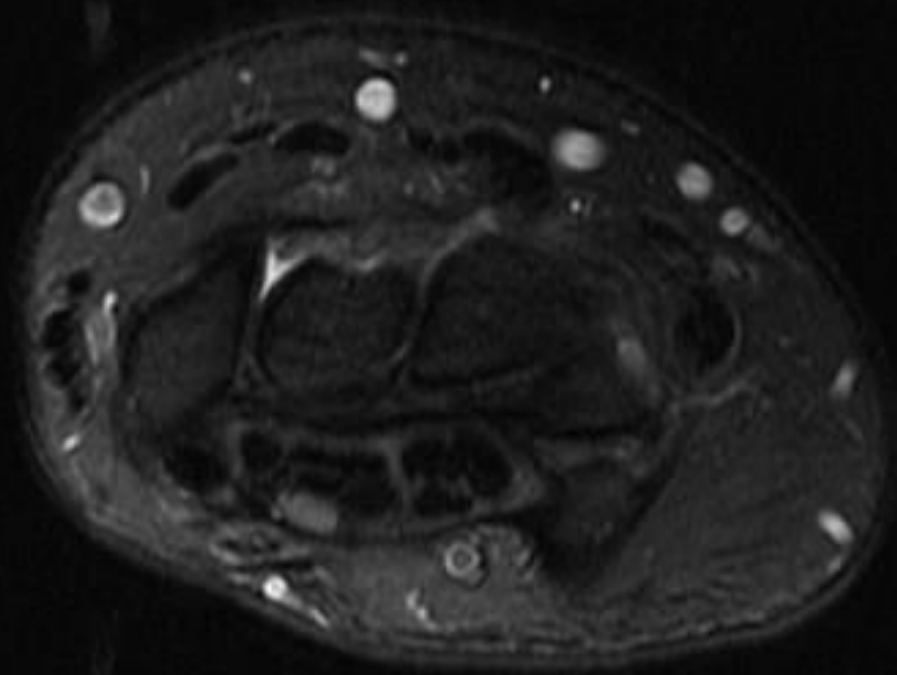


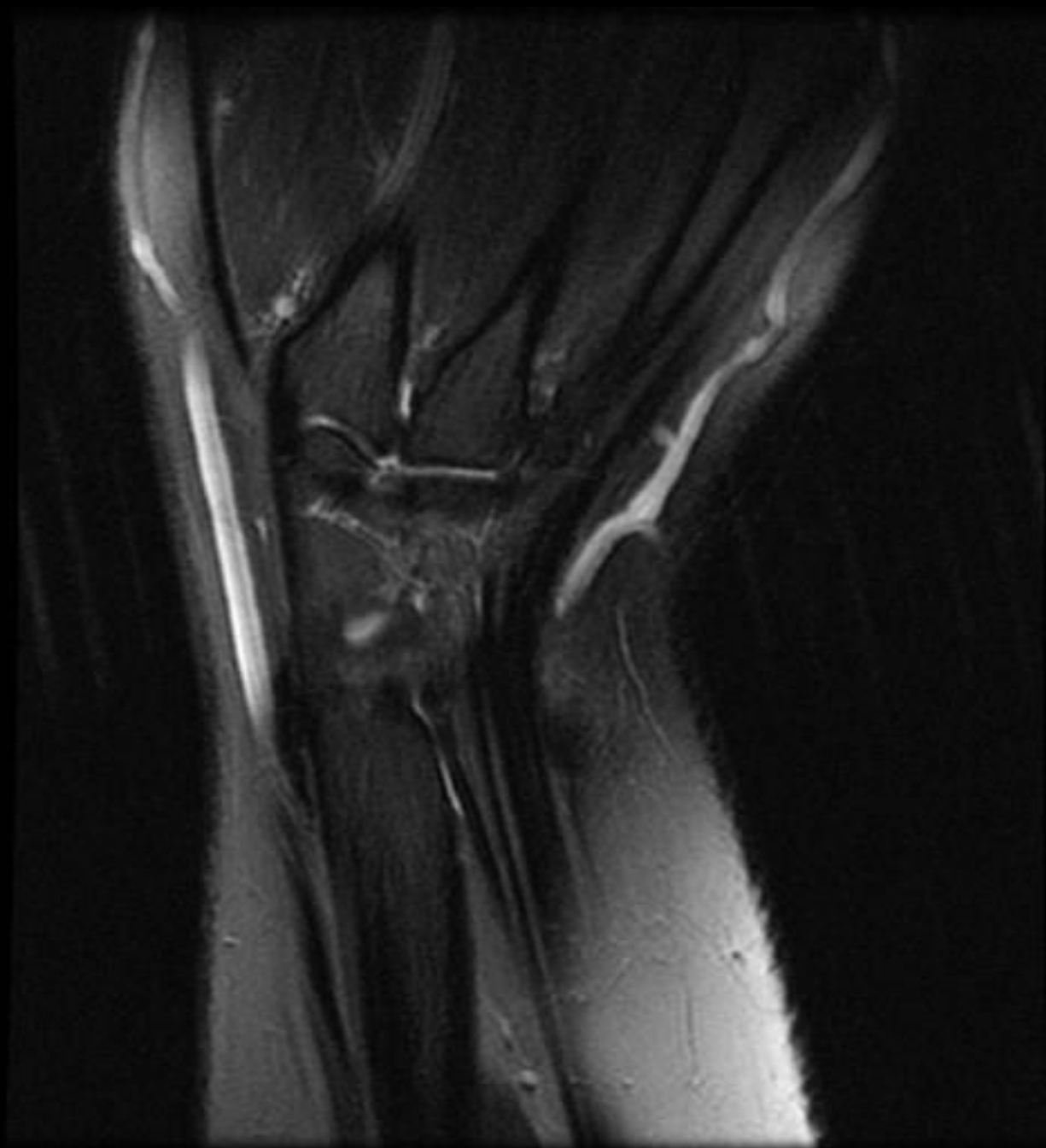


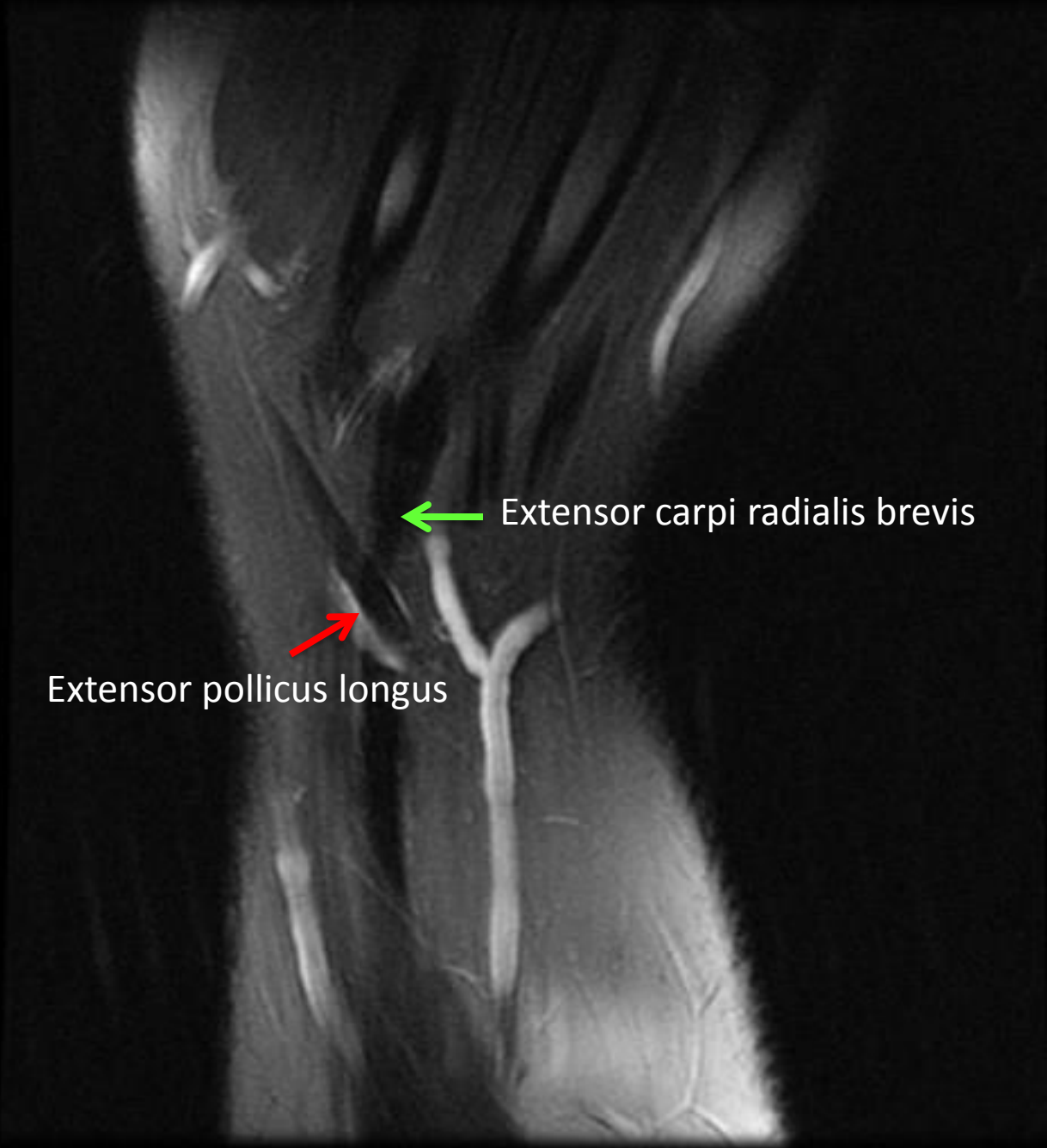
