SINUS TARSI Anatomy and Pathology

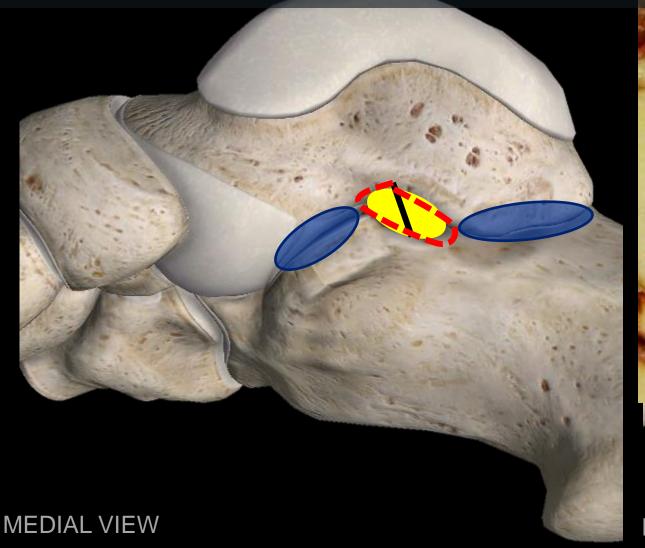


Dr. Marcelo Abreu, Porto Alegre, Brazil



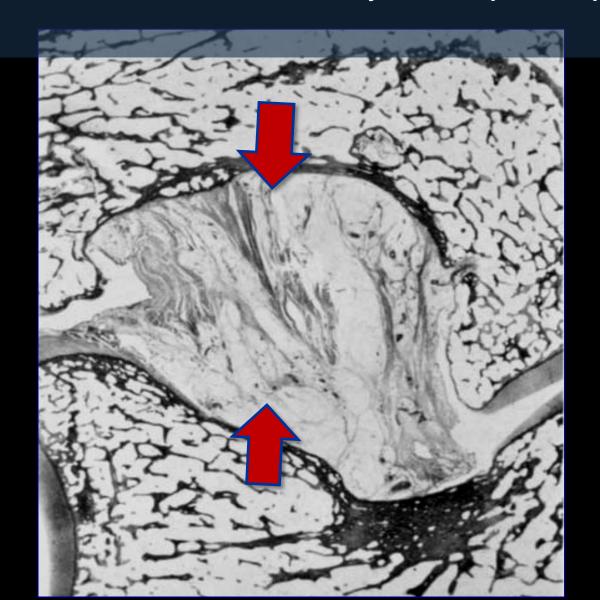
What is the Sinus Tarsi?

