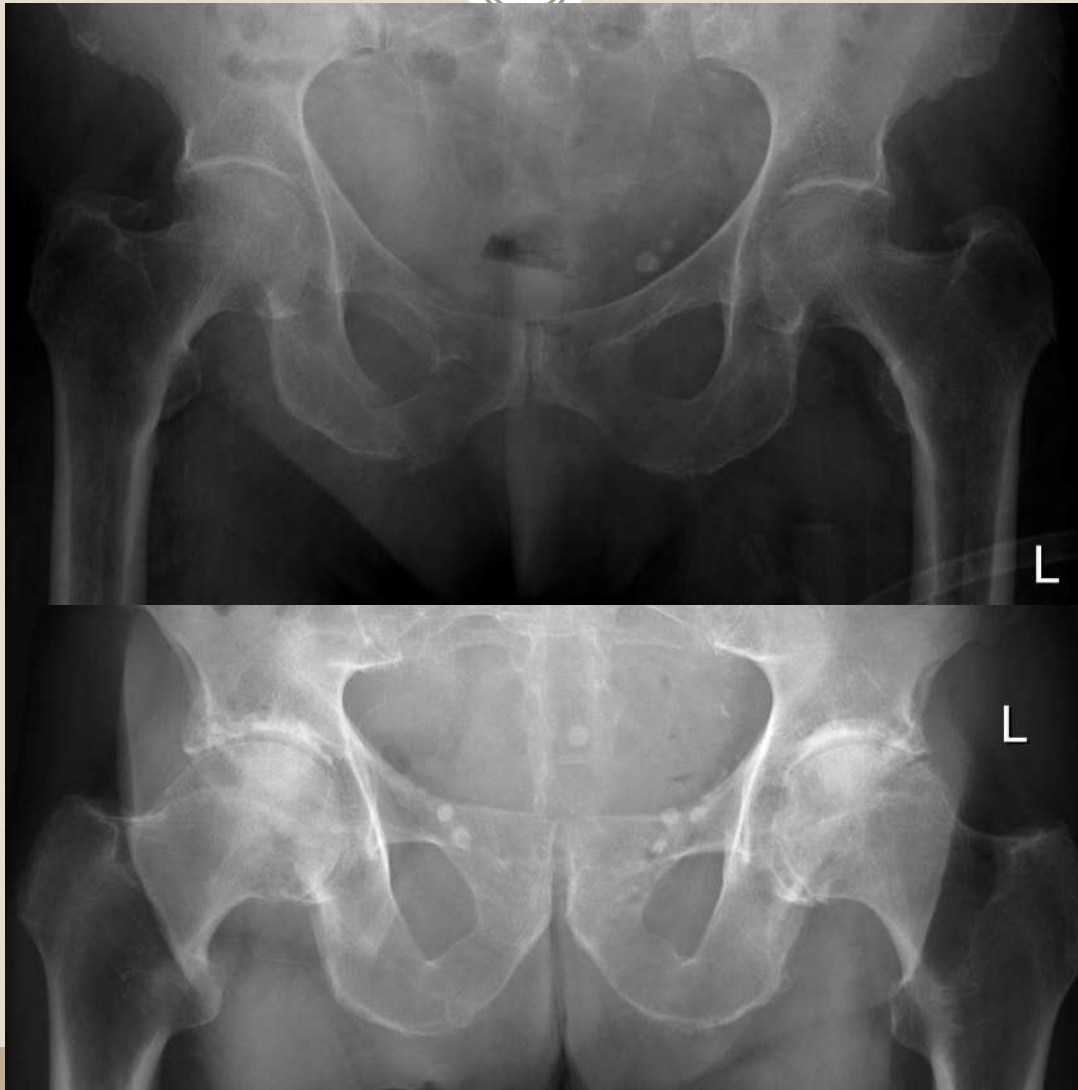
# Back pain



# Knee OA



# Hip OA

