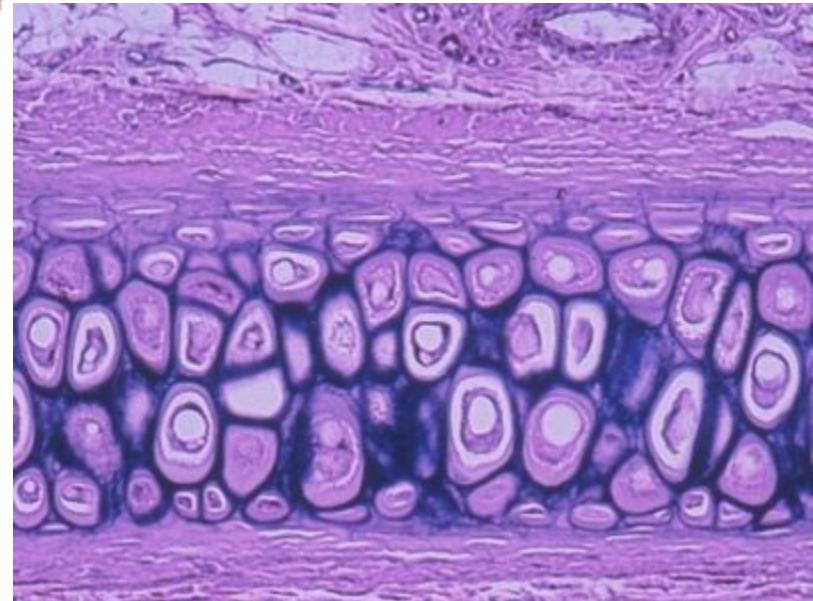


OA

Degenerative \neq Aging
↓
geriatric



cartilage



Avascular

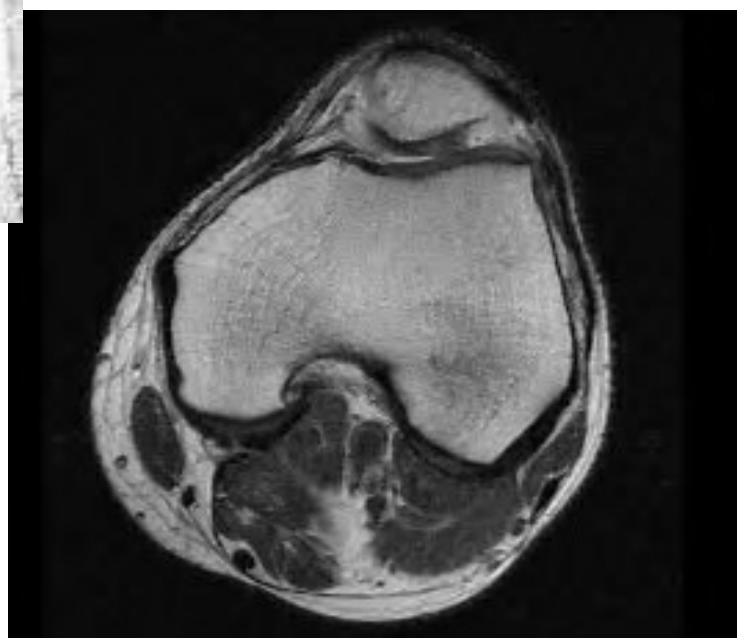
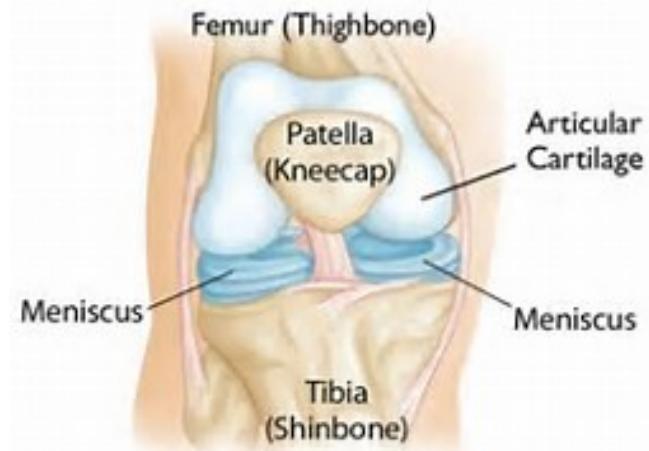
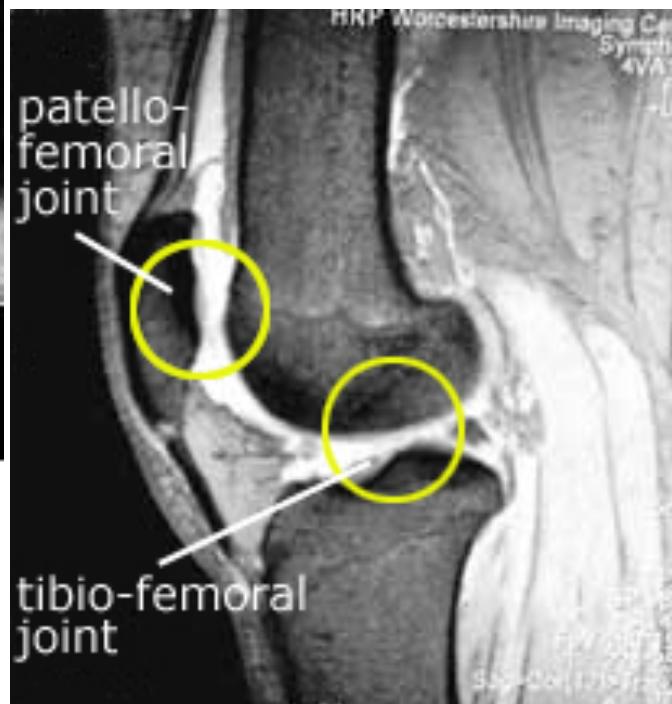
*bone is the only connective tissue that retain 100% strength after fracture.

connective tissue

Aneural

Alymphatic

So very poor healing



thickest Cartilage in the body is Under Patellar Surface.



- Deformity. change the distribution of same weight on the joint.
- Trauma.
- Infection. ex. septic
- Bleeding ex. Hemophilia
- Inflammation.
- Metabolic. ex. Gout & Pseudogout
- Unknown.

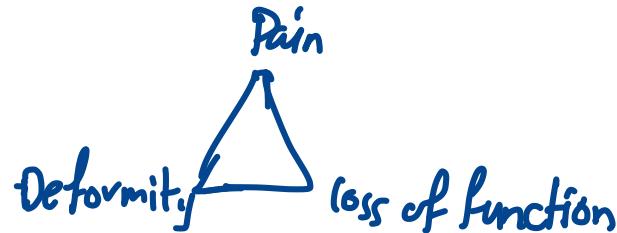
Septic arthritis in children is an emergency. (top one in orthopedic)



Pain

Nb Morning stiffness.