Subtalar Joint: Composed by 2 Diarthrodial parts





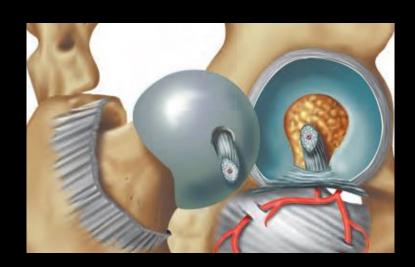
• FUNCTION: Stability & Proprioception





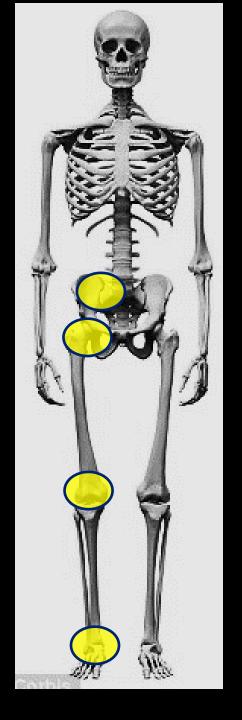
Similar joints with ligamentous part

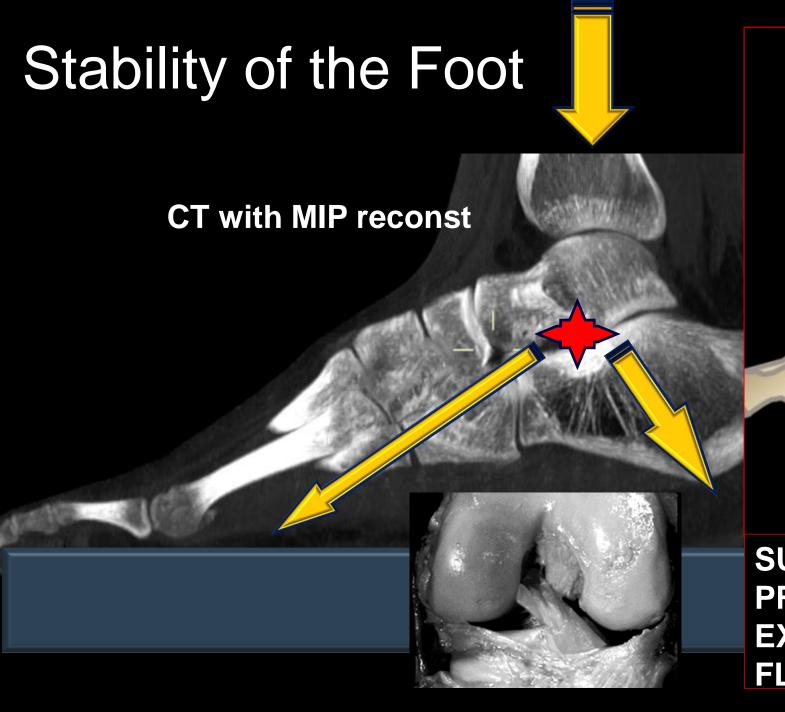
- Sacroiliac Joint
- Hip
- Knee
- Subtalar