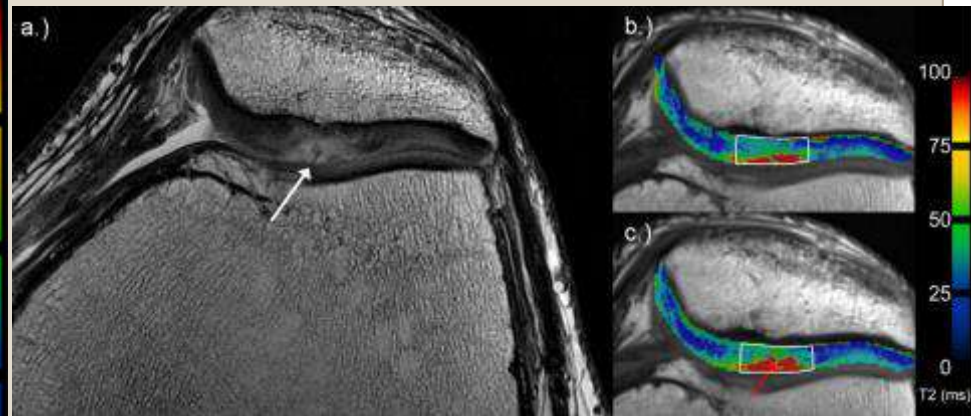
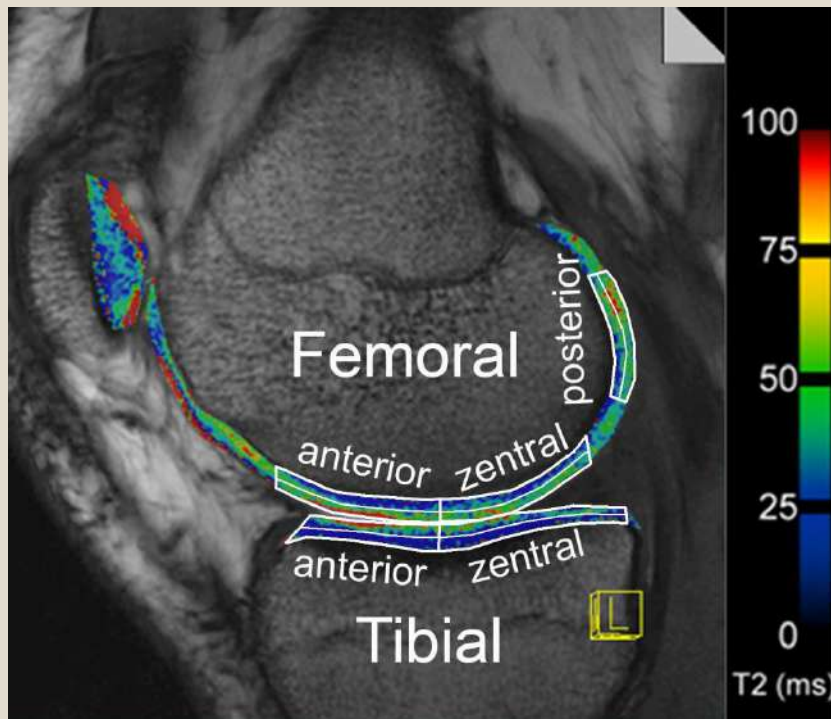