From the first step



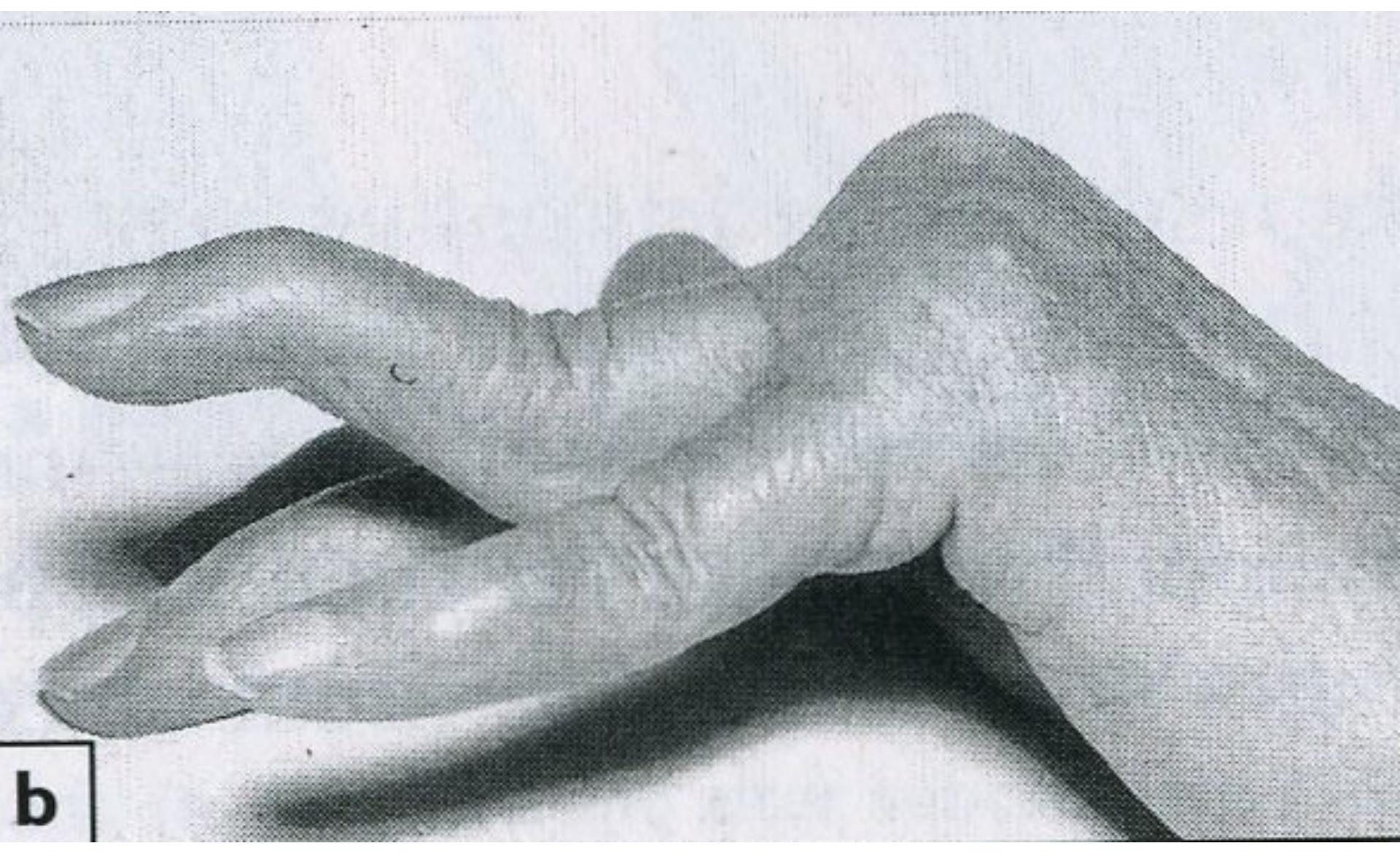
* ADL : activity of daily
Living

Deformity

lose of function



Figure 1 Patient with **severe dislocation of both wrists**.



b

Hx → physical
↓
Investigation



RA for 30 years
pain on Right
knee

→ atrophy RT
limb on comparison
with LT leg

→ Valgus
deformity

long standing
bilateral knee pain

bow legs

genovarus.

↓
Knee



A

ankle varus
normally ankle
valgus.