30 yr old woman with wrist pain

Valentin Lance

9/11/15







← Extensor carpi radialis brevis

→ Extensor pollicis longus

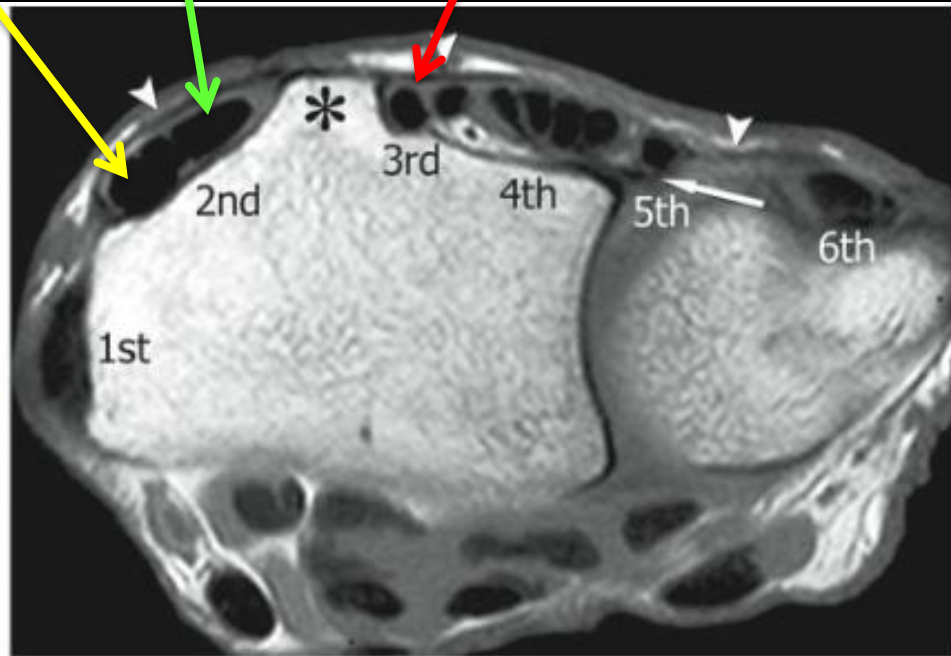
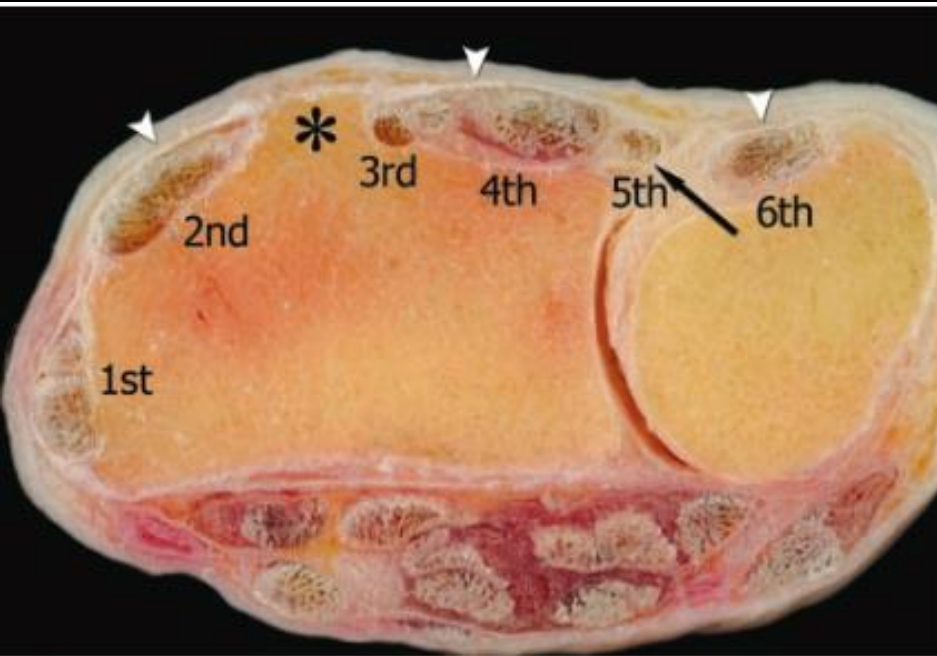
Distal intersection syndrome

- Extensor tenosynovitis at the distal crossover between the second and third extensor compartment tendons