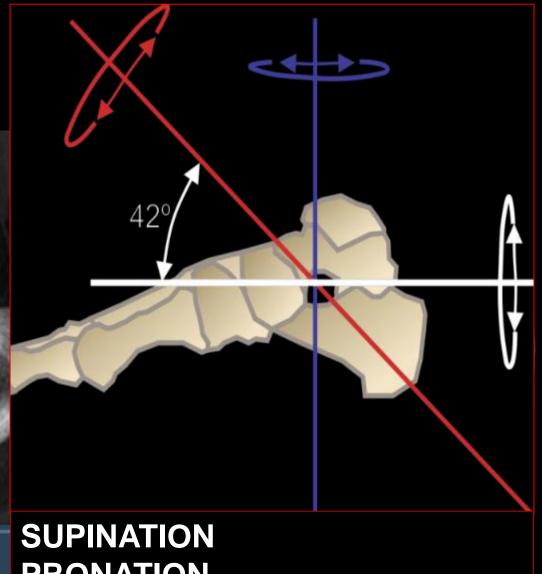






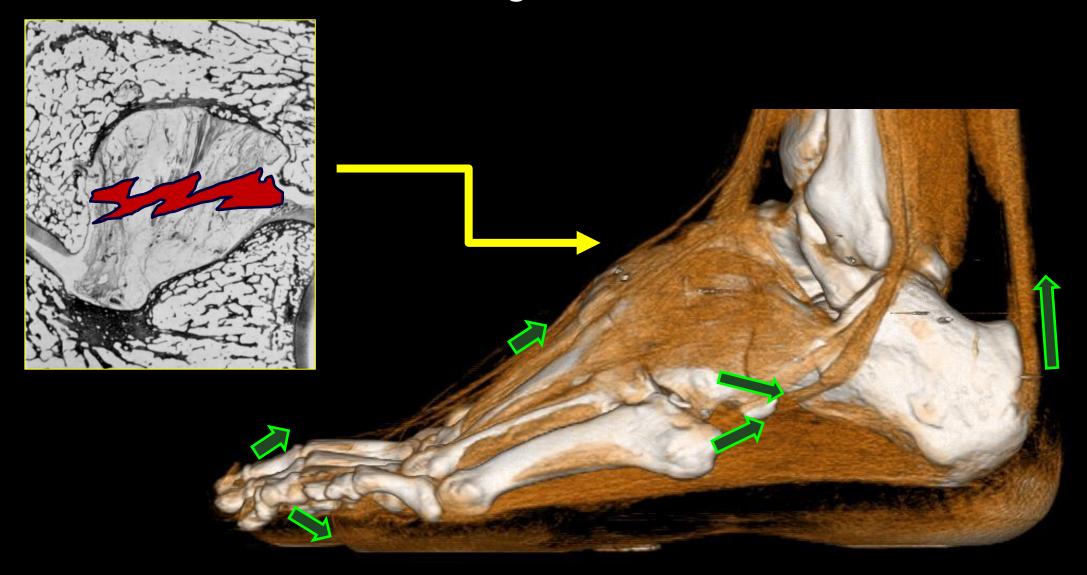




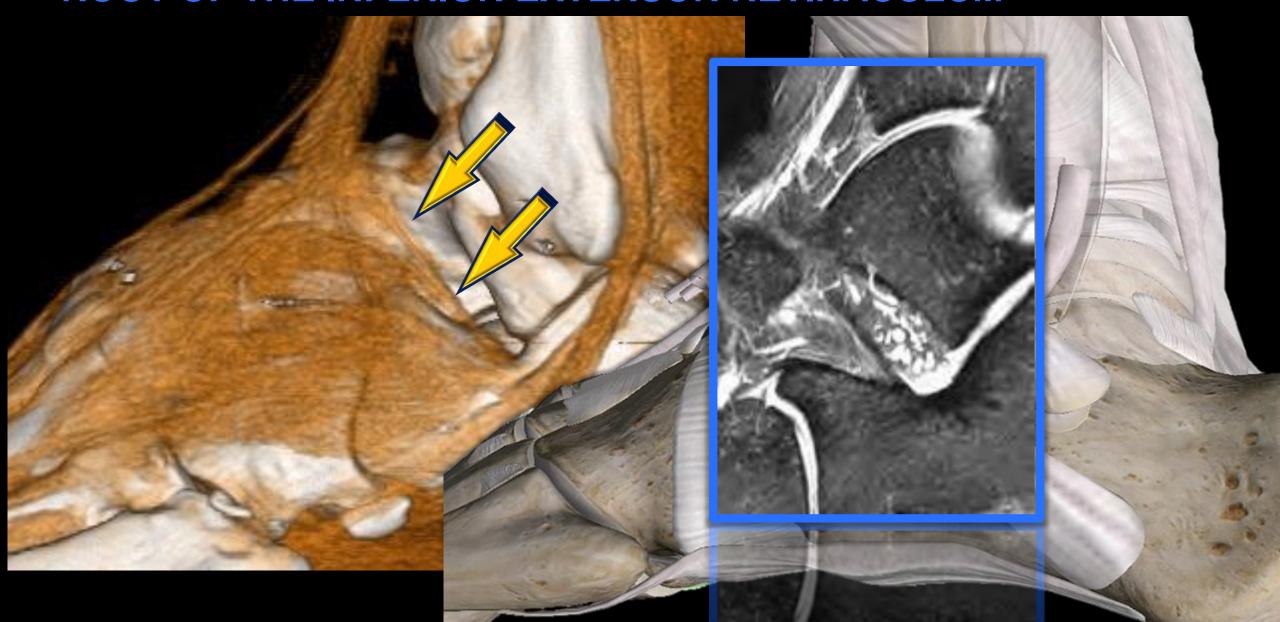


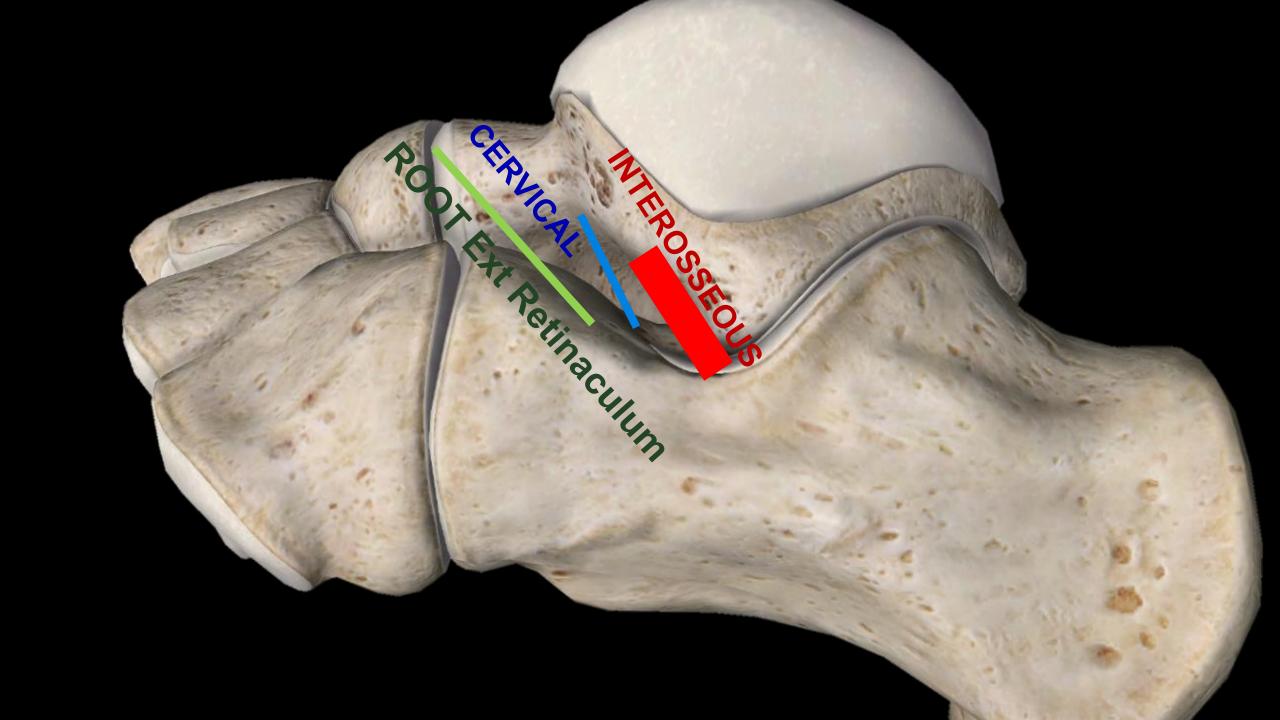
SUPINATION PRONATION EXTENSION FLEXION

PROPRIOCEPTION will give EQUILIBRIUM