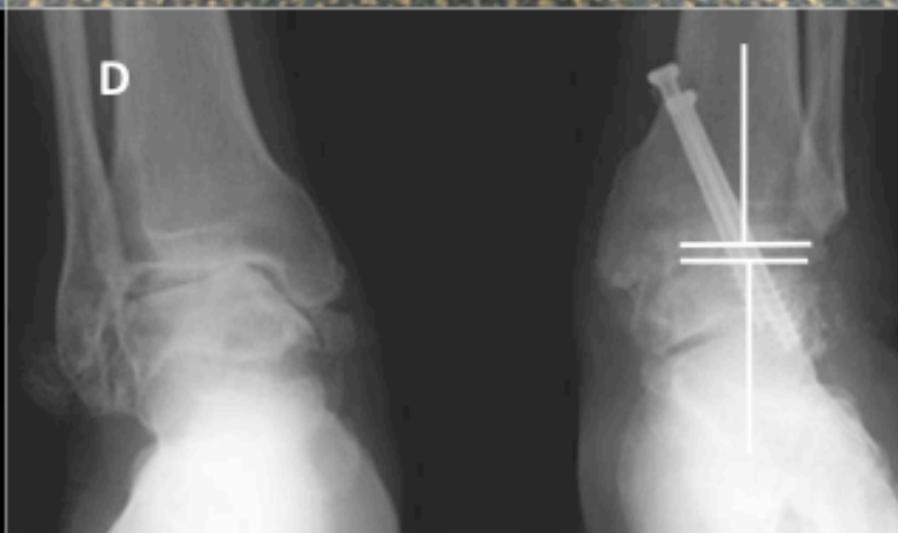
C

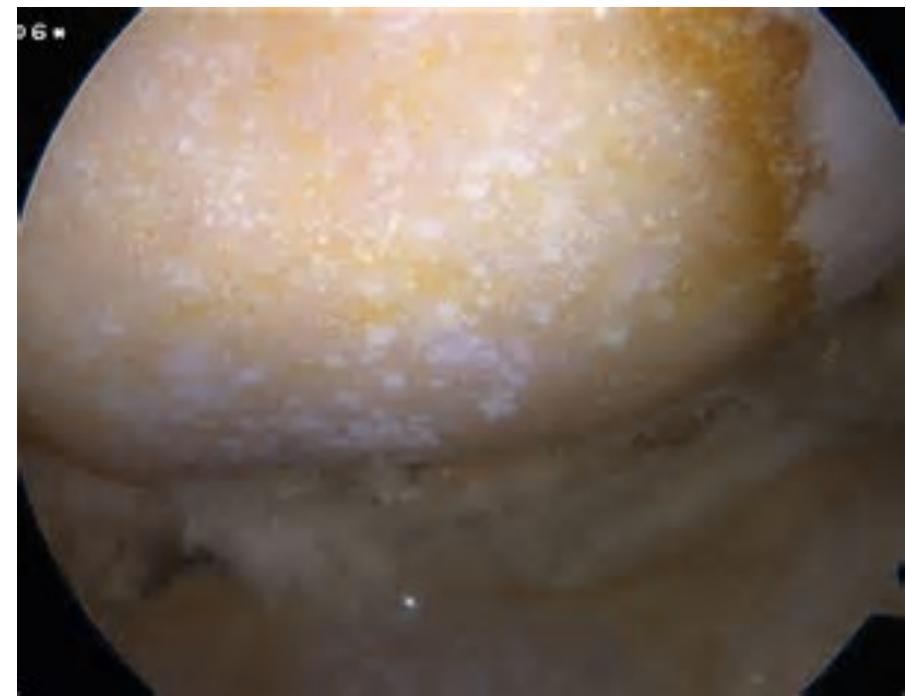
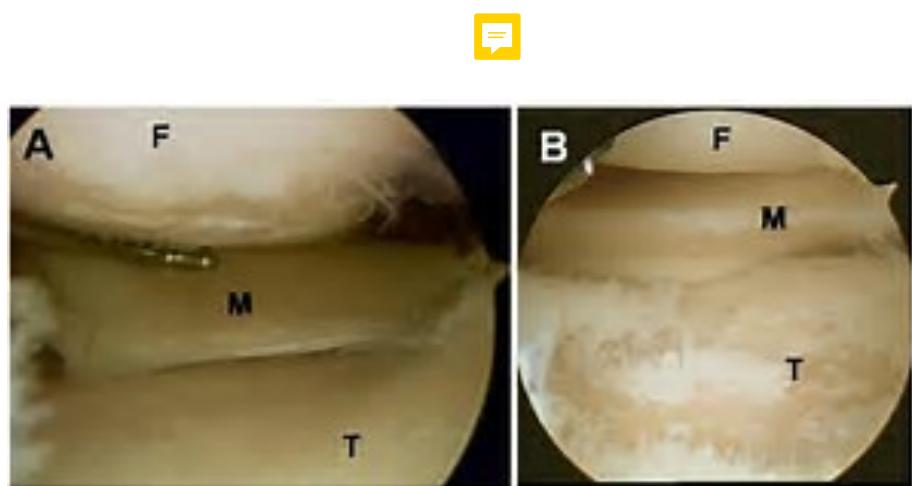
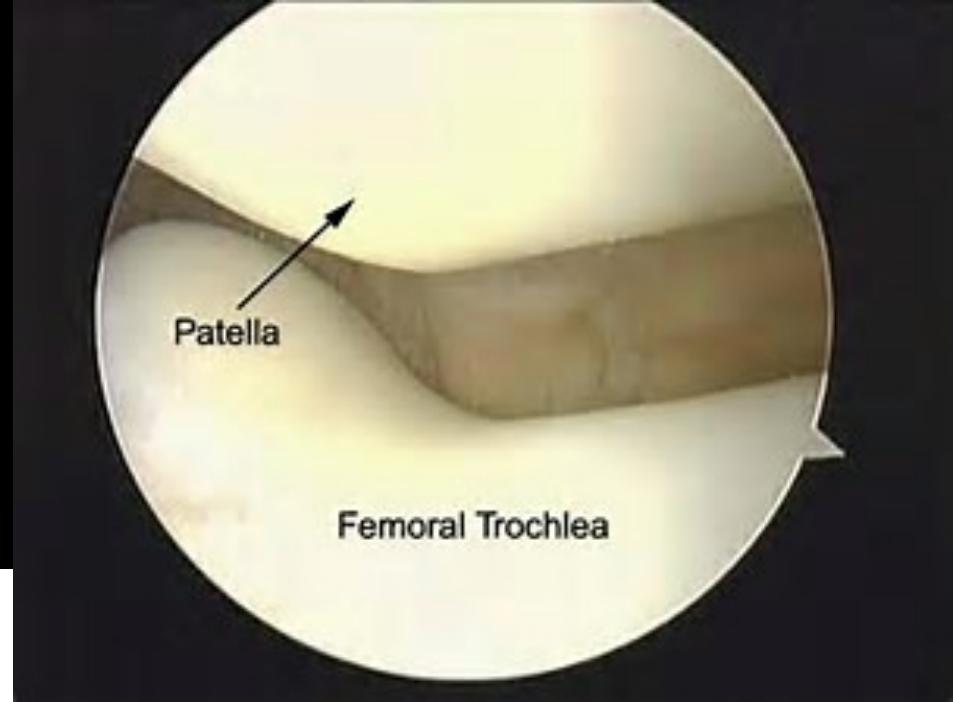


B



D





X-ray



Figure 1



Figure 2
1) Narrow joint space 2) Osteophytes



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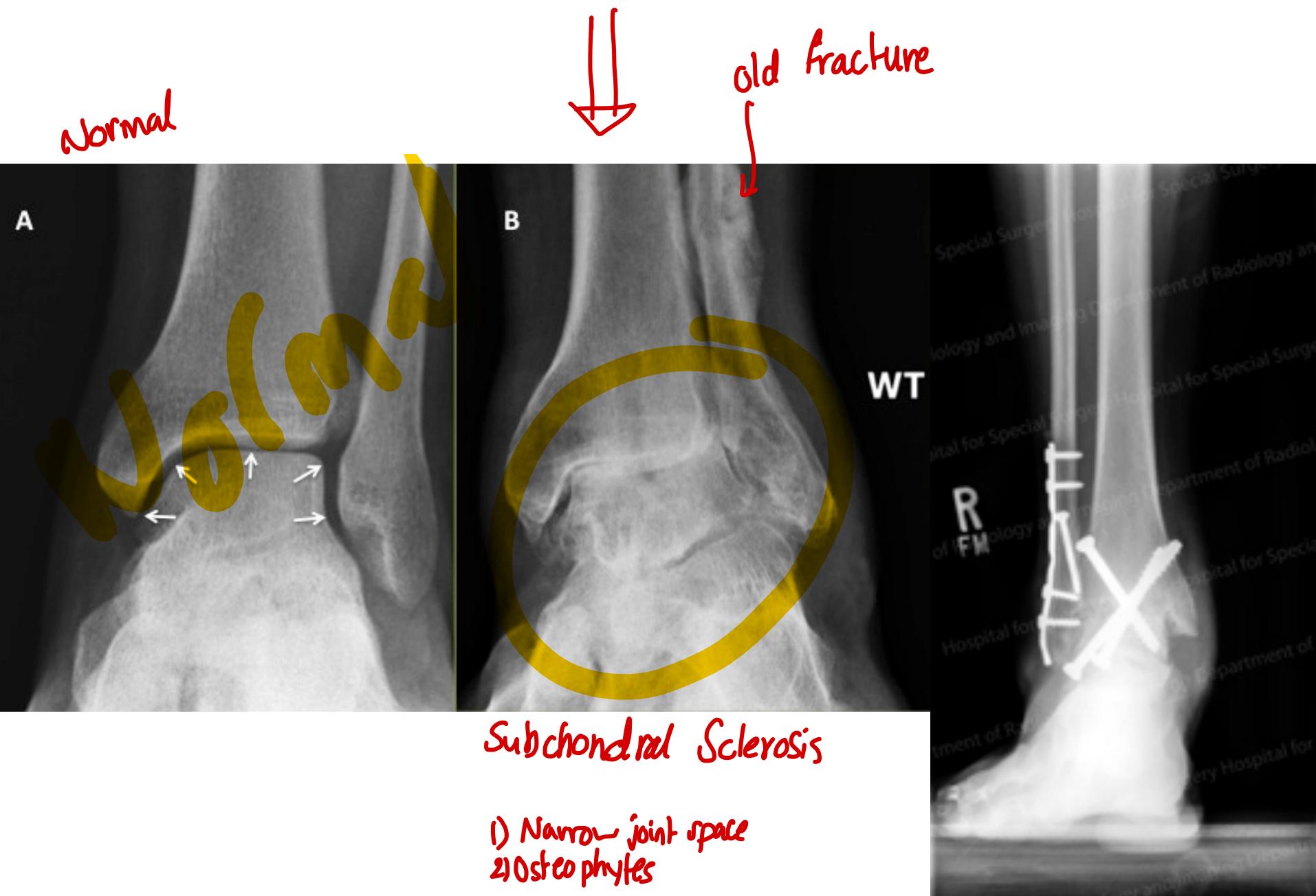