# Shoulder OA



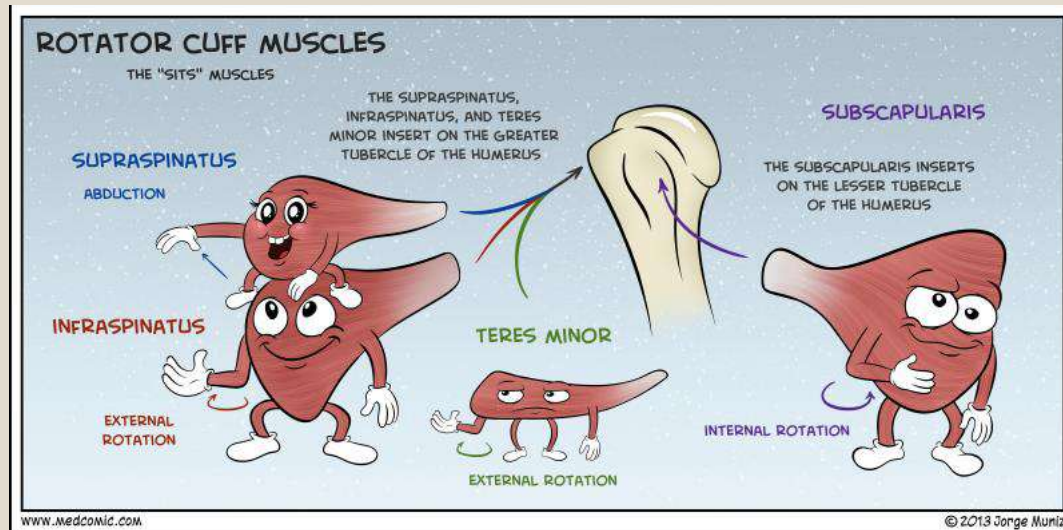
# Early detection OA



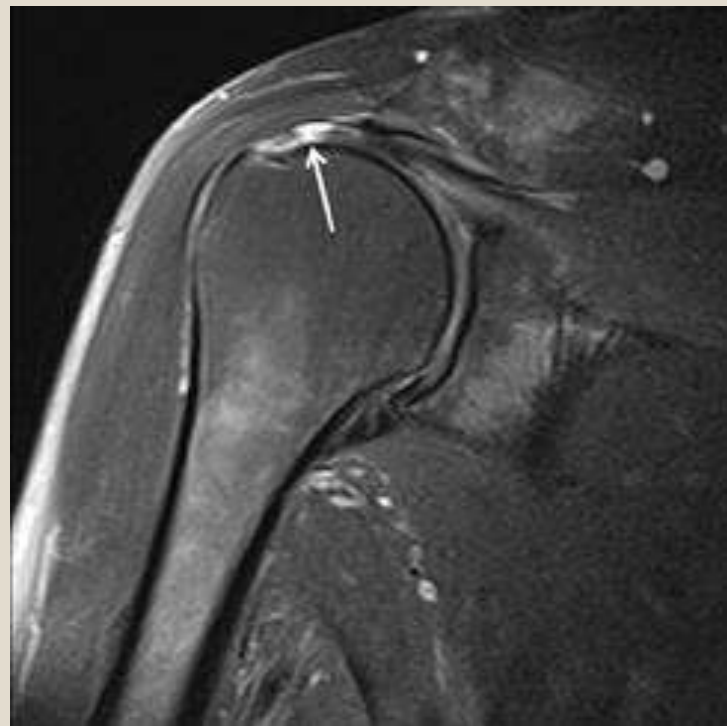
# Rotator cuff

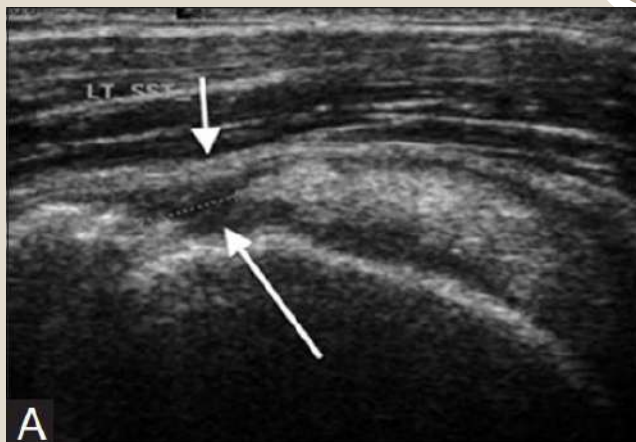


- Frequent tear
- Acute tear – under 30 yrs/broken clavicle...
- Chronic tear – repetative stress, age – job/sport → degenerative
- Partial/ full thickness tear



# Rotator cuff





# Thank you