ROOT OF THE INFERIOR EXTENSOR RETINACULUM

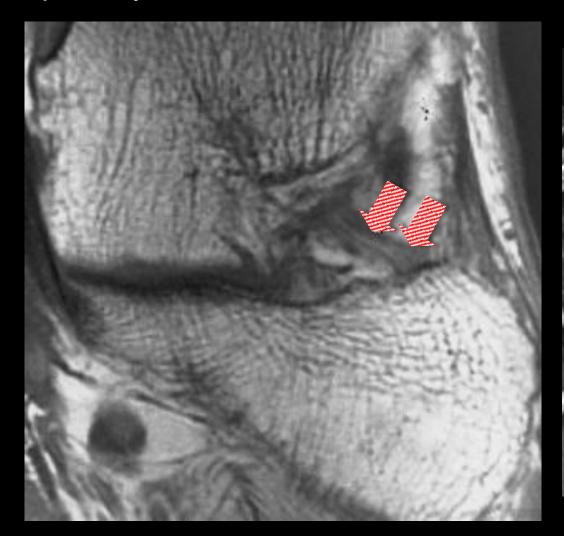


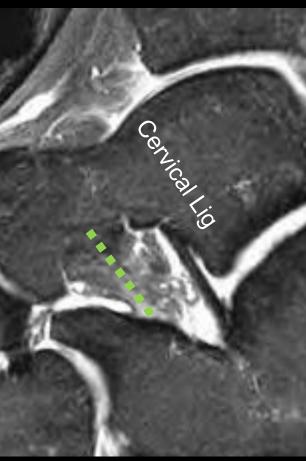


CERVICAL LIGAMENT

Also called Fick ligament, the primary function is to limit the inversion of the hindfoot