Rheumatoid

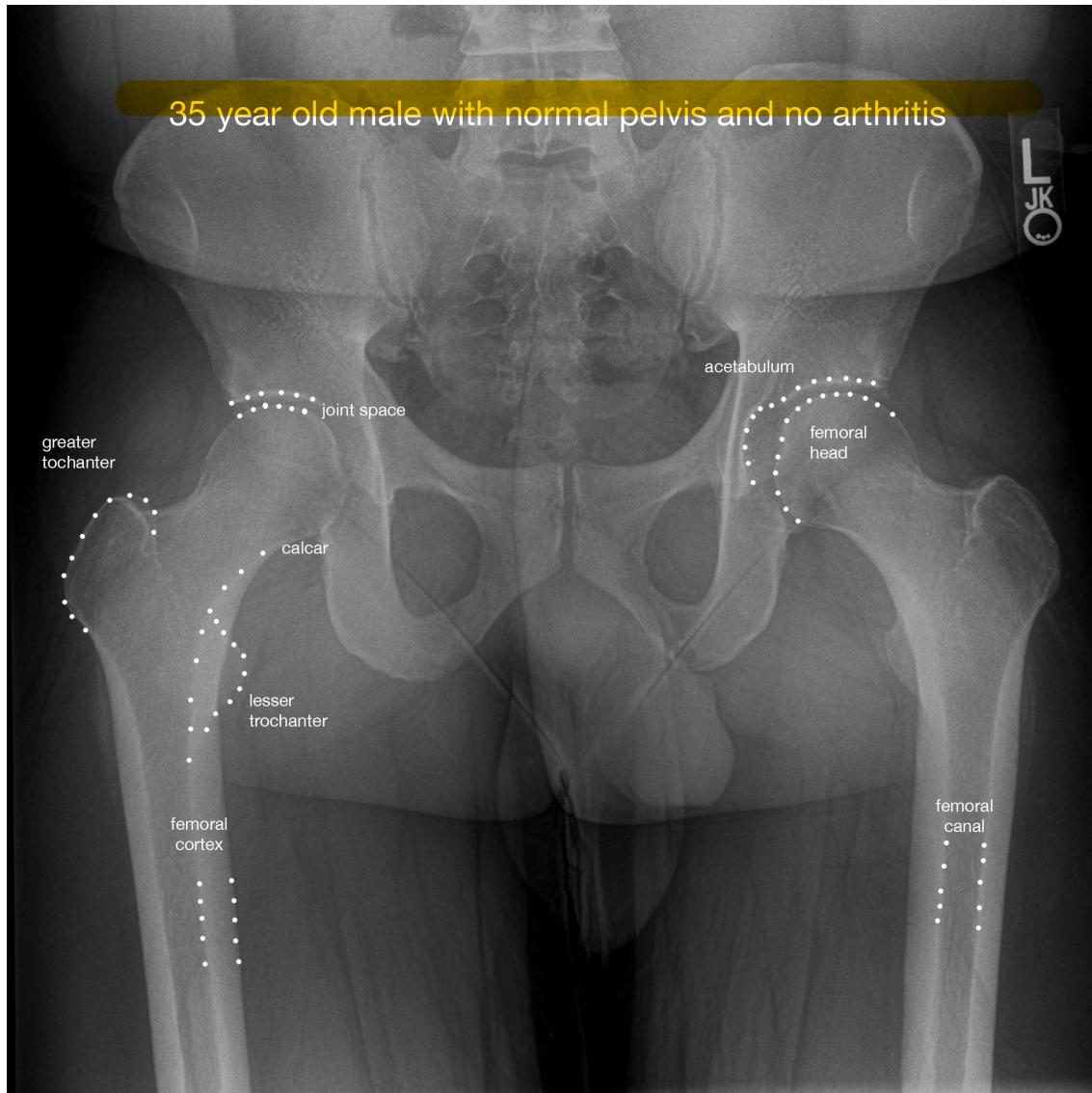


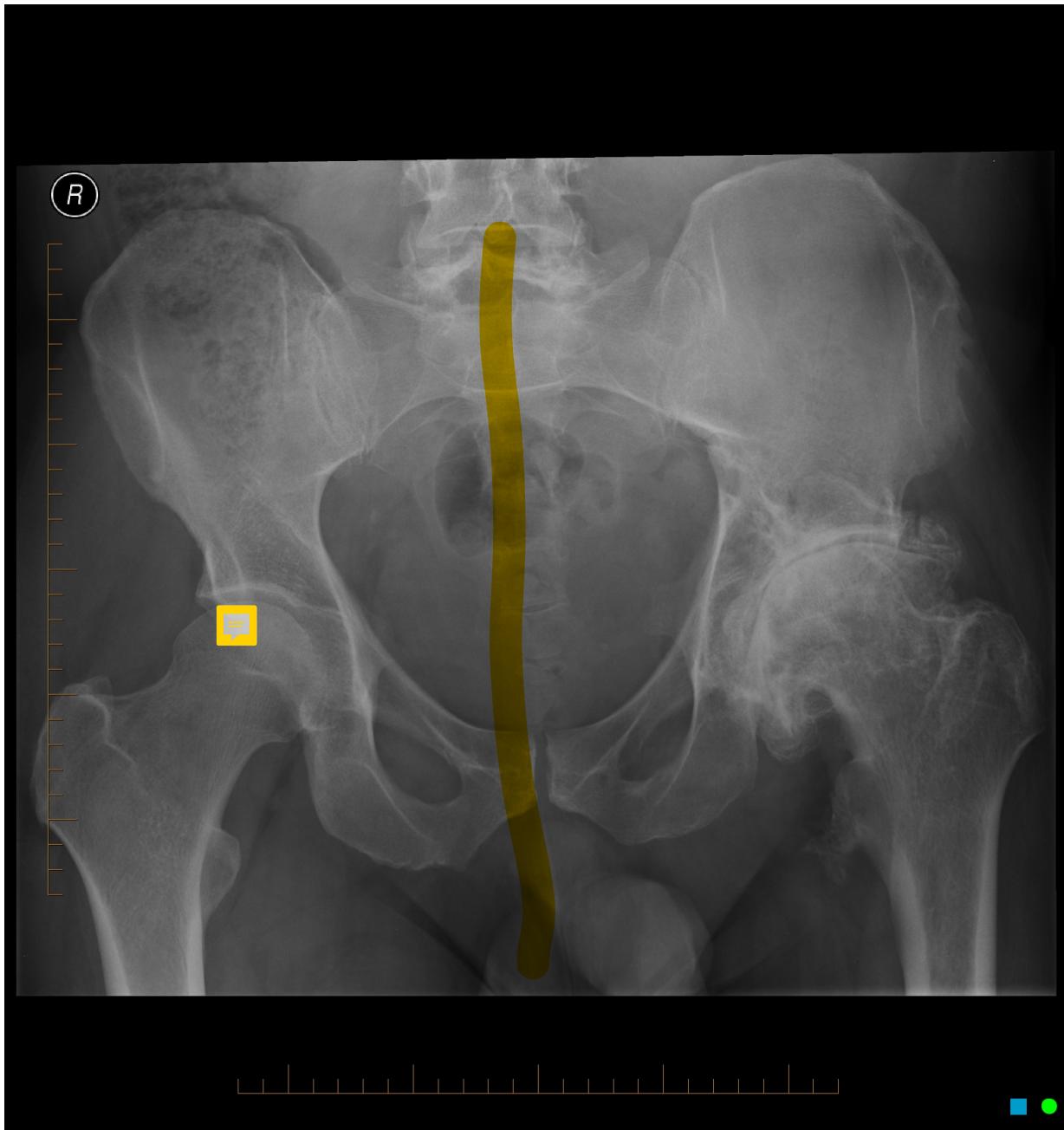


Post-fracture Joint arthritis



35 year old male with normal pelvis and no arthritis

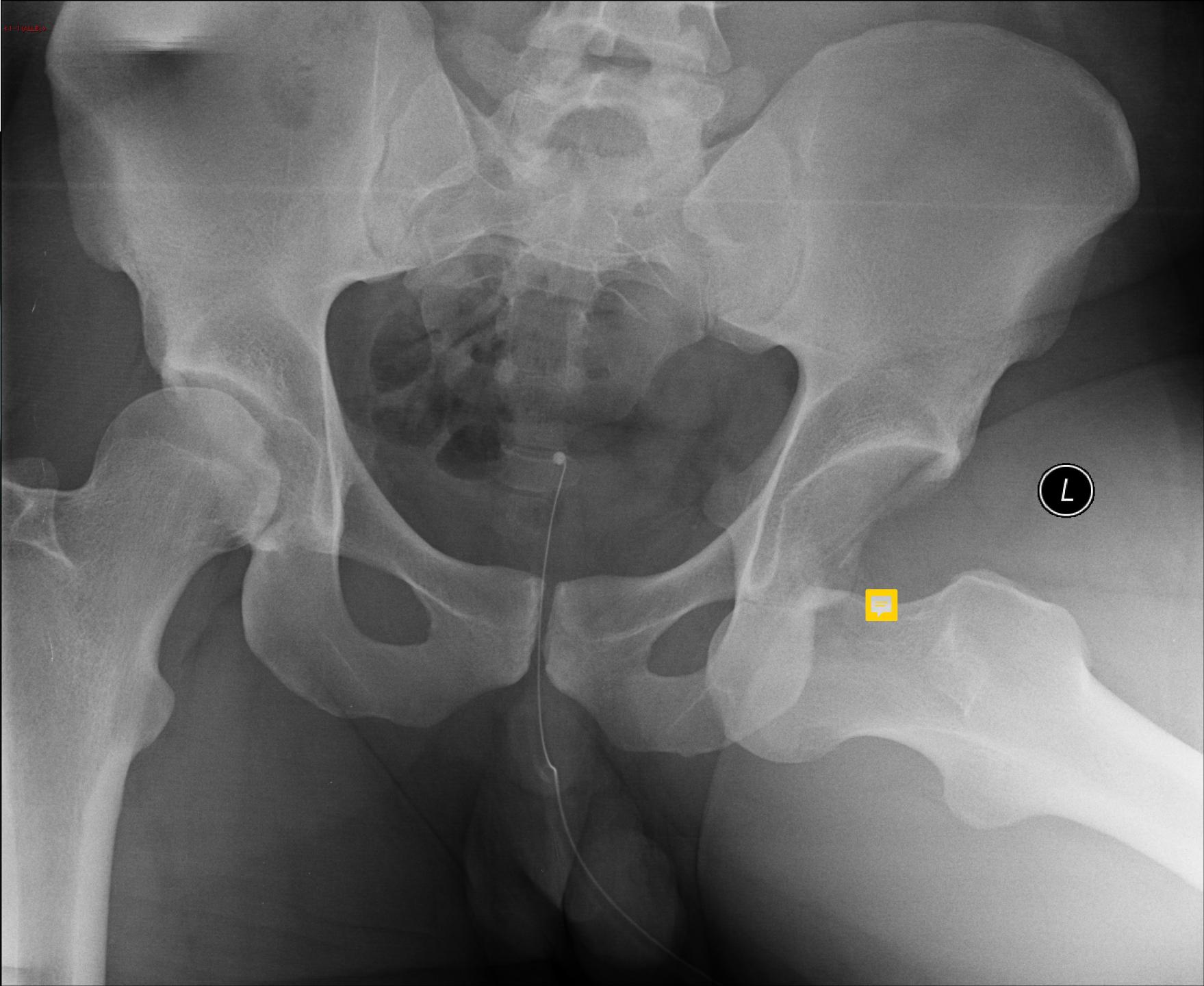