Extensor carpi radialis brevis

Extensor pollicis longus

Extensor carpi radialis longus

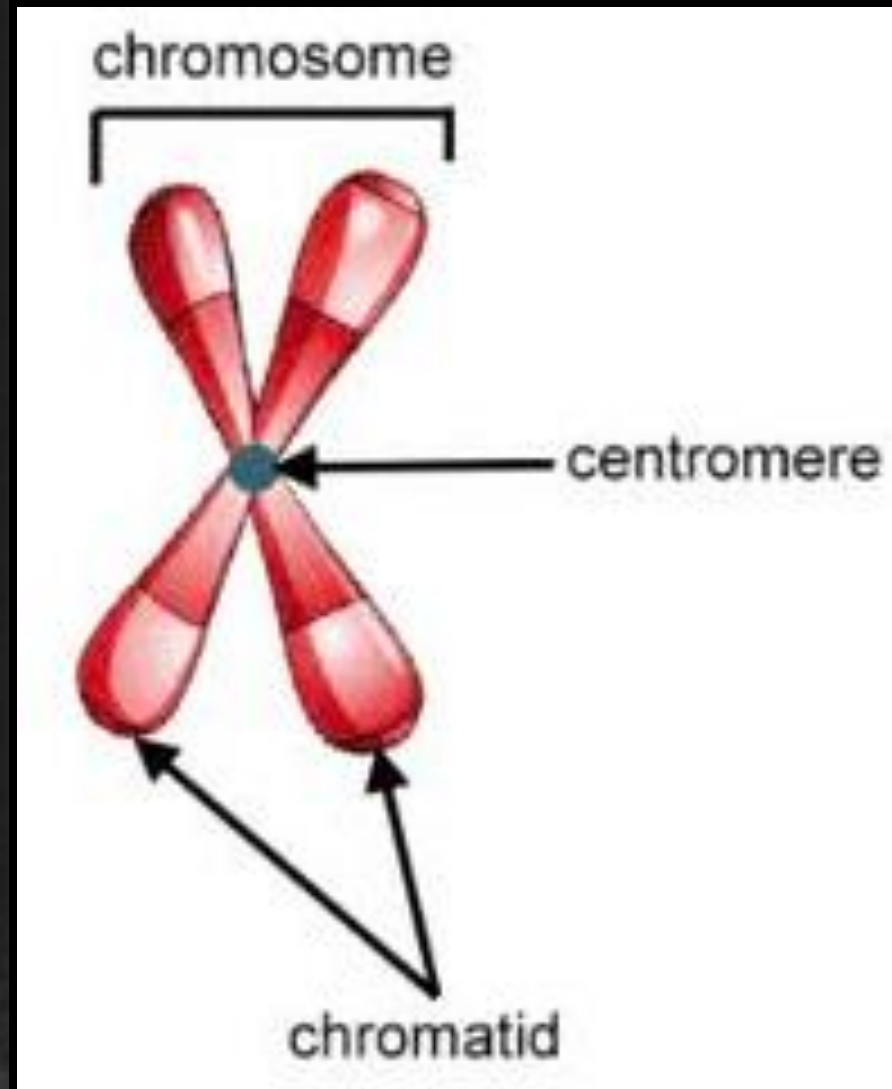


Arrowheads= extensor retinaculum