INTEROSSEOUS TALOCALCANEAL LIGAMENT

The primary function is to oppose eversion of the foot

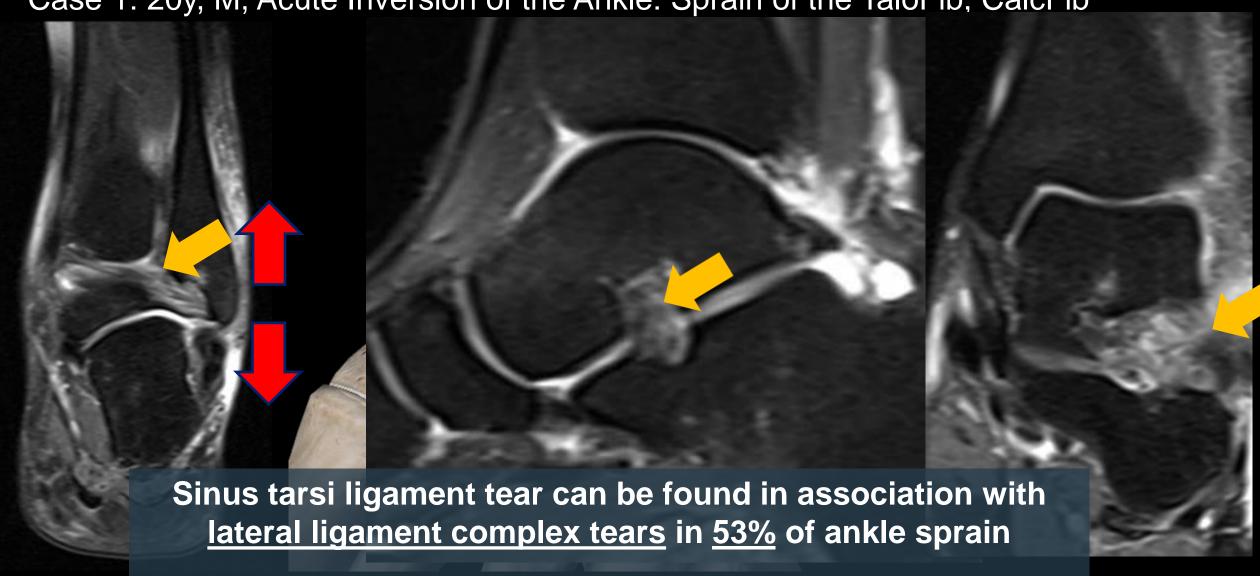


Interosseous Ligament

Resnick D et al. Tarsal sinus: arthrographic, MR imaging, MR arthrographic, and pathologic findings in cadavers and retrospective study data in patients with sinus tarsi syndrome. Radiology 2001;219(3):802-10.

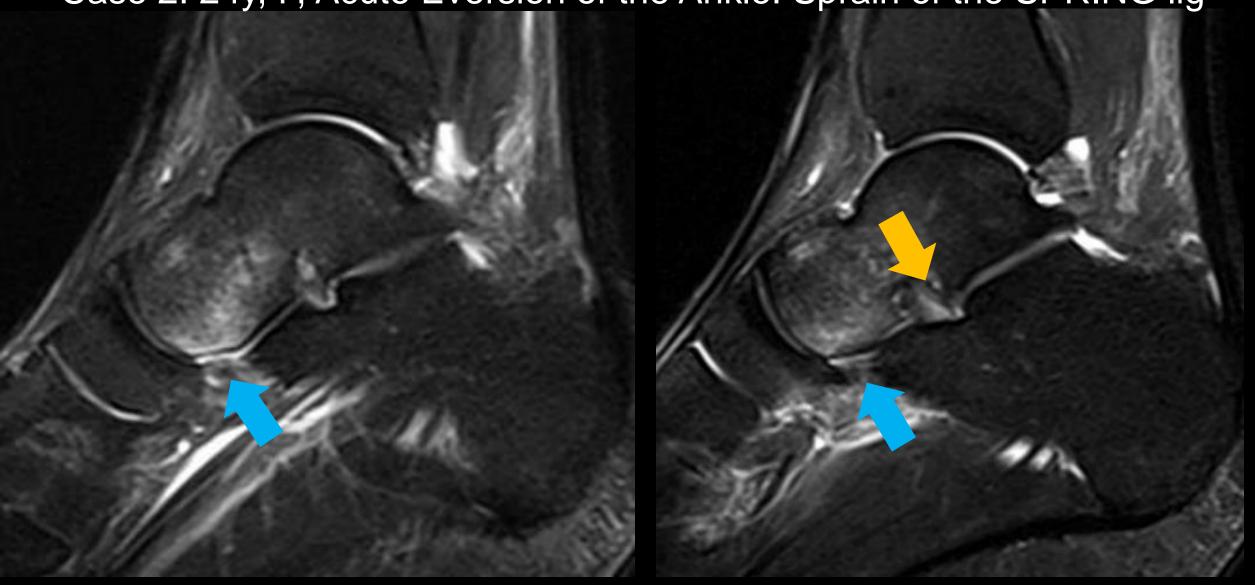
ACUTE LESIONS OF THE SINUS TARSI

Case 1: 20y, M, Acute Inversion of the Ankle: Sprain of the TaloFib, CalcFib



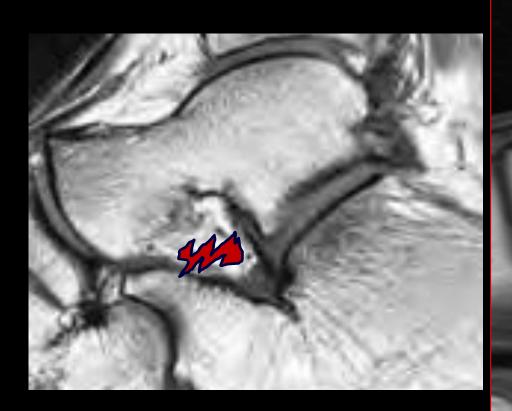
ACUTE LESIONS OF THE SINUS TARSI

Case 2: 24y, F, Acute Eversion of the Ankle: Sprain of the SPRING lig



Chronic: Sinus Tarsi Syndrome (STS)

Conditions that induce <u>compression of sinus tarsi structures</u>, causing inflammatory process with adipose and <u>neural</u> impingement.