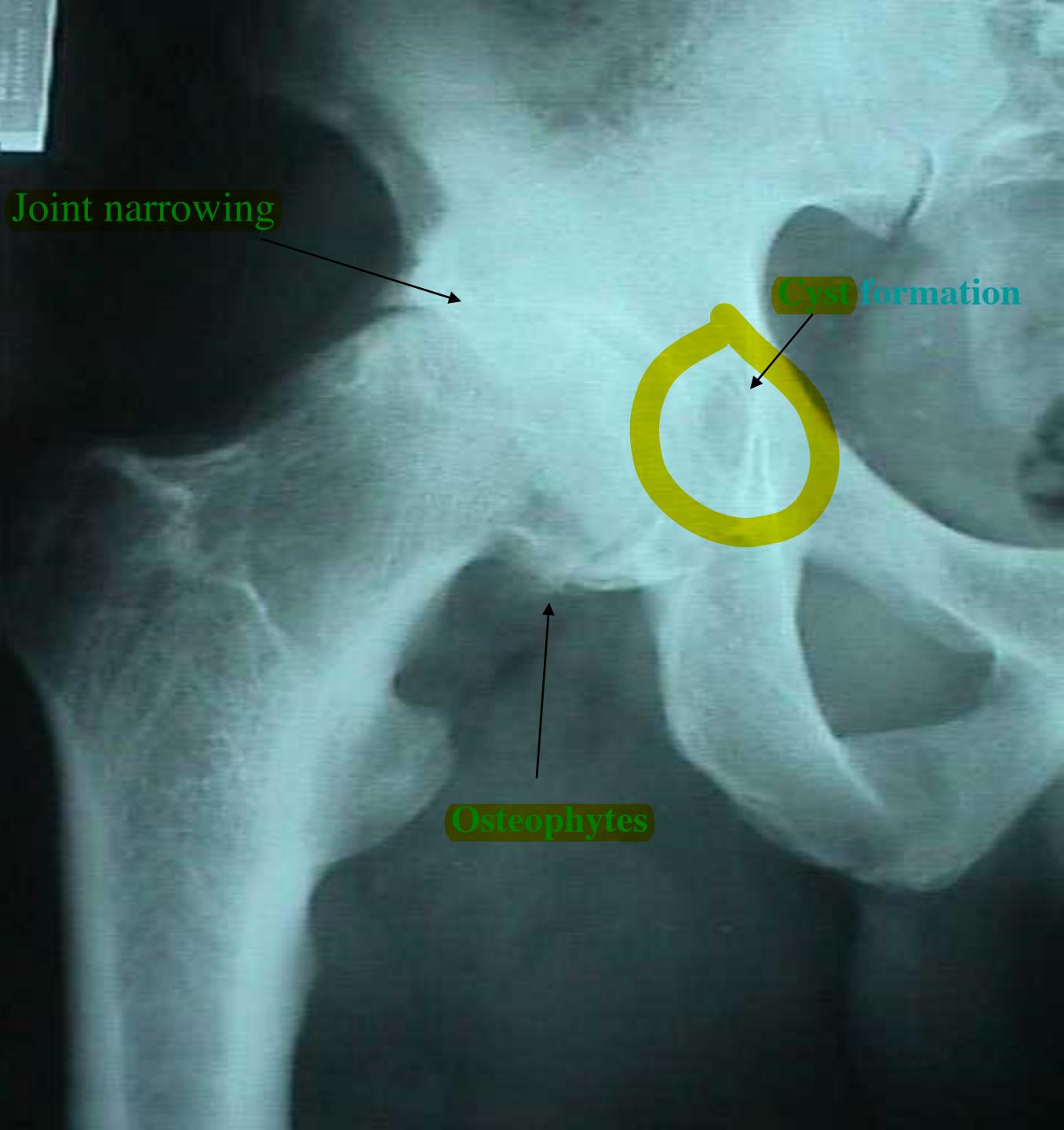


loss of joint
Space, osteoph.
Subchondral
Sclerosis
↓
بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ
جَمِيعَ الْحَمْدُ لِلَّهِ الرَّحْمَنِ الرَّحِيمِ
أَخْلَقَ اللَّهُ عَزَّ وَجَلَّ