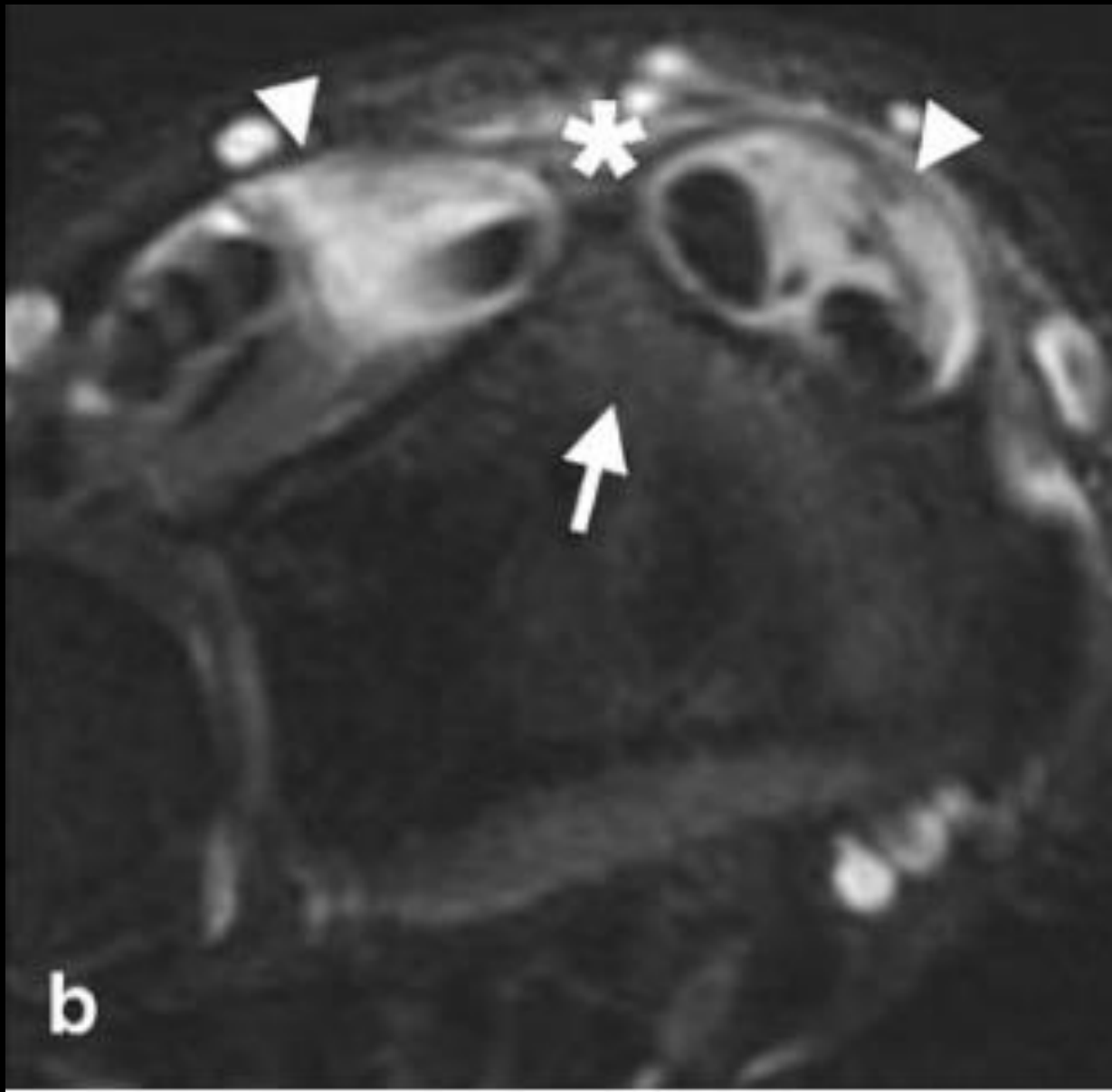
Distal intersection tenosynovitis of the wrist: a lesser-known extensor tendinopathy with characteristic MR imaging features