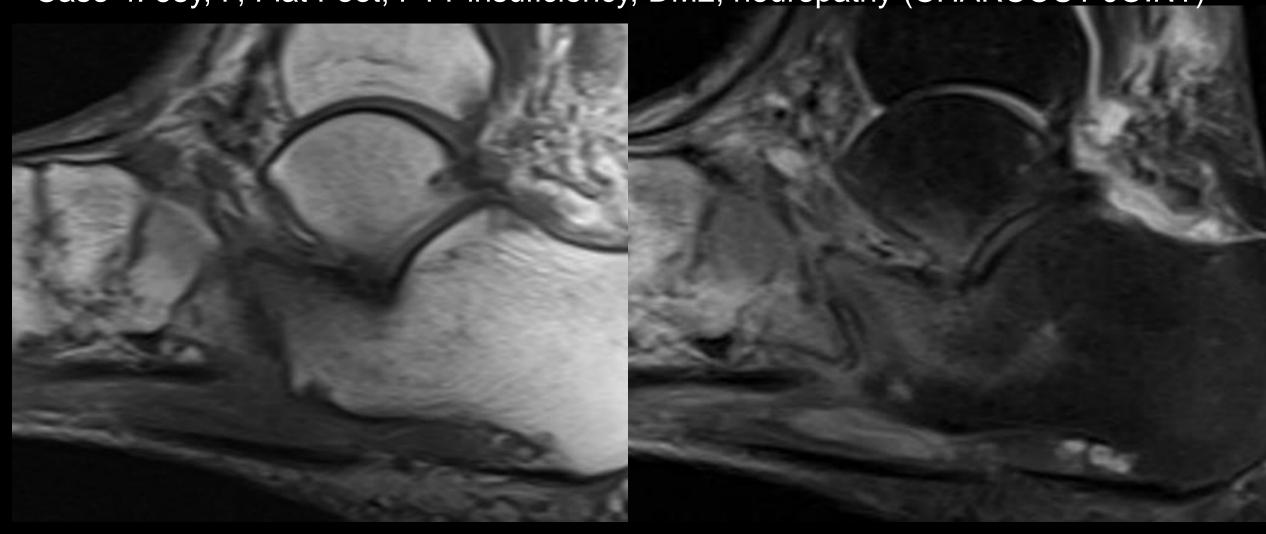
POSTERIOR TIBIAL TENDON INJURY (47%) OF STS

Case 3. F, 57y, PTT insuficiency

Brown, J.E.: The sinus tarsi syndrome. Clin. Orthop., 1960.

Sinus Tarsi Syndrome (STS)

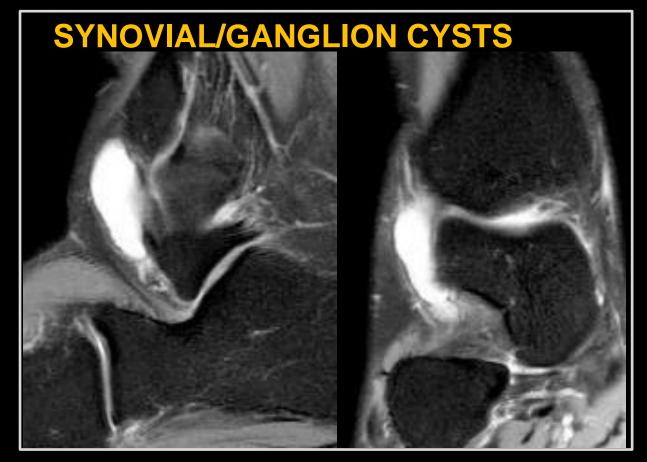
Case 4: 68y, F, Flat Foot, PTT insuficiency, DM2, neuropathy (CHARCOUT JOINT)



Chronic: Sinus Tarsi Syndrome (STS)



Other Pathology of Sinus Tarsi





Other Pathology of Sinus Tarsi

Last Case: M, 36 y, HLAB27 + STS and second digit pain.

Spa: PSORIATIC ARTHRITIS