Advanced hip arthritis





Joint narrowing

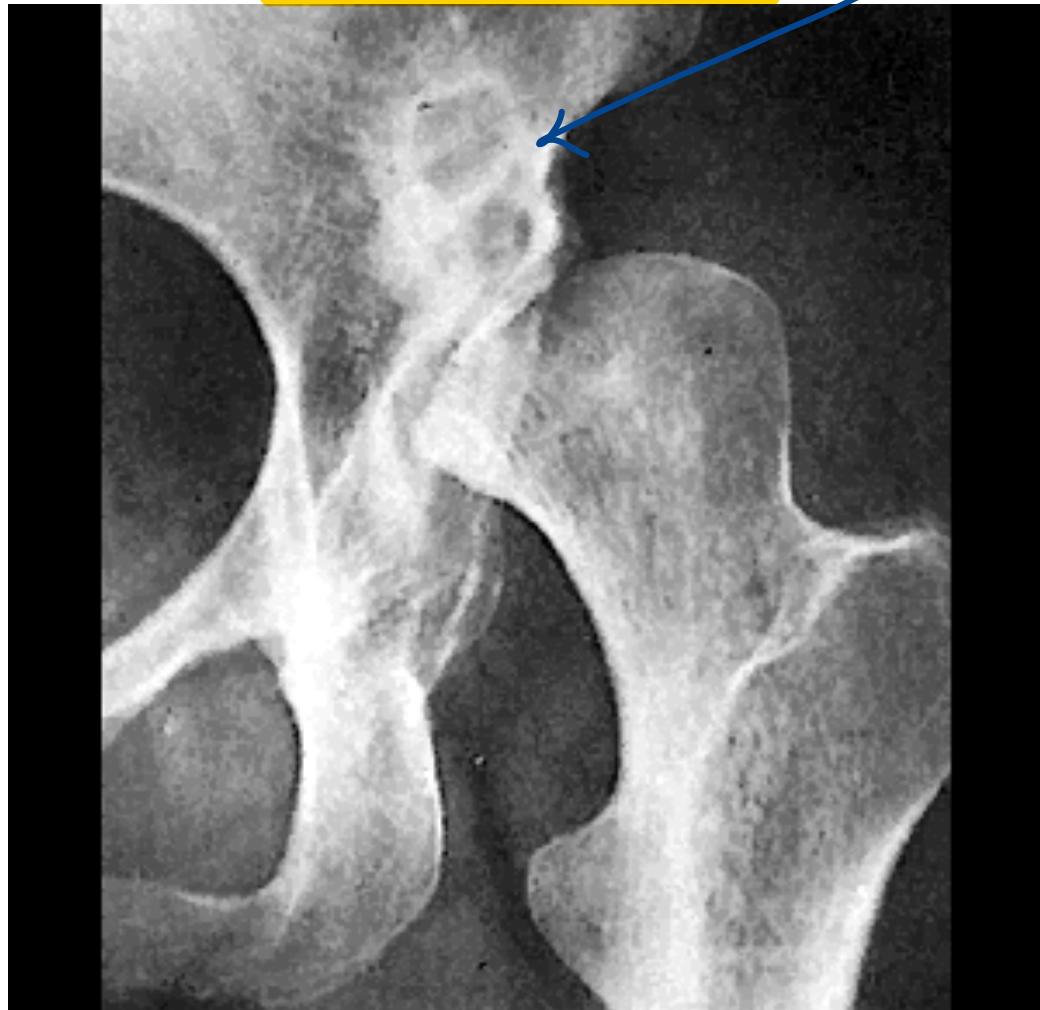
Cyst formation

Osteophytes

Dysplasia

Hip dysplasia

→ not fully covered
head



cyst formation
acetabulum
not fully lined

Protrusio

overcovering



femur head goes inside
bone



Treatment:

Conservative.

Surgical.

Conservative.

- Weight. Reduction
- Exercise.
- Physiotherapy.
- Walking aid.
- Analgesia. → simple first like panadol then NSAIDS then drugs like tramadol

bad side effect
PUD, upper GI bleeding

Conservative.

- Supplements. not helpful ^{or} studies
- Injections. half/half ^{on} studies
- Arthroscopy. not helpful ^{or} studies
- Guidelines.

Stem cells penifecial as bone graft not to OA

↓
(Nb evidence) not standard practice, not helpful
(Research tool)

essential Nutri.: WE Can't make in the body like:
water, OMEGA, essential aminoacids, vitamins ...

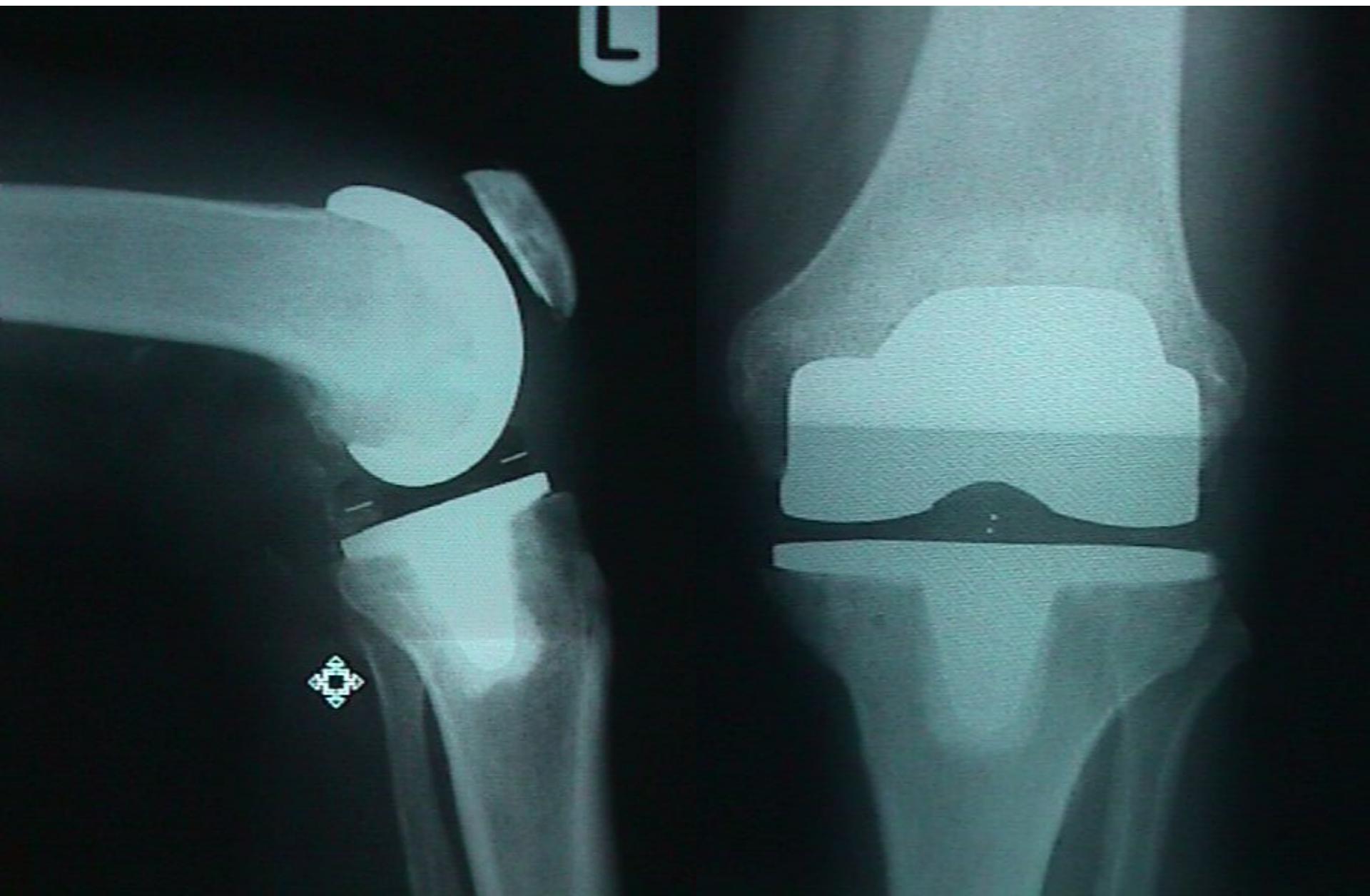
Surgical:

- ① Replacement
- ② Fusion/Joint
- ③ Excision
- ④ Redirection

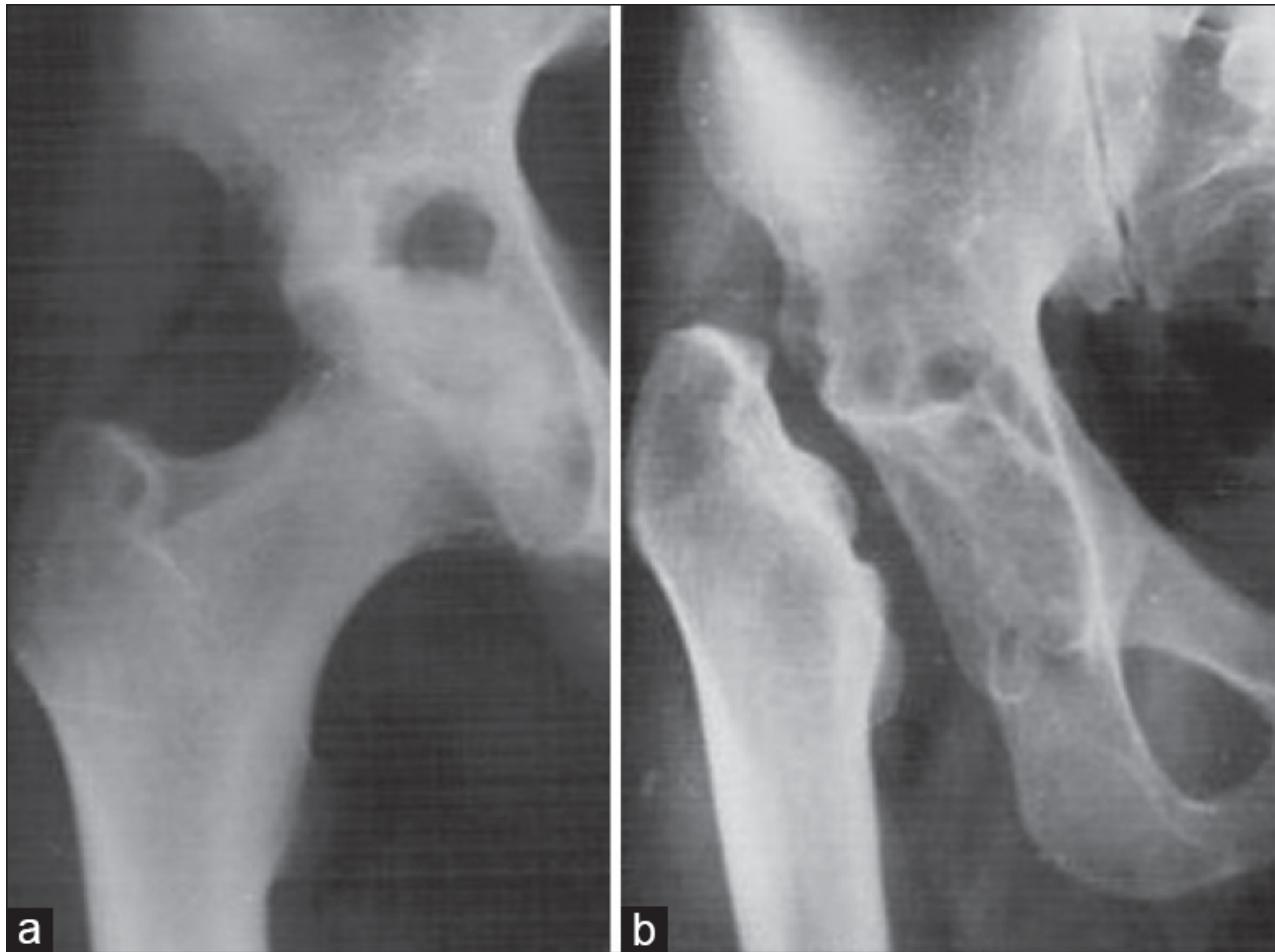
Replacement:



LCS TKR (DePuy)