**Antoni J. Parellada • Angela G. Gopez •
William B. Morrison • Stephanie Sweet •
Charles F. Leinberry • Sean B. Reiter • Mark Kohn**

- Retrospective examination of 5 patients with extensor pollicis longus tendinopathy
- 3 without trauma, 2 with history of fall



*=Lister's tubercle White arrows: extensor retinaculum

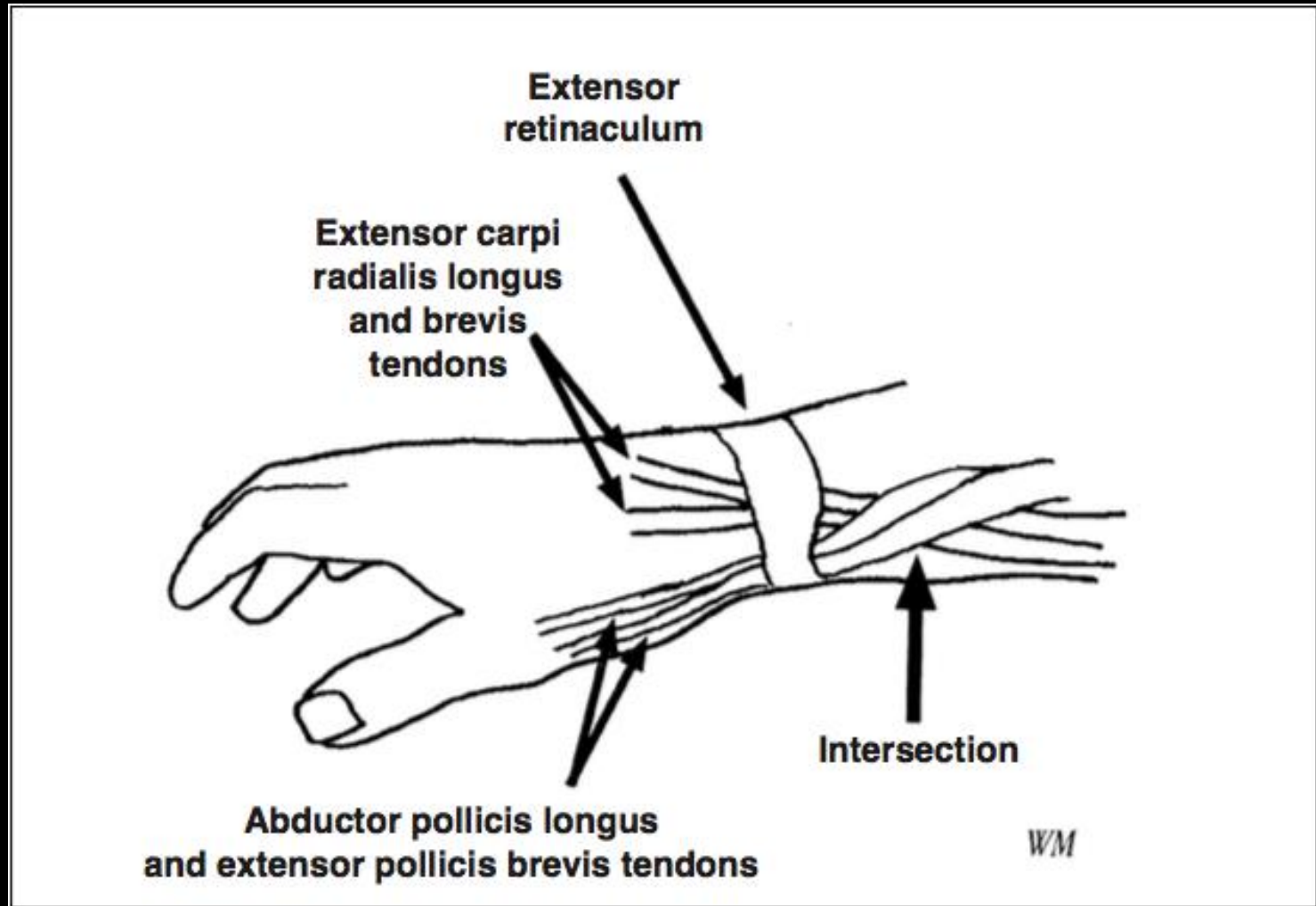


*=Lister's tubercle

Pathophysiology

- May relate to biomechanical pulley effect of Lister tubercle upon the extensor pollicis longus tendon
- The extensor retinaculum may constrict the tendon sheath
- The tendon sheaths of the second and third extensor compartment communicate

Differential considerations: “proximal” intersection aka “bugaboo forearm”



Am J Sports Med. 1994 Jan-Feb;22(1):148-9.

Helicopter skiing wrist injuries. A case report of "bugaboo forearm".

Palmer DH¹, Lane-Larsen CL.

- Overuse injury related to repetitive dorsiflexion and radial deviation of the wrist against resistance of snow
- Risk factors: more aggressive pole plants with ski pole

Proximal intersection

- Symptoms occur at the crossing of the first extensor compartment tendons over the second extensor compartment tendons
- Pain occurs 3-8cm proximal to the wrist joint at the dorsum of the forearm

Summary

- Distal intersection is a rare entity characterized by tenosynovitis at the crossover of the second and third extensor compartments at the wrist
- Differs from proximal intersection, which occurs at the crossover of the first and second extensor compartments 3-8cm proximal to the wrist in the dorsal forearm

References

1. Clavero et al. Extensor Mechanism of the Fingers: MR Imaging-Anatomic Correlation. *Radiographics*. 2003;23:593-611.
2. Costa et al. MRI Features of Intersection Syndrome of the Forearm. *AJR*. 2003;181:1245-1249.
3. Palmer et al. Helicopter skiing wrist injuries. A case report of “bugaboo forearm.” *Am J Sports Med*. 1994;22(1):148-9.
4. Parellada et al. Distal intersection of the wrist: a lesser-known extensor tendinopathy with characteristic MR imaging features. *Skeletal Rad*. 2007;36:203-208

END