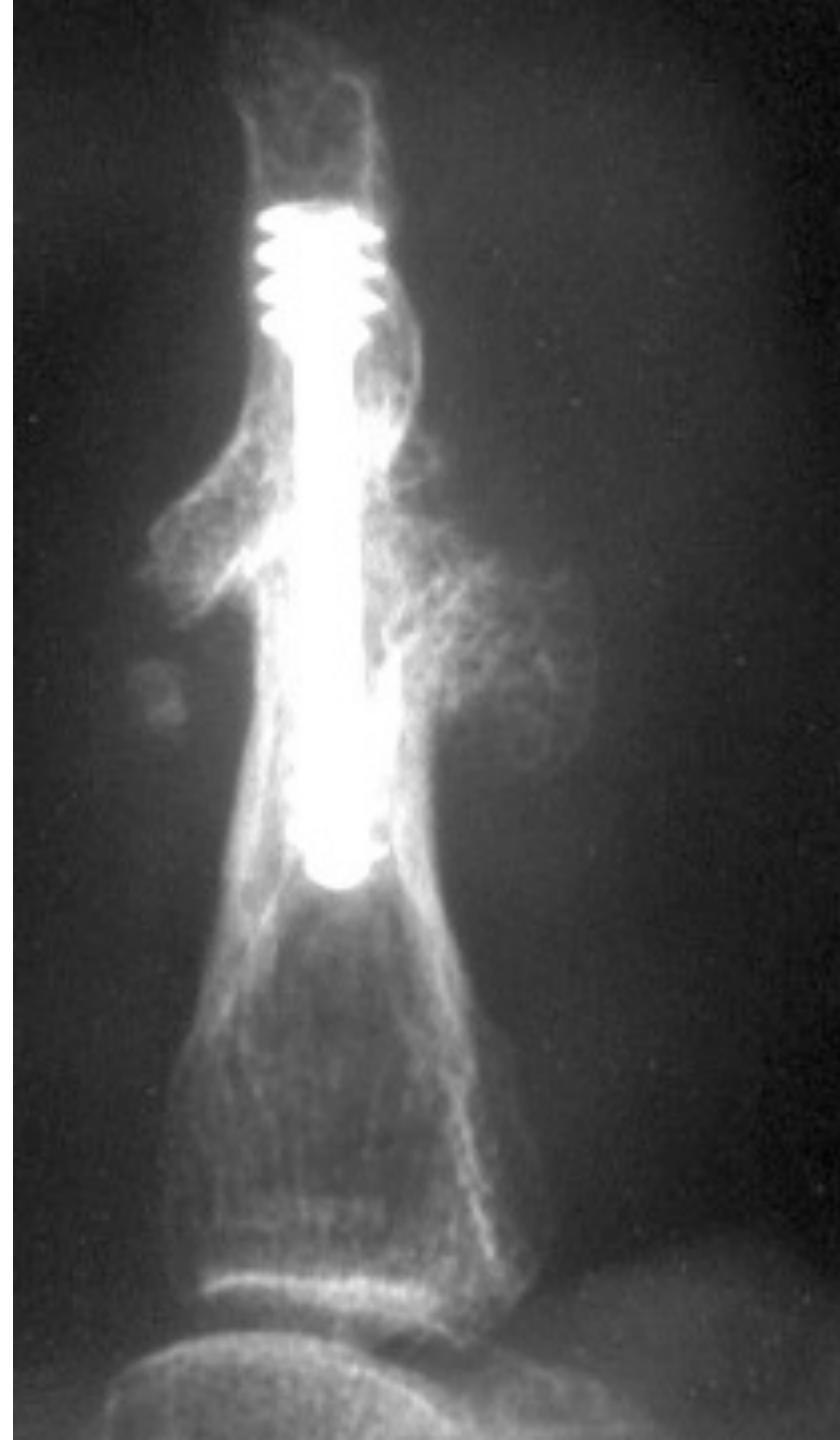
Excision : much better but not walking



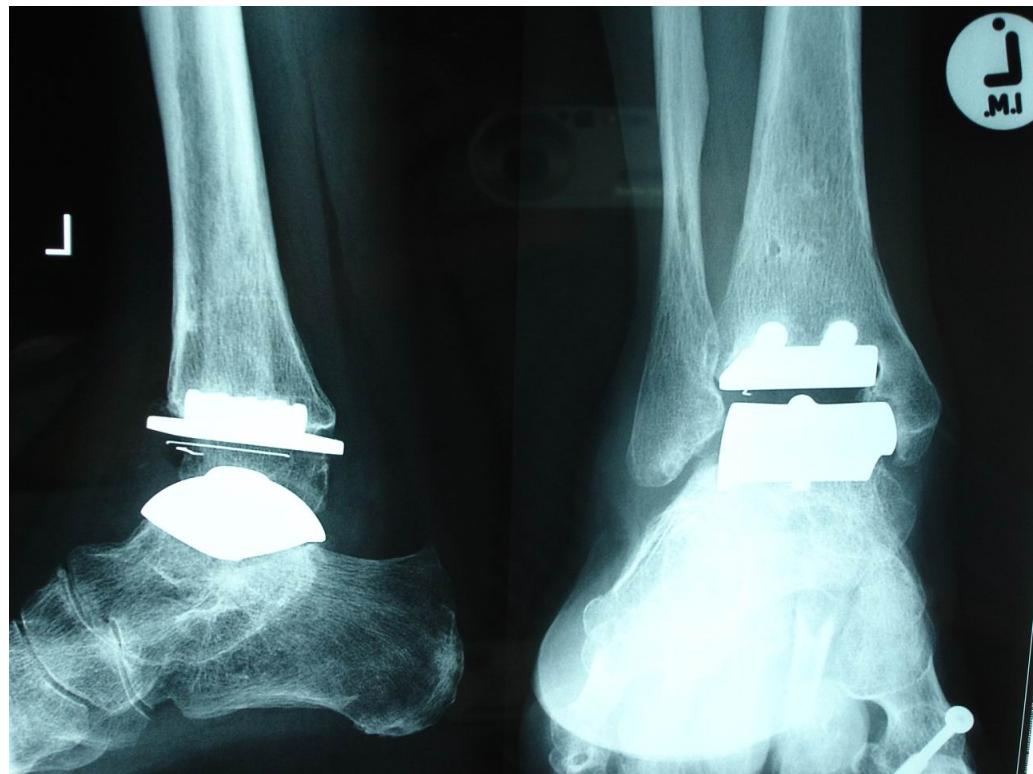




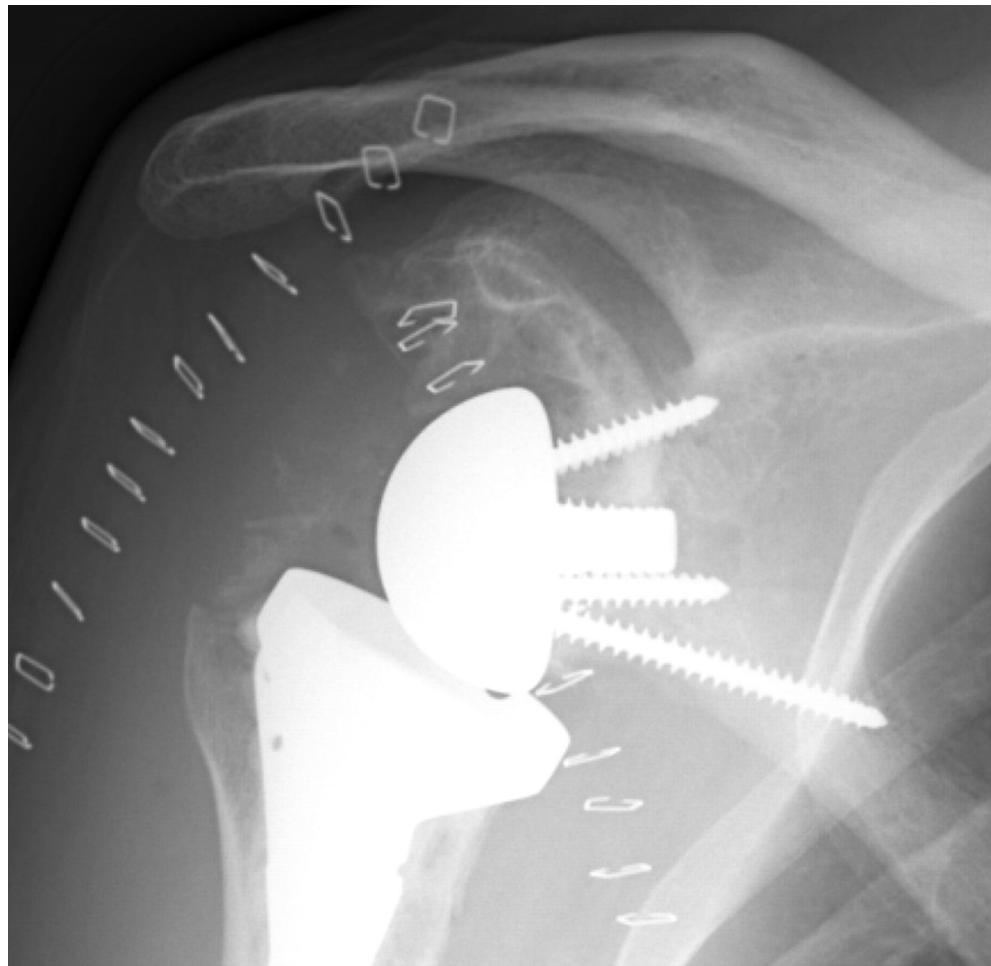
finger



ankle fusion







Complications:

- **Early:**

- Infection.
- Thrombo-embolic.
- Dislocation.
- Nerve injury.

- **Late:**

- infection.
- Loosening.
- Wear.